Program Availability List

XEROX

Program Availability List XEROX COMPUTER SOFTWARE

Copy No. 190221

Assigned To Balbara & vorynale

XFROX

701 South Aviation Boulevard El Segundo, California 90245 213 679-4511

TABLE OF CONTENTS

| | | | TAB | PAGE |
|-----------|----------|---|---|-------------|
| SECTION I | (White) | GENERAL | | |
| | | Table of Contents - Update Record | 1-2 | 1 |
| | | Program Identification Program Modifications Non-Subscription Orders Subscription Orders for Software (DDS) Registration for Non-Program Products | · · · · · · · · · · · · · · · · · · · | 3 4 5 |
| | | Magnetic Tape Policy | · · · · · · · · · · · · · · · · · · · | 6 6 |
| | | Subscription Activation | | 6 6 |
| | | Subscription Corrections | | 7 7 |
| | | Customer/OEM Ordering | · · · · · · · · · · · · · · · · · · · | 15 15 |
| | | Severity Levels | | 17 17 |
| | | Submittal | | 18 18 |
| | | SIDR Disposition | • | 19 |
| | | Description and Sample of Status Entry Status of Available Programs Sequenced by Catalog Number - all Computers | .1-3 | |
| SECTION 2 | (Yellow) | SIGMA 2/3 - 530 | | |
| | | Software Order Guide | .2-2 .2-3 | |
| SECTION 3 | (blue) | SIGMA 5-9 | | |
| | | Software Order Guide. KWIC Index Program Summaries Diagnostic Summaries | .3-2 | |
| SECTION 4 | (brown) | 9-SERIES | | |
| | | Software Order Guide. KWIC Index Program Summaries. Diagnostic Summaries. | .4-2 .4-3 | |

| SECTION 5 | (Gold) | SPECIAL PRODUCTS |
|-----------|---------|------------------------------------|
| | | CF-16 |
| SECTION 6 | (Green) | PUBLICATIONS |
| | | Publications - General Information |

RECORD OF UPDATE

| Update Number | Insertion Date | Initials | Update Number | Insertion Date | Initials | Update Number | Insertion Date | Initials |
|------------------|----------------|----------|------------------|----------------|----------|--|----------------|----------|
| | | | | | | | | |
| | | | | | | | | |
| <u> </u> | | | | | | ************************************** | | ** |
| | | | | | | | | |
| | | | | | | | | |
| | | - | | | | | | |
| | | | | | | | | |

INTRODUCTION

Your Program Availability List (PAL) manual contains a list of all available Xerox software products, user programs and programming manuals. The systems that control the distribution and ensure the updating of the items listed are also described.

A complimentary copy of the PAL is given for each Xerox computer installed or on order. A \$30.00 charge is made for additional copies and updates for the first year. Thereafter, an annual charge of \$15.00 is made for updates for each PAL purchased over and above the complimentary copy.

To order a PAL, submit a "PAL Manual Request Card" (Form 1496) to:

Xerox Corporation Attn: Software Services - Data Entry Administration, M4-08 701 S. Aviation Blvd. El Segundo, California 90245

A complete address is needed for both Xerox employees and customers. For employees, the employee number (instead of an installation number) and a valid cost center or department number must be included on the registration card. Alterations to a PAL registration are made by submitting the "PAL Manual Request Card" to the same address indicated above and indicating on it the required change.

A PAL update memo is sent to you monthly. It lists programs and publications added to or updated in the PAL for the time period indicated in its cover memo. Each memo incorporates all modifications since the last reprint of the PAL. So, as you receive these updates, the $\overline{\text{old}}$ updates can be disposed of since the current one contains the previous modifications as well as the recent ones.

The PAL is published to give you, the user, various types of information. We would appreciate your telling us about items that are either unclear or not included.

PAL MANUAL ORGANIZATION

The list below briefly outlines the format of the PAL:

GENERAL SECTION

| Table of Contents - Update Record | (white) |
|-----------------------------------|---------|
| General Information Section | (white) |
| Status Information Section | (white) |

COMPUTER SECTION

| Sigma 2/3 and 530 Section | (yellow) |
|---------------------------|----------|
| Sigma 5-9 Section | (blue) |
| 9-Series Section | (brown) |
| Special Products Section | (gold) |

PUBLICATIONS SECTION

| General Information Section | (green) |
|---|---------|
| Sigma and 530 Computer Publications Section | (green) |
| 9-Series Computer Publications Section | (green) |

Contents of each Major Section and Subsection

GENERAL SECTION

Table of Contents provides a list of the topics covered in the PAL and their respective page locations. The Update Record can be used to record the insertion of the PAL updates as they are received.

General Information Section explains the overall organization of the PAL and contains information on the following topics:

Definitions and classifications of software
Information about submitting one-time orders
Subscription information for software, technical bulletins and programming manuals
Descriptions and examples of forms used to obtain items listed in the PAL

Requirements for special requests SIDR submittal information for improving or correcting software

Status Information Section contains all currently orderable software, identified by the program catalog numbers, in numerical order.

COMPUTER SECTION

Each computer section contains a Software Order Guide, a KWIC Index, Program Summaries and Diagnostic Program Summaries EXCEPT for Special Products which has one subsection per product each containing a KWIC Index and Program Summaries. These are defined as follows:

Software Order Guide

Contains the catalog number, a brief description, the elements necessary for normal operating requirements, and some major processors available for the Xerox operating systems.

KWIC (Key Words In Context) Index

Is an alphabetic list of orderable software based on one or more key words in the program's title. The catalog number and class is given for each program.

Program Summaries and Diagnostic Program Summaries

Describes the functions, prerequisites and storage requirements of a program and gives other pertinent information. The first line of each summary contains the six-digit program catalog number, applicable computer, title and the program's author. The programs are in numerical order with the licensed programs (those with an "A-" Class designation) appearing first followed by the unlicensed programs (those with a "B-" Class designation).

The storage requirements and prerequisites vary depending upon the user's specific environment. A Xerox field representative should be consulted to determine the exact requirements.

NOTE: Since the Program Summaries are intended for information only, Xerox Corporation cannot assume any responsibility for supplying additional memory or peripheral devices when the original requirement was based solely on information in the program summary.

PUBLICATIONS SECTION

Contains a General Information section which has information on the diagnostic program manuals and user programming manuals. It also has payment and pricing policies for the publications.

It is primarily a catalog of brochures, programming manuals and diagnostic program manuals.

GENERAL INFORMATION SECTION

All software products are assigned a program classification and a unique six-digit program catalog number.

Program Classifications

The program classification is expressed as a two-digit code of the form "xy" where x signifies whether the program is licensed (type A) or unlicensed (type B) while y signifies the program's support category (1, 2 or 3).

For some <u>licensed programs</u> (type A), <u>referred to as "Program Products"</u>, users are charged a usage fee. These programs are typically libraries or application packages which recipients are allowed to use for the fixed period specified in the Xerox License Agreement.

NOTE: Prior to filling requests for licensed programs, Software Services must have in its possession a signed License Agreement for Xerox Program Products and a Supplement to License Agreement for Xerox Program Products for each product involved.

Additional information may be obtained from any Xerox field representative.

For <u>unlicensed programs</u> (type B), <u>referred to as "Control Programs"</u>, users are neither charged a usage fee nor are they required to submit license agreements. These programs include operating systems, monitors, compilers and assemblers, utilities, and diagnostics as well as other types.

Both licensed and unlicensed programs are divided into three classes:

- Class 1 Supported. Programs in this class are maintained by Data System Development (DSD) and the field responsibility lies with Xerox Computer Field Engineering (CFE).
- Class 2 Supported. Programs in this class are supported by other than DSD projects.
- Class 3 Not Supported. Programs in this class may have been supported at one time, or they may have been contributed by Xerox customers or employees and made available without being checked, tested or maintained by Xerox. Programs cataloged for the EXCHANGE (Xerox Computer Users' Group) Library are included in this class.

Program Identification

All available Xerox software is identified by a unique six-digit number which is referred to as a program catalog number. This catalog number may encompass a series of programs if these programs are ordinarily ordered as a group (e.g., Sigma 2/3 Numerical Subroutine Package, Catalog No. 705546). When this group is made available as a package, only a single "cover number" is used to identify it.

Every program catalog number has a two-digit number appended to it which is referred to as a program element. It is in the form "xy" where x usually refers to the form (source, binary, etc.) and y usually refers to the media (printed, magnetic tape, etc.) of the program. For example, a "-11" is a printed description of the program and a "-84" is absolute binary cards. The descriptions of these digits are summarized below:

First Digit Meaning

Second Digit Meaning

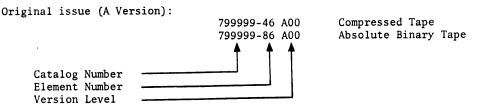
| 0 | Miscellaneous | . 0 | Miscellaneous |
|---|--------------------|-----|-----------------------|
| 1 | Description | 1 | Printed |
| 2 | Relocatable Binary | 2 | 7 level paper tape |
| 3 | Source | 3 | 8 level paper tape |
| 4 | Compressed | 4 | Cards |
| 5 | Listing | 5 | 7 track magnetic tape |
| 6 | Update | 6 | 9 track magnetic tape |
| 7 | Miscellaneous | 7 | Disk pack |
| 8 | Absolute Binary | 8 | Miscellaneous |
| 9 | Miscellaneous | 9 | Miscellaneous |

NOTE: There are two permanently assigned program elements with the first digit zero. The designation of -01 is assigned to technical bulletins and a -02 is assigned to an unpublished technical document.

Not all of the possible elements are available for each program. Programs are usually distributed on the type of media that would be most suitable for the potential users. Refer to the Status List section for the available elements for each program. If an element is not listed, it may be ordered only on a Field Request; see Special Requests below.

Program Modifications

A program is given a version level of A00 when it is made available for the first time. Therefore, a software item is referenced by a number comprised of a program catalog number, program element and a version level. For example:



As significant changes or enhancements to the program occur, the non-alphabetic characters of the version level are incremented. For example:

Program Difficulty Corrected:

| 799999-46 A00 | Compressed Tape |
|---------------|----------------------|
| 799999-66 A01 | Update Tape |
| 799999-86 A01 | Absolute Binary Tape |

Feature Added:

| 799999-46 | A00 | Compressed Tape |
|-----------|-----|----------------------|
| 799999-66 | A02 | Update Tape |
| 799999-86 | A02 | Absolute Binary Tape |

A major new release or a complete incorporation of all changes to the source program causes the alphabetic character of the version letter to be incremented and the non-alphabetic character to be set to zero. For example:

Reassembled to incorporate modification A01 and A02

| 799999-46 | B00 | Compresse | d Tape | |
|-----------|-----|-----------|--------|------|
| 799999-86 | B00 | Absolute | Binary | Tape |

When ordering programs, however, the version level does not have to be specified as the latest available version will always be distributed.

SOFTWARE ORDERING PROCEDURES

NON-SUBSCRIPTION ORDERS

Individual Orders

One-time copies of any program, technical bulletin or programming manual must be ordered on a Literature/Program Request (form 1535). For customer orders, their installation number and the department number of the person preparing the order must be given. For Xerox employee orders, the department number is sufficient. A sample form with further instructions is shown on Figure 1.

If the order is for software items, the program catalog number and the designation of the elements required must be included on the form. All <u>magnetic tapes</u> are assumed to be at 800 BPI. Indicate other BPI under the "Description" column if some other is required. Also, the 7-track version of a magnetic tape is usually available even if only a 9-track version is indicated. To order, use the program element number that reflects the 7-track tape (i.e. -25, -85, etc.).

To determine whether a particular element is available for a given program catalog number, refer to the Status List section. If there is a requirement for a program element that is not shown as being available, it may be requested via a Field Request (form 1435). Refer to "Special Requests" for the procedure.

Since a Literature/Program Request (LPR) will not be returned to the requestor until all ordered items are available for shipment, we encourage that orders for programming manuals be submitted on a separate LPR.

Mail Literature/Program Request to:

Xerox Corporation Attn: Software Services - Software Library, M4-12 701 S. Aviation Blvd. El Segundo, California 90245

SUBSCRIPTION ORDERS

Subscription Orders for Software

Software Services provides a DIRECT DISTRIBUTION SYSTEM (DDS) whereby customers and Xerox regional and district offices automatically receive major items of software and their subsequent revisions at no additional charge. This includes the operating systems and processors which are summarized on the Software Order Guides. To determine what software is distributed via DDS, refer to the Software Order Guides under the appropriate Computer section.

An installation may be registered for only one operating system. Requests for multiple operating systems require special justification and must be accompanied by an explanatory memo from the installation's field analyst.

DDS REGISTRATION FOR PROGRAM PRODUCTS

The sales representative initiates all required documents and forwards them to Software Services through the Regional Sales Administrator and Order Administration. These documents include a (1) Sales Order (if needed), (2) License Agreement for Xerox Program Products, and (3) Supplement to License Agreement for Xerox Program Products. On receiving these documents from Order Administration, Software Services registers the installation for DDS and initiates shipment. Refer to "Program Classifications" for definitions of Program Products.

DDS REGISTRATION FOR NON-PROGRAM PRODUCTS

The field analyst is responsible for initiating an installation's DDS registration for non-program products. A Registration/Subscription Request (form 2300) should be submitted to Software Services at least four weeks before the hardware is installed to ensure delivery. The white original, yellow and pink copies are sent and the goldenrod is retained by the analyst. The pink copy and a copy of the computer listing of the entry is returned to him after the registration has been completed. A sample form with its instructions is shown on Figure 2.

NOTE: Unless the "IP" column (for "Initial Package") on the form is checked, the installation is merely registered for the desired product but the direct distribution begins with the next release of that product. Refer to the Software Order Guide under the appropriate computer section for the contents of any particular initial package. (No initial packages permitted for diagnostic programs.)

Mail the Registration/Subscription Request to:

Xerox Corporation
Attn: Software Services - Data Entry Administration, M4-08
701 S. Aviation Blvd.
El Segundo, California 90245

MAGNETIC TAPE POLICY

Installations receiving software on magnetic tapes are encouraged to return those tapes to Software Services as soon as possible or to send a Purchase Order covering those tapes. An installation will be allowed to hold tapes up to 60 days without penalty. However, if any installation accumulates 6 or more delinquent tapes, no subsequent shipment of software on magnetic tape will be made.

All magnetic tapes are assumed to be at 800 BPI. Indicate other BPI in the "Density Mag Tape" area if some other is required. Also, the 7-track version of a magnetic tape is usually available even if only a 9-track version is indicated. To order, use the program element number that reflects the 7-track tape.

DDS SUBSCRIPTION CORRECTIONS

It is the subscriber's responsibility to keep his subscription up to date. Alterations to a DDS subscription are accomplished by submitting a Registration/Subscription Request (form 2300) to Software Services. The appropriate box on the form must be checked which indicates what alteration is to be done i.e., C (change), A (add), D (delete), or R (renew). The subscriber's field analyst must approve and submit the form. After the DDS alteration has been completed, a copy of the on-line listing is returned to the submitter. A sample form with its instructions is shown on Figure 2.

REPORTS

Xerox Regional and District Software Support Managers receive a monthly listing of the distribution status of customers within their areas.

Subscription Orders for Manuals

Software Services provides a PUBLICATIONS SUBSCRIPTION SERVICE (PSS) whereby users may subscribe, for one or two years, to specific programming manuals and all revisions to them issued during the duration of the subscription. There is a charge for publication subscriptions. Prices for both one and two year subscriptions of a programming manual are shown in the Publications section of the PAL. For further details on pricing and for the proper usage of that section, refer to the General Information subsection of the Publications section.

SUBSCRIPTION ACTIVATION

Subscribers have two options regarding their subscription:

- 1. They have the option to have the subscription take effect immediately (non-deferred). In this case, the subscription begins upon the receipt of the subscription request. The latest edition of the publication and all of its revision packages (if any) will be sent immediately. This option should be used by those that do not have the particular publication.
- 2. They have the option to have the subscription take effect with the printing of the next edition of the publication (deferred). Until that time, the subscriber will receive all revision packages published for the publication between the subscription request date and the next new edition. This option should be used by those that already have the particular publication.

SUBSCRIPTION TERMINATION

A subscription does not expire until a new edition of the publication is released <u>following</u> the chronological expiration date of the subscription. The subscriber will be notified at the time the manual is shipped that his subscription has expired. The subscriber can then submit a subscription renewal for that publication early enough to avoid an unintended interruption of service.

The expiration of a subscription for one publication does $\underline{\text{not}}$ affect the subscription to any other publication that may have been listed on the same request.

REGISTRATION FOR PSS

The Registration/Subscription Request (form 2300) is used to enter subscriptions for programming manuals. A sample form is shown on Figure 2. The form is self-explanatory except for some amplifications and restrictions which are given in notes following Figure 2.

An RSR Supplement (form 2300-1) can be used for PSS requests for which the programming manuals ordered are to be shipped to more than one "Ship-to" address. Each address should be indicated on the RSR Supplement, a sample of which is shown on Figure 3. One subscription for each programming manual will be registered for each addressee. The number of "Ship-to" addresses must be equal to the total quantity for each programming manual.

Mail the Registration/Subscription Request and/or Registration/Subscription Supplement to:

Xerox Corporation Attn: Software Services - Data Entry Administration, M4-08 701 S. Aviation Blvd. El Segundo, California 90245

PAYMENT

The Registration/Subscription Request must be accompanied by payment in full for the total request (i.e., deferred subscriptions that do not go into effect until the printing of the next edition of the associated publication must be included in the payment). Payment may be in the form of a billable purchase order or by a check made payable to Xerox Corporation. Internal Xerox subscriptions will be charged to the subscriber's organization.

Subscribers are not allowed to apply educational discounts against subscription prices. However, to prevent bookstores and other large ordering facilities from being faced with the prospect of absorbing the loss for unsold publications, full credit is given for all publications returned within 60 days of shipping.

PSS SUBSCRIPTION CORRECTIONS

It is the subscriber's responsibility for keeping his subscription up to date. Alterations to a publication subscription are accomplished by submitting a Registration/Subscription Request (form 2300) to Software Services. The appropriate box on the form must be checked which corresponds to the alteration that needs to be done i.e., C (change), A (add), D (delete), or R (renew). A sample form with its instructions is shown on Figure 2.

Subscription Orders for Technical Bulletins

Technical Bulletins (TB) are published documents which describe changes made to software products usually initiated by SIDRs. All Technical Bulletins are considered "temporary" since each is applicable only to the current released version of a software product. Each active Technical Bulletin is incorporated in the next released version of the applicable software product.

There is no charge for Technical Bulletins, but a customer may not authorize his own subscription -- a Xerox field analyst's signature is required. Subscriptions for Xerox field offices, library copies or field analysts require authorization by the region or district manager.

REGISTRATION FOR TECHNICAL BULLETINS

The Registration/Subscription Request (form 2300) is used to enter a Technical Bulletin subscription. On the form indicate the program catalog number and append to it a -01, which is the element designator for Technical Bulletins. The subscription takes effect immediately and remains as such until cancelled. Upon registering, all published Technical Bulletins related to the software product are sent as they are produced. By specifying "ALL" in the Catalog No. column on the form, the user will receive technical bulletins for all software products.

Mail the Registration/Subscription Request to:

Xerox Corporation Attn: Software Services - Data Entry Administration, 701 S. Aviation Blvd. El Segundo, California 90245

TECHNICAL BULLETIN SUBSCRIPTION CORRECTIONS

It is the subscriber's responsibility for keeping his subscription up to date. Alterations for a Technical Bulletin subscription are accomplished by submitting a Registration/Subscription Request (form 2300) to Software Services. The appropriate box on the form must be checked which corresponds to the alteration that needs to be done i.e., C (change), A (add), D (delete), or R (renew). A sample form with its instructions is shown on Figure 2.

Xerox Corporation 701 South Aviation Boulevard El Segundo, California 90245 213 679-4511

XEROX

Literature / Program Request

Nº 142572

| Liter | atur | 8 / PI | ogran | neque | કા | | | | | | | 74- | 112016 |
|---------|------------|---------------------|-------|----------------|-------|----------------|---------------------------------------|--------|--------|--|----------|-----------------|-------------------|
| | рТо | | | | | | | | / | Date | | © | |
| ☐ xe | erox Re | presenta | ive | 🚱 | | c | Office or Mail Station | | Ext. | Reques | ter | | |
| □ c | ustome | · | | (A) | | В | Bill To | | | | | (H) | |
| | | | | | | | Œ | | | Departr | nent No. | <u>(</u> | , |
| | | | | | | | | | | Mgr. Ap | proval | | |
| | | | | | | | | | | | | ① | |
| Date | Require | ^{od} (| B | Billable | ,O | No | Purchase Order No. | | | Date Sh | | Via. | |
| Insta | llation | No. | © | S/O No. | | | Shipping Instruction | s | 11 | Wt. Ctns. | 1 | Waybill | No. |
| No. | | Quantity Shipped | | Publication | n No. | Ele- ment | · · · · · · · · · · · · · · · · · · · | Desc | iption | | | Unit Price | Extended Price |
| 1 | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | |
| 3 | | | | | C | , | M | | | | | -: | |
| 4 | | | | - | Ť | | | | | | | | ļ |
| 5 | | | | | | | | | | | | | |
| 6 | | | | - | | | | · *** | | | | | |
| 7 | | | | | | | | | | | | | ļ |
| 8 | | | | | | \dashv | | | | ······································ | | | |
| 9 | | | | | | | | *** | | - | | | |
| 10 | | | | | | | | | | | | | |
| 11 | | | | | | \dashv | | | | | | | |
| 12 | | | | | | | | | | | | | |
| 13 | | | | | | | | ···· | | | | | |
| 14 | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | |
| 16 | | | | | | $\neg \dagger$ | | | | | | | 1 |
| 17 | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | |
| Remark | ks | (N) | | | | 1_ | | | | | Total ► | | <u> </u> |
| Justifi | cation | | | i | | | | Lance | | | | 1 | |
| 535(7/ | 721 | | | - | | | | Logged | | | | | |

White - Publication Services / Yellow - Shipper / Pink - Confirmation / Goldenrod - Originator

Figure 1.

DIRECTIONS FOR FILLING OUT THE LITERATURE/PROGRAM REQUEST (LPR) FORM 1535

- A. Record complete name and address of Xerox customer or Xerox representative for whom the ordered items are intended. Mail stations and phone extension numbers for Xerox representatives should be indicated.
- B. Enter realistic, actual date by which items are required.

 delivery within less than 10 days is requested, explain request form. If air postage is necessary to fulfill requirement, the postage will be charged to the requester.
- C. This field is mandatory for all orders. Customers should use the seven-digit installation numbers, Xerox employees must use a valid cost center number.
- D. Check "yes" or "no."
- E. Enter name and address of individual to whom an invoice should be sent if order covers billable items or magnetic tape.
- F. Enter customer's purchase order number if order is for billable item. (Copy of purchase order must be attached.)
- G. Enter date the order is prepared.
- H. Enter name of the Xerox field representative preparing the request.
- Enter department number of person preparing the order in this space even if request is for a Xerox customer.
- J. Section, Regional or District Manager's approval is required if order is for a Xerox customer.
- K. Xerox Software Library/Distribution personnel will enter date item is shipped, name of carrier, and number of cartons.
- L. Enter the catalog number, version, and element designation for each item ordered. For software a -11 or -61 element will automatically be shipped for each product ordered, making it unnecessary to order it explicitly; the <u>same</u> applies to revision packages to manuals. To expedite processing do not order manuals on the same request as software.
- M. Enter title of item requested.
- N. Enter any additional relevant information regarding items ordered or shipping instructions.

Xerox Corporation
Attn: Software Services - Documentation/Software Subscriptions
701 South Aviation Boulevard
El Segundo, California 90245

XEROX

| Registration/Subscr | iption Request | • Please type | | | No | 04933 |
|----------------------|---|---------------------------------------|-----------------|--------------------------|---------------|----------------|
| Customer - Ship To | | B See attached supplement. | Month | Day | Ye | ar . |
| Attention | | | Installation No | <u> </u> | | |
| Department | | | Purchase Order | or Charge No | | |
| Street Address | | | E | or onlyge 140 | • | • |
| City | State or Province | Zip or Country | Region | Dis | strict | |
| Customer - Bill To | N | | | $\overline{}$ | | |
| Attention | | | Add Chang | G) _ | Renew Delete | |
| Department | no. | | | DDS Entries | , | |
| Street Address | | | CPU | | . Cogo | 7 |
| City | State or Province | Zip or Country | Input Media | De | nsity Mag | Z. Tape |
| Item 0. | | · · · · · · · · · · · · · · · · · · · | (I) | | (K | |
| No. Qty. Catalog No. | Description | | | Subscription efer? Pr | ice | Total Price |
| 1 (L) (M) | N | | 0 P | Q) (| \widehat{R} | s |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | · | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | + | |
| 15 | | | | | | |
| 16 | | | ++- | | | |
| erox Representative | | | T Taxas | | \dashv | |
| 200(10 (72) | Software Services / Yellow-Order Administra | | T Total | | | |

FIGURE 2

Xerox Corporation
Attn: Software Services - Documentation/Software Subscriptions
701 South Aviation Boulevard
El Segundo, California 90245

XEROX

Registration/Subscription Request Supplement

| Customer Ship To | | | Customer Ship To | | |
|------------------|-------------------|----------------|------------------|-------------------|----------------------|
| Attention | | | Attention | | |
| Pepartment | | | Department | | |
| treet Address | | | Street Address | | |
| treet Address | | | | | 7 - Country |
| ity | State or Province | Zip or Country | City | State or Province | Zip or Country |
| ustomer Ship To | | | Customer Ship To | | |
| Attention | | | Attention | | |
| Department | | | Department | | |
| Street Address | | | Street Address | | |
| City | State or Province | Zip or Country | City | State or Province | Zip or Country |
| Customer Ship To | | | Customer Ship To | | |
| Attention | | | Attention | | |
| | | | Department | | |
| Department | | | | | |
| Street Address | | | Street Address | | |
| City | State or Province | Zip or Country | City | State or Province | Zip or Country |
| Customer Ship To | | | Customer Ship To | | |
| Attention | | 4 | Attention | | |
| Department | | | Department | | |
| Street Address | | | Street Address | | |
| City | State or Province | Zip or Country | City | State or Province | Zip or Country |
| Customer Ship To | | | Customer Ship To | | |
| Attention | | | Attention | | |
| Department | | | Department | | |
| Street Address | | | Street Address | | |
| City | State or Province | Zip or Country | City | State or Province | Zip or Country |
| | | | | | - El Segundo, Califo |

FIGURE 3

DIRECTIONS FOR FILLING OUT THE REGISTRATION/SUBSCRIPTION REQUEST (RSR) FORM 2300

- A. CUSTOMER SHIP TO: Complete name and address of customer to whom items are to be shipped. For Xerox Home Office employees, enter organization under "Department" and mail station under "Street Address". Xerox field office employees must have complete address.
- B. SEE ATTACHED SUPPLEMENT: Check () this box only for PSS requests for which the manuals ordered are to be shipped to more than one "ship-to" address, each of which should be indicated on the RSR Supplement, form 2300-1 (Figure 3). One subscription for each manual ordered will be registered for each such addressee. The number of "ship-to" addresses must be equal to the total quantity ordered for each manual.
- C. CUSTOMER BILL TO: Complete name and address of the customer to whom the items are to be billed. If this address is the same as the "ship-to" address, write SAME in this area.
- D. INSTALLATION NO.: 4-digit customer number and 3-digit system number (assigned by Order Administrations and refers to "bill-to" address). For Xerox employee orders use 5-digit employee number filled with leading zeros if necessary.
- E. PURCHASE ORDER OR CHARGE NO.: If non-billable items leave blank. If billable: Customer orders - enter purchase order number and attach purchase order.

Xerox employee orders - enter appropriate charge number.

- F. REGION/DISTRICT: See Table 2 for region and district abbreviations.
- G. ADD, CHANGE, RENEW, DELETE: Check () appropriate box.
 - ADD indicates a new registration
 - CHANGE indicates existing registration is to be changed

 - DELETE check () this box if entire registration is to be deleted. If only specific items are to be deleted, check () the box and list the appropriate items.
 - NOTE: For ADD or RENEW, Xerox employees organizations will be charged automatically; \underline{all} others must include a purchase order or check for the full amount.
- H. CPU: Type of CFU; i.e. Sig2, Sig5, Sig7, 530, etc.
- I. INPUT MEDIA: C = cards, P paper tape, 7T = 7 track magnetic tape, 9T = 9 track magnetic tape, DP-xxxx = disk packs -- where "xxxx" is the model number (7242, 7254, etc.).
- J. F.E. CODE:
- K. DENSITY MAG. TAPE: 556, 800, or 1600 B.P.I.
- L. QTY: For technical bulletins or manuals, enter the quantity desired.
- M. CATALOG NO. For software, enter the catalog number and version; for technical bulletin, enter catalog number followed by -01; and, for manuals, enter the publication number.
- N. DESCRIPTION: Title of publication or software title for DDS/TB requests.
- O. IP: For software only. Check this field if an initial package is desired. If left blank, direct distribution will begin with the next software release. (Please Note: There are no initial packages for diagnostics.)
- P. YEARS: For manual subscriptions only. Enter 1- or 2-years (see "R").

- Q. DEFER: For manuals only. If "YES", or left blank, subscription starts with the release of the next revised edition. All updates to the current version will be received. If "NO", subscription begins immediately and the most current version of the publication will be sent.
- R. PRICE: For manuals only. Enter 1- or 2-year subscription price shown in Publications section of PAL. For internal Xerox subscriptions, leave "YEARS" and "PRICE" fields blank. Such internal subscriptions will not expire and charges are made at the time of shipment.
- S. TOTAL PRICE: For manuals only. Enter the total price for the quantity and length of subscription.
- T. TOTAL: The sum of the total price column.
- U. XEROX REPRESENTATIVE: Required on all requests except customer subscriptions for manuals.

Customer/OEM Ordering

Any Xerox software identified by program catalog numbers 890000-899999 (Users' Group software) may be ordered directly by a customer. All other software orders must be requested through the local sales office or a field representative. Refer to "Software Ordering Procedures" for information regarding proper forms and mailing instructions.

Special Requests

If a software item is needed in a form or media other than the ones indicated as being available, it may be requested on a Field Request (form 1435). All Field Requests must be approved by the District Systems Manager or the District Service Manager and should be directed to Business Policy, mail station I8-23. Business Policy has the responsibility of logging and tracking these Field Requests to ensure timely responses.

Software Services cannot take any action on Field Requests until they have been forwarded from Business Policy.

How To Order

The following list will assist you when ordering one-time copies of software maintenance manuals, programming manuals etc., and the appropriate form to use.

Remember that <u>subscriptions</u> for programming manuals and Technical Bulletins, and <u>registrations</u> for direct <u>distribution</u> of software are entered on a Registration/Subscription Request (form 2300) and mailed to Software Services.

To speed up processing when ordering several kinds of items on the Literature/Program Request (form 1535), it is best to use several forms and order directly from the departments that supply the items. Orderable items and responsible departments are listed below.

| Item No. | What | Where | Form No. | Mail Station |
|----------|---|------------------------------------|-------------|-----------------|
| 704xxx | Software (cards, tape, and printed descriptions) | Software Services | 1535 | M4-12 |
| 705xxx | " | 11 | 11 | 11 |
| 706xxx | 11 | 11 | 11 | ** |
| 707xxx | 11 | 11 | " | 11 |
| 72xxxx | " | 11 | 11 | ** |
| 85xxxx | | 11 | 11 | ** |
| 86xxxx | " | 11 | +1 | 11 |
| 87xxxx | " | " | n | 11 |
| 88xxxx | " | 11 | 11 | ** |
| 89xxxx | 11 | 11 | 11 | 11 |
| 69-xx-xx | National Software (NSS) Memos | н | " | ,, |
| 702xxx | Maintenance Documents | Document Services | 171-1 | A2-16 |
| 703xxx | " | 11 | " | 11 |
| 1xx-xx | " | " | " | ,, |
| 65-xx-xx | TEK Tips | Field Eng. Publ. | 1535 | C3-27 |
| 90-xx-xx | Hardware and Software Manuals (non-subscription orders) | Software Services | 1535 | M4-12 |
| 90-xx-xx | Module Data Sheets | " | " | " |
| 50-xx-xx | Brochures | " | " | " |
| 62-xx-xx | " | " | " | " |
| 63-xx-xx | " | " | " | " |
| 64-xx-xx | " | " | 11 | " |
| 67-xx-xx | " | " | ,, | " |
| 98-xx-xx | Systems Manuals | Applied Technology Publications | 1535 | A2-08 |

SIDR Submittal and Processing

The SIDR system is designed to provide two basic functions: (1) a method of reporting errors or suggesting improvements in Xerox supported software products and related publications; and (2) an on-line query capability with which the user may examine the status of a SIDR, or group of SIDRs using specific criteria.

DEFINITIONS

The Software Improvement/Difficulty Report or SIDR (Form No. 1188) is used to bring to the attention of the Development Division any detected errors or desired improvements in software or related publications. Customers may obtain forms from their local Field Office. Forms may be obtained locally through Office Supplies.

SEVERITY LEVELS

If the SIDR documents an error in the software or related publications, the originator of the SIDR must assign a severity level code that indicates the degree of difficulty for the problem he is experiencing. SIDRs not having a severity code assigned will default to severity 5. The following codes are used.

| Code | Description |
|------|--|
| 1 | Software will not run until the difficulty is corrected; the system is down or recovering frequently and the problem cannot be circumvented. |
| 2 | Software is operable or the publication is usable, but productivity is severely hampered. There is a distinct error in the way the software operates, or in the documentation, causing extreme difficulty that cannot feasibly be avoided. |
| 3 | The difficulty is more of an irritant than a significant problem it can be easily circumvented. |
| 4 | Problem is of indeterminate nature; for example it is indiscernible whether the software or supporting documentation is at fault. |
| 5 | Improvement or enhancement to the software or supporting documentation. |

SIDRs may be written against any supported software products which are those listed as Class A1, A2, B1, or B2 in the Program Availability List (PAL Manual).

GENERATION

A SIDR may be initiated by any user of Xerox supported software. The procedure for filling out a SIDR form is detailed in notes following Figure 4. Only one improvement or difficulty may be documented on any one SIDR.

SUPPORTIVE DOCUMENTATION

To enable Development Division personnel to properly resolve a SIDR against a software product, adequate information and supportive material must be supplied so that the situation can be duplicated; e.g., source input, dumps, test cases, etc. If the SIDR is against Language Processor Products, such as COBOL, SORT, etc.; a test case on cards or magnetic tape is required. If the approving field analyst feels a test case is inappropriate he may indicate this on the SIDR. If the information supplied is insufficient, the SIDR may be rejected or closed without action.

Publication SIDRs and Severity 5 SIDRs rarely require supportive material. It is usually sufficient to describe the problem on the SIDR form.

PRE-SUBMITTAL REVIEW

Improvement SIDRs (Severity 5). Improvement SIDRs do not require review.

Difficulty SIDRs (Severities 1-4). SIDRs originated by all Xerox employees must be reviewed and signed by the originator's immediate supervisor. SIDRs originated by Computer Center personnel must be reviewed and signed by a member of Customer Services.

Customer originated SIDRs must be reviewed and signed by an analyst from the local Field Engineering Office.

Review Guidelines

- 1. Make certain that the SIDR in question addresses the latest released version of the product or publication.
- Check to see whether or not this specific item has been documented in a Technical Bulletin.
- Utilize the SIDR Report/Query System (see "SIDR Status" below) to determine whether the difficulty or improvement has already been submitted.
- 4. Examine the general applicability of a suggested improvement. If it is one dealing with a very specific area of an application, or if it contradicts the basic philosophy of the system or the publication the probability of its incorporation is not very high.

SUBMITTAL

After the SIDR has been written, the supportive documentation assembled and it has been reviewed and signed by the analyst, the originator should keep his copy and send the rest of the form, including all supportive material, to:

Xerox Corporation Attn: Software Services - SIDR Administrator, M4-08 701 South Aviation Boulevard El Segundo, California 90245

ACKNOWLEDGMENT

For customer originated SIDRs, the customer and Regional Software Support Manager will receive an acknowledgment copy of the SIDR within five days of its receipt by Software Services. For SIDRs originated by Xerox employees, the originator and his immediate supervisor will receive the acknowledgments. This copy will contain in the upper right corner the number assigned to the SIDR. The Regional Manager must notify the field analyst of the SIDR number. This number will be used for further reference and status checking via the SIDR Report or Query System (see below).

SIDR STATUS

Software Services publishes a monthly SIDR Report. This report contains all SIDRs currently open and pending, (excluding Severity 5) and all SIDRs closed during the reporting month. A SIDR data base with an on-line query capability is also available by which any user with a valid time-sharing account may examine the status of a SIDR. The data base contains all open and pending SIDRs, as well as a six-month history of all closed SIDRs. This on-line query system exists in the form of a load module called "SIS" which resides in account "\$SIS" on the CP-V Time-sharing System in El Segundo (telephone 213/644-9811). See NSS Memo #69-03-04 for its use.

SIDR CORRECTIONS

In the event that it becomes necessary to change any of the fields filled out by the submitter on the SIDR form, a correction SIDR must be submitted. This is done by filling out a SIDR form with the "SIDR Correction" box checked and the number of the SIDR correctly indicated. The only other fields that should be completed are those being changed. Correction SIDRs must be signed in the space following the "SIDR Correction" box by the individual authorizing the change. If the Abstract or Severity is being changed, that person must be either the one who originally approved the SIDR or a member of the Home Office Field Engineering Software Support staff.

SIDR DISPOSITION

SIDR instigated changes are disseminated to all appropriate Xerox field personnel either on existing patch files, on special patch tapes distributed by Software Services, or on printed Technical Bulletins. SIDRs closed by the release of a product are listed in the Program Description (-11) for that product.

GENERAL PROCESSING

An incoming SIDR is received by the SIDR Administrator and scanned for completeness. Fields B-U on attached SIDR form must be complete. All of these fields are necessary for SIDR processing. Documentation is required for Severity 1 - 4 problems. Language Processor SIDRs need a test case on cards or mag tape for all Severities 2 - 4; lack of a test case will be cause for rejection unless the approving analyst has indicated a test case is inappropriate. Should K be left blank (as in the case with SIDRs against operating systems), the program catalog number will be made that of the System Catalog number by the SIDR Administrator. The field analyst must include his signature in the box for "Approval Signature". The SIDR Administrator assigns a unique identification number and stamps the date received in the "Date Received" area (upper right-hand corner). The SIDR is then entered into the SIDR database (open status).

PROCEDURE

After the SIDR number is assigned - the SIDR form is separated and processed. The white copy is sent to the organization responsible for the product with the associated documentation -- the green copy is kept by the SIDR Administrator for database entry and the remaining copies are used for acknowledgment purposes. Acknowledgments are mailed within one day of receipt of the SIDR. The canary copy is sent to the SIDR originator. The pink copy is sent to the Regional Software Support Manager or if Home Office originated, to the analyst or supervisor. The goldenrod should be kept by the originator; if sent it will be returned with the Acknowledgment.

Once the Acknowledgment has been received, information on the SIDR can be obtained using the SIDR Information System On-Line Statistics and Tracking - Non-Priviledged Inquiry capability (NSS 69-03-04). A customer should consult with his field analyst for this information.

Whenever a customer originated SIDR is closed or pended, a letter addressed to the originator will be sent to the SIDR Administrator for processing. The District offices receive weekly all closed and pending information for SIDRs against major operating systems. The original letter is sent to the appropriate RSSM and a copy of the letter is filed. If a Technical Bulletin was generated, a copy of it is mailed along with the letter. The SIDR status is changed to pending or closed in the SIDR database.

Any corrections can be sent directly to the SIDR Administrator. The "SIDR Correction Authorized By" must have a check in the box and a signature next to it as described under "SIDR Corrections" above.

75.02



White-Working Copy / Green-Software Control / Canary-Acknowledgment / Pink-Acknowledgment To Field Analyst / Goldenrod - Originator

Figure 4. SIDR Form

1188(8 '73)

- A. SIDR No.: This is normally inserted by Software Services upon receipt of the SIDR.
- B. <u>SEV</u>: Indicate the severity level, as previously defined.
- C. Originator's Name: Last name and first initial of the originator.
- D. Originator's Company: Self explanatory.
- E. Origin Date: Date SIDR filled out by originator; MMDDYY format.
- F. $\frac{\text{Documentation Supplied}}{1-4}$: Indicate supportive material supplied mandatory for severities
- G. Originator's Address: Xerox employees must use mail station also.
- H. <u>City</u>: City or municipality.
- I. State: Indicate state or province and country.
- J. Zip Code: Required in USA and Canada; may not apply in foreign countries.
- K. Principal Catalog Number: The catalog or publication number which most closely represents the problem area being reported, e.g.; ANS COBOL (processor), 705888; BASIC Reference Manual, 901546; Symbiont (CP-V Functional Area) 707011. All products listed as Class A1, A2, B1 or B2 are SIDRable. Refer to Table 3 for additional SIDRable numbers. This field is mandatory for all SIDRs.
- L. <u>Vers</u>: Enter the latest version of the principal catalog number, e.g., B02.
- M. Principal Catalog Number Name: The name associated with the Principal Catalog Number.
- N. Installation Number: Required for all SIDRs. A unique seven digit number assigned when the computer was installed. This field is optional for Xerox El Segundo employees.
- 0. <u>Field Analyst</u>: Last name and first initial of local field analyst, or immediate supervisor if the originator is a Xerox employee.
- P. Region: Indicates the originator's region. The following apply:
 - WE Western Region
 - CE Central Region
 - EA Eastern Region
 - CI Corp Inv. Serv. Dist.
 - IO International Operations
 - XC Xerox of Canada, Ltd.
 HO Home Office (Fl Segundo) other
 - HO Home Office (El Segundo), other than Computer Center (CCD)
 - IC Intra-Company (XCS & CCD)
 - RX Rank Xerox Ltd.
- Q. Field Office: Mandatory for all SIDRs. Indicate the field analyst's local office, use the standard abbreviations in Table 4. For Home Office, indicate department number.
- R. System Catalog Number: Enter the catalog number of the operating system being used for Program SIDRs. For instance, a SIDR on a CP-V Processor would contain 707000. If no operating system is applicable, e.g. SIDRs against publications, this field may be left blank. In all other cases, this field is mandatory. Refer to Table 3 for a list of the valid System Catalog Numbers.
- S. $\underline{\text{Vers}}$: Enter the version of the operating system being referenced, e.g., D00.
- T. <u>CPU</u>: Model to which the SIDR applies, e.g., SIG7, 530, etc.
- U. Abstract: A description of the difficulty or suggested improvement. If a suggested program change or patch is supplied, it should be entered following the abstract. If additional space is required, the descriptive text can be continued on the reverse side of the white copy only, or a separate sheet.

TABLE 2. REGION & DISTRICT ABBREVIATIONS

| CODE | STATE | CODE | STATE | REGION OR DISTRICT | REGION CODE | DISTRICT CODE |
|------|---------------|------|--------------|--|-------------------|------------------|
| AL | Alabama | MT | Montana | WESTERN | WE | REG |
| AK | Alaska | NB | Nebraska | Tech Support (Reg. Lib Los Angeles Northwest | .) WE WE WE | TS LA NW |
| AZ | Arizona | NV | Nevada | Southwest | WE | SW |
| AR | Arkansas | NH | N. Hampshire | | GE. | REG |
| CA | California | NJ | New Jersey | CENTRAL Tech Support Chicago | CE CE CE | TS CGO |
| СО | Colorado | NM | New Mexico | Detroit Rochester | CE CE | DET ROCH |
| СТ | Connecticut | NY | New York | Atlanta | CE | ATLA |
| DE | Delaware | NC | N. Carolina | EASTERN | EA | λEG |
| DC | D of Columbia | ND | N. Dakota | Eastern Tech Center | EA EA | ETC NY |
| FL | Florida | OH | Ohio | New York City New York Metro | EA | NYG LEX |
| GA | Georgia | ок | Oklahoma | Boston Columbia | EA EA EA | COL FTWA |
| HI | Hawaii | OR | Oregon | Philadelphia Rossyln | EA | RSLYN |
| ID | Idaho | PA | Pennsylvania | TUTTO A COMPANY | T.C. | REG |
| ĬL | Illinois | RI | Rhode Island | INTRA-COMPANY Regional Operations | IC IC | OP |
| IN | Indiana | SC | S. Carolina | El Segundo Internal | IC IC | ELSEG INTER |
| IA | Iowa | SD | S. Dakota | TAUTEDMATIONAL | 10 | |
| KS | Kansas | TN | Tennessse | INTERNATIONAL | 10 | |
| KY | Kentucky | TX | Texas | XEROX OF CANADA | хс | |
| MA | Massachusetts | VT | Vermont | | | |
| ME | Maine | VA | Virginia | | | |
| MD | Maryland | WA | Washington | | | |
| MI | Michigan | WV | W. Virginia | | | |
| MN | Minnesota | WI | Wisconsin | | | |
| МО | Missouri | WY | Wyoming | | | |
| MS | Mississippi | | | | | |

Table 3.

System Catalog Numbers

| 704142 | Stand Alone Operating System | (5/7) |
|--------|------------------------------|-------|
| 704144 | BCM Operating System (5/7) | |
| 704457 | BCM Operating System (2/3) | |
| 704955 | Stand Alone Operating System | (2) |
| 705000 | BPM/BTM Cperating System | ` , |
| 705368 | RBM Operating System (2/3) | |
| 705732 | RBM Operating System (5/7) | |
| 707000 | CP-V Operating System | |

SIDRs may be written against any supported products which are those listed as $Class\ A1$, A2, B1 or B2 in the $PAL\ Manual$.

The following list represents other program catalog numbers under the CP-V Operating System which are also SIDRable. Note: These do not represent orderable software items but are merely used to facilitate SIDRing CP-V.

| PROG. CAT. NO. | AREA NAME | INCLUDED FUNCTIONS |
|-------------------|--------------------------|--|
| 707001 | File Maintenance | BACKUP/FILE, FSAVE/RESTORE |
| 707002 | File Management | All File Management functions, handlers and file inconsistencies |
| 707003 | System Management | Scheduler, STEP, Memory Management, Swapper, SEGLOAD, LDLNK, ALLOCAT, and GERM |
| 707004 | Communications | COC and remote batch |
| 707005 | Recovery | RECOVERY, ANALYZE and HGPRECON |
| 707006 | Software Checks | All software checks or screeches |
| 707007 | Operator Communications | KEYIN |
| 707008 | SYSGEN | PASS1, PASS2, LOCCT, DEF |
| 707009 | DEBUG Tools | DELTA, XDELTA, PMD, swaps and user dump facilities |
| 707010 | LOADERS | LOAD, LINK |
| 707011 | SYMBIONT | Symbionts and cooperatives |
| 707012 | Accounting & Performance | SUPER, ACCTSUM, LOGON, RATES CONTROL, and UTSPM |
| 707013 | Monitor Services | PROCs, CALs, and CALPROC |
| 707014 | Initialization | SYSMAK, GHOST1, and DRSP |
| 707015 | Reliability | ERRSUM, ERRFIL, ERRLOG |
| 707016 | Command Processors | CCI and TEL |
| 707017 | Utility Processors | PCL, EDIT, DEFCOM, SYMCON, ERRMWR |
| 707018 | Miscellaneous | Error message file, Mailbox, and JIT |

TABLE 4. XEROX FIELD OFFICE LOCATIONS AND ABBREVIATIONS

```
ALBY
                Albany, New York
                Albuquerque, New Mexico
ALBQ
                 Arlington, Virginia (District Office)
ARL 10
                Arlington Heights, Virginia
ARL.HTS
                Arlington, Virginia (Regional Office)
XXARL
                Rochester, New York (Applications Services)
ASD
                Roch., New York (Applications Services, Monroe Ave.)
ASD-M
ATLA
                 Atlanta, Georgia
                 Oradell, New York (New York FE District Office)
BERG
BIRM
                 Birmingham, Alabama
                 Buffalo, New York
BUF
                Calgary, Canada
Chicago, Illinois
Cleveland, Ohio
CALG
CGO
CLEV
                Coco Beach, Florida
COCO
CLBAM
                 Columbia, Maryland
                 Dayton, Ohio
DAYT
                 Dallas, Texas (District Office)
Dallas, Texas (Mockingbird Lane)
DLS
IS/DLS
                 Denver, Colorado
DNVR
                 Detroit, Michigan
DET
                 Don Mills, Ontario, Canada
DONMIL
G RPS
                 Grand Rapids, Michigan
                Houston, Texas
Huntsville, Alabama
HOUS
HTSVL
                 Indianapolis, Indiana
IPLS
                 Jacksonville, Florida
JAX
                 Jackson, Mississippi
JKN-MS
                 Kansas City, Kansas
KC
                 Lexington, Massachusetts (Boston District Office)
LEX
LOND
                 Rank Xerox, London
                 Marina Del Rey, California
M-DEL
                 Memphis, Tennessee
MEMP
MET
                 New Orleans, Louisiana
                 Miami, Florida
MMI
                 Milwaukee, Wisconsin
MILW
                 Minneapolis, Minnesota
MPLS
MTL
                 Montreal, Canada
                 Rank Xerox, Munich
MUC
NASH
                 Nashville, Tennessee
                 Newark, New Jersey
NWRK
                 Newport News, Virginia
New York City, New York (Sales)
NNEWS
NYC
                 Orange, California
ORG
                 Orlando, Florida
ORI.
OTWA
                 Ottawa, Canada
                 Palo Alto Research Center
PARC
                 Philadelphia, Pennsylvania (Sales)
PHILA
                 Philadelphia, Pennsylvania (Field Engineering)
PHILA FE
                 Phoenix, Arizona
PNX
PGHPA
                 Pittsburgh, Pennsylvania
                 Pomona, California
Toronto, Canada
Richmond, Virginia
POM
REX
RICH-V
                 Raleigh, North Carolina
RLGH
                 Rochester, New York (Applications Services)
ASD
                 Rochester, New York (Rochester District Office)
Rochester, New York (Eastern Education Center)
ROCH 132
ROCH EEC
                 Rochester, New York (Rochester Tech. Center)
ROCH RTC
                 Rochester, New York (Xerox Square)
XXROCH
                 Webster, New York
Rosslyn, Virginia
XXROCH(WEB)
RSLYN
                 Sacramento, California
SAC
                 Santa Ana, California
SANA
                 Santa Clara, California (San Francisco District Office)
SC
                 San Diego, California
SD
SF
                 San Francisco, California
                 Salt Lake City, Utah
SLK
                 Seattle, Washington
SEAT
```

| STL SYR TLSA TUST TURIN VNUYS XXROCH(WEB) WILM WH P XCS | St. Louis, Missouri Syracuse, New York Tulsa, Oklahoma Tustin, California G. Brignolo (Turin, Italy) Van Nuys, California Webster, New York Wilmington, Delaware White Plains, New York Xerox Computer Services |
|---|---|
|---|---|

Quality Control Questionnaire

This questionnaire is sent with all software orders. We welcome all comments that will help us to improve the quality of our service.

Xerox Corporation 701 South Aviation Boulevard El Segundo, California 90245 213 679-4511 **XEROX**

| est No. | Date Requested | Date Received | Yes No |
|---------------------|--|--------------------------|---|
| | | | was order request complete: |
| | | - the condition | was your request addressed correctly-if no please indicate correct address below. |
| of materials | his postage-paid questionnaire received from the Software Lib | rary. Your comments will | Yes No Cards |
| result in cor | ntinued improvement in the qu | uality of our service. | were cards physically damaged? |
| _ | | ٦ | were cards off-punched? |
| Γ | | · | |
| | | | were cards missing or shuffled? |
| | | | Yes No Magnetic Tape |
| | | | was magnetic tape physically damaged? |
| | | | was tape correct according to literature request (i.e., BPI, track)? |
| L | | لـ | Yes No Paper Tape |
| | | | was paper tape physically damaged? |
| | | | was paper tape mispunched? |
| | | | |
| | | Catalog Numbers | Xerox Branch Office Installation No |
| ease indicate any i | tems missing from your atalog No.). We will | • | |
| ip them against you | ur original request. | | |
| | | Comments | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| - | | | |
| | | S | Signature |
| | | | |

75.02

STATUS INFORMATION SECTION

All currently orderable software, identified by its respective program catalog number, is numerically listed in this section. The first line of each entry consists of a six-digit program catalog number and a two-letter revision code (for internal use), followed by a program classification code, the name of the applicable computer, and the program title.

The program catalog number with each of its program elements, version level and description appear as indented entries under the main catalog line.

A sample status entry is shown below.

704145 AC B1 SIG 5/7/8 Absolute Bootstrap Loader

| 704145-11 COO | | Description Printed |
|---------------|------------|---|
| 704145-23 COO | | Relocatable Binary Paper Tape, 8 levels |
| 704145-24 COO | 704357-26* | Relocatable Binary Cards |
| 704145-34 COO | 704357-36* | Source Cards |
| 704145-83 COO | | Absolute Binary Paper Tape, 8 levels |
| 704145-84 COO | | Absolute Binary Cards |

* The second six- or eight-digit number sometimes appearing opposite a program element is referred to as a "point to" number. When the "point to" number appears, it must be the one ordered to obtain that particular program element.

CAUTION:

The description of a program element with a "point to" number is always that of the primary element number rather than that of the "point to" number. Therefore, a check of the main status list entry for program element 704357-26 in the above example shows that it is "Relocatable Binary Mag Tape, 9 channels" instead of "Relocatable Binary Cards". ALWAYS CHECK THE APPROPRIATE PROGRAM SUMMARY FOR ADDITIONAL INFORMATION.

To order the relocatable binary forms of the Absolute Bootstrap Loader, specify:

| 704145-23 COO | Relocatable Binary Paper Tape |
|---------------|-------------------------------------|
| 704145-24 C00 | Relocatable Binary Cards |
| 704357-26 H01 | Relocatable Binary Mag Tape |
| | (Sigma 5/7 Basic Software Mag Tape) |

To order the source form of this program specify:

704357-36 H01 Source Mag Tape (Sigma 5/7 Basic Software Mag Tape)

```
704000AB B3 SIGMA 2
704000-11800 901127
704000-51800 901127
   704000AB
                                                                   I/O TEST UTILITY PROGRAM
                                               DESCRIPTION PRINTED
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
SIGMA 2 I/O TEST UTILITY PROGRAM DIAGNOSTIC PROGRAM MANUAL
      704000-83800
       704000-84800
      901127
     04001AD B1 SIGMA 2/3-530 GRAPH PLOTTER TEST
704001-11001 901517 DESCRIPTION PRINTED
  704001AD
                                              DESCRIPTION PRINIEU
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
SIGMA 2/3 GRAPH PLOTTER DIAGNOSTIC PROGRAM MANUAL
      704001-51C01 901517
704001-83C01
     704001-84C01
901517
     04002AG B3 SIGMA 2/3
704002-51E02 901137
704002-83E02
704002-84E02
901127
                                          /3 CPU INTERRUPT DIAGNOSTIC
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
  704002AG
     901137
                                               SIGMA 2 EXTERNAL INTERRUPT DIAGNOSTIC PROGRAM MANUAL
     4004AC B3 SIGMA 5-9 KEYBOARD DISPLAY DIAGNOSTIC
704004-11000 901507 DESCRIPTION PRINTED
  704004AC
                                              ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
     704004-83000
      704004-84000
     901507
                                              DIAGNOSTIC PROGRAM MANUAL SIGMA 5/7 KEYBOARD DISPLAY DIAG.
 704005AA 83
704005-11A00
                      83 SIGMA 2/3
                                                                 GRAPH PLOTTER HANDLER (PLOT)
                                             DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
RELOCATABLE BINARY CARDS
SOURCE CARDS
     704005-23A00
704005-24A00
     704005-34A00
                      B3 SIGMA 2
 704006AD
                                                                 INTEGRAL IOP AND HD INTERFACE TEST
    704006-51000 901131
704006-83000
                                             LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
     704006-84D00
    901131
                                              SIGMA 2 INTEGRAL 10P + WRITE DIRECT INTERFACE DIAG PROG HAN
704011AE B3 S1GMA 2
704011-51E00 901007
704011-83E00
704011-84E00
                                             CPU DIAGNOSTIC SYSTEM (AUTO)
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
    704012-51800 901508
704012-51800 901508
704012AB
                                             KEYBOARD DISPLAY DIAGNOSTIC DESCRIPTION PRINTED
                                             DESCRIPTION PRINTED
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAGNOSTIC PROGRAM MANUAL SIGMA 2 KEYBOARD DISPLAY DIAG.
     704012-83800
    704012-84800
    901508
    704013AH B1 S1GMA 5-9
704013-11D03 901509
704013-51D03 901509
704013AH
                                                                 DATA-SET CONTROLLER DIAGNOSTIC
                                            DESCRIPTION PRINTED
                                            LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
    704013-83D03
704013-84D03
   04014AL BI SIGMA 2/3-530 CHARACTER ORIENTED COMMUNICATION TEST
704014-11E07 901168 DESCRIPTION PRINTED
704014-83E07 ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704014-84E07 ABSOLUTE BINARY CARDS
704014AL
704015AD 83 SIGMA 2/3
704015-11C01 901163
704015-51C01 901163
704015-83C01
                                                                KEYBOARD PRINTER TEST
                                           KEYBOARD PRINTER TEST
DESCRIPTION PRINTED
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
SIGMA 2 KEYBOARD PRINTER TEST DIAGNOSTIC PROGRAM MANUAL
```

704015-84C01 901163

CHARACTER ORIENTED COMMUNICATION TEST 94016AJ 81 SIGMA 5-9 704016-11602 901156 704016-51602 901156 704016-83602 704016AJ DESCRIPTION PRINTED
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS 704016-84002 REAL-TIME CLOCK TEST
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
SIGMA 5/7 REAL-TIME CLOCK TEST DIAGNOSTIC PROGRAM MANUAL 704017AF B3 SIGMA 5/7 704017-83F00 704017-84F00 901136 704018AB B3 SIGMA 5 704018-51800 901161 704018-83800 704018-84800 INTEGRAL TOP CHANNEL TEST PROGRAM LISTING PRINTED ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
SIGMA 5 INTEGRAL 10P CHANNEL TEST DIAGNOSTIC PROGRAM MANUAL 901161 4022AG 83 SIGMA 2/3 704022-11D03 900676 704022-51D03 900676 MEMORY PROGRAM - MEDIC DESCRIPTION PRINTED 704022AG LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS 704022-83D03 704022-84D03 SIGNA 2 MEMORY DIAGNOSTIC SYSTEM (MEDIC 2) DIAG. PROG. MAN. 94024AF B1 SIGMA 2/3-530 PAPER TAPE READER-PUNCH TEST
704024-1103 901155 DESCRIPTION PRINTED
704024-83C03 ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704024-84C03 ABSOLUTE BINARY CARDS
901155 DIAGNOSTIC PROGRAM MANUAL SIGMA 2 PAPER TAPE READER/PUNCH 704024AF 704024-84C03 901155 704025AB B3 SIGMA 2/3 704025-11C00 900839 704025-44C00 704025-51C00 900839 DIAGNOSTIC CONTROL PROGRAM (DCP) DESCRIPTION PRINTED
COMPRESSED CARDS
LISTING PRINTED
SIGMA 2 DIAGNOSTIC CONTROL PROGRAM (DCP) DIAGNOSTIC PROGRAM COMMAND SYS II, SECT 1-MESSAGE PROCESSOR DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 8 LEVELS COMPRESSED CARDS B3 SIGMA 2 704028AA 704028-11A00 980272 704028-23A00 704028-44A00 FORMAT CONVERTER - CPU LOADER DOC. DESCRIPTION PRINTED 4029AB B3 SIGMA 5/7 704029-11800 901584 704029-51800 901584 704029AB LISTING PRINTED
ABSOLUTE BINARY CARDS
DIAG PROG MAN - SIG 5/7 CPU FORMAT CONV. - CPU LOADER DOC. 704029-84800 901584 SIGNA 2 DIAGNOSTIC BINARY GENERATOR 704030AC B3 SIGMA 2 DESCRIPTION PRINTED
COMPRESSED CARDS
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
SIGMA 2 DIAGNOSTIC BINARY GENERATOR (2DIBIGEN) DIAG. PROG. 704030-11C00 901124 704030-44C00 704030-51C00 901124 704030-83C00 704030-84C00 COMMAND SYS 11.SECT 3-TONE/DIGITAL TAPE 704034AA B3 SIGMA 2 704034-11A00 980272 DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
COMPRESSED CARDS 704034-44A00 COMMAND SYS 11, SECT 4-FSK TEST 4035AA B3 SIGMA 2 704035-11A00 980272 704035AA DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 8 LEVELS COMPRESSED CARDS

704035-23A00 704035-44A00

704036AA B3 SIGMA 2 704036-11A00 980272 704036-23A00 704036-44400

COMMAND SYS 11, SECT 5-TONES DIGITAL TEST DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
COMPRESSED CARDS

704037AA B3 SIGMA 2 704037-11A00 980272 704037-23A00 704037-44A00

COMMAND SYS II, SECT 8-10 CONTROL/UTILITY DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 8 LEVELS COMPRESSED CARDS

704038AA B3 SIGMA 2 704038-11A00 980272 704038-23A00

704038-44400

900870

COMMAND SYS I ,SECT 1- UTILITY AND IO DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 8 LEVELS COMPRESSED CARDS

704042AE 83 SIGMA 5/7 704042-51000 900870 704042-83000 704042-84000

CPU DIAGNOSTIC SYSTEM (VERIFY)
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAGNOSTIC PROGRAM MANUAL SIGMA 7 CPU DIAG. SYSTEM (VERIFY)

CPU DIAGNOSTIC SYSTEM (VERIFY)

704043AG 83 S13MA 5/7 704043-11D03 900891 704043-51D03 900891

CPU DIAGNOSTIC SYSTEM (PATTERN)
DESCRIPTION PRINTED
LISTING PRINTED

704043-83D03 704043-84D03 900891

ABSOLUTE BINARY PAPER TAPE, 8 LEVELS ABSOLUTE BINARY CARDS SIGMA 7 CPU DIAGNOSTIC SYSTEM (PATTERN) DIAG. PROG. MANUAL

704044AF B3 SIGMA 7

CPU DIAGNOSTIC SYSTEM (AUTO) LISTING PRINTED
REFORMATTED BINARY CARD DECK
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS 704044-51002 900872 704044-74002

704044-83002 704044-84002

94045AD 83 SIGMA 7 704045-51C00 900893 704045-83C00 704045AD 704045-84C00

CPU DIAGNOSTIC SYSTEM (SUFFIX) LISTING PRINTED ABSOLUTE BINARY PAPER TAPE, 8 LEVELS ABSOLUTE BINARY CARDS

4046AI B3 SIGMA 5/7 704046-11001 900898 704046-51001 900898 704046AI 704046-83001 704046-84001

CPU DIAGNOSTIC SYSTEM (FLOAT)
DESCRIPTION PRINTED
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS

04047AE B3 SIGMA 7 704047-11002 900908 704047-51002 900908 704047-83002 704047-84002 704047AE

CPU DIAGNOSTIC SYSTEM (DECIMAL)
DESCRIPTION PRINTED LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS

704048AE B3 SIGMA 7 704048AF

CPU DIAGNOSTIC SYSTEM (MAP) LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS

704048-83D02 704048-84D02

704050-11C01 901518 704050-83C01 704050-84C01

BI SIGMA 5-9

GRAPH PLOTTER TEST DESCRIPTION PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS

```
04055AE B1 S10MA 2/3-530 DATA SET CONTROLLER DIAGNOSTIC

704055-11C02 901510 DESCRIPTION PRINTED

704055-51C02 901510 LISTING PRINTED

704055-83C02 ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704055AE
                                                                                LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAGNOSTIC PROGRAM MANUAL-SIGMA 2 DATA SET CONTROLLER DIAG.
       704055-84002
      901510
                                                                                                                   COMMAND SYS I .SECT 2-SHITCH LIGHT CNTRL
704056AA B3 SIGMA 2
704056-11A00 980271
                                                                                DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
      704056-23A00
704056-44A00
                                                                                 COMPRESSED CARDS
       9057AB B3 SIGMA 5/7
704057-11800 901126
704057-51800 901126
                                                                                                                    MULTIPLEX IOP DIAGNOSTIC (MIOP)
704057AB
                                                                               DESCRIPTION PRINTED
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAGNOSTIC PROGRAM MANUAL SIGMA 7 MULTIPLEX IOP DIAG. (MIOP
      704057-81800
704057-83800
704057-84800
901126
                                                                                CALCOMP PLOTTING SUBROUTINE (PLOT)
DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
RELOCATABLE BINARY CARDS
SOURCE CARDS
                                     B3 S1GMA 5/7
704060AA
       704060-11A00
704060-23A00
        704060-24400
       704080-34400
                                                                       5/7 CALCOMP PLOTTER LABELLING SUBR (LABEL)
DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
SOURCE CARDS
704061AA B3
704061-11A00
                                      B3 S1GMA 5/7
      704061-24A00
704061-34A00
       94062AE 83 SIGMA 5/7
704062-11800 901516
704062-51800 901516
704062-83800
                                                                                                                     MEMORY PROTECT DIAGNOSTIC
 704062AE
                                                                                DESCRIPTION PRINTED
                                                                                LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
SIGMA 5 AND 7 CPU DIAGNOSTIC PROGRAM (MEMORY PROTECT)
       704062-84800
901516
                                                                                                                     MEMORY DIAGNOSTIC (MEDIC 75)
 704067AH B3 SIGMA 5/7
704067-51D04 900825
                                                                              LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
        704067-83D04
704067-84D04
                                                                                   DIAG PROG MAN SIGMA 5/7 MEMORY (8K) TEST (MEDIC 75) PRELIM.
        900825
       PAPER TAPE DEDUCTION OF TAPE D
  704069AG
                                                                                                                     DIAGNOSTIC CONTROL PROGRAM (DCP)
  704070AB
         4070AB B3 SIGMA 5-9
704070-11C00 900712
                                                                                DISCRIPTION PRINTED
COMPRESSED CARDS
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAG CONTROL PROG FOR SIG 5/7 COMP. PERIPHERAL DEV.
         704070-44C00
704070-51C00 900712
         704070-83C00
704070-84C00
         900712
   704073AC 83 SIGMA 2
704073-11800
                                                                                                                     STAND-ALONE RAD HANDLER
                                                                                   DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
RELOCATABLE BINARY CARDS
          704073-24800
          704073-34800
                                                                                    SOURCE CARDS
```

```
704074AD B1 SIGMA 5-9
704074-11C01 901511 DESCRIPTION PRINTED
LISTING PRINTED
704074-83C01 ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
                                             /7 MEMORY INTERLEAVING TEST
COMPRESSED CARDS
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAG PROG MAN - SIGMA 5/7 MEMORY INTERLEAVING TEST (MIT)
 704121AB 83 SIGMA 5/7
704121-44800
704121-51800 901071
     704121-83800
704121-84800
     901071
    14122AH B3 SIGMA 5/7 POHER FAIL DATE TO THE PRINTED PRINTED LISTING PRINTED LISTING PRINTED ABSOLUTE BINARY PAPER TAPE, 8 LEVELS ABSOLUTE BINARY CARDS
 704122AH
    04124AC B1 SIGMA 5/7 CONTROL MESSAGE PROCESSOR
704124-23C00 704160-83 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704124-24C00 704160-84 RELOCATABLE BINARY CARDS
704124-34C00 704357-36 SOURCE CARDS
 704124AC
704127-0 B1 SIGMA 5/7 BCM/STAND-ALONE COMMON SOFTM/
704127-11F00 DESCRIPTION PRINTED
704127-23F00 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704127-24F00 704357-26 RELOCATABLE BINARY CARDS
                                                                      BCM/STAND-ALONE COMMON SOFTHARE PACKAGE
704133AE B1 SIGMA 5/7 MONITOR FOR BCM
704133-23E00 704127-23 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704133-34E00 704357-26 RELOCATABLE BINARY CARDS
704133-34E00 SOURCE CARDS
704133-61E00 UPDATE INSTRUCTIONS PRINTED
UPDATE ON CARDS
                     B3 S10MA 2/3
 704139AB
                                                                     REAL TIME CLOCK TEST
    704139-11E01 901164
704139-83E01
                                           DESCRIPTION PRINTED
ABSOLUTE RINARY PAP
                                                 DESCRIPTION PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
SIGMA 2 REAL TIME CLOCK TEST DIAGNOSTIC PROGRAM MANUAL
     704139-84E01
    901164
   POHER FAIL POWER FAIL PROGRAM DIAG. PROG. HANUAL
704140AE
   04142AE B1 SIGMA 5/7
704142-11E00 901053
704142-83E00
704142-84E00
704142AE
                                                                      STAND-ALONE LOADER WITH I/O HANDLERS
                                           DESCRIPTION PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
SIGMA 5/7 STAND-ALONE SYSTEMS OPERATIONS
    901053
   704143AF
   784144AC
```

```
ABSOLUTE BOOTSTRAP LOADER
704145AC
                             B1 SIGMA 5/7
    04146AE B1 SIGMA 5/7 BASIC BCM ABS DUMP LOADER
704146-23E00 704127-23 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704146-24E00 704357-26 RELOCATABLE BINARY CARDS
704146-36E00 704357-36 SOURCE MAG TAPE, 9 CHANNELS
900953 SIGMA 7 BASIC CONTROL MONITOR REFERENCE MANUAL
704146AE
     14148AD B1 SIGMA 5/7 UNIMPLEMENTED INST. SIM. PCK (S/A VERS)
704148-11A00 DESCRIPTION PRINTED
704148-23D00 704127-23 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704148-24D00 704357-26 RELOCATABLE BINARY CARDS
    04149AC B1 SIGMA 5/7 FLOATING POINT INST. SIMULATOR (S/A VERS 704149-11A00 704148-11 DESCRIPTION PRINTED 704149-23C00 704127-23 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS 704149-24C00 704357-26 RELOCATABLE BINARY CARDS 704149-34C00 704357-36 SOURCE CARDS
704149AC
    04150AC BI SIGMA 5/7 DECIMAL INSTRUCTION SIMULATOR (S/A VERS)
704150-11A00 704148-11 DESCRIPTION PRINTED
704150-23C00 704127-23 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704150-24C00 704357-26 RELOCATABLE BINARY CARDS
704150-34C00 704357-36 SOURCE CARDS
    04151AC B1 SIGMA 5 BYTE-STRING INSTRUCTION SIMULATOR ($/A)
704151-11A00 704148-11 DESCRIPTION PRINTED
704151-23C00 704127-23 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704151-24C00 704357-26 RELOCATABLE BINARY CARDS
704151-34C00 704357-36 SOURCE CARDS
704151AC
    04152AC B1 SIGMA 5 CONVERT INSTRUCTION SIMULATO

704152-11A00 704148-11 DESCRIPTION PRINTED

704152-23C00 704127-23 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS

704152-24C00 704357-26 RELOCATABLE BINARY CARDS

704152-34C00 704357-36 SOURCE CARDS
                                                                                          CONVERT INSTRUCTION SIMULATOR (S/A)
704152AC
     94153AC B1 SIGMA 5/7 UNIMPL. INST. TRAP HANDLER (9
704153-11A00 704148-11 DESCRIPTION PRINTED
704153-23C00 704127-23 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704153-24C00 704357-26 RELOCATABLE BINARY CARDS
704153-34C00 704357-36 SOURCE CARDS
                                                                                          UNIMPL. INST. TRAP HANDLER (S/A VERS)
704153AC
                                                             S/A ABS DUMP LOADER WITH 1/O MANDLERS
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
SIGMA 5/7 STAND-ALONE SYSTEM OPERATIONS MANUAL
704155AE B1
704155-83E00
704155-84E00
                             BI SIGMA 5/7
     901053
     04158AF B1 SIGMA 2/3-530
704158-11C03 901512 DESC
704158-51C03 901512 LIST
704158-93C03 ABSO
704158-84C03 ABSO
                                                                                           AUTO DIAL EQUIPMENT PROGRAM
704156AF
                                                               -530
DESCRIPTION PRINTED
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAGNOSTIC PROGRAM MANUAL, SIGMA 2 AUTO DIAL EQUIPMENT
      901512
```

```
04157AB BI SIGMA 5/7
704157-23B00 SUBROUTINE RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704157-24B00 RELOCATABLE BINARY CARDS
704157-24B00 704357-26 RELOCATABLE BINARY CARDS
 70415748
     704157-34800 704357-36 SOURCE CARDS
901053 SIGMA 5/7 STAND-ALONE SYSTEM OPERATIONS MANUAL
     704158AH
704159AH
                        B1 SIGMA 5/6/7
                                                                               SYMBOL ASSEMBLER FOR BPM/BTM
     4159AH B1 SIGMA 5/6/7 SYMBOL ASSEMBLER FOR BPM/BIM
704159-11H00 DESCRIPTION PRINTED
704159-26H00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
704159-46H00 704159-26 COMPRESSED MAG TAPE, 9 CHANNELS
900952 SIGMA 5/6/7 SYMBOL/META-SYMBOL REFERENCE MANUAL
    900952
                                                        STAND-ALONE SYMBOL ASSEMBLER DESCRIPTION PRINTED
704180AT
                         BI SIGMA 5/7
    704160-11H00
                                                        ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
SIGMA 5/7 SYMBOL REFERENCE MANUAL
     704160-83H00
     704160-84H00
    901790
    901053
                                                        SIGMA 5/7 STAND-ALONE SYSTEM OPERATIONS MANUAL
                                                        STAND-ALONE MATH LIBRARY (COVER) DESCRIPTION PRINTED
704181AR
                          B3 SIGMA 2
     704161-11800
                                                        RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
RELOCATABLE BINARY CARDS
SOURCE MAG TAPE, 9 CHANNELS
    704161-23B00
704161-24B00
     704161-36B00
    04162AC B1 S10MA 5/7 STAND-ALONE SYSTEM LOADER
704162-23C00 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704162-24C00 704357-26 RELOCATABLE BINARY CARDS
704162-34C00 704357-26 SOURCE CARDS
704162-83C00 704160-83 ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704162-84C00 704160-84 ABSOLUTE BINARY CARDS
704162AC
    94163AA B1 SIGMA 5/7 STAND-ALONE I/O HANDLER FOR BONO
704163-23A00 704160-83 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704163-24A00 704160-84 RELOCATABLE BINARY CARDS
704163-244A00 704357-26 RELOCATABLE BINARY CARDS
704163-34A00 704357-36 SOURCE CARDS
704163AA
    94164AA BI SIGMA 5/7 STAND-ALONE I/O HANDLER FOR LONG
704164-23A00 704160-83 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704164-24A00 704160-84 RELOCATABLE BINARY CARDS
704164-24A00 704357-26 RELOCATABLE BINARY CARDS
704164-34A00 704357-36 SOURCE CARDS
704164AA
    04185AC B1 SIGMA 5/7 STAND-ALONE I/O HANDLER FOR LOLP
704185-23C00 704180-83 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704185-24C00 704180-84 RELOCATABLE BINARY CARDS
704185-24C00 704357-26 RELOCATABLE BINARY CARDS
704185-34C00 704357-36 SOURCE CARDS
704165AC
    04168AB B1 SIGMA 5/7 STAND-ALONE I/O HANDLER FOR LOMT
704166-23B00 704160-83 RELOCATABLE BINARY PAPER TAPE. 8 LEVELS
704166-24B00 704160-84 RELOCATABLE BINARY CARDS
704166-24B00 704357-26 RELOCATABLE BINARY CARDS
704166-34B00 704357-36 SOURCE CARDS
704166AB
```

```
94167AB B1 SIGMA 5/7 STAND-ALONE I/O HANDLER FOR LOTY
704167-23B00 704160-83 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704167-24B00 704160-84 RELOCATABLE BINARY CARDS
704167-24B00 704357-26 RELOCATABLE BINARY CARDS
704167-34B00 704357-36 SOURCE CARDS
704167AB
    04168AB B1 SIGMA 5/7 STAND-ALONE I/O HANDLER FOR SICR
704168-23800 704160-83 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704168-24800 704160-84 RELOCATABLE BINARY CARDS
704168-34800 704357-36 SOURCE CARDS
704168AB
    04169AB B1 SIGMA 5/7 STAND-ALONE I/O HANDLER FOR SIMT
704169-23B00 704160-83 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704169-24B00 704160-84 RELOCATABLE BINARY CARDS
704169-34B00 704357-38 SOURCE CARDS
704169AB
    04170AC 81 SIGMA 5/7 STAND-ALONE I/O HANDLER FOR SIPR
704170-23C00 704160-83 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704170-24C00 704160-84 RELOCATABLE BINARY CARDS
704170-34C00 704357-38 SOURCE CARDS
    04171AB B1 SIGMA 5/7 STAND-ALONE 1/0 HANDLER FOR BOPP
704171-23B00 704160-83 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704171-24B00 704160-84 RELOCATABLE BINARY CARDS
704171-34B00 704357-36 SOURCE CARDS
704172-AC B1 SIGMA 5/7
704172-23C00 704160-B3 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704172-24C00 704160-B4 RELOCATABLE BINARY CARDS
704172-34C00 704357-36 SOURCE CARDS
                                                                                STAND-ALONE 1/0 HANDLER FOR BOCP
    04173AB B1 SIGMA 5/7 STAND-ALONE 1/O HANDLER FOR BOMT
704173-23B00 704160-83 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704173-24B00 704160-84 RELOCATABLE BINARY CARDS
704173-34B00 704357-38 SOURCE CARDS
    04174AE 83 SIGMA 5
704174-11C00 901519
704174-51C00 901519
704174-83C00
                                                                                SIGMA 5 CPU DIAGNOSTIC (SUFFIX)
 704174AE
                                                        DESCRIPTION PRINTED
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAGNOSTIC PROGRAM MANUAL - SIGMA 5 CPU DIAGNOSTIC SUFFIX
      704174-84C00
     901519
                                                                                DEBUG HITH TRACE
 704183AB
                          B3 SIGMA 2
                                                        DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
RELOCATABLE BINARY CARDS
     704183-11A00
     704183-23401
      704183-24401
     4209AA B3 SIGMA 2
704209-11A00 980271
704209-23A00
                                                                                 COMMAND SYS 1, SECT 4-TELEMETRY AND TONES
 704209AA
                                                        DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
COMPRESSED CARDS
     704209-44400
                                                       DESCRIPTION PRINTED COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
     704210A1
     704210-44H00
704210-83H00
      704210-84H00
                           B1 S10MA 5/7 7930/7931/7935 SIU DIAGNOSTIC PROGRAM
C00 DESCRIPTION PRINTED
C00 COMPRESSED CARDS
C00 ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
C00 ABSOLUTE BINARY CARDS
 704211AF B1
704211-11C00
      704211-44C00
704211-83C00
      704211-84000
```

```
04213AC B1 SIGMA 2
704213-11A00
   704213AC
                                                                   7922 SIU DIAGNOSTIC PROGRAM
                                               DESCRIPTION PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
       704213-83A00
704213-84A00
      79214AD B1 SIGMA 5/7
704214-11A00 PESCRIPTION PRINTED
704214-51A00 704214-11
10574214-83A00
704214-83A00
704214-83A00
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
   704214AD
                                           73 7910/14/15 SIU DIAGNOSTIC PROGRAM
DESCRIPTION PRINTED
  704235AD BI SIGMA 2/3
704235-11C00
704235-44C01
                                               COMPRESSED CARDS
UPDATE INSTRUCTIONS PRINTED
ABSOLUTE BINARY CARDS
       704235-61C01
      704235-84C01
  704236AF
     04236AF B1 SIGMA 5/7
704236-11C00
                                                                  7910/14/15 SIU DIAGNOSTIC PROGRAM
                                        DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
     704236-44C00
704236-83C00
     704236-84000
 704285AA B1 SIGMA 2
704285-11AP2
                                                                  GEOSPACE SPECIAL DEVICE CHECKOUT PROGRAM
                                              DESCRIPTION PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
     704285-83AP2
704285-84AP2
    04287AJ 83 SIGMA 5
704287-11F00 901523
704287-51F00 901523
704287-73F00
 704287AJ
                                                                 CPU DIAGNOSTIC - AUTO
                                             CPU DIAGNOSTIC - AUTO
DESCRIPTION PRINTED
LISTING PRINTED
REFORMATIED-SELF LOADING TAPE
REFORMATIED-SELF LOADING BINARY DECK
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
     704287-74F00
704287-83F00
     704287-84F00
 704314AE
    4314AE B1 S10MA 5-9
704314-11D01 901539
704314-51D01 901539
                                           9 PERIPHERAL SHITCHING EQUIP. DIAGNOSTIC DESCRIPTION PRINTED
                                             DESCRIPTION PRINTED
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAG PROG MAN - SIGMA 5/7 PERIPHERAL SWITCHING EQUIP. DIAG.
     704314-83D01
    704314-84001
    901539
 704320AA
                   B3 SIGMA 2
   MASS STORAGE DISC FILE TEST PROGRAM DESCRIPTION PRINTED
   04340AF B3 S1GMA 5-9
704340-11002 901535
704340-51002 901535
704340-83002
704340AF
                                                                CFE-3 TEST
                                            CFE-3 TEST
DESCRIPTION PRINTED
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAGNOSTIC PROGRAM MANUAL-SIGMA 5/7 CFE-3
   704340-84002
901535
704341AA
   04341AA B3 SIGMA 5/7
704341-11A00
                                                                PURDUE SPECIAL ANALOG INPUT SUBSYSTEM
                                           DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
RELOCATABLE BINARY CARDS
COMPRESSED CARDS
   704341-23A00
704341-24A00
704341-44A00
```

```
14342AA B3 SIGMA 2/3
704342-11A00
                                                                                                                            REAL-TIME CLOCK 1 FOREGROUND DEMO
704342AA
                                                                                      DESCRIPTION PRINTED
SOURCE PAPER TAPE, 8 LEVELS
SOURCE CARDS
       704342-33A00
       704342-34A00
                                                                                                                              COMMAND SYS I ,SECT 5-TONES DIGITAL/FSK
      704344-11A00 980271
704344AA
                                                                                       DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
      704344-23A00
704344-44A00
                                                                                        COMPRESSED CARDS
      04345AA B3 S1GMA 2
704345-11A00 980271
704345-23A00
                                                                                                                              COMMAND SYS I ,SECT 6-PROGRAM GENERATOR
                                                                                       CUMMAND STS 1 ,SECT 6-PROGRAM DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 8 LEVELS COMPRESSED CARDS
704345AA
       704345-44400
                                                                                      COMMAND SYS I ,SECT 7-DATA BASE OVERLAY DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 8 LEVELS COMPRESSED CARDS
      04346AA B3 SIGMA 2
704346-11A00 980271
704346-23A00
704346AA
       704346-44A00
                                                                                 DESCRIPTION PRINTED
SOURCE PAPER TAPE, 8 LEVELS
SOURCE CARDS
704347AA
                                         B3 S1GMA 2/3
       704347-11A00
704347-33A00
        704347-34A00
                                                                                      TAPE TEST PROGRAM

DESCRIPTION PRINTED

RELOCATABLE BINARY PAPER TAPE, 8 LEVELS

RELOCATABLE BINARY CARDS

SOURCE CARDS

ABSOLUTE BINARY PAPER TAPE, 8 LEVELS

ABSOLUTE BINARY CARDS
 704348AA
                                          B3 SIGMA 2
       704348-11A00
704348-23A00
       704348-24A00
704348-34A00
         704348-83400
        704348-84A00
       P4358A0 B3 SIGMA 5-9
704358-11E02 900972
704358-51E02 900972
704358-84E02
ABSOLUTE BINARY CARDS
SIGMA 5/7 RELOCATABLE DIAGNOSTIC PROGRAM LOADER MANUAL
 704356AG
                                                                                   DESCRIPTION PRINTED
RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
SOURCE MAG TAPE, 9 CHANNELS
                                          81 SIGMA 5/7
 704357AI
         704357-11H01
704357-26H01
         704357-36H01
         14362AC B1 SIGMA 5/7 UNIMPLEMENTED INST. SIM. PCKG. BCM VERS.
704362-11C00 DESCRIPTION PRINTED
704362-23C00 704127-23 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704362-24C00 704357-26 RELOCATABLE BINARY CARDS
                                                                                                                                FLOATING POINT INST. SIMULATOR (BCM YER)
         PIGE TO THE PROPERTY OF THE PR
         04364AC B1 516MA 5/7 DECIMAL INSTRUCTION SIMULATOR (BCM VER.)
704364-11C00 704362-11 DESCRIPTION PRINTED
704364-23C00 704127-23 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704364-24C00 704357-26 RELOCATABLE BINARY CARDS
704364-34C00 704357-36 SOURCE CARDS
   704364AC
```

```
04365AC B1 SIGMA 5 BYTE-STRING INSTRUC. SIMULATOR (BCM VER)
704365-11C00 704362-11 DESCRIPTION PRINTED
704365-23C00 704127-23 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704365-24C00 704357-26 RELOCATABLE BINARY CARDS
704365-34C00 704357-36 SOURCE CARDS
     04366AC B1 SIGMA 5 CONVERT INSTRUCTION SIMULATOR (BCM)
704366-11000 704362-11 DESCRIPTION PRINTED
704366-23C00 704127-23 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704366-24C00 704357-26 RELOCATABLE BINARY CARDS
704366-34C00 704357-36 SOURCE CARDS
 704366AC
    04367AD B1 SIGMA 5/7 STAND-ALONE 1/O CONTROL PROGRAM (SAL10)
704367-23D00 704127-23 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704367-24D00 704357-26 RELOCATABLE BINARY CARDS
704367-34D00 704357-36 SOURCE CARDS
04396AA B1 SIGMA 5/7 COPY AND SEQUENCE PROGRAM - UTILITY
704396-11A00 DESCRIPTION PRINTED
704396-24A00 RELOCATABLE BINARY CARDS
704396-34A00 704397-36 SOURCE CARDS
704396AA
704397AD B1
704397-11D00
704397-36D00
                    B1 SIGMA 5/7 UTILITY SOURCE-LISTING MAG TAPE
1000 DESCRIPTION PRINTED
15000 SOURCE MAG TAPE, 9 CHANNELS
    04398AA B1 SIGMA 5/7 TAPE LIST PROC
704398-11A00 DESCRIPTION PRINTED
704398-24A00 RELOCATABLE BINARY CARDS
704398AA
                                                                       TAPE LIST PROGRAM - UTILITY
    704398-34A00 704397-36 SOURCE CARDS
    04422AA B1 SIGMA 5/7
704422-11A00 DESCRIPTION PRINTED
704422-23A00 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704422-34A00 RELOCATABLE BINARY CARDS
704422-34A00 TO4397-36 SOURCE CARDS
704422AA
                                                                       PAPER TAPE COPY & VERIFY PROGRAM-UTILITY
704427AA B3 SIGMA 5/7 JT-14 PET UNIT TEST PATTERN CARD DECK 704427-74A00 DATA CARDS
704428AJ B1 S10MA 5-9 META-SYMBOL ASSEMBLER (COVER)
704428-11H01 DESCRIPTION PRINTED
704428-26H01 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
704428-76H01 704428-26 COMPRESSED MAG TAPE, 9 CHANNELS
704428-76H01 704428-26 TEST PROGRAM ON MAG TAPE
COORDES
                                                                        META-SYMBOL ASSEMBLER (COVER)
    900952
                                                 SIGMA META-SYMBOL REFERENCE MANUAL
    04442AA 81 SIGMA 5/7 CARD COPY AND VERIFY PROGRAM - UTILITY
704442-11A00 DESCRIPTION PRINTED
704442-23A00 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704442-24A00 RELOCATABLE BINARY CARDS
704442AA
    704442-34A00 704397-36 SOURCE CARDS
    94444AB 81 SIGMA 5/7 STAND-ALONE REGISTER SAVE GENERATOR
704444-11800 DESCRIPTION PRINTED
704444-24800 RELOCATABLE BINARY CARDS
704444-34800 704397-36 SOURCE CARDS
704444AR
    704444-84800
                                                 ABSOLUTE BINARY CARDS
```

```
A 5/7

CHECKOUT AID-CHECKER

DESCRIPTION PRINTED

RELOCATABLE BINARY PAPER TAPE, 8 LEVELS

RELOCATABLE BINARY CARDS
                          B3 SIGMA 5/7
     704448-11800
     704448-23800
     704448-24800
     704448-44800
                                                              COMPRESSED CARDS
                                                                                           8050 EXTERNAL MEMORY ADAPTER DIAGNOSTIC
                            BI SIGMA 2
704449AB
                                                            LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
     704449-51A00
     704449-83A00
     704449-84400
    704450AE B1 SIGMA 2 STAND-ALONE SYMBOL ASSEMBLER
704450-23D00 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704450-24D00 704955-36 SOURCE CARDS
704450-51D00 704955-56 LISTING PRINTED
901047 SIGMA 2 STAND-ALONE SYSTEMS OPERATIONS MANUAL
901051 SIGMA 2 SYMBOL REFERENCE MANUAL
704450AE
    704453AD B1 SIGMA 2 STAND-ALONE RELOCATABLE LUADER
704453-23D00 704955-83 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704453-24D00 704955-84 RELOCATABLE BINARY CARDS
704453-34D00 704955-36 SOURCE CARDS
704453-51D00 704955-56 LISTING PRINTED
901047 SIGMA 2 STAND-ALONE SYSTEMS OPERATIONS MANUAL
704453AD
    04454AB B1 SIGMA 2/3
704454-11C00 704457-11 DESCRIPTION PRINTED
704454-23C00 704457-83 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704454-24C00 704457-84 RELOCATABLE BINARY CARDS
704454-36C00 704457-36 SOURCE MAG TAPE, 9 CHANNELS
704454-86C00 704457-56 LISTING MAG TAPE, 9 CHANNELS
704454-86C00 704457-86 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
901035
704454AB
704455AD B1 SIGMA 2 STAND-ALONE DEBUG

704455-23D00 704956-B3 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS

704455-34D00 704955-36 SOURCE CARDS

704455-51D00 704955-56 LISTING PRINTED

901047 SIGMA 2 STAND-ALONE SYSTEMS OPERATIONS MANUAL
     04457AF B1 SIGMA 2/3-530 BASIC CONTROL MONITOR (BCM)
704457-11E00 DESCRIPTION PRINTED
704457-23E00 704457-83 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704457-24E00 704457-86 RELOCATABLE BINARY CARDS
704457-26E00 704457-86 COMPRESSED MAG TAPE, 9 CHANNELS
704457-65E00 704457-86 LISTING MAG TAPE, 9 CHANNELS
704457-86E00 ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
901064 BASIC CONTROL MONITOR REFERENCE MANUAL
901526 BASIC CONTROL MONITOR TECHNICAL MANUAL
704457AF B1
704457-11E00
                             B1 SIGMA 2/3 MULTIPLI/DITION
A00 DESCRIPTION PRINTED
3A00 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
A000 RELOCATABLE BINARY CARDS
COURSE CARDS
                                                                                           MULTIPLY/DIVIDE INTERRUPT SUBROUTINE
 704511AA B1 S
704511-11A00
       704511-23400
       704511-24A00
      704511-34400 704955-36 SOURCE CARDS
704511-51400 704955-56 LISTING PRINTED
     RBM BASIC FORTRAN IV LIBRARY (COVER)
  704525AD
```

```
704596AA B3 SIGMA 5/7 POHER FAIL-SAF
704596-11A00 DESCRIPTION PRINTED
704596-24A00 705000-86 RELOCATABLE BINARY CARDS
                                                                POWER FAIL-SAFE UNDER BCM
     704590-34A00 SOURCE CARDS
704596-44A00 705000-46 COMPRESSED CARDS
 704768AD 81 SIGMA 5/6/7 BPM USER PROCEDURES - SYSTEM BPM 704768-44E01 705000-46 COMPRESSED CARDS
                      B1 SIGMA 5/7
                                                               MEMORY DUMP SUBROUTINE - UTILITY
     7047784B B1 SIGMA 5/7 MEMORY DUMP SUBROUTINE - UTIL
704778-11800 DESCRIPTION PRINTED
704778-23800 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704778-34800 704397-36 SOURCE CARDS
704779AC B1 SIGMA 5/7 STAND-ALONE SELECTIVE DUMP - UTILITY
704779-11C00 DESCRIPTION PRINTED
704779-23C00 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704779-34C00 704397-36 SOURCE CARDS
    04780AB B1 SIGMA 5/7
704780-11800 DESCRIPTION PRINTED
704780-24800 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704780-34800 704397-36 SOURCE CARDS
 704780AB
   04781AB B1 SIGMA 5/7 STD-ALONE DISC SAVE-RESTORE ROUTINE-UTIL
704781-11800 DESCRIPTION PRINTED
704781-23800 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704781-34800 704397-36 SOURCE CARDS
 704781AB
   704782AB
                                 14 5/7 MAG. TAPE CONVERSION (7/9 TRACK) - UTIL
DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
RELOCATABLE BINARY CARDS
704783AA
                     BI SIGMA 5/7
    704783-11A00
704783-23A00
    704783-24A00
   U4784AA BI SIGMA 5/7 MEDIA CONVERSION AND EDITOR ROUTN-UTIL
704784-11A00 DESCRIPTION PRINTED
704784-23A00 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704784-24A00 RELOCATABLE BINARY CARDS
704784-34A00 704397-36 SOURCE CARDS
   704785AR
   704785-24800 RELOCATABLE E
704785-34800 704397-36 SOURCE CARDS
704786-11C00 901193 | DESCRIPTION PRINTED | TO4786-51C00 901193 | LISTING PRINTED | TO4786-83C00 | TO4786-84C00 | ABSOLUTE BINARY PAPE | ABSOLUTE BINARY CARE
                                                              FREESTANDING CONSOLE EXAMINER (FACE)
                                           LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
```

```
94788AC 83 SIGMA 5/7 SELECTOR 10P TEST PROGRAM
704788-51C00 901158 LISTING PRINTED
704788-83C00 ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704788-84C00 ABSOLUTE BINARY CARDS
901158 SIGMA 5/7 SELECTOR 10P TEST PROGRAM DIAG. PROGRAM MANUAL
704788AC
    7 TRACK MAGNETIC TAPE 1/0 HANDLER
704851-23C00 704127-23 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704851-24C00 704357-26 RELOCATABLE BINARY CARDS
704851-34C00 704357-36 SOURCE CARDS
704851AD
    94853AC B1 SIGMA 5/7 STAND-ALONE 1/O INITIALIZATION
704853-23C00 704127-23 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704853-24C00 704357-26 RELOCATABLE BINARY CARDS
704853-34C00 704357-36 SOURCE CARDS
704853AC
                                                                            BCD/EBCDIC TRANSLATION TABLE
                         B1 S1GMA 5/7
                                                     DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
RELOCATABLE BINARY CARDS
     704855-11A00
     704855-23A00
704855-24A00
     704855-34A00 704397-36 SOURCE CARDS
    704955AD
    04958AE B1 SIOMA 2 STAND-ALONE SYSLOAD PACKAGE
704955-11000 DESCRIPTION PRINTED
704955-83000 ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704955-34000 704955-38 SOURCE CARDS
704956-51000 704955-56 LISTING PRINTED
 704958AE
                                                                             MARTIN-CAGE SIGMA 7 CPU EXERCISER
                         B3 SIGMA 7
 704965AA
                                                      DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
     704965-11A00
704965-24A00
     704965-34400
                                                       SOURCE CARDS
      4983AH B1 S1GMA 5-9 REHOTE BATCH TERMINAL TEST PROGRAM
704983-11002 901550 DESCRIPTION PRINTED
 704983AH
                                                      DESCRIPTION PRINTED
DATA CARDS
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAG PROG MANUAL SIGMA 5/7 REMOTE BATCH TERMINAL TEST
      704983-74002
     704983-83D02
704983-84D02
      901550
     04985AF B1 SIGMA 5-9 SORT/MERGE FOR BPM/BTM
704985-11F00 706102-11 DESCRIPTION PRINTED
704985-26F00 706102-26 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
704985-46F00 706102-26 COMPRESSED MAG TAPE, 9 CHANNELS
704985-71F00 706102-11 UPDATE INSTRUCTIONS PRINTED
704985-71F00 706102-11 TEST PROGRAM DESCRIPTIONS
704985-76F00 706102-26 TEST PROGRAM SOURCE FILE
901199 XDS SIGMA 5-9 SORT/MERGE REFERENCE MANUAL
  704985AF
                                                       UNIVERSAL UTILITY PROGRAM
DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
RELOCATABLE BINARY CARDS
  704989AC
                           BI SIGMA 2
      704989-11800
      704989-23801
704989-24801
```

```
704990AB
        705000A1
                                                                                       SYSGEN DECK
DISK BOOT ON CARDS
ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
BPM REFERENCE MANUAL
BPM OPERATIONS MANUAL
        705000-74H01
705000-74H01
        705000-86H01
        900954
 705001AE 81
705001-11E00
705001-46E00
                                       B1 SIGMA 5-9 EXTENDED FORTRAN 1V/1V-H COMPRESSED LIB.
E00 DESCRIPTION PRINTED
COMPRESSED MAG TAPE, 9 CHANNELS
       05260AD B1 SIGMA 5/7 LOAD ONE PASS AND EXECUTE (LOPE) BPM
705260-11001 705000-11 DESCRIPTION PRINTED
705260-46000 705000-46 COMPRESSED MAG TAPE, 9 CHANNELS
705260-86001 705000-86 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
 705260AD
       | 1400 SERIES SIMULATOR | 1400 SERIES SIMULATOR | 1500 | 1400 SERIES SIMULATOR | 1500 | 1500 | 1500 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 
 705261AE
705264AB B1
705264-11B00
                                         B1 SIGMA 2
                                                                                                                             BOOT STRAP AND ABSOLUTE LOADER GENERATOR
                                                                                       DESCRIPTION PRINTED
SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
        705264-34800
       705264-83800
        705264-84800
       05266AD B1 SIGMA 2/3-530
705266-11002 901549 DESC
705266-51002 901549 LIST
705266-83002 ABSC
                                                                                                                            PERIPHERAL SWITCHING EQUIP. DIAGNOSTIC
 705266AD
                                                                                        DESCRIPTION PRINTED
                                                                                       LISTING PRINTED
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAG PROG MAN - SIGMA 2 PERIPHERAL SWITCHING EQUIPMENT DIAG
       705266-84002
       901549
 705279AE
                                         BI SIGMA 5-9
                                                                                                                             CHANNEL INTERFACE UNIT TEST DIAGNOSTIC
                                                                                      CHANNEL INTERFACE UNIT TEST DIAGNOSTIC
DESCRIPTION PRINTED
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAG PROG MAN - SIGMA 5/7 CHANNEL INTERFACE UNIT TEST DIAG
       705279-11002
705279-51002 901551
        705279-83002
       705279-84002
       901551
 705280AE
                                        B3 SIGMA 5/7
                                                                                                                            REAL-TIME BATCH MONITOR--1 (RBM-1)
       15280AE B3 SIGMA 5/7 REAL-TIPE BATCH DURITUR--; F7
705280-11E00 DESCRIPTION PRINTED
705280-24E00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705280-36E00 704357-36 SOURCE MAG TAPE, 9 CHANNELS
705280-86E00 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
705292AD 83 SIGMA 5/7
705292-11D00 901554
705292-51D00 901554
705292-83D00
                                                                                    7 4 BYTE MIOP TEST PROGRAM
DESCRIPTION PRINTED
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAGNOSTIC PROGRAM MANUAL SIGMA 5/7 4-BYTE MIOP TEST PROGRA
        705292-84000
       901554
```

```
| STAND-ALONE CONCORDANCE | STAND-ALONE CONCORDANCE | RELOCATABLE BINARY PAPER TAPE, 8 LEYELS | RELOCATABLE BINARY CARDS | RELOCATABLE BINARY PAPER TAPE, 8 LEYELS | RELOCATABLE BINARY CARDS | RELOCATABLE BINARY
7052QUAD
                                                                                                               STANFORD DMS10 DIRECT TO MEMORY DIAG.
     5295AA B3 S1GMA 5/7
705295-11A00
705295AA
                                                                          DESCRIPTION PRINTED
     705295-11400 DESCRIPTION PRINTED
705295-91400 COMPRESSED CARDS
705295-91400 705295-11 LISTING PRINTED
705295-94400 ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705295-94400 ABSOLUTE BINARY CARDS
     5296AA B3 SIGMA 5/7 FORTRAN IV COMPILER DIAGNOSTICS DEMO
705296-74A00 DATA CARDS
705296AA
                                  BI SIGMA 2/3-530 CHANNEL INTERFACE UNIT TEST DIAGNOSTIC

B04 DESCRIPTION PRINTED

B04 901560 LISTING PRINTED

B04 UPDATE INSTRUCTIONS PRINTED

B04 ABSOLUTE BINARY PAPER TAPE, 8 LEVELS

B04 ABSOLUTE BINARY CARDS

DIAG PROG MANUAL SIGMA 2/3 CHANNEL INTERFACE UNIT TEST
705297AD
     705297-11804
705297-51804 901560
       705297-61804
     705297-83804
      705297-84804
     901560
     5298AB B3 SIGMA 2/3
705298-11801 901559
705298-51801 901559
705298-74801
                                                                                                                REMOTE BATCH TERMINAL TEST
705298AB
                                                                             DESCRIPTION PRINTED
LISTING PRINTED
DATA CARDS
                                                                              ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAG PROG MANUAL SIGMA 2/3 REMOTE BATCH TERMINAL TEST
       705298-83801
      705298-84801
                                                                            DIAGNOSTIC LOADER-SYMBOL+EXTENDED SYMBOL DESCRIPTION PRINTED
                                     83 SIGMA 2/3
      705299-11800 901558
705299-51800 901558
                                                                              LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
SIGMA 2/3 RELOCATABLE DIAGNOSTIC PROGRAM LOADER
        705299-83800
       705299-84800
       705303AB
                                                                               HATCHDOG TIMER TEST
DESCRIPTION PRINTED
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAGNOSTIC PROGRAM MANUAL - SIGMA 2 HATCHDOG TIMER TEST
       5356AB B3 SIGMA 2
705356-11800 901571
705356-51800 901571
 705356AB
        705356-83800
        705356-84800
        901571
                                                                               CCS-20 DIAGNOSTIC PROGRAM WITH HANDLERS DESCRIPTION PRINTED
  705357AB
                                 B3 SIGMA 2
        705357-11A01
705357-34A00
        705357-34400 SOURCE CARDS
705357-51400 705357-11 LISTING PRINTED
        15358AB 83 SIGMA 5/7 CCS-20 PI
705358-11A01 DESCRIPTION PRINTED
SOURCE CARDS
                                                                                                                  CCS-20 DIAGNOSTIC PROGRAM WITH HANDLERS
  705358AB
        705358-34A00 SOURCE CARDS
705358-51A00 705358-11 LISTING PRINTED
         5360AA B1 SIGMA 5/7 SYSTEM FORTCOMP PROCEDURES
705360-44800 705835-28 COMPRESSED CARDS
  705360AA
```

```
B1 SIGMA 5-9 SYSTEM FO
A01 DESCRIPTION PRINTED
 705361AB
                                                                                                          SYSTEM FORTLIB
       705361-11A01
       705361-44A01
                                                                         COMPRESSED CARDS
                                                                         EXERCISER FOR CCS-20 DATA LINK DESCRIPTION PRINTED SOURCE CARDS ABSOLUTE BINARY PAPER TAPE, 8 LEVELS ABSOLUTE BINARY CARDS
 705365AR
                                  B3 SIGMA 2/3
       705365-11800
      705365-34800
705365-83800
      705365-84B00
                                                                       MAG TAPE COPY AND VERIFY (BPM) UTILITY DESCRIPTION PRINTED RELOCATABLE BINARY CARDS COMPRESSED CARDS
      5366AB B3 SIGMA 5/7
705366-11800
 705366AB
      705366-24B00
705366-44B00
       705366-51800 705366-11 LISTING PRINTED
                                                                        PAM-PDM + ADC ACCEPTANCE TESTS FOR LTV DESCRIPTION PRINTED COMPRESSED CARDS
 705367AA B3
705367-11A00
                                  B3 SIGMA 7
       705367-44400
    | 0536841 | B1 | SIGMA 2/3-530 | XEROX REAL-TIME BATCH MONITOR (RBM) | DESCRIPTION PRINTED | DESCRIPTION PRINTED | T05368-23F01 | 705368-84 | RELOCATABLE BINARY PAPER TAPE, 8 LEVELS | T05368-24F01 | 705368-86 | RELOCATABLE BINARY CARDS | RELOCATABLE BINARY PAPER TAPE, 9 CHANNELS | T05368-86 | COMPRESSED MAG TAPE, 9 CHANNELS | T05368-85F01 | T05368-86 | LISTING MAG TAPE, 9 CHANNELS | T05368-83F01 | ABSOLUTE BINARY PAPER TAPE, 8 LEVELS | ABSOLUTE BINARY PAPER TAPE, 8 LEVELS | ABSOLUTE BINARY PAPER TAPE, 9 CHANNELS | SIGMA 2/3-530 | REAL-TIME BATCH MONITOR REFERENCE MANUAL | SIGMA 2/3-530 | REAL-TIME BATCH MONITOR OPERATION MANUAL
                                 B1 SIGMA 2/3-530
                                                                                                        XEROX REAL-TIME BATCH MONITOR (RBM)
       5369AE B1 SIGMA 2/3-530 XEROX RE
705369-11F00 705368-11 DESCRIPTION PRINTED
                                                                                                        XEROX REAL-TIME BATCH MONITOR (RBM)
705369AE
    705371AD B1 SIGMA 2/3 RBM RAD EDITOR
705371-11D00 70536B-11 DESCRIPTION PRINTED
705371-23D00 70536B-83 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
705371-26D00 70536B-86 RELOCATABLE BINARY CARDS
705371-26D00 70536B-86 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705371-36D00 70536B-36 SOURCE MAG TAPE, 9 CHANNELS
705371-56D00 70536B-56 LISTING MAG TAPE, 9 CHANNELS
705371-56D00 70536B-56 SIGMA 2/3 REAL-TIME BATCH MONITOR REFERENCE MANUAL
705371AD
    05372A0 B1 SIGMA 2/3-530 RBM EXTENDED SYMBOL

705372-11F00 DESCRIPTION PRINTED

705372-23F00 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS

705372-36F00 RELOCATABLE BINARY CARDS

705372-36F00 705372-26 SOURCE MAG TAPE, 9 CHANNELS

705372-74F00 705372-24 TEST AND DEMO TAPE

705372-76F00 705372-26 TEST AND DEMO TAPE
705372AG
    05373AD B1 SIGMA 2/3 RBM UTILITIES SUBSYSTEMS AND DEBUG ROOT 705373-11000 705368-11 DESCRIPTION PRINTED 705373-23D00 705368-83 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS 705373-24D00 705368-84 RELOCATABLE BINARY CARDS 705373-26D00 705368-86 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS 705373-36D00 705368-36 SOURCE MAG TAPE, 9 CHANNELS 901037 SIGMA 2/3 REAL-TIME BATCH MONITOR REFERENCE MANUAL
705373AD
```

```
705374-E BI SIGMA 2/3 RBM CONCORDANCE
705374-11E00 DESCRIPTION PRINTED
705374-23E00 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
705374-26E00 RELOCATABLE BINARY CARDS
705374-36E00 705374-28 SOURCE MAG TAPE, 9 CHANNELS
901052 EXTENDED SYMBOL LN/OPS REFERENCE MANUAL
705374AE
 705375AD
                                    ANALOG REDUCTION REPORT GENERATOR DESCRIPTION PRINTED
705378AA
                B3 SIGMA 2
  705378-11A00
705378-84A00
                                     ABSOLUTE BINARY CARDS
                                   LINE PRINTER PLOT SUBROUTINE
DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
SOURCE CARDS
                 83 SIGMA 5/7
705380AA
   705380-11A00
  705380-24A00
705380-34A00
                                                    MODIFIED 7910/14/22 ANALOG DIAG. PROG.
                 B1 SIGMA 2
705382AA
  705382-94A00 DESCRIPTION PRINTED 705382-84A00 ABSOLUTE BINARY CARDS
705386AB
                B3 S1GMA 3
                                                    EXTENDED ARITHMETIC OPTION
  705386-11800 901589
705386-51800 901589
                                     DESCRIPTION PRINTED
                                     LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
  705386-83800
705386-84800
                                     DIAGNOSTIC PROGRAM MANUAL SIGMA 3 CPU EXTENDED ARITHMETIC
  901589
  5387AD 81 SIGMA 5/7
705387-11000 901644 |
705387-51000 901644 |
                                                    7580 GRAPHIC DISPLAY DIAGNOSTIC
70538740
                                DESCRIPTION PRINTED
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
  705387-83D00
705387-84D00
                                                    7923/28/29 SIU DIAGNOSTIC PROGRAM
705388AD B1 SIGMA 2/3
705388-11C00
                                    DESCRIPTION PRINTED
COMPRESSED CARDS
UPDATE INSTRUCTIONS PRINTED
ABSOLUTE BINARY CARDS
   705388-44C01
705388-61C01
   705388-84001
                                   7 MULTI-PROCESSOR EXERCISER DESCRIPTION PRINTED
705390AA
                 B3 S1GMA 5/7
   705390-11A00
                                     COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
   705390-44A00
705390-83A00
705390-84A00
                                                     FORTRAN IV RUN-TIME DIAGNOSTIC DEMO
                 B3 S1GMA 5/7
705391AA
                                  DESCRIPTION PRINTED
   705391-11A00
   705391-34400 SOURCE CARDS
705391-51400 705391-11 LISTING PRINTED
                                                     7923/28/29 SIU DIAGNOSTIC PROGRAM
                 B1 SIGMA 5/7
                                    DESCRIPTION PRINTED
   705392-11B00
                                     ABSOLUTE BINARY CARDS
```

```
705398AE B1 S10MA 5-9 BPM/BTM BASIC COMPILER
705398-11D01 DESCRIPTION PRINTED
705398-46D01 705398-26 COMPRESSED MAG TAPE, 9 CHANNELS
705398-76D01 705398-26 STANDARD AND LOCCT FILES
  705415AE B1 SIGMA 5/6/7 BTM-EXEC (EXECUTIVE PROGRAM)
705415-11E00 705000-11 DESCRIPTION PRINTED
705415-26E01 705000-86 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705415-46E00 705000-46 COMPRESSED MAG TAPE, 9 CHANNELS
  705423AB 83 SIGMA 5/7
705423-11800
                                                                    MAG TAPE/RAD COPY PROGRAM - UTILITY
                                              DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
       705423-24800
      705423-34800
                                                SOURCE CARDS
COMPRESSED CARDS
       705423-44800
      705423-51800
                                                LISTING PRINTED
  705425AA B3 SIGMA 5/7
705425-11A00
                                               POSITION TAPE PROGRAM (POST)
DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
     705425-24A00
705425-44A00
                                                COMPRESSED CARDS
                                              DUMP/LIST PROGRAM - UTILITY
DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS
  705426AA
                       B3 SIGMA 5/7
     705426-11A00
     705426-24A00
      705426-44400
  705428AA
                       B3 SIGMA 5/7
                                               192 CHAR POTTER LINE PRINTER TEST PROG. DESCRIPTION PRINTED
     705428-11A00 980356
705428-44A00
705428-51A00 980356
                                               COMPRESSED CARDS
LISTING PRINTED
ABSOLUTE BINARY CARDS
     705428-84400
                                              MEMORY PROTECT PROGRAM

DESCRIPTION PRINTED

LISTING PRINTED

ABSOLUTE BINARY PAPER TAPE, 8 LEVELS

ABSOLUTE BINARY CARDS

DIAGNOSTIC PROGRAM MANUAL SIGMA 2/3 MEMORY PROTECT TEST PRO
    05528AC 83 SIGMA 2/3
705528-11C00 901605
705528-51C00 901605
705528-83C00
 705528AC
     705528-84000
     901605
 705529AC
                     B3 SIGMA 3
                                               MEMORY DIAGNOSTIC-FAULT LOCATOR DESCRIPTION PRINTED
     705529-11801 901604
705529-51801 901604
705529-83801
                                               ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
     705529-84801
     901604
                                               DIAGNOSTIC PROGRAM MANUAL SIGMA 3 MEMORY DIAGNOSTIC
 705530AE
                      B3 SIGMA 3
                                              CPU DIAGNOSTIC - AUTO DESCRIPTION PRINTED
    705530-11C04 901608
705530-51C04 901608
                                              DESCRIPTION PRINTED
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAGNOSTIC PROGRAM MANUAL - SIGMA 3 AUTO DIAGNOSTIC
    705530-83C04
705530-84C04
    901608
 705531AB
                      B3 S10MA 5/7
                                                                  GEM-1 GENERALIZED EVENT MEASUREMENT PROC
    705531-11A00
                                              DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS
    705531-24800
705531-44800
705533AE B1 SIGMA 3-530
705533-11801 901613 DE
705533-51801 901613 L1
705533-83801 AE
                                             30 REMOVABLE DISC STORAGE TEST
DESCRIPTION PRINTED
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
    705533-84801
```

```
PREMOVABLE DISC STORAGE TEST
DESCRIPTION PRINTED
705534A1
                  B1 S16MA 5-9
   705534-11C01
                                       LISTING PRINTED
LISTING PRINTED
UPDATE INSTRUCTIONS PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
   705534-51C01 901612
   705534-61001
   705534-83C01
   705534-84C01
                                       DIAG PROG MANUAL SIGMA 5-9 REMOVABLE DISC STORAGE TEST
  901612
                                   9-9 9 CHANNEL MAGNETIC TAPE TEST
DESCRIPTION PRINTED
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAG, PROG. MANUAL - SIGMA 5/7 9-CHANNEL MAG TAPE SYS. TEST
   5542AK B1 S1GMA 5-9
705542-11C00 901616 |
705542-51C00 901616 |
705542AK
   705542-83000
   705542-84000
  901616
                                      NUMERICAL SUBROUTINE PACKAGE (COVER)
DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
RELOCATABLE BINARY CARDS
RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705546AA
                BI SIGMA 2/3
   705546-11A00
705546-23A00
  705546-24A00
705546-26A00
   705546-38400 705546-38 SOURCE CARDS
705546-36400 SOURCE MAG TAPE, 9 CHANNELS
901817 NUMERICAL SUBROUTINE PACKAGE TECH. MAN. FOR XDS SIGMA 2 COM
  901617
  705651AF B1 S1GMA 5-9
705651-11801 901620
705651-51801 901620
705651-83801
705651-84801
                                                        KEYBOARD PRINTER TEST (ASR/KSR)
705651AF
                                      DESCRIPTION PRINTED
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
                                       DIAGNOSTIC PROGRAM MANUAL - SIGMA 5/7 ASR/KSR TEST
   901620
   XEROX KEYBOARD PRINTER (ASR/KSR) (16-BIT)
705652AG
                                       ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAGNOSTIC PROGRAM MANUAL - SIGMA 2/3 ASR/KSR TEST
   705652-84E00
   901619
                                                        SSS-SAS PCM TELEMETRY COMPILER
705655AR
                  B3 SIGMA 5/7
                                       DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS
   705655-11A01
   705655-24A01
705655-44A01
                                                        PCH DATA ACQUISITION PROGRAM
705656AB
                  83 SIGMA 5/7
                                      DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS
    705656-11A01
    705656-24A01
   705656-44A01
                                     7 7530/7531 PLOTTING PACKAGE
DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS
705657AC
                  B3 S1GMA 5/7
   705657-11C00
705657-24C00
    705657-44000
                                      DEBUG ROUTINE DESCRIPTION PRINTED
 705658AA
                  B3 S1GMA 5/7
    705658-11A00
705658-84A00
                                        ABSOLUTE BINARY CARDS
                                       BADGE READER DIAGNOSTIC PROGRAM
DESCRIPTION PRINTED
COMPRESSED CARDS
                   B3 S1GMA 5/7
 705663AA
    705663-11A00
    705663-44400
                                         ABSOLUTE BINARY CARDS
     705663-84A00
                                        COMMAND SYS 11, SECT 2-FSK TAPE 1NPUT DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 8 LEVELS COMPRESSED CARDS
    5666AA B3 S1GMA 2
705666-11A00 980272
705666-23A00
 705666AA
    705666-44400
```

705667AA B3 SIGMA 2 705667-11A00 980271 705667-23A00

COMMAND SYS 1, SECT 3-DATA BASE LOADING

705667-44400

DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
COMPRESSED CARDS

705668AD B3 SIGMA 5

705668-11800 705668-24801 705668-44801 705668-84801

CHECK OUT AID AND READINESS TEST (CART)
DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS
ABSOLUTE BINARY CARDS

705669AB 83 SIGMA 5/7 DATA RETRIEVAL PACKAGE (DARP)

705669-11A01 705669-24A01 705669-44A01

DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS

B3 SIGMA 5

705670AA B3 705670-11A00 705670-24A00 705670-44A00

901615

MESTINGHOUSE HYBRID EXECUTIVE LIBRARY DESCRIPTION PRINTED RELOCATABLE BINARY CARDS COMPRESSED CARDS

05672AC B3 SIGMA 3 705672-11801 901615 705672AC

MULTIPLE-PORT MEMORY RANDOM EXERCISOR DESCRIPTION PRINTED

705672-51801 901615 705672-83801 705672-84801

DESCRIPTION PRINTED
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAGNOSTIC PROGRAM MANUAL - SIGMA 3 MPM DIAGNOSTIC

705673AD B1 SIGMA 5-9 705673-11000

DATADEF SYSTEMS PROGRAMMING PROCEDURES
DESCRIPTION PRINTED

COMPRESSED CARDS

705673-44002

BI SIGMA 5

ATP FOR DATA RECORDING AND TIMING SYSTEM

DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS

705675-11A00

705675-24400

705677AB STAND-ALONE ERROR LOG ANALIZER FOR BPM

05677AB B1 S1GMA 5/7 STAND-ALONI 705677-11D01 705000-11 DESCRIPTION PRINTED 705677-44D01 705000-46 COMPRESSED CARDS 705677-84D01 705000-86 ABSOLUTE BINARY CARDS

705679AC B3 SIGMA 3 705679-11802 901648 705679-51802 901646 705679AC

EXTERNAL 10P TEST PROGRAM

705679-83802 705679-84802

901646

DESCRIPTION PRINTED
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAGNOSTIC PROGRAM MANUAL SIGNA 3 EXTERNAL 10P TEST

05680AB B3 SIGMA 5/7 705680-11800 901648 705680-51800 901648 705680-83800 705680-84800

STAND-ALONE SYSTEM EXERCISER (SHAP 3.2)

901648

STAND-ALUNE STBIET EXERCISER (SHAP S.E.)
DESCRIPTION PRINTED
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAG PROG MANUAL SIGMA 5/7 S/A SYSTEM EXERCISER (SHAP 35)

705681AM B1 SIGMA 2/3 705681-11003 901650 705681-51003 901650 705681-83003 705681-84003 901650

DIAGNOSTIC PROGRAM MONITOR (DPM)

DIAGNOSTIC PROGRAM MONITOL DESCRIPTION PRINTED LISTING PRINTED ABSOLUTE BINARY PAPER TAPE, 8 LEVELS ABSOLUTE BINARY CARDS

DIAG PROG MANUAL SIGMA 2/3 DIAGNOSTIC PROGRAM MONITOR

```
-9 DIAGNOSTIC PROGRAM MONITOR (DPM)
DESCRIPTION PRINTED
   705682AK BI SIGMA 5-9
705682-11003 901649
705682-51003 901649
705682AK
                                             LISTING PRINTED
ABSOLUTE BINARY CARDS
    705682-84D03
                                             DIAG PROG MANUAL SIGMA 5/7 DIAGNOSTIC PROGRAM MONITOR
    901649
                                        77 SIGMA ACCOUNTING SYSTEM SUMMARY PROCR.
DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS
                     83 SIGMA 5/7
705689AA
   705689-11A00
705689-24A00
705690AC B3 SIGMA 3
705690-11A04 901659
705690-51A04 901659
705690-83A04
                                             INTERGRAL IOP TEST DESCRIPTION PRINTED
                     B3 SIGMA 3
                                             LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAGNOSTIC PROGRAM MANUAL SIGMA 3 110P TEST
    705690-84404
    901659
   705691AH B1 SIGMA 5-9
705691-11A08 901664
705691-51A08 901664
705691-83A08
705691-84A08
                                                                 MAG. TAPE LIBRARY CONTROL PROGRAM
 705691AH
                                            DESCRIPTION PRINTED
LISTING PRINTED
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
OPERATIONS MANUAL-DIAGNOSTIC PROGRAM MAGNETIC TAPE LIBRARY
    901664
                                                                 DIAGNOSTIC PROGRAM MAGNETIC TAPE LIBRARY
    5692AU B1 SIGMA 5/7
705692-11U00
 705692AU
                                            DESCRIPTION PRINTED
ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
    705692-86000
                                                                 DIAG.PROG.MAG.TAPE LIBRARY CONTROL PROG.
    05693AB B1 SIGMA 2/3
705693-11A03 901665
705693-51A03 901665
 705693AB
                                            DIAG.PROG.HAG. TAPE LIBRARY CONTROL PROS.

DESCRIPTION PRINTED

LISTING PRINTED

ABSOLUTE BINARY PAPER TAPE, 8 LEVELS

ABSOLUTE BINARY CARDS

DIAG PROG MANUAL SIGMA 2/3 MAG TAPE LIBRARY CONTROL PROGRAM
    705693-83A03
    705693-84A03
    901665
                                             DIAGNOSTIC PROGRAM MAGNETIC TAPE LIBRARY DESCRIPTION PRINTED ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
    05694AM B1 SIGMA 2/3
705694-11P00
 705694AM
     705694-86P00
    5715AC B3 SIGMA 5/7
705715-11800
 705715AC
                                            DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS
     705715-24800
     705715-44800
                                                                 DIAGNOSTIC - SYSTEM EXERCISER
 705716AB B3 SIGMA 2/3
705716-11A01 901666
                                             DIAGNOSTIC - STSTER EXERCISER

DESCRIPTION PRINTED

COMPRESSED CARDS

LISTING PRINTED

ABSOLUTE BINARY PAPER TAPE, 8 LEVELS

ABSOLUTE BINARY CARDS

DIAGNOSTIC PROGRAM MANUAL - SIGMA 2/3 SYSTEM EXERCISOR
     705716-44A01
705716-51A01 901686
     705716-83A01
705716-84A01
     901666
                                                                  C.O.C. HANDLER (RCOC)
     5719AE B1 SIGMA 2/3-530 C.O.C. H
705719-11F00 705368-11 DESCRIPTION PRINTED
```

MANUFACTURING TEST PROGRAM DESCRIPTION PRINTED

SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS

705720AA

705720-11A00

705720-34A00 705720-83A00 705720-84A00

B3 SIGMA 3

7 MIOP HITH MAINTENANCE SUBCONTROLLER DESCRIPTION PRINTED 705721AD B3 SIGMA 5/7 705721-11A04 901669 705721-51A04 901669 705721-83A04 DESCRIPTION PRINTED
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
S165/7-4 BYTE MIOP DIAG. PROG. (WITH MAINTENANCE SUBCONTROL 705721-84A04 901669 05722AA B3 SIGMA 5/7 SIOP DIAGNOSTIC (MS)
705722-11A01 901670 DESCRIPTION PRINTED
705722-51A01 901670 LISTING PRINTED
ABSOLUTE RIMAGE ASSOLUTE 705722AA LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
SIGMA 5/7 SIOP DIAG PROG (MAINTENANCE SUBCONTROLLER) 705722-84A01 901670 705723AB B3 SIGMA 5/7 MAINTENAM 705723-11A01 901668 DESCRIPTION PRINTED 705723-51A01 901668 LISTING PRINTED MAINTENANCE SUBCONTROLLER SELF-TEST LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAG PROG MANUAL SIGMA 5/7 MAINT. SUBCONTROLLER SELF-TEST 705723-83A01 705723-84A01 COC HANDLER FOR XEROX MESSAGE SHITCH SYS 705726AA B3 S1GMA 5/7 DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS 705726-11A00 705726-24A00 705726-44A00 705729AA B3 SIGMA 2 A.C. ELECTRONICS DATA ACQUISTION 705729-11A00 705729-24A00 DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS 705729-44400)5730AG BI SIGMA 5-9 COMPREHENSIVE NO.

705730-11C02 901678 DESCRIPTION PRINTED

705730-83C02 ABSOLUTE BINARY PAPER TAPE, 8 LEVELS

705730-84C02 ABSOLUTE BINARY CARDS

DIAG. PROG. MAN. SIGMA 5/7 COMP. RAPID ACC. DEV. FILE TEST 705730AG BI SIGMA 5/7

96-CHARACTER ANALEA L...

4400

RELOCATABLE BINARY CARDS

DIAGNOSTIC PROGRAM MANUAL - SIGMA 5/7

96-CHARACTER ANALEX LINE PRINTER TEST 705731AA 96-CHARACTER ANALEX LINE PRINTER TEST 705731-24A00 980368 05732AF 81 SIGMA 5-9 REAL-TIME BATCH MONITOR (RBM)
705732-11C03 DESCRIPTION PRINTED
705732-96C03 705732-86 COMPRESSED MAG TAPE, 9 CHANNELS
7057322-76C03 705732-84 TEST PROGRAM
705732-76C03 705732-86 TEST PROGRAM ON TAPE 705732AF ABSOLUTE BINARY CARDS
ABSOLUTE BINARY MAG TAPE, 9 CHANNELS 705732-84C03 705732-86C03 D5733AC B1 S10MA 5/7 RBM OVERLAY LOADER
705733-11C00 705732-11 DESCRIPTION PRINTED
705733-46C00 705732-46 COMPRESSED MAG TAPE, 9 CHANNELS
705733-84C00 705732-84 ABSOLUTE BINARY CARDS
705733-86C00 705732-86 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS 705733AC 705734AC

```
7 CHANNEL
705735AC B1 S10MA 5/7
705735-11801 901682 DESCRIPTION PRINTED
705735-83801 LISTING PRINTED
ABSOLUTE BINARY PAPE
                                                                                                                      7 CHANNEL MAGNETIC TAPE TEST
                                                                                LISTING PRINTED
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAG.PROG.MAN.-SIG.5/7 7 CHANNEL MAGNETIC TAPE SYSTEM TEST
        705735-84801
      901682
705736AB B3 SIGMA 5/7 MEMORY DIAGNOSTIC-FAULT LOCATOR 705736-11A01 901687 DESCRIPTION PRINTED COMPRESSED CARDS
                                                                                 LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAG. PROGRAM MANUAL-SIGMA 5/7 MEMORY FAULT LOCATOR PROGRAM
       705736-51A01 901687
       705736-83A01
705736-84A01
       901687
       705738AE B1 SIGMA 5-9 EXTENDED FORTRAN 1V/IV-H L18. (RBM)
705738-11E00 DESCRIPTION PRINTED
705738-24E00 RELOCATABLE BINARY CARDS
705738-26E00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
 705738AE
      705738-44E00 705738-24 COMPRESSED CARDS
705738-46E00 705738-26 COMPRESSED MAG TAPE, 9 CHANNELS
705738-74E00 705738-24 TEST DECK
705738-76E00 705738-26 TEST TAPE
                                                                                                                      ONE CARD CORE DUMP - UTILITY
705750AA B3 SIGMA 5/7 ONE CARD 705750-11A00 DESCRIPTION PRINTED 50URCE CARDS 705750-51A00 705750-11 LISTING PRINTED
       705751AA
 705757AA B3 SIGMA 5/7 PRINT DUMP
705757-11A00 DESCRIPTION PRINTED
         705757-11A00
                                  B3 SIGMA 5/7
SOURCE CARDS
                                                                                                                        FORTRAN IV ALLOCATION DIAGNOSTICS DEMO
         705762-34400
                                                                                                                        BTM MESSAGE SAVER
                                       B3 SIGMA 5/7
   70577344
                                                                                   DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
SOURCE CARDS
COMPRESSED CARDS
         705773-11A00
         705773-24400
         705773-34A00
         705773-44A00
  DIAGNOSTIC FOR MDC MODIFIED 7580
                                                                                                                         SNEAK-ON MEMORY PRINT
                                       B3 S1GMA 5/7
                                                              DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY CARDS
         705775-11A00
705775-44A00
          705775-84A00
         705776-11000 DESCRIPTION PRINTED
705776-24000 RELOCATABLE BINARY CARDS
705776-46000 705776-26
705776-74000 TOST76-74000 TOST76-7400 
   705776AD
```

705777AA B3 SIGMA 2/3 ROMBUST
705777-11A00 DESCRIPTION PRINTED
705777-24A00 RELOCATABLE BINARY CARDS
705777-34A00 SOURCE CARDS

705779AA B3 SIGMA 2/3 FORTRAN LIBRARY PROCEDURES
705779-11A00 DESCRIPTION PRINTED
705779-34A00 SOURCE CARDS

705780AE BI SIGMA 2/3-530 SYMBIONT PLOTTING SYSTEM 705780-11F00 705368-11 DESCRIPTION PRINTED

705781AD B3 SIGMA 5-9 RBM MACRO-SYMBOL ASSEMBLER
705781-11D00 DESCRIPTION PRINTED
705781-24D00 RELOCATABLE BINARY CARDS
705781-44D00 COMPRESSED CARDS
705781-44D00 705781-26 COMPRESSED MAG TAPE, 9 CHANNELS
705781-76D00 705781-26 TEST CASE ON TAPE
901578 XEROX MACRO-SYMBOL LN, OPS REFERENCE MANUAL

705782AA BI SIGMA 5/7 FILE PURGE 705782-11A00 DESCRIPTION PRINTED 705782-24A00 RELOCATABLE BINARY CARDS

705783-C AI SIGMA 5/6/7 MANAGE AND TERMINAL ORIENTED MANAGE
705783-11C00 DESCRIPTION PRINTED
705783-26C00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705783-46C00 705783-26 COMPRESSED MAG TAPE, 9 CHANNELS
LOAD DECK
901610 XDS SIGMA 5/7 MANAGE REFERENCE MANUAL

705784A B3 SIGMA 5/7 RUN-TIME TRACE
705784-11A00 DESCRIPTION PRINTED
705784-24A00 RELOCATABLE BINARY CARDS
COMPRESSED CARDS

705785AA B3 SIGMA 5/7 MACE!
705785-11A00 DESCRIPTION PRINTED
705785-24A00 RELOCATABLE BINARY CARDS
705785-44A00 COMPRESSED CARDS

705818AA B3 SIGMA 5 705818-11A00 DESCRIPTION PRINTED 705818-24A00 RELOCATABLE BINARY CARDS 705818-44A00 COMPRESSED CARDS

705820AE B1 SIGMA 5-9 EXT. FORTRAN IV/IV-H LIBS. (BPM/BTM)
705820-11E00 DESCRIPTION PRINTED
705820-26E00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705820-76E00 705820-26 TEST TAPE

```
| DESCRIPTION PRINTED 
                                                                                                                                                                                           EXTENDED FORTRAN IV/IV-H LIBRARY (BCH)
                                                                                                                                FUNCTIONAL MATHEMATICAL PROG SYS (FMPS)
DESCRIPTION PRINTED
RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
SYSGEN DECK/TEST CASE
FUNCTIONAL MATHEMATICAL PROG. SYS. REF. MAN. FOR SIGMA 5/7
                                                              A1 SIGMA 5-9
705831AB
          705831-11800
705831-26800
705831-74800
          901609
                                                                                                                                                                                               GAMMA 3 MATRIX-GENERATOR REPORT HRITER
705832AB
                                                               A1 SIGMA 5-9
                                                                                                                                   DESCRIPTION PRINTED
RELOCATABLE BINARY HAG TAPE, 9 CHANNELS
SYSGEN DECK/TEST CASE
GAMMA 3 (FOR FMPS) REF MANUAL FOR XDS SIGMA 5/7 COMPUTERS
          705832-11800
          705832-26800
705832-74800
        D5835AE BI SIGMA 5-9
T05835-11E00
T05835-24E00
T05835-26E00
T05835-26E00
T05835-74E00
T05835-74E
705835AE
                                                                                                                                                                                                 SYSTEM FORTCOMP FOR EXTENDED F-1V
                                                                BI SIGMA 5/7
705836AA
           705836-44A00 705835-28 COMPRESSED CARDS
                                                                                                                                     NASA/BALL MODEL XPS-95 DEMO PROGRAM
DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS
 705843AA
                                                                B3 SIGMA 5
           705843-11A00
            705843-24A00
           SYMBOL ASSEMBLER (RBM VERSION)
 705847AA B3 SIGMA 2/3
705847-11A00
705847-36A00 704457-36 SOURCE MAG TAPE, 9 CHANNELS
705847-86A00 704457-56 LISTING MAG TAPE, 9 CHANNELS
705847-83A00 704457-83 ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705847-84A00 704457-84 ABSOLUTE BINARY CARDS
                                                                 B3 SIGMA 5/7 XDS SNOBOL4
A00 DESCRIPTION PRINTED
A00 COMPRESSED MAG TAPE, 9 CHANNELS
   70584844
               705848-11A00
              705848-46A00
                                                                                                                                                                                               EXTENDED FORTRAN IV-H (BCM VERSION)
             705850-11000 EXTENDED FORTRAN IV-H (BCM VI
705850-11000 DESCRIPTION PRINTED
705850-24000 RELOCATABLE BINARY CARDS
705850-26000 705776-26 COMPRESSED MAG TAPE, 9 CHANNELS
   705850AD
                                                                  BI SIGMA 5/7
                                                                                                                                                                                                EXTENDED FORTRAN IV-H (BPH.BTM)
              05851AD 81 SIGMA 5/6/7 EXTENDED FORTRAN IV-H (BPH.81
705851-11000 DESCRIPTION PRINTED
705851-26000 RELOCATABLE BINARY HAG TAPE, 9 CHANNELS
705851-46000 705851-26 COMPRESSED HAG TAPE, 9 CHANNELS
705851-74000 705776-74 TEST DECKS
     705851AD
```

705852AA 05852AA B3 SIGMA 5/7 GRAPHIC DISPLAY TO PLOTTER COPY DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS 705852-44400 2/3 SIU 7915 HANDLER (EXT. PREC. FORTRAN)
DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
SOURCE CARDS 70585344 5853AA B3 SIGMA 2/3 705853-11A00 705853~24400 705853-34A00 705854AA B3 SIGMA 5/7 SIU 7923 HANDLER DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
SOURCE CARDS 705854-11A00 705854-24A00 705854-34A00 705855-11400 SIU 7930/31 HANDLER (EXT. PREC. FORTRAN)
705855-24400 RELOCATABLE BINARY CARDS
705855-34400 SOURCE CARDS B3 SIGMA 2/3 SIU 7930/31 HANDLER (STAND.PREC.FORTRAN)
A00 DESCRIPTION PRINTED
A00 RELOCATABLE BINARY CARDS
SOURCE CARDS 705856AA 705856-11A00 705856-24A00 705856-34A00 7 HANDLER FOR 7969 FREQUENCY CONTROL UNIT DESCRIPTION PRINTED RELOCATABLE BINARY CARDS COMPRESSED CARDS 705860AA B3 SIGMA 5/7 705860-11A00 705860-24A00 705860-44400 7 HANDLER FOR 7930/7931 DIGITAL 1/O UNIT DESCRIPTION PRINTED RELOCATABLE BINARY CARDS COMPRESSED CARDS B3 S1GMA 5/7 705861-11A00 705861-24A00 705861-44400 05862AF 83 SIGMA 5-9 705862-11F00 705862AF REVISED MAG TAPE COPY - VERIFY PROGRAM DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS 705862-24F00 705862-44F00 705863AE B1 S1GMA 2/3-530 COMPREHENSIVE RAD TEST
705863-11801 901721 DESCRIPTION PRINTED
705863-51801 901721 LISTING PRINTED
705863-63801 ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705863-84801 ABSOLUTE BINARY CARDS
901721 DIAG. PROG. MAN.-SIGMA 2/3 COMP. RAPID ACCESS DEVICE (RAD) 705864AA 83 705864-11A00 705864-24A00 705864-44A00 HANDLER FOR 7915/ADS-10 AIC DESCRIPTION PRINTED RELOCATABLE BINARY CARDS COMPRESSED CARDS B3 SIGMA 5/7 705865AB A1 SIGMA 5/6/7 CIRC-DC /7 CIRC-DC
DESCRIPTION PRINTED
RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
SOURCE MAG TAPE, 9 CHANNELS
CONTROL CARD DECKS FOR LOAD, COMPILE, AND TEST
CIRC-DC REFERENCE MANUAL AND USERS QUIDE 705865-11800 705865-26800 705865-36800 705865-74800 901697 05866AF BI SIGMA 2/3-530 9 CHANNEL MAGNETIC TAPE TEST
05866-11801 901722 DESCRIPTION PRINTED
105866-51801 901722 LISTING PRINTED
105866-84801 ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
105866-84801 ABSOLUTE BINARY CARDS
101722 DIA.PROG.MANUAL-SIG. 2/3 9 CHANNEL MAGNETIC TAPE SYSTEM TES 705866AF

```
705867AA B3 SIGMA 5/7 ARGONNE LO-LEVEL ANALOG INPUT DIAGNOSTIC 705867-11A00 DESCRIPTION PRINTED RELOCATABLE BINARY CARDS COMPRESSED CARDS
                         DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS
                B3 SIGMA 5/7
705868AA
   705868-11A00
705868-24A00
705868-44A00
   705877AF
705878AA B1 SIGMA 5/6/7
705878-11A00 DE
                                                  PRINT LABELED TAPE
                               DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS
   705878-24A00
705878-44A00
                             5/6/7 CARD STORE/RETRIEVE (CSR)
DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS
   05879AA 81 SIGMA 5/6/7
705879-11A00 DE
705879-24A00 RE
705879-44A00 CO
 705879AA
                                                   CONTROL PROGRAM FOR E-H MEMORY TESTER
                 B3 SIGMA 2/3
 705880AA
                                   DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
SOURCE CARDS
   705880-11A00
   705880-24A00
705880-34A00
                                 /8/7 MULTSORT - SORT MULTIPLE INPUT FILES
DESCRIPTION PRINTED
COMPRESSED CARDS
 705881AA
                B3 S1GMA 5/6/7
   705881-11A00
    705881-44A00
                             5/6/7 SORT 1400 SIMULATOR FORMATTED TAPE FILES
DESCRIPTION PRINTED
COMPRESSED CARDS
 705882AA B3 SIGMA 5/6/7
705882-11A00 DE
   D5884AD B1 SIGMA 6/7
T05884-11A08 901736
T05864-26A08
901736
DESCRIPTION PRINTED
RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
DIAGNOSTIC PROGRAM USERS MANUAL SIGMA 6/7
 705885AA B1 S1GMA 2/3
705885-11A00
705885-44A00
705885-83A00
705885-83A00
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
                BI SIGMA 5/7 CC-32 DIAGN
1A00 DESCRIPTION PRINTED
4A00 COMPRESSED CARDS
4A00 ABSOLUTE BINARY CARDS
                                                   CC-32 DIAGNOSTIC PROGRAM
    705886-11A00
    705886-44A00
705886-84A00
```

BI SIGMA 5/7 ADS-10 ANALOG SIU DIAGNOSTIC PROGRAM ADD DESCRIPTION PRINTED 705887AA 705887-11A00 COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS 705887-44A00 705887-83A00 705887-84400 705888A0 B1 SIGMA 5-9 XEROX ANS COBOL COMPILER
705888-11E00 DESCRIPTION PRINTED
705888-46E03 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705888-66E03 UPDATE ON MAG TAPE, 9 CHANNELS
901500 XEROX ANS COBOL REFERENCE MANUAL
901501 XEROX ANS COBOL OPERATIONS MANUAL NEW SYSTEM EXERCISER (SEX)
UPDATE INSTRUCTIONS PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS 705889AH BI SIGMA 5/7 705889-61804 705889-83804 705889-84804 DIAG PROG MANUAL SIGMA 5/7 NEW SYSTEMS EXERCISER 901737 7910 SIU HANDLER (FORTRAN IY-H)
DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
SOURCE CARDS 705891AA 83 705891-11A00 83 SIGMA 5/7 705891-24A00 705891-34A00 7915/ADS-10 SIU DIAGNOSTIC DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 8 LEVELS RELOCATABLE BINARY CARDS COMPRESSED CARDS 5892AC B1 SIGMA 2/3 705892-11C00 705892AC 705892-23C00 705892-24C00 705892-44000 B3 SIGMA 3 8150 MINI TEST DESCRIPTION PRINTED COMPRESSED CARDS 705893-11A00 705893-44A00 705893-51A00 705893-11 LISTING PRINTED
705893-83A00 ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705893-84A00 ABSOLUTE BINARY CARDS B3 SIGMA 3 MEDIC 8150 (MEMORY DIAGNOSTIC FOR 8150) 705894-84400 BS SIGMA 3 MEDIC 8150 (MEMORY DIAGNO)
705894-11400 DESCRIPTION PRINTED
705894-81400 705894-11 LISTING PRINTED
705894-83400 ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705894-84400 ABSOLUTE BINARY CARDS 705895AA 83 SIGMA 2/3 MOC CONTROLLER 7601 HANDLER 705895-11A00 DESCRIPTION PRINTED B3 SIGMA 5/7 SPECIAL FORT-SYMBOL INTERFACE ROUTINES
1A00 DESCRIPTION PRINTED 705896AA B3 705897AA B3 SIGMA 5/7 MBB HYBRID EXECUTIVE LIBRARY
A00 DESCRIPTION PRINTED 705897-11A00 B3 SIGMA 2/3 7923 SIU HANDLER (FORTRAN) 705898-11A00 705898-24A00 DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
SOURCE CARDS 705898-34A00 705900AC A1 SIGMA 5-9
705900-11801
705900-26801
705900-46801
705900-76801
705900-76801
705900-76801
705900-26
901738

DMS - DATA MANAGEMENT SYSTEM (8PM)
DESCRIPTION PRINTED
RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
COMPRESSED MAG TAPE, 9 CHANNELS
TEST PROGRAM SOURCE FILE ON TAPE
DMS REFERENCE MANUAL

```
706101AD B1 SIGMA 6-9 CP-V BASIC
706101-11C01 DESCRIPTION PRINTED
706101-26C01 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706101-76C01 706101-26 COMPRESSED MAG TAPE, 9 CHANNELS
706101-76C01 706101-26 LOAD, SYSGEN AND TEST FILES
706101-86C01 706101-26 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
       | DESCRIPTION PRINTED | DESCRIPTION | DESC
 706102AE
                                                                  A 5/6/7 HORKING DAYS SUBROUTINE - HORKDAYS
DESCRIPTION PRINTED
SOURCE CARDS
                                     B3 S1GMA 5/6/7
 706104AA
       706104-11A00
        706104-34A00
                                                                                                                            DATE CONVERSION SUBROUTINE
 706105AA B3
706105-11A00
                                         B3 SIGMA 5/8/7
                                                                  DESCRIPTION PRINTED SOURCE CARDS
                                   B3 SIGMA 3 RAYTHEON RECORDER DEMO PROGRAM

DESCRIPTION PRINTED

RELOCATABLE BINARY CARDS

COMPRESSED CARDS
 706108AA
        706108-11A00
706108-24A00
706108-44A00
 706109AA B3 SIGMA 2/3
706109-11AD0
706109-24AD0
706109-44AD0
                                                                                                                           XPS-97 DIAGNOSTICS FOR SIGMA 3
                                                              DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS
        06110AE B1 SIGMA 2/3-530
706110-11E01 DESC
                                                                                                                           XEROX DISPLAY STATION DIAGNOSTIC PROGRAM
 706110AE
                                                                    DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY CARDS
        706110-44E01
706110-84E01
                                                                                                                            BASIC TEXT ARRAY GENERATOR (TEXTAR)
 706111AA 83
706111-11A00
                                       B3 SIGMA 7
                                                                              DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
        706111-24A00 RELOCATABLE BIN/
706111-51A00 706111-11 LISTING PRINTED
                                          A1 SIGMA 5/6/7
   706112AB
                                                                                      77 CIRC-AC
DESCRIPTION PRINTED
RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
SOURCE MAG TAPE, 9 CHANNELS
CONTROL CARD DECKS FOR LOAD, COMPILE, AND TEST
CIRC-AC REFERENCE MANUAL AND USERS GUIDE
        706112-11800
706112-26800
706112-36800
706112-74800
         901698
                                B3 SIGMA 5/7 RBM MOC HANDLER
-11A00 DESCRIPTION PRINTED
   706113AA
          706113-11A00
                                                                                                                           CES-34 DIAGNOSTIC PROGRAM
   706114AB
                                         B3 SIGMA 3
                                                                                       DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
RELOCATABLE BINARY CARDS
COMPRESSED CARDS
         706114-11A01
          706114-23A01
706114-24A01
          706114-44A01
                                                                                                                             7910 SIU HANDLER (EXT. PREC. FORTRAN)
    706115AA
                                          B3 S1GMA 2/3
                                                                                       DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
RELOCATABLE BINARY CARDS
SOURCE CARDS
           706115-11A00
          706115-23A00
706115-24A00
706115-34A00
```

```
706116AA
                  83 SIGMA 2/3
                                                     7910 SIU HANDLER (STD PREC FORTRAN)
                              DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
RELOCATABLE BINARY CARDS
     706116-11A00
     706116-23A00
     706116-24400
     706116-34A00
                                     SOURCE CARDS
     06117AB A1 SIGMA 5/6/7
706117-11800 DES
  706117AB
                                                   SL-1 TRANSLATOR (RBM VERSION)
    36118AB A1 SIGMA 5-9 SL-1 TRANSLATOR (BPM/BTM/UTS VERSION)
706118-1800 DESCRIPTION PRINTED
706118-26800 706118-26
706118-36600 706118-26 SOURCE MAG TAPE, 9 CHANNELS
706118-74800 CONTROL CARD DECKS FOR LOADING, TESTING, AND COMPILING SL-1
901676 SL-1 REFERENCE MANUAL FOR SIGMA 5/7 COMPUTERS
 70611848
 70611944
                 B3 SIGMA 5/6/7
                                                   PRINT/COPY UTILITY - ATACK
                        DESCRIPTION PRINTED
COMPRESSED CARDS
    706119-11A00
    706119-44A00
 706122AB
                 B3 S1GMA 5-9
                                                    TAPE FILE MANAGE PROCESSOR-TFM
                          DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS
    706122-11800
    706122-24800
    706122-44800
                B3 SIGMA 2/3 7969 SIU HANDL
IAOO DESCRIPTION PRINTED
HAOO RELOCATABLE BINARY CARDS
HAOO SOURCE CARDS
 706123AA
                                                   7969 SIU HANDLER (FORTRAN)
   706123-11A00
    706123-24A00
    706123-34400
706125AA 83
706125-11A00
                 B3 SIGMA 5/6/7
                                                   PBX11 TELEMETRY SYSTEM
                                    DESCRIPTION PRINTED
   8126AA 83 SIGMA 5-9 PAL-KHIC
706126-11A00 DESCRIPTION PRINTED
706126-3UA00 SOURCE CARDS
70612644
   706126-34A00 SOURCE CARDS
706126-51A00 706126-11 LISTING PRINTED
706127AA B3 SIGMA 5-9 METAKHIC

706127-11A00 DESCRIPTION PRINTED

706127-34A00 SOURCE CARDS

706127-44A00 COMPRESSED CARDS
   706127-34400 SOURCE CARDS
706127-44400 COMPRESSED CARDS
706127-51400 706127-11 LISTING PRINTED
706128AB
                B1 S1GMA 5/8/7
                                                   MULTIPLE TAPE COPY PROCESSOR
   706128-11800
                                   DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS
   706128-24800
   706128-44800
  706129AB
  08130AC A1 SIGMA 5-9 GENERAL PURPOSE DISCRETE SIMULATOR-GPDS
706130-11C00 DESCRIPTION PRINTED RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706130-74C00 TEST DECK TEST DECK
706130AC
                                   TEST DECK
```

706131AE

706131-84801 901878

BI SIGMA 8/9 GUIDE DIAGNOSTIC MONITOR
34801 ABSOLUTE BINARY CARDS
SIG 8/9 MAIN FRAME, MIOP AND MEMORY DIAG.-OPERATING INSTR.

706133AF B1 SIGMA 8/9 706133-11A05 706133-84A05

901878

CPU DIAGNOSTIC (AUTO)

DESCRIPTION PRINTED

ABSOLUTE BINARY CARDS

SIG 8/9 MAIN FRAME, MIOP AND MEMORY DIAG.-OPERATING INSTR.

706134AE B1 SIGMA 8/9

706134-11A05 706134-84A05

9 CPU DIAGNOSTIC (SUFFIX)
DESCRIPTION PRINTED
ABSOLUTE BINARY CARDS
SIG 8/9 MAIN FRAME, MIOP AND MEMORY DIAG.-OPERATING INSTR.

CPU DIAGNOSTIC (FLOAT) 706135AF B1 5 B1 S16MA 8/9

ABSOLUTE BINARY CARDS SIG 8/9 MAIN FRAME, MIOP AND MEMORY DIAG.-OPERATING INSTR.

706136AE 81 SIGMA 8/9

CPU DIAGNOSTIC (DECIMAL)
ABSOLUTE BINARY CARDS
SIG 8/9 MAIN FRAME, MIOP AND MEMORY DIAG.-OPERATING INSTR. 706136-84A04 901878

706137AG BI SIGMA 8/9

706137-11803 706137-84803

INTERRUPT/TRAP DIAGNOSTIC

DESCRIPTION PRINTED
ABSOLUTE BINARY CARDS
S10 8/9 MAIN FRAME, MIOP AND MEMORY DIAG.-OPERATING INSTR.

MAP AND WRITE LOCK-DIAGNOSTIC PROGRAM

06138AE 81 S10MA 8/9 706138-11A05 706138-84A05 DESCRIPTION PRINTED

ABSOLUTE BINARY CARDS SIG 8/9 MAIN FRAME, MIOP AND MEMORY DIAG.-OPERATING INSTR.

IOP TEST
ABSOLUTE BINARY CARDS 706139AF BI SIGMA 8/9

706139-84A06

SIG 8/9 MAIN FRAME, MIOP AND MEMORY DIAG.-OPERATING INSTR.

06140AE B1 SIGMA 8/9 MEMORY D1 706140-11A04 901878 DESCRIPTION PRINTED 706140-84A04 ABSOLUTE RINARY 0000 MEMORY DIAGNOSTIC - COMET

ABSOLUTE BINARY CARDS SIG 8/9 MAIN FRAME, MIOP AND MEMORY DIAG.-OPERATING INSTR. 901878

706142AD B1 SIGMA 8/9 POHER FAIL TOG142-11A03 DESCRIPTION PRINTED ABSOLUTE BINARY CARDS POWER FAIL SAFE DIAGNOSTIC

706143-11400 706143-24400 RELOCATABLE BINARY CARDS 706143-34400 SOURCE CARDS 7929 AND 7935 SIU HANDLER

/9 DIAGNOSTIC PROGRAM MAG TAPE LIBRARY
DESCRIPTION PRINTED
ABSOLUTE BINARY MAG TAPE, 9 CHANNELS B1 S1GMA 8/9

706144AG B1 706144-11600

706144-86600

9 7915/ADS 10 DIAGNOSTIC DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY CARDS 70614544

06145AA B1 SIGMA 5-9 706145-11A00

706145-44A00 706145-84A00

```
BI SIGMA 5/8/7 SUPER SHAP (102)
AGD ABSOLUTE BINARY CARDS
SUPER SHAP DIAGNOSTIC PROGRAMMING MANUAL
    706146AA
          706146-84A00
901808
    706147AA
                                           B3 SIGMA 3
                                                                                    SIGMA 3 - CFIB INTERCOMMUNICATION DEMO
DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY CARDS
          706147-11A00
706147-44A00
           706147-84A00
                                                                                                                           COMPRESSION UTILITY PROGRAM
   706148AA
                                           83 SIGMA 5-9
          706148-11A00
                                                               DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS
           706148-24400
          706148-44400
         ROM BSC PROCEDURAL HANDLER
706149-11C00 DESCRIPTION PRINTED
706149-24C00 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
706149-44C00 COMPRESSED CARDS
   706149AC
 706150AA B1 SIGMA 5/6/7 MONDUMP (COVER)
706150-46A00 705000-46 COMPRESSED MAG TAPE, 9 CHANNELS
706150-86A00 705000-86 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
706167AE B1 SIGMA 5-9 COMPREHENSIVE LINE FOR THE FORM OF THE PROPERTY OF THE P
        06168AC B1 SIGMA 2/3-530 COMPREHENSIVE LINE PRINTER TEST
706168-11A02 901755 DESCRIPTION PRINTED
706168-11A02 901755 LISTING PRINTED
706168-83A02 ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
706168-84A02 ABSOLUTE BINARY CARDS
 70616BAC
        901755
                                                                                     DIAGNOSTIC PROGRAM MANUAL-SIGMA 2/3 COMPREHENSIVE LP TEST
       06169AC B1 SIGMA 5-9
706169-11A04 901756
706169-51A04 901756
706169-74A02
 706169AC
                                                                                                                         COMPREHENSIVE CARD EQUIPMENT TEST
                                                                                 DESCRIPTION PRINTED
LISTING PRINTED
TEST DECK
ABSOLUTE BINARY CARDS
DIAGNOSTIC PROGRAM MANUAL-SIGMA 5/8/7/9 COMP.CARD EQUIP.TES
      706169-84A04
901756
      08170AC B1 SIGMA 2/3-530 COMPREHENSIVE CARD EQUIPMENT TEST 706170-11A02 901757 DESCRIPTION PRINTED TOST 106170-74A00 TEST DECK
706170AC
                                                                                    ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAGNOSTIC PROGRAM MANUAL-SIGMA 2/3 COMP. CARD EQUIP. TEST
      706170-83A02
706170-84A02
      901757
706171AA B3
706171-11A00
                                      B3 SIGMA 2/3
                                                                                                                        7929 SIU HANDLER (EXT PREC FORTRAN)
                                                                           DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
SOURCE CARDS
      706171-24A00
706171-34A00
                                                                                  7902 EXTENDED DEVICE SUBCONTROLLER DIAG. DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 8 LEVELS RELOCATABLE BINARY CARDS
706172AC
                                      B3 S1GMA 2/3
      706172-11800
706172-23800
       706172-24800
      706172-44800
                                                                                   COMPRESSED CARDS
```

```
B3 SIGMA 5/7 7902 EDSC DIAGNOSTIC

11A01 DESCRIPTION PRINTED

23A01 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS

24A01 RELOCATABLE BINARY CARDS

COMPRESSED CARDS
   706173-11A01
706173-23A01
    706173-24A01
706173-44A01
706200AE B1 SIGMA 8/9 HIGH-SPEED RAD 10P TEST 706200-11A04 901761 DESCRIPTION PRINTED ABSOLUTE BINARY CARDS
                                        . 5/6/7 TRANSMOG- EBCDIC BINARY FILE BUILD DESCRIPTION PRINTED COMPRESSED CARDS
                     B3 SIGMA 5/6/7
70620144
    706201-11A00
    706201-44400
706202AD B1 SIGMA 2/3-530 CC-32/33 DIAGNOSTIC PROGRAM
706202-11801 DESCRIPTION PRINTED
706202-56801 SOURCE MAG TAPE, 9 CHANNELS
706202-61802 UPDATE INSTRUCTIONS PRINTED
706202-64802 UPDATE ON CARDS
706202-84802 ABSOLUTE BINARY CARDS
706203AA B3 SIGMA 5-9 RADIATION F
706203-11A00 DESCRIPTION PRINTED
706203-84A00 COMPRESSED CARDS
ABSOLUTE BINARY CARDS
                                                                     RADIATION PCM TEST
706204AA B3 SIGMA 5-9 OSO PCM TEST 706204-11A00 DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY CARDS
706205AB B3 SIGMA 5-9 CART-3 CHECK-OUT AID READINESS 706205-11800 DESCRIPTION PRINTED COMPRESSED CARDS 706205-84800 ABSOLUTE BINARY CARDS
    16206AA B1 SIOMA 5-9 BPH/BTM PCL (PERIPHERAL CO
706206-11A00 900954E DESCRIPTION PRINTED
706206-46A00 705000-46 COMPRESSED MAG TAPE, 9 CHANNELS
706206-86A00 705000-86 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
                                                                      BPM/BTM PCL (PERIPHERAL CONV. LANGUAGE)
                                                                     STAND-ALONE VOLUME INITIALIZER-VOLINIT
706226AE B1 SIGMA 5-9 STAND-ALONE VO

706226-11000 DESCRIPTION PRINTED

706226-44000 RELOCATABLE BINARY CARDS

706226-44000 COMPRESSED CARDS
 706227AA B3 SIGMA 5/7 CONTACT CLOSURE HANDLER 706227-11A00 DESCRIPTION PRINTED
                       B3 SIGMA 5/7 HANDLER FOR TUNABLE OSCILLATOR (VCO)
A00 DESCRIPTION PRINTED
 70622844
     706228-11A00
 706229AA 83 SIGMA 5/7 DMS-12 DAC HANDLER
706229-11A00 DESCRIPTION PRINTED
                                                                     DHS 12 DIAGNOSTIC PROGRAM
                       83 SIGMA 5/7
 706230AC
     18230AC 83 $1GMA 5/7
706230-11A02 DESCRIPTION PRINTED
706230-44A02 COMPRESSED CARDS
706230-84A02 ABSOLUTE BINARY CARDS
```

706231AA B3 SIGMA 5/7 ADC HIGH LEVEL ROUTINES (ADCHIGH) 706231-11A00 DESCRIPTION PRINTED

706232AB B3 SIGMA 5/7 ADC LOH LEVEL ROUTINES (ADCLOH) TO6232-11A01 DESCRIPTION PRINTED

706233AA B3 SIGMA 5/7 DATA RETRIEVAL SUBROUTINES 706233-11A00 DESCRIPTION PRINTED

706234AA B3 SIGMA 5-9 ARDS DISPLAY TEST
706234-11A00 DESCRIPTION PRINTED
706234-44A00 COMPRESSED CARDS
706234-84A00 ABSOLUTE BINARY CARDS

706235AA B3 SIGMA 5-9 TIME CODE TRANSLATOR TEST 706235-14A00 DESCRIPTION PRINTED 706235-44A00 COMPRESSED CARDS 706235-84A00 ABSOLUTE BINARY CARDS

.706236AE BI SIGMA 5-9 SYSTEM KEYBOARD DISPLAY (SKD) DIAGNOSTIC 706236-11E00 DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY CARDS

. 706237AA B3 SIGMA 5/7 TIME CODE SYSTEM HANDLER (TCSH) 706237-11A00 DESCRIPTION PRINTED

706238AA B3 SIGMA 2/3 SIGMA 3 - CF18 INTERCOMMUNICATION DEMO 706238-11A00 DESCRIPTION PRINTED 706238-24A00 RELOCATABLE BINARY CARDS 706238-44A00 COMPRESSED CARDS

706239AA B3 SIGMA 2/3 RECON COMPRESSED TO SYMBOLIC CONVERTER
706239-11A00 DESCRIPTION PRINTED
706239-24A00 RELOCATABLE BINARY CARDS
706239-34A00 SOURCE CARDS

706241-11A00 706241-24A00 CESCRIPTION PRINTED RECONS/A COMPRESSED TO SYMBOLIC CONVER.

OESCRIPTION PRINTED RELOCATABLE BINARY CARDS
SOURCE CARDS

706242AA B3 SIGMA 5-9
706242-11800
706242-26800
706242-46800
706242-46800
706242-76800
706242-76800
706242-26
706242-76800

706244-A BI SIOMA 2/3 SIGMA 2/3 CO1/D00 SAVE PROGRAM 706244-11A00 DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 8 LEVELS RELOCATABLE BINARY CARDS

706245-11A00 SIGMA 2/3 SYMBOLIC COMPRESSOR FOR STAND-ALONE DESCRIPTION PRINTED RELOCATABLE BINARY CARDS COMPRESSED CARDS

706246AA B3 SIGMA 2/3 SYMBOLIC COMPRESSOR FOR RBM/BCM 706246-11AO0 DESCRIPTION PRINTED RELOCATABLE BINARY CARDS COMPRESSED CARDS

706247AA BI SIGMA 5-9 TEST FILE GENERATOR (TGEN)
706247-11A00 DESCRIPTION PRINTED
706247-24A00 RELOCATABLE BINARY CARDS
706247-44A00 COMPRESSED CARDS

706249AE BI SIGMA 5-9 ROTATING MEMORY TEST PROGRAM - RMC
706249-11800 901998 DESCRIPTION PRINTED
706249-84800 ABSOLUTE BINARY CARDS
901998 SIGMA 5-9 ROTATING MEMORY TEST DIAGNOSTIC PROGRAMMING MANUA

706252AB B3 SIGMA 2/3 TELETYPE TERMINAL SIMULATOR PROGRAMS
706252-11800 DESCRIPTION PRINTED
706252-36800 SOURCE MAG TAPE, 9 CHANNELS

706253-AA A1 SIGMA 5/8/7 CIRC-TRANSIENT
706253-11A00 DESCRIPTION PRINTED
706253-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706253-36A00 SOURCE MAG TAPE, 9 CHANNELS
706253-74A00 CONTROL CARD DECKS FOR LOAD, COMPILE, AND TEST
901786 CIRC-TRANSIENT REFERENCE MANUAL AND USERS GUIDE

706254AA BI SIGMA 2/3 XEROX DISPLAY STATION PROCEDURAL HANDLER
706254-11A00 DESCRIPTION PRINTED
706254-24A00 RELOCATABLE BINARY CARDS
706254-44A00 COMPRESSED CARDS

706255-11800 706255-34800 COMPLET SOURCE CARDS SOURCE CARDS SOURCE MANUELS SOURCE MANUELS SOURCE MANUELS SOURCE MANUELS SOURCE MAG TAPE, 9 CHANNELS

706257-C B1 S1GMA 2/3-530 XEROX 530 DISK SORT
706257-11800 DESCRIPTION PRINTED
706257-24801 880816-06 RELOCATABLE BINARY CARDS
706257-26801 880816-06 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706257-36801 SOURCE MAG TAPE, 9 CHANNELS
901787 XEROX SIGMA 3 DISK SORT REFERENCE MANUAL

706259AB B1 SIGMA 5-9 RBM/BPM HANDLER FOR MOCD'S 706259-11A01 DESCRIPTION PRINTED COMPRESSED CARDS

706262AA B1 SIGMA 3
706262-11A00 901871
706262-83A00
706262-84A00
901871

7580 GRAPHIC DISPLAY DIAGNOSTIC
DESCRIPTION PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
DIAGNOSTIC PROGRAM MANUAL 7580 GRAPHIC DISPLAY DIAGNOSTIC

706263AC BI SIGMA 5-9 XEROX DISPLAY STATION PROCEDURAL HANDLER
706263-11A02 DESCRIPTION PRINTED
706263-44A02 COMPRESSED CARDS

```
706264-AD B1 SIGMA 8/9 CPU HARD CORE PREP (HCP)
706264-11A03 901874 DESCRIPTION PRINTED
706264-84A03 ABSOLUTE BINARY CARDS
901874 SIGMA 8/9 - CPU HARD CORE PREP
```

706267AA B1 SIGMA 8/9 REMOTE GUIDE 706267-74A00 706267-84 BIAS/RELOCATION DECK 706267-84A00 ABSOLUTE BINARY CARDS

706271AB B1 SIGMA 5/6/7 PORT TEST CO1 706271-11C01 DESCRIPTION PRINTED 706271-24C01 RELOCATABLE BINARY CARDS 706271-44C01 COMPRESSED CARDS

706275AB B1 SIGMA 2/3-530 RBM REPLACE 706275-11F00 705368-11 DESCRIPTION PRINTED

706277AC B1 SIGMA 2/3-530 ANS FORTRAN IV
706277-11C00 DESCRIPTION PRINTED
706277-28C00 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
706277-28C00 RELOCATABLE BINARY CARDS
706277-48C00 706277-26 COMPRESSED MAG TAPE, 9 CHANNELS
706277-73C00 706277-23 TEST CASE ON PAPER TAPE
706277-74C00 706277-24 TEST CASE ON CARD DECK
706277-76C00 706277-26 TEST CASE ON MAG TAPE

706280AA B1 S1GMA 6/7/9 SYSTEM SAVE/RESTORE PROGRAM
706280-11A00 DESCRIPTION PRINTED
706280-44A00 COMPRESSED CARDS
706280-84A00 ABSOLUTE BINARY CARDS

706292AB B3 SIGMA 5-9 BASIC CONCORDANCE DESCRIPTION PRINTED RELOCATABLE BINARY CARDS SOURCE CARDS

706295AA B1 SIGMA 8/9 MEMORY DIAGNOSTIC - COM16 706295-84400 ABSOLUTE BINARY CARDS

706296AA B1 SIGMA 5-9 BPM/BTM FAST SAVE 706296-11A00 DESCRIPTION PRINTED 706296-44A00 COMPRESSED CARDS

706401AD B1 SIGMA 2/3-530 XEROX REPORT PROGRAM GENERATOR (RPG II)
706401-11C00 DESCRIPTION PRINTED
706401-24C01 880816-06 RELOCATABLE BINARY CARDS
706401-26C01 880816-06 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706401-36C01 SOURCE MAG TAPE, 9 CHANNELS
901841 XEROX REPORT PROGRAM GENERATOR (RPG II) REF. MAN.

706410AC B1 SIGMA 5-9 MAGNETIC TAPE LIBRARY LOADER 706410-11A02 705692-11 DESCRIPTION PRINTED 706410-84A02 ABSOLUTE BINARY CARDS

706411A B1 SIGMA 5-9 OPTICAL CHARACTER PRINTER TEST PROGRAM
706411-83A00 ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
706411-84A00 ABSOLUTE BINARY CARDS

```
06412AC B1 *******UNDEFINED***** TEXT
0706412-11A02 DESCRIPTION PRINTED
706412-26A02 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706412-61A02 706412-11 UPDATE INSTRUCTIONS PRINTED
706412-71A02 706412-11 TEST DESCRIPTION PRINTED
706412-76A02 706412-26 SYSGEN AND LOAD FILES ON TAPE
706412AC
                                                                                                                                                     9-CHANNEL POTTER MAGNETIC TAPE TEST
 706417AB
                                                B1 SIGMA 2/3-530
        706417-84801 ABSOLUTE BINARY CARDS
        | XEROX REPORT PROGRAM GENERATOR (RPG) | TO6419-11800 | DESCRIPTION PRINTED | RELOCATABLE BINARY MAG TAPE, 9 CHANNELS | TO6419-1800 | TO6419-1800 | TO6419-1800 | TO6419-11 | TEST DESCRIPTION | TO6419-76800 | TO6419-26 | TEST PROGRAM ON MAG TAPE | SEROX REPORT PROGRAM GENERATOR (RPG) | TO6419-26 | TEST PROGRAM ON MAG TAPE | XEROX REPORT PROGRAM GENERATOR (RPG)
 706419AB
        08424AC B1 SIGMA 5-9 REMOVABLE DISK STORAGE TEST
706424-11C01 DESCRIPTION PRINTED
706424-51C01 903052 LISTING PRINTED
706424-84C01 B1NARY CARDS
903052 SIGMA 5-9 REMOVABLE DISK TEST DIAG. REF. MANUAL
                                                                                                                                                     REMOVABLE DISK STORAGE TEST
 706424AC
        06433AA B1 SIGMA 6/7/9 XEROX UTS/EASY

706433-11A00 DESCRIPTION PRINTED

706433-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS

706433-76A00 706433-26 COMPRESSED MAG TAPE, 9 CHANNELS

706433-76A00 706433-26 TEST PROGRAM

706433-86A00 706433-26 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
 706433AA
         | XEROX APL | TOGH34-11800 | DESCRIPTION PRINTED | RELOCATABLE BINARY MAG TAPE, 9 CHANNELS | TOGH34-76800 | TOGH34-26 COMPRESSED MAG TAPE, 9 CHANNELS | TOGH34-76800 | TOGH34-26 TEST PROGRAM ON MAG TAPE | TOGH34-86800 | TOGH34-26 | ABSOLUTE BINARY MAG TAPE, 9 CHANNELS | TOGH34-86800 | TOGH34-26 | ABSOLUTE BINARY MAG TAPE, 9 CHANNELS | TOGH34-86800 | TOGH34-26 | ABSOLUTE BINARY MAG TAPE, 9 CHANNELS | TOGH34-86800 | TOGH34-26 | ABSOLUTE BINARY MAG TAPE, 9 CHANNELS | TOGH34-86800 | TOGH34-26 | TOGH34-26 | TOGH34-86800 | TOGH34-26 | TOGH34-26
 706434AC
         08436AA B1 SIGMA 6-9 ON-LINE COMPUTER CENTER SUBSYSTEM CCS

706436-11800 DESCRIPTION PRINTED

706436-26800 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS

706436-86800 706436-26 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
                                                                                                      SCU INTERPRETER
DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS
   706437AC
                                                83 SIGMA 5-9
            706437-11C00
           706437-24000
                                                                                                                                                          VARIAN MULTISTYLUS DIAGNOSTIC
                                               B3 SIGMA 5
   706438AA
                                                                                                           DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS
            706438-11A00
706438-24A00
            706438-44400
                                                                                                                                                          PANAVIA DIAGNOSTIC UTILITY
                                                  B3 SIGMA 5/7
   706439AA B3
706439-11A00
                                                                                                          DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS
            706439-24A00
706439-44A00
                                                   B3 SIGMA 5/7 TAPE MOLITOR -
A00 DESCRIPTION PRINTED
A00 RELOCATABLE BINARY CARDS
A00 COMPRESSED CARDS
                                                                                                                                                            TAPE MOTION - TIME CONTROL DIAGNOSTIC
    706440AA
```

706440-11A00 706440-24A00 706440-44A00

706441-11A00 DESCRIPTION PRINTED
706441-24A00 RELOCATABLE BINARY CARDS
706441-44A00 COMPRESSED CARDS

706442A B3 SIGMA 5/7
706442-11A00
706442-24A00
706442-44A00
706442-44A00
706442-A4A00
706442-A4A00
706442-A4A00
706442-A4A00
706442-A4A00
706442-A4A00

706443AA B1 SIGMA 5-9 COPY PROGRAM MAG TAPE TO DISK 706443-11A00 DESCRIPTION PRINTED ABSOLUTE BINARY CARDS

706447AA B3 SIGMA 2/3 PARAMETER PREPARATION ROUTINE (PPR)
706447-24A00 DESCRIPTION PRINTED
706447-24A00 RELOCATABLE BINARY CARDS
50URCE CARDS

706448AA B1 SIGMA 2/3 INDUMP
706448-11A00 DESCRIPTION PRINTED
706448-34A00 RELOCATABLE BINARY CARDS
706448-36A00 706448-36

708449A B3 SIGMA 2/3 PAPER TAPE DUPLICATOR/VERIFIER
706449-11A00 DESCRIPTION PRINTED
706449-23A00 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
706449-24A00 RELOCATABLE BINARY CARDS
706449-44A00 COMPRESSED CARDS

706450AC BI SIGMA 5-9 META-SYMBOL PROCEDURE DECK FOR SCU 706450-11801 DESCRIPTION PRINTED 706450-44801 COMPRESSED CARDS

706451AA B3 SIGMA 2/3 TMS09B/XPS97 DIAGNOSTIC 706451-11A00 DESCRIPTION PRINTED 706451-44A00 COMPRESSED CARDS 706451-84A00 ABSOLUTE BINARY CARDS

706454AA B3 SIGMA 7/9 RELIABILITY PREDICTION CREATE/UPDATE
706454-11A00 DESCRIPTION PRINTED
706454-24A00 RELOCATABLE BINARY CARDS
706454-34A00 SOURCE CARDS

708455-AA B3 SIGMA 7/9 RELIABILITY PREDICTION CALCULATION 706455-11A00 DESCRIPTION PRINTED RELOCATABLE BINARY CARDS SOURCE CARDS

706456AA B3 SIGMA 7/8 RELIABILITY PREDICTION REPORT GENERATOR
706456-11A00 DESCRIPTION PRINTED
706456-24A00 RELOCATABLE BINARY CARDS
706456-34A00 SOURCE CARDS

706457AA B3 SIGMA 7/9 RECOMMENDED SPARES 706457-11A00 DESCRIPTION PRINTED 706457-24A00 RELOCATABLE BINARY CARDS 706457-34A00 SOURCE CARDS

```
06459AC B1 SIGMA 5-9 XEROX ASSEMBLY PROGRAM (AP)
706459-11800 DESCRIPTION PRINTED
706459-26800 RELOCATABLE BINARY CARDS
706459-46800 706459-24 COMPRESSED CARDS
706459-74800 706459-26 COMPRESSED MAG TAPE, 9 CHANNELS
706459-76800 706459-24 TEST PROGRAM
706459-76800 706459-25 TEST PROGRAM
706459-76800 706459-26 TEST PROGRAM
706459AC B1
706459-11800
                                                                                                                  XEROX ASSEMBLY PROGRAM LANGUAGE AND OPERATION MANUAL
        06461AB A1 SIGMA 6-9/550/560 XEROX DATA MANAGEMENT SYSTEM - EXTENDED
706461-11800 DESCRIPTION PRINTED
706461-26800 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706461-61800 706461-11 UPDATE INSTRUCTIONS PRINTED
706461-71800 706461-11 TEST PROGRAM DESCRIPTION
706461-76800 706461-26 TEST PROGRAM SOURCE FILE
706461AB
                                                      B3 SIGMA 2/3-530
                                                                                                                                                                     POTTER 3000/3300 PRINTER DIAGNOSTIC
                                                                                                                  DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
           706462-11800
706462-44800
           706462-83800
           706462-84800
706463AB B1 XEROX 530 ANS FORTRAN IV
706463-11C00 PESCRIPTION PRINTED
706463-23C00 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
706463-26C00 RELOCATABLE BINARY CARDS
706463-48C00 706453-26 COMPRESSED MAG TAPE, 9 CHANNELS
706463-73C00 706463-23 TEST ON CARDS
706463-76C00 706463-25 TEST ON MAG TAPE
 706464AA 81 SIGMA 2/3-530 RBM ANAL
706464-11F00 705368-11 DESCRIPTION PRINTED
          | DESCRIPTION PRINTED | TO6466-26A00 | TO6466-11A00 | DESCRIPTION PRINTED | TO6466-46A00 | TO6466-26A00 | TO6466-46A00 | TO6466-11A00 | TO6466-26A00 | TEST PROGRAM DESCRIPTION | TO6466-26A00 | TEST PROGRAM SOURCE FILE | TEST PRO
  706467AA B3 SIGMA 5-9 RBM ERROR LOG LISTER
706467-11A00 DESCRIPTION PRINTED
706467-24A00 RELOCATABLE BINARY CARDS
                                                        B3 SIGMA 2/3 7907 CLOSED LOOP DIAGNOSTIC
ADD DESCRIPTION PRINTED
ADD COMPRESSED CARDS
ABSOLUTE BINARY CARDS
   706468AA
           706468-11A00
706468-44A00
            706468-84A00
                                                                                                                                                                        7907 DIAGNOSTIC PROGRAM
    706469AB
                                                        B3 S1GMA 5-9
                                                                                                                    DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY CARDS
             706469-11A01
             705469-44400
              706469-84400
                                                                                                                  7908 CLOSED LOOP DIAGNOSTIC
DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY CARDS
    706470AA
                                                     B3 SIGMA 2/3
             706470-11A00
706470-44A00
              706470-84A00
```

706471AC B3 SIGMA 5-9
706471-11A02
706471-44A02
706471-44A02
ABSOLUTE BINARY CARDS 2230/2470 LINE PRINTER DIAGNOSTIC

706472-11400 DESCRIPTION PRINTED 706472-84A00 ABSOLUTE BINARY CARDS

706473AB

706476AB B3 SIGMA 2/3-530 2230/2440 LINE PRINTER
706476-11A00 DESCRIPTION PRINTED
706476-44A01 COMPRESSED CARDS
706476-61A01 UPDATE INSTRUCTIONS PRINTED
706476-84A01 ABSOLUTE BINARY CARDS

06477AA B1 SIGMA 2/3-530 EXERCISER CONTROL PROGRAM
706477-11A00 DESCRIPTION PRINTED
706477-84A00 ABSOLUTE BINARY CARDS

06478AA B1 SIGMA 2/3-530 CARD READER 706478-11A00 DESCRIPTION PRINTED 706478-74A00 TEST DATA DECK 706478-84A00 ABSOLUTE BINARY CARDS 70647844 CARD READER/CARD PUNCH EXERCISER

B1 SIGMA 2/3-530 LINE PRINTER EXERCISER
1A00 DESCRIPTION PRINTED
4A00 ABSOLUTE BINARY CARDS 706479AA 706479-11A00 706479-84A00

06480AA B1 SIGMA 2/3-530 MAGNETIC TAPE EXERCISER 706480-11A00 DESCRIPTION PRINTED 70648044 706480-84400 ABSOLUTE BINARY CARDS

706481-8 B1 SIGMA 2/3-530 ERROR LOG LIST/ANALYSIS PROGRAM
706481-11A00 DESCRIPTION PRINTED
706481-61A01 UPDATE INSTRUCTIONS PRINTED
706481-84A01 ABSOLUTE BINARY CARDS

706482AA B1 SIGMA 2/3-530 CONTROL PROGRAM FOR ELLA 530 706482-11A00 DESCRIPTION PRINTED 706482-84A00 ABSOLUTE BINARY CARDS

706483AA BI SIGMA 2/3-530 CHRONOLOGICAL LIST. MODULE FOR ELLA 536 706483-11A00 DESCRIPTION PRINTED 706483-84A00 ABSOLUTE BINARY CARDS

706484AB BI SIGMA 2/3-530 BOUNDART ROUTING
706484-11A00 DESCRIPTION PRINTED
706484-61A01 UPDATE INSTRUCTIONS PRINTED
706484-84A01 ABSOLUTE BINARY CARDS BOUNDARY ROUTINE FOR ELLA 530

06485AA B1 SIGMA 2/3-530 GRAPHICAL DISPLAY MODULE FOR ELLA 530 706485-11400 DESCRIPTION PRINTED 706485-84400 ABSOLUTE BINARY CARDS 70648544

```
8486AA B1 SIGMA 2/3-530 SUMMARY MOD
706486-11A00 DESCRIPTION PRINTED
706486-84A00 ABSOLUTE BINARY CARDS
                                                                   SUMMARY MODULE FOR ELLA 530
   08487AA B1 SIGMA 2/3-530 SORTED LISTING MODULE FOR ELLA 530
708487-11A00 DESCRIPTION PRINTED
708487-84A00 ABSOLUTE BINARY CARDS
                     BI SIGMA 2/3-530 ON-LINE EXERCISER SYSTEM
1A00 DESCRIPTION PRINTED
1A00 TEST DATA DECK
1A00 ABSOLUTE BINARY CARDS
70648844
    706488-11A00
706488-74A00
    706488-84A00
    06489AA B3 SIGMA 6/7/9 SCU LINKING LOADER
706489-11A00 DESCRIPTION PRINTED
706489-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706489-36A00 706489-26 SOURCE MAG TAPE, 9 CHANNELS
706491AA B1 SIGMA 3-530 XEROX SATELLITE PROCESSOR
706491-11A00 DESCRIPTION PRINTED
706491-24A00 RELOCATABLE BINARY CARDS
706491-26A00 706491-26 COMPRESSED MAG TAPE, 9 CHANNELS
                                                                     XEROX SATELLITE PROCESSOR
    6495AA 81 SIGMA 6-9/550/560 SORT PERFORMANCE JOB STREAM FOR CP-V
706495-11A00 DESCRIPTION PRINTED
706495-24A00 RELOCATABLE BINARY CARDS
70649544
    706499AA 83 SIGMA 8-9
706499-11A00
706499-44A00
706499-84A00
706499-84A00
ABSOLUTE BINARY CARDS
706500AB B1 SIGMA 3-530 XEROX 530 ANS COBOL COMPILER
706500-11A00 DESCRIPTION PRINTED
706500-24A01 880816-06 RELOCATABLE BINARY CARDS
706500-26A01 880816-06 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706500-36A01 706500-11 TEST PROGRAM DESCRIPTION
903090 YEROX ANS COBOL (FOR RBM) LANGUAGE AND OPERATIONS MANUAL
                       B3 SIGMA 2/3-530 RBM-16 DATADEF
A00 DESCRIPTION PRINTED
A000 SOURCE CARDS
A000 SOURCE MAG TAPE, 9 CHANNELS
 706501AA B3
706501-11A00
```

B3 S1GMA 6/7/9 BOOK DESCRIPTION PRINTED
SOURCE MAG TAPE, 9 CHANNELS
LISTING PRINTED 706504-11A01 706504-36A01 706504-51A01

706501-34A00 706501-36A00

```
070000AD B1 SIGMA 6-9/550/560 CONTROL PROGRAM FIVE CP-V
707000-02C00 UNPUBLISHED TECHNICAL DOCUMENT
707000-11C00 DESCRIPTION PRINTED
707000-26C00 RELOCATABLE BINARY MAO TAPE, 9 CHANNELS
707000-96C00 707000-26 COMPRESSED MAG TAPE, 9 CHANNELS
707000-76C00 TO7000-26 UPDATE ON MAG TAPE, 9 CHANNELS
707000-86C00 ABSOLUTE BINARY MAO TAPE, 9 CHANNELS
707000-86C00 ABSOLUTE BINARY MAO TAPE, 9 CHANNELS
707000-91C00 REFERENCE MANUAL UPDATES PRINTED
707000-91C00 REFERENCE MANUAL
707000-91C00 CP-V TS REFERENCE MANUAL
701674 CP-V WSR REFERENCE MANUAL
701692 CP-V USERS' GUIDE
701764 CP-V BATABASE TECH MANUAL
701995 CP-V DATABASE TECH MANUAL
  707000AD
                                                        CP-V BM REFERENCE MANUAL
CP-V DATABASE TECH MANUAL
CP-V REMOTE PROCESSING MANUAL
CP-V TRANSACTION PROCESSING REFERENCE MANUAL
CP-V SYSTEM PROGRAMMERS REFERENCE MANUAL
      901995
      903026
      903112
     08000AC B1 ******UNDEFINED**** CONTROL PROGRAM FOR REAL-TIME (CP-R)
0708000-11C00 DESCRIPTION PRINTED
0708000-46C00 COMPRESSED MAG TAPE, 9 CHANNELS
0708000-86C00 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
093085 XEROX SIGMA 9 CP-R REFERENCE MANUAL
093086 XEROX SIGMA 9 CP-R OPERATIONS MANUAL
0903087 XEROX SIGMA 9 CP-R USER'S GUIDE
0903088 XEROX SIGMA 9 CP-R TECHNICAL MANUAL
0903110 XEROX SIGMA 9 CP-R AVAILABILITY MANUAL
  708000AC
 708001AA
                          B1 SIGMA 5-9/550/580
                                                                               ON-LINE EXERCISER SYSTEM FOR CP-R
    708001-11A00
708001-74A00
                                                    DESCRIPTION PRINTED
                                                        TEST DATA DECK
ABSOLUTE BINARY CARDS
     708001-84A00
     8002AA B1 SIGMA 5-9/550/560 EXERCISER (
708002-11A00 DESCRIPTION PRINTED
708002-84A00 ABSOLUTE BINARY CARDS
708002AA
                                                                              EXERCISER CONTROL PROGRAM FOR CP-R
 708003AA
                      B1 SIGMA 5-9/550/560
                                                                               CARD READER/CARD PUNCH EXERCISER (CP-R)
                                              DESCRIPTION PRINTED
    708003-11A00
708003-74A00
                                                       TEST DATA DECK
ABSOLUTE BINARY CARDS
     708003-84A00
708004AA B1 SIGMA 5-9/550/560
708004-11A00 DESCRIPT
                                                                               LINE PRINTER EXERCISER FOR CP-R
                                                      DESCRIPTION PRINTED
ABSOLUTE BINARY CARDS
     708004-84400
                                                5-9/550/560 MAGNETIC TAPE EXERCISER FOR CP-R
DESCRIPTION PRINTED
                        B1 SIGMA 5-9/550/560
    708005-11A00
708005-84A00
                                                       ABSOLUTE BINARY CARDS
                                             5-9/550/560 CP-V/CP-R ERROR LOG LIST/ANALYSIS (ELLA)
DESCRIPTION PRINTED
708006AA
                       B1 SIGMA 5-9/550/560
    708006-11A00
708006-84A00
                                                       ABSOLUTE BINARY CARDS
    8007AA B1 SIGMA 5-9/550/560
708007-11A00 DESCRIPT
708007-84A00 ABSOLUTE
708007AA
                                                     9/550/560 CP-V/CP-R-CONTROL PROGRAM FOR ELLA DESCRIPTION PRINTED
                                                       ABSOLUTE BINARY CARDS
    0800BAA B1 SIGMA 5-9/550/560 CP-V/CP-R-CHRONOLOGICAL/SORTED LIST MOD
708008-11A00 DESCRIPTION PRINTED
708008-84A00 ABSOLUTE BINARY ACCORD
70800RAA
```

708009AA B1 SIGMA 5-9/550/560 CP-V/CP-R-BOUNDARY MODULE FOR ELLA
708009-11A00 DESCRIPTION PRINTED
708009-84A00 ABSOLUTE BINARY CARDS

708010AA B1 SIGMA 5-9/550/560 CP-V/CP-R-ERROR SUMMARY MODULE FOR ELLA 708010-11A00 DESCRIPTION PRINTED ABSOLUTE BINARY CARDS

708011AA B1 SIGMA 5-9/550/560 CP-V/CP-R-GRAPHICAL DISPLAY MODULE ELLA 708011-11A00 DESCRIPTION PRINTED 708011-84A00 ABSOLUTE BINARY CARDS

720000AB B1 SIGMA 2/3-530 XEROX DIAG.PROG. LOADER (18-BIT MACHINE)
720000-11AD0 DESCRIPTION PRINTED
720000-61A01 UPDATE INSTRUCTIONS PRINTED
720000-84A01 ABSOLUTE BINARY CARDS

720001AB B1 XEROX 530 HARDCORE MEMORY DIAGNOSTIC
720001-11A00 DESCRIPTION PRINTED
720001-81A01 UPDATE INSTRUCTIONS PRINTED
ABSOLUTE BINARY CARDS

720002AA B1 XEROX 530 MEMORY DIAGNOSTIC 720002-11A00 DESCRIPTION PRINTED ABSOLUTE BINARY CARDS

720004AC B1 XEROX 530 DIAGNOSTIC PROGRAM MONITOR
720004-11A01 DESCRIPTION PRINTED
720004-61A02 UPDATE INSTRUCTIONS PRINTED
ABSOLUTE BINARY CARDS

720005AA B1 XEROX 530 INSTRUCTION DIAGNOSTIC 720005-11A00 DESCRIPTION PRINTED ABSOLUTE BINARY CARDS

720007AA B1 XEROX 530 IOP DIAGNOSTIC 720007-11A00 DESCRIPTION PRINTED 720007-84A00 ABSOLUTE BINARY CARDS

720009AC B1 XEROX 530 XEROX DIAG. PROG. MAG TAPE LIB. (16-BIT)
720009-11C00 DESCRIPTION PRINTED
720009-86C00 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS

720010AC 81 SIGMA 2/3-530 XEROX SOFTHARE HARDCORE TEST (18-81T)
720010-11800 DESCRIPTION PRINTED
720010-61801 UPDATE INSTRUCTIONS PRINTED
720010-83801 ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
720010-84801 ABSOLUTE BINARY CARDS

 720012AA B1 XEROX 530 CPU OPTIONAL INSTRUCTION DIAGNOSTIC 720012-11A00 DESCRIPTION PRINTED ABSOLUTE BINARY CARDS

720013-0 B1 XEROX 530 MANUAL CONTROL DIAGNOSTIC
720013-11A01 DESCRIPTION PRINTED
1720013-61A02 UPDATE INSTRUCTIONS PRINTED
1720013-61A03 UPDATE INSTRUCTIONS PRINTED
1720013-84A03 ABSOLUTE BINARY CARDS

720014AC BI SIGMA 3-530 SYSTEMS EXERCISER (SYSX)
720014-11A02 DESCRIPTION PRINTED
720014-84A02 ABSOLUTE BINARY CARDS

720015AA B1 SIGMA 3-530 DPS LOAD AND GO (LAG) PROCESSOR 720015-11AOO DESCRIPTION PRINTED 720015-84AOO ABSOLUTE BINARY CARDS

720016AA B1 SIGMA 3-530 DIAGNOSTIC PROGRAM SYSTEM MONITOR
720016-11A00 DESCRIPTION PRINTED
720016-84A00 ABSOLUTE BINARY CARDS

720020AA B1 XEROX 530 NS LINE PRINTER DIAGNOSTIC PROGRAM
720020-11A00 DESCRIPTION PRINTED
720020-84A00 ABSOLUTE BINARY CARDS

720021AA B1 XEROX 530 BRANCH DATA ENTRY SYSTEMS EXERCISER
720021-11A00 DESCRIPTION PRINTED
720021-84A00 ABSOLUTE BINARY CARDS

720022AB B2 XEROX 530 XEROX COIN-X530 DIAG. PROGRAM LIBRARY
720022-11800 DESCRIPTION PRINTED
720022-56800 LISTING MAG TAPE, 9 CHANNELS
720022-86800 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS

720023AB B2 XEROX 530 XEROX COIN-X530 DIAG. PROG. LIB. CONTROL 720023-11800 720022-11 DESCRIPTION PRINTED 720023-56800 720022-56 LISTING MAG TAPE, 9 CHANNELS 720023-86800 720022-86 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS

730000AA B1 XEROX 550/560 INSTRUCTION DIAGNOSTIC - AUTO 730000-11A00 DESCRIPTION PRINTED ABSOLUTE BINARY CARDS

730001AA B1 XEROX 550/560 INSTRUCTION DIAGNOSTIC - SUFFIX 730001-11A00 DESCRIPTION PRINTED ABSOLUTE BINARY CARDS

730002AA B1 XEROX 550/560 INSTRUCTION DIAGNOSTIC - FADS 730002-11A00 DESCRIPTION PRINTED 730002-84A00 ABSOLUTE BINARY CARDS

730003AA BI XEROX 550/560 MEMORY DIAGNOSTIC PROGRAM 730003-11A00 DESCRIPTION PRINTED 730003-84A00 ABSOLUTE BINARY CARDS 730004AA BI XEROX 550/560 MAP DIAGNOSTIC PROGRAM 730004-11A00 DESCRIPTION PRINTED 730004-84A00 ABSOLUTE BINARY CARDS

730005AA B1 XEROX 550/560 MIOP DIAGNOSTIC PROGRAM 730005-11400 DESCRIPTION PRINTED 730005-84400 ABSOLUTE BINARY CARDS

730006AA B1 XEROX 550/560 INTERRUPT SYSTEM DIAGNOSTIC PROGRAM 730006-11A00 DESCRIPTION PRINTED 730006-84A00 ABSOLUTE BINARY CARDS

730008AA BI XEROX 550/560 SOFTHARE HARDCORE (SHC) DIAGNOSTIC 730008-11400 DESCRIPTION PRINTED ABSOLUTE BINARY CARDS

730009AA B1 XEROX 550/560 SYS UNIT/PROCS INTRFACE UNIT DIAG-SUP1 730009-11A00 DESCRIPTION PRINTED 730009-84A00 ABSOLUTE BINARY CARDS

730010AA B1 XEROX 550/560 SYSTEM EXERCISER DIAGNOSTIC (SYSX)
730010-11A00 DESCRIPTION PRINTED
730010-84A00 ABSOLUTE BINARY CARDS

730011AA B1 XEROX 550/560 XEROX 32-BIT LIBRARY LOADER 730011-11A00 DESCRIPTION PRINTED

730012AA B1 XEROX 550/560 DIAGNOSTIC PROGRAM SYSTEM MONITOR 730012-11A00 DESCRIPTION PRINTED

730013AA B1 XEROX 550/560 LOAD-AND-GO (LAG) DIAGNOSTIC PROG. SYS. 730013-11A00 DESCRIPTION PRINTED

730014AA B1 XEROX 550/560 32-BIT EDIT DIAGNOSTIC SYSTEM PROGRAM 730014-11A00 DESCRIPTION PRINTED

730016AA B1 XEROX 550/560 MEDIUM SPEED MAGNETIC TAPE DIAGNOSTIC 730016-11A00 DESCRIPTION PRINTED 730016-84A00 ABSOLUTE BINARY CARDS

730017AA B1 XEROX 550/560 LINE PRINTER DIAGNOSTIC PROGRAM
730017-11A00 DESCRIPTION PRINTED
730017-84A00 ABSOLUTE BINARY CARDS

730021AA B1 XEROX 550/560 TRAP DIAGNOSTIC PROGRAM 730021-11A00 DESCRIPTION PRINTED 730021-84A00 ABSOLUTE BINARY CARDS

730022AA B1 XEROX 550/560 POHER FAIL-SAFE (PFS) DIAGNOSTIC PROGRAM 730022-11A00 DESCRIPTION PRINTED 730022-84A00 ABSOLUTE BINARY CARDS

730023AA B1 XEROX 580 BYTE INSTRUCTION DIAGNOSTIC PROGRAM
730023-11A00 DESCRIPTION PRINTED
730023-84A00 ABSOLUTE BINARY CARDS

```
730024AA B1 XEROX 560
                                                                                                                      DECM DIAGNOSTIC PROGRAM
                                                            DESCRIPTION PRINTED
ABSOLUTE BINARY CARDS
        730024-11A00
730024-84A00
 730025AA
                                   81 XEROX 560
                                                                                                                        DIAGNOSTIC PROGRAM MAGNETIC TAPE LIBRARY
        730025-11A00
730025-86A00
                                                                            DESCRIPTION PRINTED
ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
       30029AA B1 XEROX 550/560
730029-11A00 DESC
 730029AA
                                                                                                                         SYSTEM CONTROL CONSOLE DIAGNOSTIC PROG.
                                                                          DESCRIPTION PRINTED
                                                                                     ABSOLUTE BINARY CARDS
        730029-84400
730030AA B1 XEROX 550/560 32-BIT I/O UTILITY PROGRAM 730030-11400 DESCRIPTION PRINTED
        730030-84A00
                                                                                     ABSOLUTE BINARY CARDS
                                                                                    S MONARCH COMMON SOFTHARE PACKAGE
DESCRIPTION PRINTED
SOURCE MAG TAPE, 7 CHANNELS
XDS MONARCH REFERENCE MANUAL
XDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS
850000AB B3
850000-11800
850000-35800
                                  B3 900-SERIES
        900566
        900616
      MONARCH TAPE LOADER (LOAD)
25000148
      50004AB B3 9-SERIES MONARCH RAD LOADER (LOAD)
850004-11800 850000-11 DESCRIPTION PRINTED
850004-35800 850000-35 SOURCE MAG TAPE, 7 CHANNELS
 850004AB
      00022AA B3 9-SERIES PURGE FOR RAD MONARCH
050022-11A00 DESCRIPTION PRINTED
050022-25A00 050036-85 RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
050022-35A00 050000-35 SOURCE MAG TAPE, 7 CHANNELS
850023AA B3 900-SERIES BOOTSTRAP GENERATOR FOR RAD MONARCH

850023-11A00 DESCRIPTION PRINTED

850023-34A00 850000-35 SOURCE CAPIDS

850023-51A00 850000-51 LISTING PRINTED

850023-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
 850035AB
                                        B3 910
                                                                                                                         910/925 TAPE MONARCH SYSTEM
                                                                                    DESCRIPTION PRINTED
TESTS AND DEMO DECKS
TESTS AND DEMO DECKS - 7 TR MAG TAPE
ABSOLUTE BINARY MAG TAPE, 7 CHANNELS
XDS MONARCH REFERENCE MANUAL
XDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS
       850035-11800
850035-74800
        850035-75B00
        850035-85800
        900566
        900616
850036AB B3 9-SERIES 925 RAD MONARCH SYSTEM 050036-11800 0ESCRIPTION PRINTED 0ESCRIPTION PRINTED 0ESCK ABSOLUTE BINARY MAG TAPE, 7 CHANNELS
      | 920/930 TAPE MONARCH SYSTEM | 920/930 TAPE MONARCH SYSTEM | 950037-11800 | DESCRIPTION PRINTED | ABSOLUTE BINARY MAG TAPE, 7 CHÁNNELS | 850037-74800 850035-74 | TEST AND DEMO DECKS | XDS MONARCH REFERENCE MANUAL | 900616 | XDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS | YDS MONARCH TECHNICAL MANUAL MANU
 850037AB
```

850038AB B3 9-SERIES 930 RAD MUNAROW ELE 050038-14800 850035-74 TEST AND DEMO DECKS ABSOLUTE BINARY MAG TAPE, 7 CHANNELS

50040AB B3 900-SERIES SYMBOL ASSEMBLER COMMON SOFTHARE PACKAGE
850040-11B00 DESCRIPTION PRINTED
850040-35B00 SOURCE MAG TAPE, 7 CHANNELS
900506 XDS SYMBOL AND META-SYMBOL REFERENCE MANUAL
900608 XDS 900 SERIES SYMBOL TECHNICAL MANUAL

850065AB B3 900-SERIES META-SYMBOL ASSEMB. COMMON SOFTWARE PKG

850065-11800 850065-45800

900506

DESCRIPTION PRINTED
COMPRESSED MAG TAPE, 7 CHANNELS
XDS SYMBOL AND META-SYMBOL REFERENCE MANUAL
XDS META-SYMBOL TECHNICAL MANUAL

900827

850090AA B3 9-SERIES META-SYMBOL PROC93CP

#850090-44A00 850065-45 COMPRESSED CARDS 850090-51A00 850065-51 LISTING PRINTED 900506 900 SERIES/9300 SYMBOL AND META SYMBOL REFERENCE MANUAL 900827 META-SYMBOL TECHNICAL MANUAL

850095AB

00095AB B3 900-SERIES MONARCH LIBRARY COMMON SOFTWARE PACKAGE
850095-11800 DESCRIPTION PRINTED
850095-35B00 SOURCE MAG TAPE, 7 CHANNELS
900566 XDS MONARCH REFERENCE MANUAL
900616 XDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS

B3 910 PROJECT MANAGEMENT SYSTEM (CPM) COVER

850161AA 83 850161-11A00 850161-25A00

PROJECT MANAGEMENT STSTEM COME
DESCRIPTION PRINTED
RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
XDS PROJECT MANAGEMENT SYSTEM REFERENCE MANUAL
XDS PROJECT MANAGEMENT SYSTEM TECHNICAL MANUAL
XDS EXTENDED PROJECT MANAGEMENT SYSTEMS 900818 900822

901504

850210AB B3 910/925 FORTRAN II COMMON SOFTHARE PACKAGE

850210-11800 DESCRIPTION PRINTED 850210-35800

900003

SOURCE MAG TAPE, 7 CHANNELS
FORTRAN II REFERENCE MANUAL
XDS 900 SERIES FORTRAN II OPERATIONS MANUAL 900587

0211AB B3 9-SERIES 910/925 F-II COMPILER (FC-1) 850211-35800 850210-35 SOURCE MAG TAPE, 7 CHANNELS 850211AB

920/930 FORTRAN-II COMMON SOFTHARE PKG.
920/930 FORTRAN-II

85033044 R3 9-SERIES

850330-11A00

850330-25A00

850330-35A00

ALGOL COMMON SOFTHARE PACKAGE (COVER)
DESCRIPTION PRINTED
RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
SOURCE MAG TAPE, 7 CHANNELS
XDS ALGOL 60 TECHNICAL MANUAL, XDS 900 / 9300 COMPUTERS
XDS ALGOL 60 REFERENCE MANUAL 900694

900699

50362AA B3 920 PROJECT MANAGEMENT SYSTEM (CPM) COVER
850362-25A00 850161-25 RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
900B1B XDS PROJECT MANAGEMENT SYSTEM REFERENCE MANUAL
901504 XDS PROJECT MANAGEMENT SYSTEM TECHNICAL MANUAL
401504 XDS EXTENDED PROJECT MANAGEMENT SYSTEM

REAL-TIME FORTRAN COMMON SOFTHARE PKG 850400AB B3 910 850400-11800

850400-35800

DESCRIPTION PRINTED
SOURCE MAD TAPE, 7 CHANNELS
XDS 900 SERIES REAL-TIME FORTRAN II TECHNICAL MANUAL 901048

920/930 R/T FORTRAN COMMON SOFTHARE PKG. 850480AB B3 9-SERIES

850624AA B3 9-SERIES

ZERO MEMORY DESCRIPTION PRINTED ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850624-11A00 850624-82A00

SELECTIVE MEMORY CLEAR - BOOTSTRAP 850625AA B3 9-SERIES 850625-11A00

DESCRIPTION PRINTED
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850625-82A00

DESCRIPTION PRINTED 850626AA B3 9-SERIES 850626-11A00

COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 850626-44A00 850626-82A00

850626-84A00

850627AA 83 850627-11A00 850627-82A00 BINARY VERIFY - BOOTSTRAP DESCRIPTION PRINTED ABSOLUTE BINARY PAPER TAPE, 7 LEVELS B3 9-SERIES

MEMORY TYPE-OUT, REDUNDANCY ELIMINATION 850628AA B3 9-SERIES

DESCRIPTION PRINTED SOURCE CARDS 850628-11A00

850628-34A00 850628-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

83 9-SERIES DEBUG

850629AA 850629-11A00 850629-22A00

DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
RELOCATABLE BINARY CARDS
SOURCE CARDS

850629-24A00 850629-34A00

BINARY PAPER TAPE BOOTSTRAP + GENERATOR 85063444

50634AA B3 9-SERIES 850634-11A00 DESCRIPTION PRINTED

850634-34400 SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850634-82A00

BINARY PAPER TAPE LIST 850637AA 83 9-SERIES

850637-11A00 850637-34A00 DESCRIPTION PRINTED SOURCE CARDS

850637-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850638AA B3 9-SERIES FORTRAN II MEMORY SAVE

850638-11A00

DESCRIPTION PRINTED
SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850638-34A00 850638-82A00

PAPER TAPE PHOTO-READER TEST PROGRAM REDEZGAA

PAGE 49 - 01/31/75

50639AA B3 9-SERIES 850639-11A00 DESCRIPTION PRINTED

SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850639-34A00 850639-82A00

SEMI-AUTOMATIC TYPEHRITER TEST (SATT) 850640AA B3 9-SERIES

850640-11A00

DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 850640-44A00 850640-82A00

850640-84A00

FORTRAN SOURCE CARDS TO P.T.COPY ROUTINE DESCRIPTION PRINTED SOURCE CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850641AA 83 9-SERIES 850641-11A00 850641-34A00

850641-82A00

850642AB

B3 9-SERIES
BINARY DUMP, PAPER TAPE OR CARDS
A00 DESCRIPTION PRINTED
A00 RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
A00 COMPRESSED CARDS 850643AA

850643-11A00 850643-22A00

850643-24A00 850643-44A00

BINARY INPUT-BASIC PAPER TAPE LOADER 85064444

50644AA B3 9-SERIES 850644-11A00

DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850644-44A00 850644-82A00

850645AA

850645-11A00

B3 9-SERIES UNIVERSAL LUADE..

A00 DESCRIPTION PRINTED

A00 COMPRESSED CARDS

A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

A00 ABSOLUTE BINARY CARDS 850645-44400 850645-82A00

850645-84A00

XDS 900 TO 92 BINARY LANGUAGE TRANSLATOR DESCRIPTION PRINTED RELOCATABLE BINARY CARDS COMPRESSED CARDS ABSOLUTE BINARY CARDS 850646AA 83 9-SERIES

850646-11A00 850646-24A00

850646-44A00 850646-84A00

ENCODED TO SYMBOLIC RECONSTRUCTOR (RECON) 850647AB

BINARY INPUT ONE CARD LOADER
DESCRIPTION PRINTED
SOURCE CARDS
ABSOLUTE BINARY CARDS 850648AA B3 850648-11A00 850648-34A00 B3 9-SERIES

850648-84A00

BINARY INPUT-THO CARD LOADER

850649AA B3 9-SERIES DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY CARDS 850649-11A00

850649-44A00 850649-84A00

ABSOLUTE BINARY LOADER WITH CONSTANTS DESCRIPTION PRINTED B3 9-SERIES 850650AA

850650-11A00 SOURCE CARDS
ABSOLUTE BINARY CARDS 850650-34A00 850650-84A00

CARD FILL SIMULATOR (910/920)
DESCRIPTION PRINTED
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850651AA 83 9-SERIES 850651-11A00

850651-82A00

THREE CARD RELOCATABLE LOADER 850652AA B3 9-SERIES DESCRIPTION PRINTED 850652-11A00 850652-34400 SOURCE CARDS

850652-84A00 ABSOLUTE BINARY CARDS

OCTAL INPUT-ONE CARD LOADER DESCRIPTION PRINTED B3 9-SERIES

850653AA B3 850653-11A00 850653-34A00 SOURCE CARDS
ABSOLUTE BINARY CARDS 850653-84A00

B3 9-SERIES PHOTO READER TEST PROGRAM 850655AA 850655-11A00 DESCRIPTION PRINTED 850655-44A00

COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850655-82A00

850656AA 83 9-SERIES 900 SERIES CARD READER TEST PROGRAM

850656-11A00 850656-44A00

DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 850656-82A00 850656-84A00

CARD PUNCH TEST PROGRAM PACKAGE -9156 850657AA 83 9-SERIES 850657-11A00

DESCRIPTION PRINTED
SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850657-34A00 850657-82A00

850658AA B3 9-SERIES CARD PUNCH TEST PROGRAM -9157 10858AA B3 9-SERIES CARD PUNCH TEST PROGRAM - 6 850658-11400 DESCRIPTION PRINTED 850658-82400 SOURCE CARDS 850658-82400 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850658-84400 ABSOLUTE BINARY CARDS TO PROVIDE A MEANS OF TESTING THE CARD PUNCH. 850658-11A00 850658-34A00

850658-82A00 850658-84A00

CARD PUNCH TEST PROG/MOD.9157(INTERLACE) 850659AA 83 9-SERIES

DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 850659-11A00 850659-44A00

850659-82A00 850659-84A00

STANDARD CARD READER TEST DECK PROGRAM 850660AA B3 9-SERIES 850660-11A00 850660-74A00 DESCRIPTION PRINTED DATA CARDS

9158 CARD PUNCH TEST PROGRAM DESCRIPTION PRINTED SOURCE CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850661AA B3 9-SERIES 850661-11A00

850661-34A00 850661-82A00

900 SERIES FORTRAN II COMPILER DUMP 850662AA B3 9-SERIES DESCRIPTION PRINTED
SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850662-11A00 850662-34A00 850662-82A00

850663AA 50663AA B3 9-SERIES 850663-11A00 BASIC SYMBOLIC MAGNETIC TAPE EDITOR DESCRIPTION PRINTED 850663-34A00 850663-82A00

SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 850663-84A00

850664AA 83 9-SERIES 850664-11A00 PAPER TAPE AND MAGNETIC TAPE COPIER DESCRIPTION PRINTED 850664-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850666AA B3 9-SERIES MAG TAPE STANDARD FILL SIMULATOR (910/920

850666-11A00 850666-34400

DESCRIPTION PRINTED
SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850666-82A00

83 9-SERIES BINARY INPUT-MAGNETIC TAPE ABSOLUTE LOR

850667-11A00 850667-34A00 DESCRIPTION PRINTED SOURCE CARDS

850669AA

50669AA B3 9-SERIES MONARCH - LIBPACK
650669-11A00 DESCRIPTION PRINTED
650669-25A00 850035-85 RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
650669-25A00 850037-85 RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
650669-25A00 850038-85 RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
650669-35A00 850038-85 RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
650669-35A00 850000-35 SOURCE MAG TAPE, 7 CHANNELS

850670AA B3 9-SERIES
850670-11A00 900019
850670-82A00
B50670-82A00
B50

850671AA 83 9-SERIES INSTRUCTION DIAGNOSTIC
850671-44400 DESCRIPTION PRINTED
850671-92400 850670-82 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
900019 STORM PRINTED DIAGNOSTIC SYSTEM TECHNICAL MANUAL

850672AA

850672AA B3 9-SERIES MEMORY DIAGNOSTIC
850672-11A00 900019 DESCRIPTION PRINTED
850672-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
910/920 EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL

850673AA 83 9-SERIES 15KC HAG TAPE TEST-INTERUPT AND INTRLACE

850673-11A00 850673-82A00 DESCRIPTION PRINTED
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

MAGNETIC TAPE SYSTEM EXERCISER-15KC DESCRIPTION PRINTED SECETAL A B3 9-SERIES

850674-11A00

850674-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850675AA B3 9-SERIES 15KC MAGNETIC TAPE TEST

850675-11A00 850675-34A00 DESCRIPTION PRINTED
SOURCE CARDS

ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS

850675-82A00 850675-84A00

MULTI-HAGNETIC TAPE SYSTEM EXERCISER DESCRIPTION PRINTED 85067644 B3 9-SERIES

850676-11A00 850676-34400

SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS

850676-82A00 850676-84A00

850677AA B3 9-SERIES 850677-11A00 92 PROCEDURE DECK DESCRIPTION PRINTED

850677-34A00 SOURCE CARDS

DEMONSTRATION OF LINKING UNDER MONARCH DESCRIPTION PRINTED 850678AA B3 9-SERIES

850678-11A00

SOURCE CARDS

MAGNETIC TP EXERCISER,2 TP SYTM-15KC 850679AA **B3 9-SERIES** 850679-11A00 DESCRIPTION PRINTED

ABSOLUTE BINARY PAPER TAPE. 7 LEVELS 850679-82A00

FORTRAN II RUN-TIME DEBUG SUBROUTINE 850680AA B3 9-SERIES

850680-11A00

DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
RELOCATABLE BINARY CARDS 850680-22A00 850606-24A00

850680-34A00 SOURCE CARDS

42KC MAGNETIC TAPE TEST PROGRAM Y BUFFER DESCRIPTION PRINTED SOURCE CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850681AA B3 9-SERIES 850681-11A00 850681-34A00

850681-82A00

850682AA B3 850682-11A00 B3 900-SERIES 42KC MAG TAPE SYS EXERCISER, Y BUF

SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE. 7 LEVELS 850682-34A00 850682-82A00

B3 9-SERIES BUFFERED LINE PRINTER MEMORY DUMP 85068344

850683-11A00 DESCRIPTION PRINTED
ABSOLUTE BINARY PAPER TAPE. 7 LEVELS 850683-82A00

CARD OR MAG TAPE TO BUFFERED LINE PRINTR DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850684AA B3 9-SERIES 850684-11A00

850684-44A00 850684-82A00

850686AA B3 9-SERIES 850686-11A00

FORTRAN FREE INTERRUPTS SUBROUTINE DESCRIPTION PRINTED RELOCATABLE BINARY CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850686-24A00 850686-82A00

SEQ. NUMBER ASONT.+P.T.UPDATING ROUTINES DESCRIPTION PRINTED 850687AA 83 9-SERIES 850687-11A00

850687-34A00 850687-82A00 SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

50688AA 83 9-SERIES 850688-11A00 850688AA

UTILITY AND DEBUG PACKAGE (AID)
DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
COMPRESSED CARDS
ABSOLUTE BINARY CARDS 850688-22A00

850688-44A00 850688-84A00

\$10690AA B3 900-SERIES ALGOL 60 EXT'D UNBUF LINE PRT. LIB ROUT.

850690-11A00 DESCRIPTION PRINTED

850690-24A00 RELOCATABLE BINARY CARDS

850690-34A00 SOURCE CARDS

850690-51A00 850690-11 LISTING PRINTED 850690AA

BUFFERED LINE PRINTER TEST PROGRAM 850691AA B3 9-SERIES

850691-11A00 DESCRIPTION PRINTED

SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 850691-34A00 850691-82A00 850691-84A00

850692AA B3 9-SERIES OFF-LINE PRINTER TEST
DESCRIPTION PRINTED

850692-11A00

850692-34A00 850692-72A00 SOURCE CARDS TEST PAPER TAPE 850693AA

50693AA B3 9-SERIES BUFFERED PRINTER DIAGNOSTIC B50693-11A00 DESCRIPTION PRINTED B50693-94A00 COMPRESSED CARDS ABSOLUTE BINARY CARDS

B3 9-SERIES 850694AA

UNBUFFERED LINE PRINTER TEST

850694-11A00 850694-44A00

DESCRIPTION PRINTED
COMPRESSED CARDS

850694-82A00

ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

B3 9-SERIES

850695AA 83 850695-11A00

42KC MAGNETIC TAPE TEST PROGRAM, H BUFFER DESCRIPTION PRINTED SOURCE CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS

850695-34A00 850695-82A00 850695-84A00

B3 9-SERIES 850696AA 850696-11A00 850696-34A00

42KC MAGNETIC TAPE EXERCISER, W BUFFER
DESCRIPTION PRINTED
SOURCE CARDS
ABSOLUTE STUDENTS

850697-82A00

850696-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850697-11A00 850697-34A00

B3 9-SERIES R.T.FORTRAN LOADER PATCH FOR UNBUF.PRINT
A00 DESCRIPTION PRINTED
A00 SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850698AA

50698AA B3 9-SERIES 850698-11A00

XDS FORTRAN DEMONSTRATION PROGRAM DESCRIPTION PRINTED

850698-34A00

SOURCE CARDS

83 9-SERIES

850699-11A00

CALCOMP PLOTTER TEST
DESCRIPTION PRINTED

850699-34A00 850699-82A00 850699-84A00

SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS

850701AA B3 9-SERIES PROGRAM CORRECTION TAPE GENERATOR

850701-11A00

850701-34A00

DESCRIPTION PRINTED
SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850701-82A00

B3 9-SERIES

P + S REGISTER TESTER

850702-11A00 850702-34A00 850702-82A00

900019

DESCRIPTION PRINTED
SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
910/920 EXAMINER DIAGNOSTIC SYSTEM TECH MANUAL

B3 9-SERIES 850703AA

910/920/925 DIAGNOSTIC CONTROL PROGRAM

DESCRIPTION PRINTED
COMPRESSED CARDS 850703-11A00 850703-44400

B3 9-SERIES 850704AA

DRUM, P.T. MEMORY BINARY COPY ROUTINE DESCRIPTION PRINTED SOURCE CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850704-11A00

850704-34A00 850704-82A00

850705AA B3 9-SERIES 850705-11A00 850705-22A00

GENERAL DRUM HANDLER
DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
SOURCE CARDS

850705-34A00

PAGE 54 - 01/31/75

850706AA B3 9-SERIES MOSELEY PLOTTER TEST PROGRAM
850706-11A00 DESCRIPTION PRINTED
850706-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850707AA 83 9-SERIES LINK 0 800TSTRAP FOR DRUM 850707-11400 DESCRIPTION PRINTED 850707-82400 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850708AA B3 9-SERIES FORTRAN II TYPE SUBR. (LONG CARRIAGE)
850708-11A00 DESCRIPTION PRINTED
850708-22A00 RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
850708-34A00 SOURCE CARDS

850710AA B3 9-SERIES GAUSSIAN DISTRIBUTION TEST ANALOG INPUTS
850710-11AU0 DESCRIPTION PRINTED
850710-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850711AA B3 9-SERIES PRIORITY INTERRUPT TEST
850711-11A00 DESCRIPTION PRINTED
850711-84A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850711-84A00 ABSOLUTE BINARY CARDS

850712AA B3 9-SERIES UNBUFFERED LINE PRINTER TEST PROGRAM
850712-11A00 DESCRIPTION PRINTED
850712-34A00 SOURCE CARDS
850712-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850716AA ## 83 9-SERIES ## 9161 DRUM MEMORY TEST PROGRAM ## 850716-11A00 ## DESCRIPTION PRINTED ## 850716-34A00 ## SOURCE CARDS ## 850716-82A00 ## ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850717AA B3 9-SERIES 1622 CARD READ/PUNCH TEST PROGRAM 850717-11A00 DESCRIPTION PRINTED 850717-34A00 SOURCE CARDS 850717-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850720AA B3 9-SERIES POHER FAIL-SAFE INTERRUPT TESTER
B50720-31A00 DESCRIPTION PRINTED
B50720-82A00 SOURCE CARDS
B50720-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850721AA ## 83 9-SERIES ARM/DISARM FEATURE CHECKOUT ## 850721-1400 DESCRIPTION PRINTED SOURCE CARDS ## 850721-8400 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ## ABSOLUTE BINARY CARDS

850722AA 83 9-SERIES FRANKLIN PRINTER TEST PROGRAM
850722-11A00 DESCRIPTION PRINTED
850722-34A00 SOURCE CARDS
850722-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850724-A B3 9-SERIES 9158 CATHODE-RAY TUBE DISPLAY TEST PROG. 850724-11A00 DESCRIPTION PRINTED 850724-94A00 COMPRESSED CARDS 850724-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850724-84A00 ABSOLUTE BINARY CARDS

850725AA

B3 9-SERIES MODEL 9333 7 OR 8 LEVEL PAPER TAPE TEST 850726AA

850726-11A00

COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 850726-44A00 850726-82A00

850726-84A00

850727-A B3 9-SERIES
850727-11A00
850727-44A00
850727-82A00
850727-82A00
850727-82A00
850727-82A00
850727-82A00
850727-82A00
850727-82A00

85073544

B3 9-SERIES PRIORITY INTERRUPT SOURCE TEST
A00 DESCRIPTION PRINTED 850735-11A00

850735-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

B3 9-SERIES ANALOG COMPARISON TEST
A00 DESCRIPTION PRINTED
A00 SOURCE CARDS 850739AA

850739-11A00

SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850739-34A00 850739-82A00

SEISMIC DUMP A AND B FORMATS
DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS 850740AA B3 850740-11A00 B3 920

850740-24A00 850740-44A00

PATCH, PROGRAMMED ANALOG TOTAL CHECK DESCRIPTION PRINTED RELOCATABLE BINARY CARDS COMPRESSED CARDS R50741AA 83 930 850741-11A00

850741-24A00 850741-44A00

850742AA B3 930 DEE-6D SIMULATOR SYSTEM HANDLERS

850742-11A00 DESCRIPTION PRINTED

850742-34A00 850742-82A00 SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850743AA 83 910 JPL HSDL TEST PROGRAM

850743-11A00 850743-34A00 DESCRIPTION PRINTED

SOURCE CAPDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850743-82A00

850744AB B3 920 850744-11A00 JPL HSDL COUPLER EXERCISER DESCRIPTION PRINTED

850744-44B00 850744-82B00 COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850754AB

50754AB 83 900-SERIES ADAPT COMPILER 850754-11800 DESCRIPTION PRINTED 850754-34800 SOURCE CARDS 850754-35800 SOURCE MAG TAPE, 7 CHANNELS

850755AA B3 925 9TK EXTEND MODE MULTI-MAG TAPE EXERCISER

DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850755-11A00 850755-44A00

850755-84A00 850755-82A00

850765AA B3 910 910/925 PROGRAM OPERATOR PACKAGE (COVER)
850765-11A00 DESCRIPTION PRINTED
850765-25A00 850095-35 SOURCE MAG TAPE, 7 CHANNELS
900018 910/925 PROGRAMMED OPERATORS TECH MANUAL

850803AA B3 9-SERIES HIGH SPEED 4 DIGIT BIN TO DEC POP-SELF F B50803-11A00 DESCRIPTION PRINTED ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850804-A 83 9-SERIES HIGH SPEED SIN-COS POP-SELF FILLING 850804-82A00 DESCRIPTION PRINTED ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850805AA B3 9-SERIES HIGH SPEED ARCTANGENT POP-SELF FILLING
850805-82A00 DESCRIPTION PRINTED
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850812AA B3 9-SERIES 850812-11A00 DESCRIPTION PRINTED 850512-82A00 DESCRIPTION PRINTED ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

950813AA B3 9-SERIES 910/925 FORTRAN II 3 CONTR CARDS MOD. 950813-11A00 DESCRIPTION PRINTED 950813-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850814AA B3 9-SERIES 910/925 FORTRAN II 9 CONTR CARDS MOD. 850814-11A00 DESCRIPTION PRINTED 850514-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850815AA B3 9-SERIES 910/925 F-II HOLLERITH CONSTANT MOD. 850815-82A00 DESCRIPTION PRINTED ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850816AA 83 9-SERIES 910/925 ALGOL 60 BASIC 4K SYSTEM 850816-11A00 DESCRIPTION PRINTED COMPRESSED CARDS 850816-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 900699 XDS ALGOL 60 REFERENCE MANUAL

850832AA 00832AA B3 9-SERIES 850832-11A00 901023 XDS 910 PINT-UNBUFFERED PRINT DESCRIPTION PRINTED

850832-34A00

850832-82400

SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS
XDS PINT REFERENCE MANUAL 850832-84A00 901023

XDS 910/925 FORTRAN 11 FORMAT STATEMENTS DESCRIPTION PRINTED 850833AA 83 9-SERIES

850833-11A00

850833-34A00 850833-82A00 SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

910/925 FORTRAN II CARD INPUT MOD. 850835AA B3 9-SERIES

850835-11A00 DESCRIPTION PRINTED

850835-34A00

SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850835-82A00

910/925 FORTRAN II CARD PUNCH TAPE MOD. 83 9-SERIES 850836AA

850836-11A00 DESCRIPTION PRINTED

SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850836-34400 850836-82A00

850837AA B3 9-SERIES 910/925 FORTRAN II CARD OUTPUT HOD.

DESCRIPTION PRINTED
ABSOLUTE BINARY PAPER TAPE. 7 LEVELS 850837-11A00 850837-82A00

850841AA B3 9-SERIES 910/925 FORTRAN II MAG TAPE OUTPUT MOD.

850841-11A00 DESCRIPTION PRINTED

850841-34A00 850841-82A00 SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

910/925 F-11 M.T. PAPER TAPE OUTPUT HOD DESCRIPTION PRINTED 85084244

50842AA B3 9-SERIES 850842-11A00

850842-34A00 850842-82A00 SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

00848AA 83 9-SERIES 850848-11A00 901044 910/925 SORT MERGE (COVER) REURARA

DESCRIPTION PRINTED
COMPRESSED MAG TAPE, 7 CHANNELS
ABSOLUTE BINARY CARDS 850848-45A00 850848-84A00

XDS SORT/MERGE REFERENCE MANUAL SORT/MERGE TECHNICAL MANUAL 9SERIES/9300 COMPUTERS 900997 901044

910/925 FORTRAN II BUFFERED PRT. HOO. 83 9-SERIES

850857AA 83 850857-11A00 850857-34A00 DESCRIPTION PRINTED

SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850857-82A00

B3 9-SERIES 910/925 FORTRAN II FAST LISTING MOD. 850858AA

850858-11A00 850858-34A00

DESCRIPTION PRINTED
SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850858-82A00

850859AA B3 9-SERIES 910/925 FORTRAN II UNBUFFERED PRTR.MOD. DESCRIPTION PRINTED

850859-11400

SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850859-82A00

910 FORTRAN DRUM LINKING SYSTEM 850862AA B3 9-SERIES

850862-11A00

DESCRIPTION PRINTED
SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850862-34A00 850862-82A00

FORTRAN II DRUM READ/WRITE MODIFICATION 850864AA B3 9-SERIES 850864-11A00 DESCRIPTION PRINTED SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850864-34A00 850864-82A00 910/925 STANDARD ANALOG TEST PROGRAM DESCRIPTION PRINTED 850901AA 83 9-SERIES 850901-11A00 850901-44A00 COMPRESSED CARDS LINEAR INTERPOLATION-1 INDEPENDENT VARI 850914AA B3 9-SERIES DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
RELOCATABLE BINARY CARDS
COMPRESSED CARDS 850914-11A00 850914-22A00 850914-24A00 850914-44A00 LINEAR INTERPOLATION-2 INDEPENDENT VARI 850915AA B3 9-SERIES DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
RELOCATABLE BINARY CARDS
COMPRESSED CARDS 850915-11A00 850915-22A00 850915-24A00 850915-44A00 85091644 LINEAR INTERPOLATION-3 INDEPENDENT VARI 83 9-SERIES DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850916-11A00 850916-44A00 850916-82A00 850919AA 850957AA B3 850957-11A00 850957-82A00 FORTRAN II FORMATS-AT RUN-TIME MOD. DESCRIPTION PRINTED 850963AA B3 850963-11A00 B3 9-SERIES 850963-34A00 850963-82A00 SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS FORTRAN-9 CONTINUATION CARD MODIFICATION B3 9-SERIES RECORDA 850964-11A00 DESCRIPTION PRINTED SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850964-34A00 850964-82A00 83 9-SERIES FORTRAN II MODIFICATION LOADER DESCRIPTION PRINTED 850965-11A00 850965-34A00 850965-82A00 SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850966AA 0966AA B3 9-SERIES 850966-11A00 FORTRAN-3 CONTINUATION CARD MODIFICATION DESCRIPTION PRINTED ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 850966-82A00 850967AA B3 9-SERIES 850967-11A00 850967-34A00 850967-82A00 FORTRAN HOLLERITH LITERALS MODIFICATION DESCRIPTION PRINTED SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850968AA 83 9-SERIES

GO MO KU DESCRIPTION PRINTED

850968-11A00 850968-34A00

850968-82A00

SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

50970AA B3 9-SERIES 850970-11A00 900699 850970-44A00 850970AA

DESCRIPTION PRINTED COMPRESSED CARDS

850970-82A00

900699

ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ALGOL 60 REFERENCE MANUAL ALGOL 60 TECHNICAL MANUAL, XDS 900 SERIES/9300 COMPUTERS

850984AA B3 9-SERIES

850984-11A00

920/930 ALGOL 60 BASIC 4K SYSTEM (COVER)

850984-82400 901048 900003 900587

920/930 REAL TIME FORTRAN II (COVER)
DESCRIPTION PRINTED
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
920/930 REAL TIME FORTRAN II TECH MANUAL
900 SERIES FORTRAN II REFERENCE MANUAL
900 SERIES FORTRAN II OPERATIONS MANUAL

850985AA

850985-34A00

PINT 920/930 BUFFERED PRINT

PINT 920/930 UNBUFFERED PRINT

B3 9-SERIES SOURCE CARDS

850985-82A00 850985-84A00

ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS
PINT REFERENCE MANUAL

901023

85098BAA 83 9-SERIES

850986-34A00 850986-82A00

SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEYELS
ABSOLUTE BINARY CARDS
PINT REFERENCE MANUAL

850986-84A00 901023

85098944

850989-11A00

920/930 FORT II CARD/PAPER TAPE INPT HOD

850989-34A00 850989-82A00

B3 9-SERIES

A00 DESCRIPTION PRINTED

A00 SOURCE CARDS

A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850990AA 850990-11A00

93 9-SERIES 920/930 FORTRAN 11 CARD INPUT MOD.
1A00 DESCRIPTION PRINTED
2A00 SOURCE CARDS
2A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850990-34A00 850990-82A00

920/930 FORTRAN II CARD OUTPUT HOD.

850991AA B3 850991-11A00 B3 9-SERIES DESCRIPTION PRINTED

850991-34A00

850991-82A00

SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

83 9-SERIES 850992AA 850992-11A00

920/930 FORTRAN II MAG TAPE INPUT MOD.

850992-34400 850992-82A00 DESCRIPTION PRINTED
SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS

850992-84A00

850997AA B3 9-SERIES 920/930 FORT 11 MAG TPE/PAPER TPE OUTPUT DESCRIPTION PRINTED ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

0998AA 83 9-SERIES 850998-11A00 850998AA

850998-82A00

920/930 FORTRAN 11 MAG TAPE OUTPUT MOD.
DESCRIPTION PRINTED
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

51006AA B3 9-SERIES
851006-11A00 901044 DESCRIPTION PRINTED
851006-45A00 850848-45 COMPRESSED MAG TAPE, 7 CHANNELS
851006-45A00 850848-84 ABSOLUTE BINARY CARDS
900997 SORT/MERGE REFERENCE MANUAL
SORT/MERGE TECHNICAL MANUAL 920/930 SORT MERGE (COVER) 01010AA B3 9-SERIES PAYROLL GENERATOR 851010-11A00 DESCRIPTION PRINTED 851010-45A00 851220-45 COMPRESSED MAG TAPE, 7 CHANNELS 851010AA B3 9-SERIES BUFFERED LINE PRINTER TRACE B51012-11A00 DESCRIPTION PRINTED FINE TAPE, 7 LEVELS
B51012-34A00 B50000-35 SOURCE CARDS
COMPRESSED CARDS 83 9-SERIES 851014AA 920/930 RTF II INBUF. PRT. COMPILER MOD 851014-11A00 851014-34A00 DESCRIPTION PRINTED SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 851014-82A00 851015AA 83 9-SERIES 851015-11A00 851015-82A00 FORTRAN BUFFERED PRINTER MODIFICATION DESCRIPTION PRINTED
ABSOLUTE BINARY PAPER TAPE. 7 LEVELS 851017AA B3 851017-11A00 851017-34A00 83 9-SERIES 920/930 FORTRAN II COMPILER UNBUF. PRT. DESCRIPTION PRINTED SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 851017-82A00 83 9-SERIES 92 SIMULATOR COMPRESSED CARDS 851019AA 851019-44A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 851019-82A00 FORTRAN DRUM READ/HRITE STATEMENTS DESCRIPTION PRINTED 851026AA 83 9-SERIES 851026-11A00 851026-34A00 851026-82A00 SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE. 7 LEVELS 851027AA 83 851027-11A00 JPL TCP ANALOG EQUIPMENT DEMONSTRATION DESCRIPTION PRINTED B3 920 851027-44A00 851027-82A00 COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE. 7 LEVELS DOUBLE PRECISION FLOATING POINT POP DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS 851047AA B3 851047-11A00 B3 9-SERIES 851047-22A00 851047-24A00 851047-34A00 SOURCE CARDS 851048AA 31048AA B3 9-SERIES 851048-11A00 900097 930 EXAMINER DIAGNOSTIC SYSTEM (COVER)
DESCRIPTION PRINTED DESCRIPTION PRINTED SOURCE CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS XDS 930 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL, VOL. I + II 851048-34A00 851048-82A00 851048-84A00 900097 930 EXAMINER MEMORY DIAGNOSTIC.

851050AA 930 EXAMINER P AND S REGISTER TESTER 851052AA B3 9-SERIES 851052-11A00 930 BIO MEMORY ADDRESSING TEST DESCRIPTION PRINTED SOURCE CARDS 851052-34A00 851052-82400 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS B3 9-SERIES 851054AA MTE-1 MAGNETIC TAPE EXERCISER DESCRIPTION PRINTED 851054-11A00 851054-24A00 851054-44A00 RELOCATABLE BINARY CARDS COMPRESSED CARDS 851054-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 851055AA 83 851055-11A00 93 9-SERIES MTE-3 MAG TAPE EXERCISOR, 3 CHAR MODE 851055-11A00 DESCRIPTION PRINTED
851055-94A00 COMPRESSED CARDS
851055-951A00 851055-11 LISTING PRINTED
851055-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ### 3 MAG TAPE ### 1056AA B3 9-SERIES ### 3 MAG TAPE ### 1056-1100 DESCRIPTION PRINTED ### 1056-51400 COMPRESSED CARDS ### 1056-51400 #### 10 851056AA MTE 3 MAG TAPE EXERCISOR 4 CHAR MODE B3 9-SERIES MEMORY LOCK-OUT AND POHER FAIL-SAFE TEST 851057AA 851057-11A00 851057-44A00 COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 851057-82A00 851058AA B3 9-SERIES 930 CFE-1 DIAGNOSTIC 851058-11A00 851058-44A00 DESCRIPTION PRINTED COMPRESSED CARDS 851058-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 851060AA 83 851060-11A00 83 9-SERIES REAL TIME CLOCK TEST ROUTINE DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 851060-44A00

851062AA 93 930 9165 DISC EXERCISER DIAGNOSTIC ## 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105

851060-82A00 851060-84A00

851083AA B3 930 930 RAD DIAGNOSTIC FOR 9387 RAD 851063-11A00 851063-44A00 DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
9367 RAD TECHNICAL MANUAL 851063-82A00 901029

REPRINT 75.02

851064AA B3 930 HYBRID EXEC. LIB. FOR AEROSPACE CORP. DESCRIPTION PRINTED 851064-11A00 851064-44A00 COMPRESSED CARDS RELOCATABLE BINARY CARDS 851064-24A00 925 EXAMINER DIAGNOSTIC SYSTEM (COVER)
DESCRIPTION PRINTED
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 851100AA B3 9-SERIES 851100-11A00 900649 851100-82A00 851100-84A00 900649 XDS 925 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUA 851101AA B3 9-SERIES
851101-11A00 900649
851101-34A00 S0URCE CARDS
851101-82A00 851100-82 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851101-84A00 851100-84 ABSOLUTE BINARY CARDS
9000649 XDS 925 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUA 851102AA B3 9-SERIES
851102-11A00 900849
851102-334A00
851102-82A00 851100-82
851102-84A00 851100-84
851102-84A00 851100-84
900649

925 INSTRUCTION DIAGNOSTIC
SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS
XDS 925 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUA 851103AA B3 9-SERIES
851103-11A00 900649
851103-34A00 SOURCE CARDS
851103-82A00 851100-84 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851103-84A00 851100-84 ABSOLUTE BINARY CARDS
ADDITION PRINTED
SOURCE CARDS
ADDITION PRINTED
SOURCE CARDS
SOURCE 51104AA B3 9-SERIES 851104-11A00 851104AA 925 CFE-1 DIAGNOSTIC DESCRIPTION PRINTED COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 851104-44A00 851104-82A00 851104-84A00 PAPER TAPE - TYPEHRITER HANDLER 925/930 851106AA B3 9-SERIES DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
RELOCATABLE BINARY CARDS
COMPRESSED CARDS 851106-11800 851106-22A00 851106-24A00 851106-44A00 851107AA B3 9-SERIES 851107-11A00 851107-22A00 851107-44A00 EXTENDED MODE 1/0 TEST PROGRAM DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS COMPRESSED CARDS
ABSOLUTE BINARY CARDS 851107-84A00 925/930 CARD PUNCH AND VERIFY PROGRAM 83 9-SERIES 851108AA 851108-11A00 DESCRIPTION PRINTED SOURCE CARDS
ABSOLUTE BINARY CARDS 851108-34A00 S1109AA B3 9-SERIES CARD READ SUBROUTINE (CDR)
851109-11A00 DESCRIPTION PRINTED
851109-22A00 RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851109-34A00 850095-35 SOURCE CARDS 851109AA 925/930 CARD READER TEST PROGRAM 851110AA B3 9-SERIES 851110-11A00 851110-44A00 851110-82A00 DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 851110-84A00

| 851111A B3 9-SERIES 851111-11A00 851111-34A00 851111-82A00 851111-84A00 | 9158 CARD PUNCH TEST PROGRAM DESCRIPTION PRINTED SOURCE CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS |
|--|--|
| 851112AA 83 9-SERIES 851112-11A00 851112-22A00 851112-24A00 851112-44A00 | MAGNETIC TAPE HANDLER (EXTENDED MODE) DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS COMPRESSED CAROS |
| 851113AA 83 9-SERIES 851113-11A00 851113-44A00 851113-82A00 851113-84A00 | EXTENDED MODE MULTI-MAGNETIC TAPE EXER. DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS |
| 851114AA 83 9-SERIES 851114-11A00 851114-44A00 851114-82A00 851114-84A00 | MAGNETIC TAPE TEST PROGRAM FOR 925/930 DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS |
| 851115AA B3 9-SERIES 851115-11A00 851115-44A00 851115-82A00 851115-84A00 | DATA MULTIPLEX CHANNEL TEST 925/930 DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS |
| 851116AA B3 9-SERIES 851116-11A00 851116-44A00 851116-82A00 851116-84A00 | DSC-I DIAGNOSTIC TEST DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS |
| 851117AA B3 9-SERIES 851117-11A00 851117-44A00 851117-82A00 | DSC-II DIAGNOSTIC TEST DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS |
| 851118AA 83 9-SERIES 851118-11A00 851118-44A00 851118-82A00 851118-84A00 | DACC DIAGNOSTIC TEST HITH JX35 TESTER925 DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS |
| 851119AA 83 9-SERIES 851119-11A00 851119-44A00 851119-82A00 851119-84A00 | TMCC DIAGNOSTIC TEST FOR 925/930 DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS |
| 851121-22A00 851121-24A00 | 925/930 LINE PRINTER SUBROUTINE (PRINT) DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS COMPRESSED CARDS |
| 851122AA B3 9-SERIES 851122-11A00 851122-44A00 851122-82A00 851122-84A00 | 9174/9179 PRINTER DIAGNOSTIC 925/930 DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS |

```
851123AA 83
851123-11A00
851123-44A00
                    83 9-SERIES
                                         9379 PRINTER DIAGNOSTIC 925/930
DESCRIPTION PRINTED
                                          COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS
    851123-82A00
    851123-84A00
                                         9372 UNBUFFERED LINE PRINTER TEST 925/93
DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS
851124AA B3
851124-11A00
851124-44A00
                  83 9-SERIES
    851124-82A00
851124-84A00
851127AA
                    B3 9-SERIES
                                                           DISC FILE TEST PROGRAM
   851127-11A00
851127-14A00
851127-84A00
851127-84A00
                                          DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS
851128AA
                   B3 9-SERIES
                                                           DISC FILE DIAGNOSTIC (DFD) 925/930
                                         DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS
    851128-11A00
    851128-44A00
   851128-82A00
851128-84A00
   51129AC B3 9-SERIES RAD APOCALYPTIC DIAGNOSTIC (RAD) 925/930
851129-11C00 DESCRIPTION PRINTED
851129-44C00 860767-44 COMPRESSED CARDS
851129-82C00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
85112940
                   83 9-SERIES
851130AA
                                                           TEST PROGRAM DISC FILE MODEL 9367-A 925/
                                         DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
   851130-11A00
   851130-44A00
    851130-82A00
851131AA
                 B3 900-SERIES
                                                           SNAPSHOT SUBROUTINE
   851131-11A00
851131-24A00
                                         DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
    851131-44A00
                                          COMPRESSED CARDS
851134AA
                   83 925
                                                           9 TRACK MAGNETIC TAPE TEST PROGRAM
   851134-11A00
851134-44A00
                                         DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS
   851134-82A00
   851134-84A00
851135AA
                   B3 900-SERIES
                                                           SEMI AUTO TYPEHRITER TEST
   851135-11A00
851135-34A00
                                         DESCRIPTION PRINTED
                                         SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
   851135-82A00
                                         DEE-6D SIMULATOR SYSTEM DIAGNOSTIC DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851136AA B3
851136-11A00
851136-44A00
                   B3 930
   851136-82A00
851137AA 83
851137-11A00
851137-44A00
                                         JPL APS-100 SYSTEMS DIAGNOSTIC PROGRAM DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
                   83 910
   851137-82A00
851143AA 83
851143-11A00
851143-24A00
851143-44A00
                 B3 900-SERIES
                                                           UTILITY PACKAGE
                                        DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS
```

```
B3 900-SERIES LIST TAPE ROUTINE .
11A00 DESCRIPTION PRINTED
14A00 COMPRESSED CARDS
14A00 ABSOLUTE BINARY CARDS
851144AA
   851144-11A00
851144-44A00
   851144-84A00
                                                             15 KC MAGNETIC TAPE EXERCISER
851145AA B3
851145-11A00
                  B3 910
                                           DESCRIPTION PRINTED
   851145-34A00
851145-82A00
                                           SOURCE CARDS
                                           ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
                                                             LN-FLOATING-POINT NATURAL LOGARITHM
851149AA
                  83 92
   851149-11A00
851149-22A00
851149-34A00
                                          DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS SOURCE CARDS
                                                             SIN/COS-FLOATING-POINT SINE-COSINE SUBR.
851150AA 83 92
851150-11A00
                                          DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
   851150-22A00
   851150-34A00
                                           SOURCE CARDS
                                          ATAN-FLOATING-POINT ARCTANGENT SUBR.
DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
RELOCATABLE BINARY CARDS
SOURCE CARDS
                    83 92
85115144
   851151-11A00
   851151-22A00
   851151-24A00
   851151-34A00
                                                              INTERRUPT-INTERLACE I/O TEST PROGRAM
   51152AA B3 92
851152-11A00
851152-44A00
851152AA
                                           DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
   851152-82A00
                                                             EXAMINER DIAGNOSTIC SYSTEM (COVER)
851153AA 83 92
851153-11A00 900878
851153-82A00
                                           DESCRIPTION PRINTED
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
XDS92 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL HANUAL
    900878
                                                              DIAGNOSTIC (MAIN-FRAME DIAGNOSTIC)
   31154AA 83 92
851154-11A00 900878
851154AA
   DIAGNOSTIC (MAIN-FRAME DIAGNOSTIC)

851154-1400 900878 DESCRIPTION PRINTED

851154-92A00 851153-82 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

900878 XDS92 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
    2-4K MEMORY DIAGNOSTIC
851155-11400 900878 DESCRIPTION PRINTED
COMPRESSED CARDS
851155-82400 851153-82 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
900878 XDS92 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
85115544
                                                              8-16-32K MEMORY DIAGNOSTIC
 851156AA
                    B3 92
    DESCRIPTION PRINTED

S51156-11A00 900878 DESCRIPTION PRINTED

COMPRESSED CARDS

851156-94400 S51153-82 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

900878 XDS92 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
851157AA B3 92
851157-11A00
851157-34A00
851157-82A00
                                                              92 TYPEHRITER TEST
                                           DESCRIPTION PRINTED
SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
 851158AA 83
851158-11A00
                    83 92
                                            DESCRIPTION PRINTED
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
XDS SYMBOL AND META-SYMBOL REFERENCE MANUAL.
     851158-82A00
     900508
```

B3 92 851159AA PAPER TAPE+TYPEHRITER SUBROUTINE(PTYIO) DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
SOURCE CARDS 851159-11A00 851159-22A00 851160AA B3 92 851160-11A00 BINARY PAPER TAPE RELOCATING BOOTSTRAP DESCRIPTION PRINTED 851160-34A00 851160-82A00 SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 851161AA B3 92 BINARY PAPER TAPE BOOTSTRAP LOADER DESCRIPTION PRINTED 851161-11A00 851161-34A00 851161-82A00 SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 51162AA B3 92 851162-11A00 851162-34A00 851162AA UNIVERSAL BINARY LOADER (QUBLDR) DESCRIPTION PRINTED SOURCE CARDS 851162-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 851163AA **83 92** BINARY PAPER TAPE RELOCATING UPPER LOADE DESCRIPTION PRINTED
SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 851163-11A00 851163-34A00 851163-82A00 851166AA 83 92 851166-11A00 PAPER TAPE READER TEST DESCRIPTION PRINTED COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 851166-44A00 851166-82A00 CARD READ HANDLER (CDR)
DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
SOURCE CARDS 851167AA B3 851167-11A00 B3 92 851167-22A00 851167-34A00 851168AA B3 92 CARD READER TEST PROGRAM DESCRIPTION PRINTED 851168-11A00 851168-34A00 SOURCE CARDS 851168-74A00 850660-74 TEST DECK 851168-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 851169AA B3 92 MAGNETIC TAPE SUBROUTINE (MTAPE) DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
RELOCATABLE BINARY CARDS
SOURCE CARDS 851169-11A00 851169-22A00 851169-24400 851169~34A00 51170AA B3 92 851170-11A00 851170-34A00 851170AA MAGNETIC TAPE TEST PROGPAM DESCRIPTION PRINTED SOURCE CARDS 851170-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 851171AA B3 851171-11A00 B3 92 MULTI-MAGNETIC TAPE EXERCISER DESCRIPTION PRINTED 851171-34A00 851171-82A00 SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 851173AA 83 92 DSC-1 DIAGNOSTIC TEST FOR XDS 92 DESCRIPTION PRINTED
SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 851173-11A00 851173-34A00 851173-82A00

| 851174AA 83 92 851174-11A00 851174-34A00 851174-82A00 | DSC-II DIAGNOSTIC TEST FOR XDS 92 DESCRIPTION PRINTED SOURCE CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS |
|--|---|
| 851175AA 83 92 851175-11A00 851175-34A00 851175-82A00 | INT, BPO, BPI DIAGNOSTIC TEST FOR XDS 92 DESCRIPTION PRINTED SOURCE CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS |
| 851176AA B3 92 851176-11A00 851176-44A00 851176-82A00 851176-84A00 | MEMORY TO LINE PRINTER OCTAL DUMP DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS |
| 851177AA 83 92 851177-11A00 851177-24A00 851177-34A00 851177-82A00 | LINE PRINTER SUBROUTINE (PRINT) DESCRIPTION PRINTED RELOCATABLE BINARY CARDS SOURCE CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS |
| 851178AA 83 92 851178-11A00 851178-22A00 851178-34A00 | MOD. 9372 UNBUF. LINE PRINTER.SUBR.(PRIN DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS SOURCE CARDS |
| 851179AA 83 92 851179-11A00 851179-34A00 851179-82A00 | MOD. 9372 UNBUF.LINE PRINTER DIAGNOSTIC DESCRIPTION PRINTED SOURCE CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS |
| 851180AA 83 92 851180-11A00 851180-34A00 | BUFFERED LINE PRT. DIAGNOSTIC 9379/9171 DESCRIPTION PRINTED SOURCE CARDS |
| 851181AA 83 92 851181-11A00 851181-44A00 851181-82A00 851181-84A00 | MTE-2 MAGNETIC TAPE EXERCISER DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS |
| 851182AA | SCOPE TEST PROGRAM DESCRIPTION PRINTED SOURCE CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS |
| 851184AA B3 92 851184-11ADD 851184-34ADD 851184-82ADD | 92 RAD ANALYTIC DIAGNOSTIC DESCRIPTION PRINTED SOURCE CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS |
| 851185AA B3 92 851185-11A00 851185-34A00 851185-82A00 | TEST PROGRAM FOR DISC FILE 9367-A DESCRIPTION PRINTED SOURCE CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS |
| 851186AA 83 92 851186-11A00 851186-34A00 851186-82A00 | POWER FAIL-SAFE TEST DESCRIPTION PRINTED SOURCE CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS |
| | |
| | PAGE 68 - 01/31/75 |

851187-A B3 92 REAL TIME CLOCK TEST
851187-34A00 DESCRIPTION PRINTED
851187-82A00 SOURCE CARDS
851187-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851187-84A00 ABSOLUTE BINARY CARDS

851257AB 83 900-SERIES 925/930 RTM STAND-ALONE UPDATE 851257-11800 0ESCRIPTION PRINTED 851257-45800 851500-45 COMPRESSED MAG TAPE, 7 CHANNELS 851257-84800 ABSOLUTE BINARY CARDS

851258AA 83 910 910/925 MONARCH FOR UNBUFFERED PRINTER 851258-11A00 DESCRIPTION PRINTED 851258-85A00 ABSOLUTE BINARY MAG TAPE, 7 CHANNELS

851259AA B3 920 920/930 MONARCH FOR UNBUFFERED PRINTER 851259-85A00 DESCRIPTION PRINTED ABSOLUTE BINARY MAG TAPE, 7 CHANNELS

851260AA 83 925 925 RAD MONARCH FOR UNBUFFERED PRINTER 851260-11A00 DESCRIPTION PRINTED 851260-85A00 ABSOLUTE BINARY MAG TAPE. 7 CHANNELS

851261AA B3 930 930 RAD MONARCH FOR UNBUFFERED PRINTER 851261-11A00 DESCRIPTION PRINTED 851261-85A00 ABSOLUTE BINARY MAG TAPE, 7 CHANNELS

851290AA B3 9-SERIES MONARCH MPRNT (UNBUF) 851290-35A00 850000-35 SOURCE MAG TAPE, 7 CHANNELS

851291-22400 850000-35 SOURCE MAD TAPE, 7 LEVELS 851291-35400 850000-35 SOURCE MAD TAPE, 7 CHANNELS COMPRESSED CARDS

851292AA ## 83 9-SERIES ## MONARCH CDRP
851292-11A00 DESCRIPTION PRINTED
851292-22A00 RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851292-24A00 ## 850000-35 SOURCE MAG TAPE, 7 CHANNELS

851293AA B3 9-SERIES MONARCH PTYIO
851293-21400 DESCRIPTION PRINTED
851293-22400 RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851293-35A00 850000-35 SOURCE MAG TAPE, 7 CHANNELS

851294AA ## 83 9-SERIES ## MONARCH MTAPE

851294-11400 ## DESCRIPTION PRINTED

851294-22400 ## RELOCATABLE BINARY PAPER TAPE, 7 LEVELS

851294-35400 ## 850000-35 SOURCE MAG TAPE, 7 CHANNELS

```
MONARCH PRINT
                                                  83 9-SERIES
851295AA
        ## DESCRIPTION PRINTED
## S1295-11A00
## DESCRIPTION PRINTED
## S1295-22A00
## RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
## S1295-35A00
## S129
                                                                                                                   EXT.I/O TEST (NAV.TOR.STA.SYS.,ADD-ON)
DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
                                                      B3 930
851299AA
        851299-11A00
851299-22A00
          851299-34A00
                                                                                                                    SOURCE CARDS
        | 1300AC | B3 900-SERIES | 925/930 FORTRAN IV LIBRARY | 851300-11801 | DESCRIPTION PRINTED | 851300-25800 | 851500-25 | RELOCATABLE BINARY MAG TAPE, 7 CHANNELS | 851300-64801 | UPDATE ON CARDS | COMPRESSED MAG TAPE, 7 CHANNELS | UPDATE ON CARDS |
851300AC
                                                                                                                                                                   925/930 REAL-TIME MONITOR
851500AC
                                                    83 900-SERIES
                                                                                            DESCRIPTION PRINTED
RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
COMPRESSED MAG TAPE, 7 CHANNELS
        851500-11000
        851500-25D00
851500-45D00
851500-74D00
                                                                                                                    TEST DECK
                                                                                                                  ARRAYS PROGRAM FOR NAVAL TORPEDO STATION DESCRIPTION PRINTED
                                                 B3 930
851579AA
        851579-11A00
851579-44A00
851579-82A00
                                                                                                                    COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE. 7 LEVELS
                                                                                                                   INTER-COMPUTER COUPLER TEST
DESCRIPTION PRINTED
851580AA
                                                      B3 930
        851580-11A00
                                                                                                                    SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS
         851580-34A00
          851580-82A00
        851580-84A00
                                                      83 900-SERIES
                                                                                                                                                                  900 SERIES FORTRAN IV COMPILER
851583AA
        851583AA 83 900-SERIES 900 SERIES FORTKAN IV COMPLET

851583-11A00 851500-11 DESCRIPTION PRINTED

851583-25A00 RELOCATABLE BINARY MAG TAPE, 7 CHANNELS

851583-35A00 SOURCE MAG TAPE, 7 CHANNELS

851583-55A00 LISTING MAG TAPE, 7 CHANNELS
                                                                                                                                                                      ACCEPTANCE PROG. FOR DATA COMMUNICATION
 851584AA
                                                      B3 9-SERIES
                                                                                                                   DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
         851584-11A00
         851584-44A00
851584-82A00
                                                                                                                                                                      COMMUNICATION BUFFER CHECKOUT PROGRAM
851585AA
                                                      B3 9-SERIES
                                                                                                                  DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
          851585-11A00
          851585-44400
          851585-82A00
                                                                                                                   FLN -FLOATING NEGATE SUBROUTINE DESCRIPTION PRINTED
 851586AA
          851586-11A00
851586-34A00
                                                                                                                     SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
          851586-82A00
        51587AA B3 92
851587-11A00
851587-34A00
851587-82A00
851587-84A00
                                                                                                                                                                     FLOAT -FIXED TO FLOATING SUBROUTINE
 851587AA
                                                                                                                     DESCRIPTION PRINTED
SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS
```

85158844 FIX -FLOATING TO A FIXED SUBROUTINE DESCRIPTION PRINTED B3 92 851588-11A00 SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 851588-34A00 851588-82A00 851588-84A00 DVASIM -SIMULATED DVA INSTRUCTION
DESCRIPTION PRINTED
SOURCE CARDS
ARSOLUTE ROLL 851589AA B3 92 851589-11A00 851589-34A00 851589-82400 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS 851589-84A00 851590AA B3 92 DVBSIM -SIMULATED DVB INSTRUCTION 851590-11A00 851590-34A00 DESCRIPTION PRINTED SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 851590-82A00 851590-84A00 51591AA B3 92 851591-11A00 MUASIM -SIMULATED MUA INSTRUCTION DESCRIPTION PRINTED 851591AA SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 851591-34A00 851591-82A00 851592AA B3 92 MUBSIM -SIMULATED MUB INSTRUCTION 851592-11A00 DESCRIPTION PRINTED SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 851592-34A00 851592-82A00 851592-84400 NORMZ -FLOATING NORMALIZE SUBROUTINE DESCRIPTION PRINTED 851593AA B3 92 851593-11A00 851593-34A00 851593-82A00 SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 851593-84A00 851594AA B3 92 SQRT -FLOATING-POINT SQUARE ROOT SUBRT. 851594-11A00 851594-34A00 DESCRIPTION PRINTED SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 851594-82A00 851594-84A00 EFFADR -EFFECTIVE ADDRESS ROUTINE DESCRIPTION PRINTED 31595AA 83 92 851595-11A00 851595AA SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 851595-34A00 851595-82A00 851595-84A00 EXP -FLOATING POINT EXPONENTIAL DESCRIPTION PRINTED SOURCE CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS 851596AA B3 92 851596-11A00 851596-34A00 851596-82A00 851596-84A00 85159744 83 92 FLOATING POINT ARITHMETIC PKGE, FLPT92 851597-11A00 DESCRIPTION PRINTED SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 851597-34400 851597-82A00 851597-84A00 S 910 SYMBOL 4
DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
SOURCE CARDS
XDS 900 SERIES SYMBOL TECHNICAL MANUAL 51598AA B3 900-SERIES 851598-11A00 (RETERRAL 851598-22A00 851598-34A00 900688851599AA B3 900-SERIES 910 SYMBOL 4 BUF. LINE PRINTER MOD. 851599-11A00 DESCRIPTION PRINTED 851599-22A00 RELOCATABLE BINARY PAPER TAPE, 7 LEVELS

851600AA 83 900-SERIES 910 SYMBOL 4 UNBUF. LINE PRINTER MOD 851600-11A00 DESCRIPTION PRINTED 851600-22A00 RELOCATABLE BINARY PAPER TAPE, 7 LEVELS

851601AA B3 900-SERIES 910 SYMBOL 4 TABLE PRINTER
851601-11A00 DESCRIPTION PRINTED
851601-22A00 RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851601-34A00 SOURCE CARDS

851602AA 83 900-SERIES 910/920 SYMBOL 4
851602-11A00 DESCRIPTION PRINTED
851602-22A00 RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
900688 XDS 900 SERIES SYMBOL TECHNICAL MANUAL

851603AA B3 900-SERIES 910/920 SYMBOL 4 UNBUF. PRINTER MOD 851603-11A00 DESCRIPTION PRINTED 851603-22A00 RELOCATABLE BINARY PAPER TAPE, 7 LEVELS

851604AA ## 83 900-SERIES ## 920 SYMBOL 4

851604-11A00 ## DESCRIPTION PRINTED

851604-22A00 ## RELOCATABLE BINARY PAPER TAPE, 7 LEVELS

851604-34A00 ## SOURCE CARDS

900688 ## XDS 900 SERIES SYMBOL TECHNICAL MANUAL

851605AA B3 900-SERIES 920 SYMBOL 4 BUF. LINE PRINTER MOD 851605-11A00 DESCRIPTION PRINTED 851605-22A00 RELOCATABLE BINARY PAPER TAPE, 7 LEVELS 851605-34A00 SOURCE CARDS

851606AA B3 900-SERIES 920 SYMBOL 4 UNBUF. LINE PRINTER MOD 851606-11A00 DESCRIPTION PRINTED 851606-22A00 RELOCATABLE BINARY PAPER TAPE, 7 LEVELS 851606-34A00 SOURCE CARDS

851607AA B3 900-SERIES 920 SYMBOL 4 TABLE PRINTER
851607-11A00 DESCRIPTION PRINTED
851607-34A00 SOURCE CARDS
851607-22A00 RELOCATABLE BINARY PAPER TAPE, 7 LEVELS

851609AA B3 900-SERIES 920/910 SYMBOL 4 BUF. LINE PRINTER MOD 851609-11A00 DESCRIPTION PRINTED 851609-22A00 RELOCATABLE BINARY PAPER TAPE, 7 LEVELS

851610AA B3 900-SERIES 920/910 SYMBOL 4 UNBUF. PRINTER MOD 851610-11A00 DESCRIPTION PRINTED 851610-22A00 RELOCATABLE BINARY PAPER TAPE, 7 LEVELS 851610-34A00 SOURCE CARDS

851612AA 83 900-SERIES 851612-11A00 0 920/930 SYMBOL 8 UNBUF. PRINTER VERSION S 920/930 SYMBOL 8 UNBUF. PRIN DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS SOURCE CARDS XDS 900 SERIES SYMBOL TECHNICAL MANUAL 851612-22A00 851612-34A00 900688-

1-CARD DUMP PUNCH PROGRAM
DESCRIPTION PRINTED
SOURCE CARDS 851613AA 83 9-SERIES 851613-11A00 851613-34A00

RAD TO MAGNETIC TAPE DUMP DESCRIPTION PRINTED RELOCATABLE BINARY CARDS SOURCE CARDS 851614AA B3 9-SERIES 851614-11A00 851614-24A00

851614-34A00

851615AA 83 930 851615-11A00 DIGITAL I/O TEST FOR GD/C ATS DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 851615-44A00 851615-82A00

51616AA 83 930 851616-11A00 851616-44A00 851616-82A00 ANALOG/NSC-II TEST FOR GD/C ATS DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 851618AA

851617AA 83 930 ANALOG ACCURACY TEST FOR GD/C ATS DESCRIPTION PRINTED 851617-11A00 851617-44A00 851617-82A00 COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

851618AA B3 910 ANALOG TEST FOR G.D./CONVAIR 851618-11A00 851618-44A00 DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY CARDS 851618-84A00

851619AA B3 851619-11A00 851619-44A00 B3 910 SAMPLE AND HOLD TEST FOR G.D./CONVAIR DESCRIPTION PRINTED
COMPRESSED CARDS 851619-84A00 ABSOLUTE BINARY CARDS

851620AA 83 910 851620-11A00 SPECIAL ACCEPTANCE TEST FOR G.D./CONVAIR DESCRIPTION PRINTED COMPRESSED CARDS 851620-44A00 851620-84A00 ABSOLUTE BINARY CARDS

851623AA B3 9-SERIES 900 PAPER TAPE PUNCH TEST DESCRIPTION PRINTED 851623-11A00 851623-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

52000AA B3 9-SERIES 852000-11A00 85200044 9-SERIES SOFTHARE NOTES COVER DESCRIPTION PRINTED

860000AC B3 9300 860000-11800 860000-45800 860000-74800 900513 TAPE MONITOR SYSTEM (COVER) TAPE MONITOR SYSTEM (
DESCRIPTION PRINTED
COMPRESSED MAG TAPE, 7 CHANNELS
CONTROL CARD AND TEST DECK
9300 MONITOR REFERENCE MANUAL
9300 MONITOR TECHNICAL MANUAL 900884

```
7/8 LEVEL READER/PUNCH TEST
DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS
860007AA
                         B3 9300
     860007-11A00
     860007-44400
    860007-82A00
860007-84A00
                                                             FORT IV COMPILER AND LIBRARIES COMPRESSED MAG TAPE, 7 CHANNELS UPDATE INSTRUCTIONS PRINTED UPDATE ON CARDS XEROX FORTRAN IV TECH MANUAL
860035AB B3
860035-45A00
860035-61A01
860035-64A01
                           R3 9300
     900883
                                                                                         META-SYMBOL ASSEMBLER-COVER
860075AA B3
860075-11A00
860075-45A00
                                                             META-SYMBOL ASSEMBLER-COVER
DESCRIPTION PRINTED
COMPRESSED MAG TAPE, 7 CHANNELS
900 SERIES/9300 SYMBOL AND META-SYMBOL REFERENCE MANUAL
META-SYMBOL TECHNICAL MANUAL
                             B3 9300
      900506
     900827
     50095AB 83 9300 FORTRAN IV LIBRARY

860095-11A00 BESCRIPTION PRINTED

860095-45A00 860035-45 COMPRESSED MAG TAPE, 7 CHANNELS

860095-61A01 860035-61 UPDATE INSTRUCTIONS PRINTED

860095-64A01 860035-84 UPDATE ON CAROS
860095AB
860265AB B3 9300 REAL-TIME FORTRAN IV LIBRARY
860265-45A00 860035-45 COMPRESSED MAG TAPE, 7 CHANNELS
860265-61A01 860035-61 UPDATE INSTRUCTIONS PRINTED
860265-64A01 860035-64 UPDATE ON CARDS
     0460AA B3 9300 MACHINE LANGUAGE LIBRARY (COVER)
860460-24A00 860000-25 RELOCATABLE BINARY CARDS
860460-84A00 860000-85 ABSOLUTE BINARY CARDS
 860460AA
                                                              9300 MANAGE SYSTEM (COVER)
DESCRIPTION PRINTED
COMPRESSED MAG TAPE, 7 CHANNELS
900 SERIES/9300 MANAGE REFERENCE MANUAL
 860475AA
                             83 9300
     860475-11A00
860475-45A00
      901046
                                                              9300 BUSINESS LANGUAGE LIBRARY-COVER
DESCRIPTION PRINTED
COMPRESSED MAG TAPE, 7 CHANNELS
900 SERIES/9300 COMPUTERS BUSINESS LANG
XDS BUSINESS LANGUAGE REFERENCE MANUAL
 860490AA
                           B3 9300
      860490-11A00
860490-45A00
      901022
                                                                                          MONARCH SYSTEM (COVER)
  860530AA B3
860530-11A00
                             83 9300
                                                               DESCRIPTION PRINTED
COMPRESSED MAG TAPE. 7 CHANNELS
ABSOLUTE BINARY MAG TAPE, 7 CHANNELS
900 SERIES/9300 MONARCH REFERENCE MANUAL
900 SERIES/9300 MONARCH TECHNICAL MANUAL
       860530-45A00
860530-85A00
       900566
       900616
                               R3 9300
       860563-84800 850692-11 DESCRIPTION PRINTED
860563-35800 850095-35 SOURCE MAG TAPE, 7 CHANNELS
860563-84800 ABSOLUTE BINARY CARDS
       00592AA B3 9300 PROJECT MANAGEMENT SYSTEM (CPM) COVER
00592-24A00 050161-25 RELOCATABLE BINARY CARDS
000818 XDS PROJECT MANAGEMENT SYSTEM REFERENCE MANUAL
000822 XDS PROJECT MANAGEMENT SYSTEM TECHNICAL MANUAL
001504 XDS EXTENDED PROJECT MANAGEMENT SYSTEMS
   860592AA
```

86060544 B3 9300 9300 PAPER TAPE BASIC RELOCATABLE LOADER DESCRIPTION PRINTED 860605-11A00 860605-34A00 860605-82A00 SOURCE CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 9300 DEBUG DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS 860606AA B3 9300 00ASS-909098 860606-24A00 860606-34A00 SOURCE CARDS 860607AA 83 860607-11A00 BASIC UTILITY PACKAGE 9300 DESCRIPTION PRINTED . B3 9300 COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 860607-44400 860607-82A00 860608AA B3 9300 BINARY DUMP PAPER TAPE OR CARDS DESCRIPTION PRINTED 860608-11A00 COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 860608-44A00 860608-82A00 860608-84A00 UNIVERSAL LOADER
DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
COMPRESSED CARDS
ABSOLUTE BINARY CARDS 860609AA B3 9300 860609-11A00 00A52-609098 860609-84A00 860610-11400 860610-22400 83 9300 9300 REAL TIME DEBUG DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 7 LEVELS 860610-84A00 ABSOLUTE BINARY CARDS 860611AA 83 9300 860611-11A00 UTILITY AND DEBUG PACKAGE (AID) DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
COMPRESSED CARDS
ABSOLUTE BINARY CARDS 860611-22A00 860611-84A00 860612AA B3 9300 RUNGE-KUTTA GILL DIFFERENTIAL EQUATIONS 860612-11A00 DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
RELOCATABLE BINARY CARDS 860612-24A00 860612-34A00 SOURCE CARDS RUNGE-KUTTA GILL DIFF. EQU. FLOAT.POINT DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS B3 9300 860613AA 860613-11A00 860613-22A00 860613-24A00 860613-34A00 SOURCE CARDS POLYNOMIAL EVALUATION (COMPLEX ARGUMENT)
DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
RELOCATABLE BINARY CARDS RECEIVAA B3 9300 860614-11A00 860614-22A00 860614-34A00 SOURCE CARDS 860615AA 83 9300 860615-11A00 ADAMS-MOULTON DIFFERENTIAL EQUATIONS DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS 860615-22A00 860615-24A00

| 860616AA B3 9300 860616-11A00 860616-22A00 860616-24A00 860616-34A00 | FLOATING NEGATE SUBROUTINE - FLN DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
|--|---|
| 860617AA B3 9300 860617-11A00 860617-34A00 860617-22A00 860617-24A00 | PROGRAMMED FLOATING POINT PACKAGE-FLPT DESCRIPTION PRINTED SOURCE CARDS RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS |
| 860618AA B3 9300 860618-11A00 860618-22A00 860618-24A00 860618-34A00 | EXPONENTAIL OF A - EXP DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860619AA B3 9300 860619-11A00 860619-22A00 860619-24A00 860619-34A00 | SIN OR COS OF A - SIN COS DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860620AA 83 9300 860620-11A00 860620-22A00 860620-24A00 860620-34A00 | ARCTAN OF A - ATN DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860621AA B3 9300 860621-11A00 860621-22A00 860621-24A00 860621-34A00 | DOUBLE PRECISION MULTIPLY SUBROUTINE-DPM DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860622AA 83 9300 860622-11A00 860622-22A00 860622-24A00 860622-34A00 | SQUARE ROOT OF A - SQR DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860623AA 83 9300 860623-11A00 860623-22A00 860623-24A00 860623-34A00 | SQUARE ROOT FLOATING POINT - SQF DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860624AA B3 9300 860624-11A00 860624-22A00 860624-24A00 860624-34A00 | DOUBLE PRECISION DIVIDE SUBROUTINE-DPD DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860625AA B3 9300 860625-11A00 860625-22A00 860625-24A00 860625-34A00 | FLOATING POINT LOGARITHM - LOF DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860626AA B3 9300 860626-11A00 860626-22A00 860626-24A00 860626-34A00 | FLOATING-HYPERBOLIC SINE AND COSINE-SHF DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |

| 860627AA B3 9300 860627-11A00 860627-22A00 860627-24A00 860627-34A00 | FLOATING POINT EXPONENTIAL - EXP DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
|--|--|
| 860628AA B3 9300 860628-11A00 860628-22A00 860628-24A00 860628-34A00 | FLOATING POINT SINE (COSINE)-SNF (CSF) DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860629AA B3 9300 860629-11A00 860629-22A00 860629-24A00 860629-34A00 | FLOATING POINT ARCTANGENT - ATF DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860630AA B3 9300 860630-11A00 860630-22A00 860630-24A00 860630-34A00 | FLOATING POINT, COMPLEX ARITH. PACKAGE DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860631AA B3 9300 860631-11A00 860631-22A00 860631-24A00 860631-34A00 | FLOATING POINT COMPLEX EXPONENTIAL-EXFC DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860632AA B3 9300 860632-11A00 860632-22A00 860632-34A00 | FLOATING POINT COMPLEX LOGARITHM - LNFC DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS SOURCE CARDS |
| 860633AA B3 9300 860633-11A00 860633-22A00 860633-24A00 860633-34A00 | FLOATING POINT COMPLEX SQUARE ROOT-SQFC DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860634AA 83 9300 860634-11A00 860634-22A00 860634-24A00 860634-34A00 | FLOATING POINT COMPLEX ARCTANGENT - ATFC DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860635AA B3 9300 860635-11A00 860635-22A00 860635-24A00 860635-34A00 | FLOATING COMPLEX SINE AND COSINE - SNFC DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860636AA B3 9300 860636-11A00 860636-22A00 860636-24A00 860636-34A00 | LOGARITHM SUBROUTINE TO BASE E OR 10 DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860637AA B3 9300 860637-11A00 860637-22A00 860637-24A00 860637-34A00 | FL. PT. EXTENDED PRECISION SQUARE ROOT DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |

| 860638AA 83 860638-11A00 860638-22A00 860638-24A00 860638-34A00 | 9300 | EXTENDED PRECISION ARITHMETIC PACKAGE DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
|---|------|--|
| 860639AA B3 860639-11A00 860639-22A00 860639-24A00 860639-34A00 | | BINARY TO DECIMAL CONVERSION-BTDFL1 DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860640AA 83 860640-11A00 860640-22A00 860640-24A00 860640-34A00 | | BINARY TO BCD CONVERTED BTDFX2,BTDFL2 DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860641AA B3 860641-11A00 860641-34A00 860641-84A00 | 9300 | ONE CARD OCTAL MEMORY DUMP (PRINTER) DESCRIPTION PRINTED SOURCE CARDS ABSOLUTE BINARY CARDS |
| 860642A B3 860642-11A00 860642-22A00 860642-24A00 860642-34A00 | | FL. PT.EXTENDED PRECISION EXPONENTIAL DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860643AA B3 860643-11A00 860643-22A00 860643-24A00 860643-34A00 | 9300 | DECIMAL/BINARY CONVERSION ROUTINES DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE. 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860644-A B3 860644-11A00 860644-22A00 860644-24A00 860644-34A00 | 9300 | DECIMAL TO BINARY CONVERSION - DTBFX DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE. 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860845AA B3 860645-11A00 860645-22A00 860645-24A00 860645-34A00 | 9300 | 9300 DISPLAY CONVERSION (DISCV)-S SEE DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860646-11A00 | * | FL. PT. EXTENDED PRECISION NATURAL LOG DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 880647AA 83 860647-11A00 860647-22A00 860647-24A00 860647-34A00 | 9300 | F. P. EXTENDED PRECISION SIN (COS)-SNFE DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860848A 83 860848-11A00 860848-22A00 860848-24A00 860848-44A00 | 9300 | PAPER TAPE AND TYPEHRITER SUBROUTINE DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS COMPRESSED CARDS |

860650AA FL. PT. EXTENDED PRECISION ARCTAN - ATFE
DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
RELOCATABLE BINARY CARDS
COMPRESSED CARDS 83 9300 860650-11A00 860650-22400 860650-24A00

860650-44400

REAL MATRIX ADDITION-RMADD
DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
SOURCE CARDS 860651AA B3 9300 860651-11A00 860651-24A00 860651-34A00

860652AA B3 9300 REAL MATRIX SUBTRACTION - RMSUB DESCRIPTION PRINTED RELOCATABLE BINARY CARDS 860652-11A00 860652-24A00

REAL MATRIX TRANSPOSE-RMTRA
DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
SOURCE CARDS 860653AA 83 9300 860653-11A00 860653-24A00 860653-34A00

REAL MATRIX MULTIPLY-RMMUL DESCRIPTION PRINTED RELOCATABLE BINARY CARDS SOURCE CARDS 86065444 B3 9300 860654-11A00 860654-24A00 860654-34A00

REAL MATRIX INVERSION-RMINY DESCRIPTION PRINTED RELOCATABLE BINARY CARDS SOURCE CARDS 86065544 83 9300 860655-11A00 860655-24A00 860655-34A00

83 9300 COMPLEX MATRIX ADDITION-CMADD DESCRIPTION PRINTED RELOCATABLE BINARY CARDS SOURCE CARDS 860656AA 860656-11A00 860656-24A00 860656-34A00

860657AA COMPLEX MATRIX INVERSION-CHINV DESCRIPTION PRINTED RELOCATABLE BINARY CARDS SOURCE CARDS B3 9300 860657-11A00 860657-24A00 860657-34A00

COMPLEX MATRIX MULTIPLICATION-CHMUL DESCRIPTION PRINTED RELOCATABLE BINARY CARDS SOURCE CARDS 86065BAA B3 9300 860658-11A00 860658-24A00 860658-34A00

COMPLEX MATRIX SUBTRACTION-CMSUB 860659AA B3 9300 DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
SOURCE CARDS 860659-11A00 860659-24A00 860659-34A00

860660AA 83 9300 860660-11A00 COMPLEX MATRIX TRANSPOSE-CHTRA DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
SOURCE CARDS 860660-34400

00661AA B3 9300 860661-11A00 900624 860661-24A00 900624 EXAMINER DIAGNOSTIC (COVER)
DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
XDS 9300 EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL 860661AA

| 860662AA B3 9300 860662-11A00 900624 860662-34A00 860662-82A00 860662-84A00 | VERIFIER AND SEMI-AUTOMATIC DIAGNOSTIC DESCRIPTION PRINTED SOURCE CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS |
|---|--|
| 860663AA B3 9300 860663-11A00 900624 860663-34A00 860663-82A00 860663-84A00 | MEMORY DIAGNOSTIC DESCRIPTION PRINTED SOURCE CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS |
| 860664AA B3 9300 860664-11A00 900624 860664-44A00 860664-82A00 860664-84A00 | AUTOMATIC INSTRUCTION DIAGNOSTIC DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS |
| 860665AA B3 9300 860665-11A00 900624 860665-34A00 860665-82A00 860665-84A00 | P AND S REGISTER TESTER DESCRIPTION PRINTED SOURCE CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS |
| 860666AA 83 9300 860666-11A00 860666-44A00 860666-82A00 860666-84A00 | SEMI-AUTOMATIC TYPEWRITER TEST (SATT) DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS |
| 860667AA B3 9300 860667-11A00 860667-24A00 860667-34A00 860667-82A00 | INTERRUPT EXERCISER DESCRIPTION PRINTED RELOCATABLE BINARY CARDS SOURCE CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS |
| 860669AA B3 9300 860669-11A00 860669-22A00 860669-24A00 860669-34A00 | SINE/COSINE SINRX,COSRX,SINDX,COSDX DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860670AA B3 9300 860670-11A00 860670-22A00 860670-24A00 860670-34A00 | 9300 EXPONENTIAL (E OR 10) EXPNX.EXPTX DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860671AA B3 9300 860671-11A00 860671-22A00 860671-24A00 860671-34A00 | 9300 ARCTANGENT ATNRX,ATNDX DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860672AA B3 9300 860672-11A00 860672-22A00 860672-24A00 860672-34A00 | FLOATING POINT EXPONENTIAL EXFN, EXFT DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860673AA B3 9300 860673-11A00 860673-22A00 860673-24A00 860673-34A00 | F. P. SINE/COSINE-SNFR(CSFR)SNFD(CSFD) DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |

| 860674AA B3 9300 860674-11A00 860674-22A00 860674-24A00 860674-34A00 | LOGARITHM (BASE E OR 10)-LGFN,LGFT DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
|--|---|
| 860675AA B3 9300 960675-11A00 860675-22A00 960675-24A00 860675-34A00 | FL. PT. ARCTANGENT-ATFR,ATFD DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860676AA B3 9300 860676-11A00 860676-22A00 860676-24A00 860676-34A00 | ARCSINE, ARCCOSINE (DEGREES-RADIANS) DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860677AA 83 9300 860677-11A00 860677-22A00 860677-24A00 860677-34A00 | ARCSINE, ARCCOSINE-ASNX, ACSX, ASNDC, ACSDX DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860678AA B3 9300 860678-11A00 860678-22A00 860678-24A00 860678-34A00 | TANGENT-TAN.TAND DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860679AA 83 9300 860679-11A00 860679-22A00 860679-24A00 860679-44A00 | INTERNAL SORT (SORTAC, SORTDC) DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS COMPRESSED CARDS |
| 860680AA B3 9300 860680-11A00 860680-22A00 860680-24A00 860680-34A00 | TANGENT-TANX, TANDX (DEGREES OR RADIANS) DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860681AA B3 9300 860681-11A00 860681-22A00 860681-24A00 860681-34A00 | HYBRID RUNGE-KUTTA GILL INTEGRATION DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860682AA B3 9300 860682-11A00 860682-22A00 860682-24A00 860682-34A00 | LINEAR INTERPOLATION (3 ARGUMENTS) DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860683AA B3 9300 860683-11A00 860683-22A00 860683-24A00 860683-34A00 | LINEAR INTERPOLATION (2 ARGUMENTS) DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860684AA 83 9300 860684-11A00 860684-22A00 860684-24A00 860684-34A00 | LINEAR INTERPOLATION (1 ARGUMENT) DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |

| 860685AA B3 9300 860685-11A00 860685-22A00 860685-24A00 860685-34A00 | HYBRID ADAMS-MOULTON DIFF. EQUATIONS DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE. 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
|--|--|
| 860686AA B3 9300 860686-11A00 860686-22A00 860686-24A00 860686-34A00 | HYBRID RECTANGULAR INTEGRATION DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860687AA 83 9300 860687-11A00 860687-22A00 860687-24A00 860687-34A00 | HYBRID 2-POINT PREDICTOR DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860688AA B3 9300 860688-11A00 860688-22A00 860688-24A00 860688-34A00 | HYBRID 4-POINT PREDICTOR DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860689AA 83 9300 860689-11A00 860689-22A00 860689-24A00 860689-34A00 | HYBRID 4-POINT CORRECTOR DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS SOURCE CARDS |
| 860690AA B3 9300 860690-11A00 860690-22A00 860690-34A00 | ADAMS-MOULTON SOLN ORDINARY DIFF. EQUATION DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS SOURCE CARDS |
| 860692AA B3 9300 860692-11A00 860692-24A00 900884 | 9300 STAND-ALONE SYSTEM-MAKE ROUTINE DESCRIPTION PRINTED RELOCATABLE BINARY CARDS 9300 MONITOR TECHNICAL MANUAL, |
| 860694AA 83 9300 860694-11A00 860694-24A00 860694-44A00 | MAG TAPE COPY AND VERIFY PROGRAM DESCRIPTION PRINTED RELOCATABLE BINARY CARDS COMPRESSED CARDS |
| 860696AA 83 9300 860696-11A00 860696-34A00 860696-82A00 860696-84A00 | BIG MEMORY DIAGNOSTIC DESCRIPTION PRINTED SOURCE CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS |
| 860697AA 83 9300 860697-11A00 860697-34A00 860697-84A00 | POLYNOMIAL TELESCOPER DESCRIPTION PRINTED SOURCE CARDS ABSOLUTE BINARY CARDS |
| 860698AA B3 9300 860698-11A00 860698-84A00 | KHIC INDEX PROGRAM FOR SIGMA DESCRIPTION PRINTED ABSOLUTE BINARY CARDS |
| 860700AA B3 9300 860700-11A00 860700-34A00 | FORTRAN IV ERROR CHECKING DEMO DESCRIPTION PRINTED SOURCE CARDS |

860716AA B3 9300 BINARY INPUT--PAPER TAPE LOADER 860716-11A00 860716-34A00 DESCRIPTION PRINTED SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 860716-82A00 860718AA B3 9300 860718-11A00 EXTENDED MODE 1/0 TEST PROGRAM DESCRIPTION PRINTED COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 860718-44A00 860718-82A00 860718-84A00 860719AA B3 9300 860719-11A00 PHOTO-READER TEST PROGRAM DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 860719-44A00 860719-82A00 860719-84A00 BASIC 2 CARD RELOCATABLE LOADER DESCRIPTION PRINTED SOURCE CARDS ABSOLUTE BINARY CARDS 50720AA 83 9300 860720-11A00 860720AA 860720-34A00 860720-84A00 860721AA B3 9300 860721-11A00 860721-34A00 860721-84A00 BINARY INPUT-1 CARD ABS. LOADER DESCRIPTION PRINTED SOURCE CARDS ABSOLUTE BINARY CARDS ONE CARD OCTAL HEMORY DUMP (TYPEWRITER) 860722AA 0722AA 83 9300 860722-11A00 860722-34A00 860722-84A00 SOURCE CARDS
ABSOLUTE BINARY CARDS 860723AA B3 9300 OCTAL INPUT-1 CARD LOADER DESCRIPTION PRINTED 860723-11A00 860723-34400 SOURCE CARDS
ABSOLUTE BINARY CARDS 860723-84A00 860726AA B3 9300 CARD READ SUBROUTINE - COR DESCRIPTION PRINTED
RELOCAT: E BINARY PAPER TAPE, 7 LEVELS
RELOCATABLE BINARY CARDS
COMPRESSED CARDS 860726-11A00 860726-22A00 860726-24A00 860726-44A00 CARD READER TEST PROGRAM
DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE. 7 LEVELS
ABSOLUTE BINARY CARDS 860727AA B3 9300 860727-11A00 860727-44400 860727-82A00 860727-84A00 CARD PUNCH TEST PROGRAM
DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 860729AA B3 9300 860729-11A00 860729-44400 860729-82400 860729-84A00 86073044 9158 CARD PUNCH TEST PROGRAM DESCRIPTION PRINTED B3 9300 860730-11A00 SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 860730-34A00 860730-82A00 860730-84A00

1/0 HANDLER CDRP
DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
RELOCATABLE BINARY CARDS 860731AA B3 9300 860731-11A00 860731-22A00 860731-24A00 860731-44A00 COMPRESSED CARDS B3 9300 MAGNETIC TAPE HANDLER (MTAPE) 860732AA DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
RELOCATABLE BINARY CARDS
COMPRESSED CARDS 860732-11A00 860732-22A00 860732-24A00 860732-44A00 CARD OR MAG. TAPE UNIVERSAL LOADER
DESCRIPTION PRINTED
SOURCE CARDS
ABSOLUTE BINARY CARDS 860733AA B3 9300 860733-11A00 860733-34A00 860733-84A00 MAG TAPE TRANSFORMATION (TRANSFORM) 860734AA B3 860734-11A00 83 9300 DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS 860734-24A00 860734-44A00 860737AA B3 860737-11A00 860737-44A00 860737-84A00 BINARY MAG TAPE EDITOR
DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY CARDS 83 9300 860738AA B3 9300 EXTENDED MODE MULTI MAG TAPE EXERCISOR DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 860738-11A00 86073B-44A00 860738-82A00 860738-84400 MAGNETIC TAPE TEST PROGRAM 860739AA B3 9300 MAGNETIC TAPE TEST PROGRAM
DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 860739-11A00 860739-44A00 860739-82A00 860739-84400 SORT/MERGE (COVER)
DESCRIPTION PRINTED 860740AA 83 9300 860740-11A00 860740-44A00 COMPRESSED CARDS
COMPRESSED CARDS
ABSOLUTE BINARY CARDS
900 SERIES/9300 COMPUTERS REFERENCE MANUAL
900 SERIES/9300 SORT/MERGE TECHNICAL MANUAL 860740-84400 900997 901044 | SORT | 860741AA 0742AA 83 9300 MERGE 860742-84A00 860740-84 ABSOLUTE BINARY CARDS 900997 900 SERIES/9300 SORT/MERGE REFERENCE MANUAL 901044 900 SERIES/9300 SORT/MERGE TECHNICAL MANUAL PAYROLL GENERATOR PROGRAM 860743AA B3 9300 DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS 860743-11A00 860743-24A00 860743-44A00

860744AA B3 860744-11A00 B3 9300 DATA MULTIPLEX CHANNEL TEST DATA MULTIPLEX CHANNEL IE:
DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 860744-44A00 860744-82A00 860744-84A00 860745AA 80745AA 83 9300 860745-11A00 860745-44A00 DACC DIAGNOSTIC TEST FOR 9300 DESCRIPTION PRINTED COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 860745-82A00 860745-84A00 86074644 B3 9300 TMCC DIAGNOSTIC TEST FOR 9300 DESCRIPTION PRINTED 860746-11A00 860746-44A00 860746-82A00 COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 860746-84A00 860747AA B3 9300 860747-11A00 DSC-I DIAGNOSTIC TEST DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 860747-44400 860747-82A00 860747-84A00 DSC-II DIAGNOSTIC TEST DESCRIPTION PRINTED ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS 860748AA B3 9300 860748-11A00 860748-82400 860748-84A00 MODEL 9372 UNBUFFERED LINE PRINTER SUBR DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS RELOCATABLE BINARY CARDS 860749AA B3 9300 860749-11A00 860749-22A00 860749-24A00 860749-44A00 COMPRESSED CARDS 860750AA B3 860750-11A00 B3 9300 MONARCH SYS. UPDATE FOR UNBUFFERED PRINT DESCRIPTION PRINTED
ABSOLUTE BINARY CARDS 860750-84A00 860751AB B3 9300 SYMBOL 9372 UNBUFFERED PRINT OUTPUT SUBR DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEYELS RELOCATABLE BINARY CARDS SOURCE CARDS 860751-11800 860751-22800 860751-24B00 860751-34B00 80752AA 83 9300 860752-11A00 860752AA LINE PRINTER SUBROUTINE (PRINT) DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
RELOCATABLE BINARY CARDS
COMPRESSED CARDS 860752-22A00 860752-24A00 860752-44400 860753AA B3 9300 PRINTER DIAGNOSTIC DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 860753-11A00 860753-44A00 860753-82A00 860753-84A00 860754AA B3 9300 9379/9171 BUFFERED LINE PRINTER DIAG DESCRIPTION PRINTED 860754-11A00 860754-44A00 COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 860754-82A00 860754-84A00

| 860755AA B3 9300 860755-11A00 | MODEL 9372 UNBUFFERED LINE PRINTER TEST DESCRIPTION PRINTED |
|----------------------------------|--|
| 860755-44A00 860755-82A00 | COMPRESSED CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS |
| 860755-84A00 | ABSOLUTE BINARY CARDS |
| | |
| 860757AA 83 9300 | PLOTTER TEST DESCRIPTION PRINTED |
| 860757-11A00 860757-44A00 | COMPRESSED CARDS |
| 860757-82A00 860757-84A00 | ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS |
| | |
| 860758AA B3 9300 | MEMORY LOCK-OUT AND POWER FAIL-SAFE TEST DESCRIPTION PRINTED |
| 860758-11A00 860758-44A00 | COMPRESSED CARDS |
| 860758-82A00 860758-84A00 | ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS |
| | |
| 860759AA B3 9300 | SPECIAL PRIORITY INTERRUPT TEST ROUTINE |
| 860759-11A00 860759-24A00 | DESCRIPTION PRINTED RELOCATABLE BINARY CARDS |
| 860759-44A00 860759-82A00 | COMPRESSED CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS |
| | |
| 860760AA 83 9300 | SPECIAL TYPEHRITER TEST ROUTINE |
| 860760-11A00 860760-24A00 | DESCRIPTION PRINTED RELOCATABLE BINARY CARDS |
| 860760-44A00 | COMPRESSED CARDS |
| 00070144 87 0700 | SPECIAL PAPER TAPE PUNCH-READ TEST |
| 860761AA 83 9300 860761-11A00 | DESCRIPTION PRINTED COMPRESSED CARDS |
| 860761-44A00 860761-84A00 | ABSOLUTE BINARY CARDS |
| | |
| 860762AA 83 9300 860762-11A00 | CATHODE RAYTUBE DISPLAY SYSTEM TEST DESCRIPTION PRINTED |
| 860762-44A00 860762-84A00 | COMPRESSED CARDS ABSOLUTE BINARY CARDS |
| 800702-04400 | |
| 860763AA B3 9300 | DES-1 DIAGNOSTIC PROGRAM |
| 860763-11A00 860763-44A00 | DESCRIPTION PRINTED COMPRESSED CARDS |
| 860763-84A00 | ABSOLUTE BINARY CARDS |
| | |
| 860764AA 83 9300 860764-11A00 | MTE-3 MAG TAPE EXERCISER, 4 CHAR. MODE DESCRIPTION PRINTED |
| 860764-44A00 860764-82A00 | COMPRESSED CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS |
| 860764-84A00 | ABSOLUTE BINARY CARDS |
| | |
| 860765AA B3 9300 860765-11A00 | 9287 DISC FILE DIAGNOSTIC-(DFD) DESCRIPTION PRINTED |
| 860765-44A00 860765-82A00 | COMPRESSED CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS |
| 860765-84A00 | ABSOLUTE BINARY CARDS |
| | OFF-1 DIAGNOSTIC |
| 860766AA B3 9300 860766-11A00 | CFE-I DIAGNOSTIC DESCRIPTION PRINTED |
| 860766-44A00 860766-82A00 | COMPRESSED CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS |
| 860766-84A00 | ABSOLUTE BINARY CARDS |

860767AA 83 860767-11A00 860767-44A00 83 9300 RAD APOCALYPTIC DIAGNOSTIC DESCRIPTION PRINTED COMPRESSED CARDS
DATA PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 860767-72A00 860767-84A00 860768AA 60768AA B3 9300 860768-11A00 DPD TEST PROGRAM DESCRIPTION PRINTED COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 860768-44A00 860768-82A00 860768-84A00 860769AA 83 9300 860769-11A00 INTERRUPT ARM-DISARM FEATURE TEST PROGRA DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 860769-44A00 860769-82A00 CECIS SPECIAL ACCEPTANCE TEST
DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 860770AA 83 9300 860770-11A00 860770-44A00 860770-82A00 860770-84A00 860771AA **B3 9300** REAL TIME CLOCK TEST ROUTINE DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 860771-11A00 860771-44A00 860771-82A00 860771-84A00 CFE-1 AND MAG TAPE COMPATABILITY PROGRAM DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS 860772AA 0772AA 83 9300 860772-11A00 860772-44A00 860772-82A00 860772-84A00 860773AA B3 860773-11A00 860773-44A00 860773-82A00 860773-84A00 B3 9300 SPECIAL ACCEPT. TESTS FOR NORTH AMERICAN DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS PATCH
DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY CARDS 860774AA 83 9300 860774-11A00 860774-44400 860744-84A00 860776AA B3 9300 STANDARD ANALOG TEST PROGRAM DESCRIPTION PRINTED ABSOLUTE BINARY CARDS 860776-11A00 860776-84A00 BOEING RANDOM NUM. GEN. TEST PROGRAM DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS 860777AA 83 9300 860777-11A00 860777-44A00 860777-82A00 860777-84A00 860778AA 83 9300 860778-11A00 BOEING FAULT TREE TEST PROGRAM BOEING FAULT TREE TEST PRODESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 860778-44A00 860778-82A00 860778-84A00

DES-1 BK VERSION 860779AA R3 9300 DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY CARDS
XDS DES-1 DIFFERENTIAL EQUATION SOLVER B60779-11A00 850779-44A00 860779-84A00 980065 DES-1 18K VERSION
DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY CARDS
XDS DES-1 DIFFERENTIAL EQUATION SOLVER 860780AA B3 9300 860780-11A00 860780-44A00 860780-84A00 980065 DES-1 24K VERSION DESCRIPTION PRINTED B3 9300 860781AA 860781-11A00 860781-44A00 COMPRESSED CARDS
ABSOLUTE BINARY CARDS 860781-84A00 980065 XDS DES-1 DIFFERENTIAL EQUATION SOLVER DES-1 32K VERSION
DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY CARDS
XDS DES-1 DIFFERENTIAL EQUATION SOLVER 860782AA 83 860782-11A00 860782-44A00 83 9300 860782-84A00 980065 ACCEPT TEST PROG FOR UCLA BRAIN RESEARCH 860783AA B3 9300 , 860783-11A00 DESCRIPTION PRINTED
COMPRESSED CARDS 860783-44400 8607844B 83 9300 RTM STAND-ALONE UPDAT 860784-11800 B61000-45 COMPRESSED CARDS 860784-45800 861000-45 COMPRESSED CARDS 860784-84800 COMPRESSED MAG TAPE, 7 CHANNELS 860784-84800 ABSOLUTE BINARY CARDS RTM STAND-ALONE UPDATE DESCRIPTION PRINTED 9-TRACK MAGNETIC TAPE TEST PROGRAM DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS 860787AA 83 9300 860787-11A00 860787-44A00 860787-82A00 860787-84A00 DOUGLAS HOL SYS. CHECK OUT PROGRAM 860788AA 83 9300 860788-11A00 DESCRIPTION PRINTED COMPRESSED CARDS 860788-44A00 GENERAL ELECTRIC MOL SYS. CHECK OUT PROG 860789AA B3 9300 860789-11A00 860789-44A00 DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY CARDS 860789-84400 ACCEPT TEST PROG.FOR NASA HOUSTON LEM 860790AA B3 9300 DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY CARDS 860790-11A00 860790-44A00 860790-84A00 DES-1 SYSGEN FOR NAA SYSTEM
DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS
ABSOLUTE BINARY CARDS 860791AA B3 9300 860791-11A00 860791-24A00 860791-44A00

860791-84A00

860792AA 83 9300 9379 PRINTER DIAGNOSTIC 860792-11A00 860792-44A00 DESCRIPTION PRINTED COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS

860792-82A00 860792-84A00

860793AA 80793AA 83 9300 860793-11A00 860793-44A00 9TRACK MAGNETIC TAPE TEST PROGRAM DESCRIPTION PRINTED

COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 860793-82A00 860793-84A00

60794AA B3 9300 860794-11A00 9TK EXTEND MODE MULTI-MAG TAPE EXERCISER DESCRIPTION PRINTED 860794AA

860794-44A00 860794-82A00 COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS

860794-84A00

860795AA 83 9300 860795-11A00

NASA EDWARDS INTERFACE TEST DESCRIPTION PRINTED COMPRESSED CARDS 860795-44A00 860795-84A00 ABSOLUTE BINARY CARDS

860796AA B3 9300 860796-11A00

NASA EDHARDS HYBRID EXECUTION LIBRARY DESCRIPTION PRINTED RELOCATABLE BINARY CARDS COMPRESSED CARDS

860796-24A00 860796-44A00

860797AA B3 9300 NORTH AMERICAN HYBRID INTERFACE TEST

NORTH AMERICAN
DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS
ABSOLUTE BINARY CARDS 860797-11A00 860797-24A00 860797-44A00 860797-84A00

60798AA B3 9300 860798-11A00 860798AA NORTH AMERICAN AVIATION HYBRID EXECUTIVE

DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS 860798-24A00

860798-34400

SOURCE CARDS

NAA DES-1 HYBRID CALL LIBRARY DESCRIPTION PRINTED RELOCATABLE BINARY CARDS SOURCE CARDS 860799AA B3 9300 860799-11A00

860799-24A00 860799-34A00

86080044 INTER-COMPUTER COUPLER TEST DESCRIPTION PRINTED B3 9300

860800-11A00 SOURCE CARDS
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 860800-34400 860800-44A00 860800-82A00

860803AA 83 9300 SYMBOL BOOTSTRAP 860803-24A00 860530-85 RELOCATABLE BINARY CARDS 860803-44A00 860530-45 COMPRESSED CARDS

861000AC 83 9300 861000-11D00

REAL-TIME MONITOR
DESCRIPTION PRINTED
COMPRESSED MAG TAPE, 7 CHANNELS
TEST DECK

861000-45D00 861000-74D00

86107644 83 9300 USNPGS HYBRID INTERFACE TEST

DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY CARDS 861076-11A00 861076-44400

861076-84A00

USNPOS DISPLAY TEST PROGRAM
DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS 861077AA 83 861077-11A00 861077-24A00 861077-44A00 B3 9300 USNPOS HYBRID EXECUTIVE LIBRARY
DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS 861078AA B3 9300 861078-11A00 861078-24A00 861078-44400 USNPGS DISPLAY EXECUTIVE LIBRARY R3 9300 861079AA DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS 861079-11A00 861079-24A00 861079-44A00 83 9300 RAD TO MAGNETIC TAPE DUMP 86108244 DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS 861082-11A00 861082-24A00 861082-34A00 SOURCE CARDS \$1083AA B3 9300 SYMBOL ASSEMBLER (COVER)
861083-11A00 900687 DESCRIPTION PRINTED
861083-45A00 860530-45 COMPRESSED MAG TAPE, 7 CHANNELS
861083-85A00 860530-85 ABSOLUTE BINARY MAG TAPE, 7 CHANNELS 861083AA USNPGS DISPLAY SUBSYSTEM
DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS B3 9300 861084AA 861084-11A00 861084-24A00 FORTRAN IV LIBRARY 9RDDISC, 9HRDISC DESCRIPTION PRINTED RELOCATABLE BINARY CARDS COMPRESSED CARDS 31085AA 83 9300 861085-11A00 901107 861085AA 861085-24A00 EXAMINER DIAGNOSTIC SYSTEM (COVER)
DESCRIPTION PRINTED 70000AA B3 940 870000-11A00 900634 870000-82A00 870000AA ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CAROS
XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL 870000-84A00 900634 70001AA B3 940 MEMORY ACCESS DIRECT
870001-11A00 900634 DESCRIPTION PRINTED
870001-82A00 870000-82 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
870001-84A00 870000-84 ABSOLUTE BINARY CARDS
900634 XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL 870001AA 870002AA B3 940 MEMORY DIAGNOSTIC PROGRAM 870002-11A00 900634 DESCRIPTION PRINTED 870002-89A00 870000-82 ABSOLUTE BINARY PAPER TAPE. 7 LEVELS 870002-89A00 870000-84 ABSOLUTE BINARY CARDS XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL 900634 70003AA B3 940 INSTRUCTION DIAGNOSTIC PROGRAM
870003-11A00 900634 DESCRIPTION PRINTED
870003-82A00 870000-82 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
870003-84A00 870000-84 ABSOLUTE BINARY CARDS
900634 XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL 870003AA

870004AA B3 940 INTERRUPT DIAGNOSTIC PROGRAM
870004-11A00 900634 DESCRIPTION PRINTED
870004-82A00 870000-82 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
870004-84A00 870000-84 ABSOLUTE BINARY CARDS
900634 XDS 940 COMPUTER DIAGNOATIC SYSTEM TECHNICAL MANUAL

70006AA 83 940 870006-11 870006-82A00 870006AA MEMORY ADDRESS TEST DESCRIPTION PRINTED
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
ABSOLUTE BINARY CARDS 870006-84400

940 DISC EXCERCISER DIAGNOSTIC DESCRIPTION PRINTED ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS 870007AA B3 870007-11A00 B3 940 870007-82A00 870007-84A00

870008AA 83 940 940 RAD DIAGNOSTIC EXERCISER DESCRIPTION PRINTED ABSOLUTE BINARY PAPER TAPE, 7 LEVELS ABSOLUTE BINARY CARDS 870008-11A00 870008-82A00 870008-84A00

870009AB B3 870009-85800 940 TIME-SHARING SYSTEM DISC DUMP ABSOLUTE BINARY MAG TAPE, 7 CHANNELS XDS 940 TERMINAL USER'S GUIDE TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM B3 940 901116

870010AB

870011AB 83 940 940 OPERATOR'S EXECUTIVE 870011-34800 870026-35 SOURCE CARDS 901116 TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM

870012AR 70012AB B3 940 94 870012-34800 870026-35 SOURCE CARDS 940 MAP DISC 901116 TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM

870013AB B3 940 DISC SHAP 901116 TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM

B3 940 870014AB 940 DISC DUMP/LOAD 901116 TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM

870016AB 940 TIME-SHARING SYSTEM EXECUTIVE 901116 TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM

870017AB 901116 TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM

87001848 83 940 940 TAP XDS 940 TAP REFERENCE MANUAL TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM 901117 901116

870019AB B3 940 940 QED TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM XDS 940 QED REFERENCE MANUAL 901116 901112

B3 940 940 FORTRAN II COMPILER FORTRAN II REFERENCE MANUAL FOR XDS 940
TIME SHARING COMPUTER SYSTEMS.
TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM 901110 901116

870020AB

940 DDT B3 940 870021AB XDS 940 DDT REFERENCE MANUAL TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM 901113 901116 870022-38 83 940 940 CONVERS 870022-34800 870025-35 SOURCE CARDS 870022-51800 870025-55 LISTING PRINTED 870022-84800 870025-85 ABSOLUTE BINARY CARDS 940 CONVERSATIONAL FORTRAN FORTRAN IV REFERENCE MANUAL FOR XDS 940 TIME SHARING SYSTEM TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM 901116 940 CAL XDS 940 CAL REFERENCE MANUAL TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM 870023AB B3 940 901114 940 BASIC XDS 940 BASIC REFERENCE MANUAL TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM 83 940 870024AB 901111 901116 940 TSS MONITOR, EXEC, AND PROCESSORS (CO B3 940 870025AB DESCRIPTION PRINTED
TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM 870025-11B00 901116 940 TSS USERS UTILITY PROGRAMS DESCRIPTION PRINTED SOURCE MAG TAPE, 7 CHANNELS 70026AA **B3 940** 870026-11A00 870026AA 870026-35A00 FORTRAN II LIBRARY FOR THE XDS 940
FORTRAN II REFERENCE MANUAL FOR XDS 940
TIME-SHARING COMPUTER SYSTEM
XDS 940 FORTRAN II TECHNICAL NOTES 870027AB 83 940 901142 FORTRAN 11 RUNTIME SYSTEM
FORTRAN 11 REFERENCE MANUTEMS TIME-SHARING COMPUTER SYSTEMS
XDS 940 FORTRAN 11 TECHNICAL NOTES 870028AB B3 940 901142 870029AA 70029AA B3 940 OLDS3.0 CONTROL I 870029-11A00 901591 DESCRIPTION PRINTED 870029-35A00 870042-35 SOURCE MAG TAPE, 7 CHANNELS OLDS3.0 CONTROL MONITOR 70030AA 83 940 UNIT 0 CPU TESTS 3.0 870030-11A00 901591 DESCRIPTION PRINTED 870030-35A00 870042-35 SOURCE MAG TAPE, 7 CHANNELS 870030AA 70031AA 83 940 UNIT 1 CPU EXERCISER 3.0 870031-11A00 901591 DESCRIPTION PRINTED 870031-35A00 870042-35 SOURCE MAG TAPE, 7 CHANNELS 870031AA UNIT 2 FLOATING POINT TESTS 3.0 870032AB UNIT3 MEMORY TESTS FOR THE 2ND 16K 3.0 70033AA B3 940 870033-11A00 901591 00133AA 83 940 870033-11400 901591 DESCRIPTION PRINTED 870033-35400 870042-35 SOURCE MAG TAPE, 7 CHANNELS

70034AA 83 940 UNIT 4 MEMORY TES 870034-11A00 901591 DESCRIPTION PRINTED 870034-35A00 870042-35 SOURCE MAG TAPE, 7 CHANNELS

UNIT 4 MEMORY TEST FOR THE 3RD 16K 3.0

B3 940

```
70035AA B3 940 UNIT 5 MEMORY TEST FOR THE 4TH 16K 3.0
870035-11A00 901591 DESCRIPTION PRINTED
870035-35A00 870042-35 SOURCE MAG TAPE, 7 CHANNELS
      70036AB B3 940 UNIT 12 E CHANNEL RAD TEST 3.0
870036-11800 901591 DESCRIPTION PRINTED
870036-35800 870042-35 SOURCE MAG TAPE, 7 CHANNELS
     70037AA 83 940 UNIT 15 H CHANNEL RAD TEST 3.0
870037-11A00 901591 DESCRIPTION PRINTED
870037-35A00 870042-35 SOURCE MAG TAPE, 7 CHANNELS
     70038AA 83 940 UNIT 21 W CHANNEL
870038-11A00 901591 DESCRIPTION PRINTED
870038-35A00 870042-35 SOURCE MAG TAPE, 7 CHANNELS
 870038AA
                                                                        UNIT 21 W CHANNEL DISC TEST 3.0
                        B3 940
                                                                        UNIT 23 CTE 10/11 COM GEAR TEST 3.0
     870039-35400 870042-35 SOURCE MAG TAPE, 7 CHANNELS
 870040AR
     70040AB B3 940 UNIT 18 E CHANNEL DISC
870040-11800 901591 DESCRIPTION PRINTED
870040-35800 870042-35 SOURCE MAG TAPE, 7 CHANNELS
 870041-AA B3 940 UNIT 19 F CHANNEL DISC
870041-11A00 901591 DESCRIPTION PRINTED
870041-35A00 870042-35 SOURCE MAG TAPE, 7 CHANNELS
                                   0 940 OLDS DIAGNOSTIC SYSTEM (COVER)
901591 DESCRIPTION PRINTED
SOURCE MAG TAPE, 7 CHANNELS
XDS 940 OLDS DIAGNOSTIC SYSTEM REFERENCE MANUAL
 870042AA B3 940
    870042-11A00
870042-35A00
                                                 ASSEMBLER - ABLE
DESCRIPTION PRINTED
SOURCE PAPER TAPE, 8 LEVELS
SOURCE CARDS
COMPRESSED
 880000AB
                       B1 CF-16
    880000-11800
880000-33800
880000-34800
880000-43800
                                                  COMPRESSED PAPER TAPE, 8 LEVELS
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
    880000-51800
880000-83800
880004AA 81 CF-16
880004-11A00
                                                                       BINARY LOAD/DUMP - BLD/BDP
    100044A BI CF-16 BESCRIPTION PRINTED

880004-51A00 880004-11 LISTING PRINTED

880004-83A00 ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
                                                 RELOCATABLE OBJECT LANGUAGE LOADER-ROLL
DESCRIPTION PRINTED
SOURCE PAPER TAPE, 8 LEVELS
SOURCE CARDS
COMPRESSED PAPER TAPE, 8 LEVELS
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
    00005AB B1 CF-16
880005-11800
BBNOOSAB
    880005-33800
880005-34800
    880005-43800
880005-51800
    880005-83800
880006AB B1
880006-11800
                       B1 CF-16
                                                                      DEBUG - DBUG
                                                 DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
SOURCE PAPER TAPE, 8 LEVELS
SOURCE CARDS
    880006-23800
   880006-33800
880006-34800
880006-51800
880006-83800
                                                 LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
```

```
880007A9 B1
880007-11800
880007-33800
                                               SOURCE TAPE PREPARATION - STP DESCRIPTION PRINTED
                      B1 CF-16
                                               SOURCE PAPER TAPE, 8 LEVELS
SOURCE CARDS
   880007-34B00
880007-43B00
                                               COMPRESSED PAPER TAPE, 8 LEVELS
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
   680007-51800
880007-83800
                                                                   TELETYPE UTILITY PACKAGE - TUP
880008AA
                     B1 CF-16
                                               DESCRIPTION PRINTED
COMPRESSED PAPER TAPE, 8 LEVELS
LISTING PRINTED
   880008-11A00
   880008-43A00
880008-51A00
                                               HORST PATTERN MEMORY DIAGNOSTIC - PHPM DESCRIPTION PRINTED
880009AA
                   B1 CF-16
   00009AA 61 67 ...
880009-11A00 DESCRIPTION PRINTED
880009-51A00 880009-11 LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880011-A B1 CF-16 CORE MEMORY DIAGNOSTIC - (

880011-11A00 DESCRIPTION PRINTED

880011-51A00 880011-11 LISTING PRINTED

880011-83A00 ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
                                                                   CORE MEMORY DIAGNOSTIC - CMD
880012AA B1 CF-16 · 880012-11A00
                                                                    INSTRUCTION DIAGNOSTIC PROGRAM - IDP
                                                DESCRIPTION PRINTED
LISTING PRINTED
    880012-51A00
880012-83A00
                                                ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
   90013AA B1 CF-16 TELETYPE DIAGNOSTIC - TDP
880013-11A00 DESCRIPTION PRINTED
880013-51A00 880013-11 LISTING PRINTED
880013-83A00 ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
 880013AA
                                               HIGH SPEED PAPER TAPE DIAGNOSTIC - HSPTD DESCRIPTION PRINTED SOURCE PAPER TAPE, 8 LEVELS SOURCE CARDS LISTING PRINTED ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
 880014AA
                      B1 CF-18
    880014-11A00
880014-33A00
    880014-34A00
880014-51A00
    880014-83A00
                                                M-1 MATH PACKAGE DESCRIPTION PRINTED
 880015AA
                       B1 CF-16
    880015-11A00
880015-33A00
                                                SOURCE CARDS
COMPRESSED PAPER TAPE, 8 LEVELS
COMPRESSED PAPER TAPE, 8 LEVELS
LISTING PRINTED
    880015-34A00
880015-43A00
    880015-51A00
                                                                    H-2 MATH PACKAGE
 880016AA B1
880016-11A00
                       81 CF-16
                                                DESCRIPTION PRINTED
SOURCE PAPER TAPE, 8 LEVELS
SOURCE CARDS
COMPRESSED PAPER TAPE, 8 LEVELS
LISTING PRINTED
    880016-33A00
880016-34A00
    880016-43A00
880016-51A00
                                                                     FORTRAN COMPILER
                       B1 CF-16
 880018AA
                                                DESCRIPTION PRINTED
SOURCE CARDS
ABSOLUTE BINARY CARDS
    880018-11A00
880018-34A00
     880018-84A00
                                                FOLL FORTRAN OBJECT LANGUAGE LOADER
DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
SOURCE PAPER TAPE, 8 LEVELS
SOURCE CARDS
LISTING PRINTED
 880019AA
                        B1 CF-16
    80019AA B1
880019-11A00
880019-23A00
880019-33A00
880019-34A00
880019-51A00
```

| 880020AA B1 CF-18 880020-11A00 880020-34A00 880020-43A00 880020-51A00 | RTS RUN TIME SYSTEM DESCRIPTION PRINTED SOURCE CARDS COMPRESSED PAPER TAPE, 8 LEVELS LISTING PRINTED |
|---|---|
| 880080AA B1 CF-16 880080-11A00 880080-33A00 880080-34A00 880080-83A00 | OE16D - OE16 DIAGNOSTIC DESCRIPTION PRINTED SOURCE PAPER TAPE, 8 LEVELS SOURCE CARDS ABSOLUTE BINARY PAPER TAPE, 8 LEVELS |
| 880085AA B3 CF-16 880085-11A00 880085-44A00 880085-83A00 | CF-16 MINIDISC DIAGNOSTIC DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY PAPER TAPE, 8 LEVELS |
| 880086AA B1 CF-18 880086-11A00 880086-33A00 880086-34A00 880086-51A00 880086-83A00 | OE15/16 DEMONSTRATION PROGRAM DESCRIPTION PRINTED SOURCE PAPER TAPE, 8 LEVELS SOURCE CARDS LISTING PRINTED ABSOLUTE BINARY PAPER TAPE, 8 LEVELS |
| 880087AA B1 CF-16 880087-11A00 880087-33A00 880087-34A00 880087-43A00 880087-51A00 | 0E5/6D 0E15-0E18 I/O MANDLER DESCRIPTION PRINTED SOURCE PAPER TAPE, 8 LEVELS SOURCE CARDS COMPRESSED PAPER TAPE, 8 LEVELS LISTING PRINTED |
| 880088AA B3 CF-18 880088-11A00 880088-22A00 880088-44A00 | SIGMA 3-CF16 INTERCOMMUNICATION DEMO DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS COMPRESSED CARDS |
| 880089AA 81 CF-16 880089-11A00 880089-33A00 880089-34A00 880089-51A00 880089-83A00 | SIG16 - CF18 - SIGMA 3 DEMO DESCRIPTION PRINTED SOURCE PAPER TAPE, 8 LEVELS SOURCE CARDS LISTING PRINTED ABSOLUTE BINARY PAPER TAPE, 8 LEVELS |
| 880090AA B1 CF-18 880090-11AD0 880090-43A00 880090-51ADD | OE1410 - OE14 I/O HANDLER DESCRIPTION PRINTED COMPRESSED PAPER TAPE, 8 LEVELS LISTING PRINTED |
| 680091AA B1 CF-18 880091-11A00 880091-51A00 880091-83A00 | OE14D - OE14 DIAGNOSTIC DESCRIPTION PRINTED LISTING PRINTED ABSOLUTE BINARY PAPER TAPE, 8 LEVELS |
| 880092AB | PE2010 - PE20 I/O DRIVER DESCRIPTION PRINTED COMPRESSED PAPER TAPE, 8 LEVELS LISTING PRINTED |
| 880093AB | PEZOFD - PEZO FIELD DIAGNOSTIC DESCRIPTION PRINTED LISTING PRINTED ABSOLUTE BINARY PAPER TAPE, 8 LEVELS |

```
PE20MD - PE20 MANUFACTURING DIAGNOSTIC DESCRIPTION PRINTED LISTING PRINTED
                       B1 CF-16
880094AB
   880094-11800
880094-51800
                                                     ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
     880094-83800
   00095AB B1 CF-16 PE2510 - PE25 I/O HANDLER
000095-11800 DESCRIPTION PRINTED
00095-43800 COMPRESSED PAPER TAPE, 8 LEVELS
00095-51800 00095-11 LISTING PRINTED
880095AB B1
880095-11800
880095-43800
                                                                           PE25FD - PE25 FIELD DIAGNOSTIC
880096AA B1
880096-11A00
                         B1 CF-16
                                                    DESCRIPTION PRINTED
LISTING PRINTED
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
    880096-51A00
880096-83A00
                       B1 CF-16
                                                                           CROSS ASSM. OBJECT CONVERTER - CROSCNY
AARP0088
                                                    DESCRIPTION PRINTED
COMPRESSED PAPER TAPE, 8 LEVELS
    880098-11A00
     880098-43A00
880099AA B1 CF-16
880099-11A00
                                                                            CROLL
                                                    DESCRIPTION PRINTED
COMPRESSED PAPER TAPE, 8 LEVELS
LISTING PRINTED
    880099-43A00
880099-51A00
    80100AB B1 CF-16
880100-11800
                                                                           ANALOG PERFORMANCE TEST - APT
RROLOGAR
                                                    DESCRIPTION PRINTED
SOURCE PAPER TAPE, 8 LEVELS
SOURCE CARDS
LISTING PRINTED
   880100-33800
880100-34800
880100-51800
880100-83800
                                                     ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
                        B1 XEROX 1200
                                                                           PRINTER CONTROL PROGRAM (PCP)
                                                    O PRINTER CONTROL PROGRAM (PCP)
DESCRIPTION PRINTED
TEST DESCRIPTION
TEST ON TAPE
ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
DOCUMENTATION FOR STAND-ALONE DUMP
STAND-ALONE DUMP TAPE
XEROX 1200 COMP.PRINT. SYSTEM PROGRAMMERS REFERENCE CARD
XEROX 1200 COMPUTER PRINTING SYSTEM OPERATORS GUIDE
XEROX 1200 COMPUTER PRINTING SYSTEM GENERAL REFERENCE MANUA
XEROX 1200 COMPUTER PRINTING SYSTEM OPERATORS REFERENCE CAR
880500AC
     880500-11801
     880500-71800
880500-76800
     880500-86801
880500-91801
     880500-96B01
     901981
     901983
     903039
    80502AC 81 XEROX 1200 PCP LOADER & INITIALIZATION PROG. HODULE
880502-11801 880500-11 DESCRIPTION PRINTED
880502-51801 880500-51 LISTING PRINTED
880502-56801 880500-56 LISTING MAG TAPE, 9 CHANNELS
880502-86801 880500-86 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
     90503AC B1 XEROX 1200 PRINTER CONTROL PROGRAM MC
880503-11801 880500-11 DESCRIPTION PRINTED
880503-51801 880500-51 LISTING PRINTED
880503-56801 880500-56 LISTING MAG TAPE, 9 CHANNELS
880503-86801 880500-86 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
                                                                            PRINTER CONTROL PROGRAM HODULE
 880503AC
```

```
B1 XEROX 1200
                                                                      O EXTENDED PRINTER CONTROL PROGRADESCRIPTION PRINTED
SYSTEM TEST TAPE DESCRIPTION
SYSTEM TEST TAPE
ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
STAND-ALONE DUMP DESCRIPTION
STAND-ALONE DUMP TAPE
XEROX 1200 PCP PEFERENCE CARD
XEROX 1200 PCP OPERATOR'S GUIDE
XEROX 1200 PCP OPERATOR'S REFERENCE CARD
XEROX 1200 PCP OPERATOR'S REFERENCE CARD
XEROX 1200 PCP OPERATOR'S REFERENCE HANUAL
XEROX 1200 EPCP OPERATOR'S GUIDE
XEROX 1200 EPCP OPERATOR'S GUIDE
XEROX 1200 EPCP OPERATOR'S REFERENCE CARD
XEROX 1200 EPCP OPERATOR'S REFERENCE CARD
XEROX 1200 CPCP OPERATOR'S REFERENCE CARD
XEROX 1200 COMPUTER PRINTING SYSTEM OPERAT
                                                                                                     EXTENDED PRINTER CONTROL PROGRAM (EPCP)
         880505-11400
         880505-71A00
880505-76A00
         880505-86A00
         880505-96A00
         901981
         901982
         901983
         903039
        903121
         903123
        903124
                                                                       XEROX 1200 COMPUTER PRINTING SYSTEM OPERATOR REFERENCE CARD
                                                                      DIAGNOSTIC SOFTHARE SYSTEM (DSS)
DESCRIPTION PRINTED
PROLOG DESCRIPTION OF DSS MODULES
LISTING MAG TAPE, 9 CHANNELS
ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
  880550AD
                                   B1 XEROX 1200
        880550-11802
880550-16802
880550-56802
        880550-86802
       0551AC B1 XEROX 1200 READ ONLY MEMORY BOOTSTRAP LOADER
880551-11B01 880550-11 DESCRIPTION PRINTED
880551-56801 880550-56 LISTING MAG TAPE, 9 CHANNELS
      80552AC B1 XEROX 1200 MODULE 1. DSS SUPERVISOR
880552-11801 880550-11 DESCRIPTION PRINTED
880552-56801 880550-56 LISTING MAG TAPE, 9 CHANNELS
880552-86801 880550-86 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
  88055240
     30553AC B1 XEROX 1200 MODULE 2. BASIC CPU TEST
880553-11801 880550-11 DESCRIPTION PRINTED
880553-56801 880550-56 LISTING MAG TAPE, 9 CHANNELS
880553-86801 880550-86 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
 880553AC
     30554AC B1 XEROX 1200 MODULE 3. TC1 FUNCTIONAL TEST
880554-11801 880550-11 DESCRIPTION PRINTED
880554-56801 880550-56 LISTING MAG TAPE, 9 CHANNELS
880554-86801 880550-86 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
 880554AC
      30555AC B1 XEROX 1200 MODULE 4. TC1 RANDOM EXERCISER
880555-11801 880550-11 DESCRIPTION PRINTED
880555-56801 880550-56 LISTING MAG TAPE, 9 CHANNELS
880555-86801 880550-86 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
                                81 XEROX 1200
                                 B1 XEROX 1200
                                                                                                  MODULE 5. PSCI FUNCTIONAL TEST
     880556-11801 880550-11 DESCRIPTION PRINTED
880556-56801 880550-56 LISTING MAG TAPE, 9 CHANNELS
880556-86801 880550-86 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
     30557AC B1 XEROX 1200 MODULE B. PSC1 UTILITY TO
880557-11801 880550-11 DESCRIPTION PRINTED
880557-56801 880550-56 LISTING MAG TAPE, 9 CHANNELS
880557-86801 880550-86 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
                                                                                                  MODULE B. PSCI UTILITY TEST
    30558AC B1 XEROX 1200 MODULE 7. CONTROL PANEL TEST
880558-11801 880550-11 DESCRIPTION PRINTED
880558-56801 880550-56 LISTING MAG TAPE, 9 CHANNELS
880558-86801 880550-86 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
    90559AC B1 XEROX 1200 MODULE 0. EXTENDED CPU 10
880559-11801 880550-11 DESCRIPTION PRINTED
880559-56801 880550-56 LISTING MAG TAPE, 9 CHANNELS
880559-86801 880550-86 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
880559AC
                                                                                                 MODULE 8. EXTENDED CPU INSTRUCTION TEST
```

```
90567AC BI XEROX 1200 THID TEST MONITOR/TEST DRI
880567-11801 880550-11 DESCRIPTION PRINTED
880567-56801 880550-56 LISTING MAG TAPE, 9 CHANNELS
880567-86801 880550-86 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
                                                                THTD TEST MONITOR/TEST DRIVER
                                            SCU LOADER PROGRAM (SCULE)
DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 8 LEYELS
SIGMA 5/7 XEROX BATCH PROCESSING MONITOR MANUAL (BPM)
                     B1 XEROX SCU
880600AB
   880600-11B01
   880600-44801
880600-83801
   900954
880601AA B1 XEROX SCU
880601-11A00 |
880601-44A00 |
880601-83A00 |
880601-84A00 |
                                                                 PROTOTYPE SCU FIELD VERIFICATION PROGRAM
                                             PROTOTYPE SCU FIELD VERIFY
DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
                                            SCU MODULE TEST ROUTINES
DESCRIPTION PRINTED
880602AB
                     B2 XEROX SCU
    880602-11800
880602-44800
                                             COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
    880602-83800
880602-84800
   80803AB BI XEROX SCU SCU BOOTSTRAP/ABSOLUTE LOADER
880603-11A01 DESCRIPTION PRINTED
880803AB
                                            J SCU DEBUG PROGRAM
DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY CARDS
                     B3 XEROX SCU
RROBOSAC
    880605-11801
    880605-44801
    880605-84801
                                            J SCU FIELD VERIFICATION PROGRAM
DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
880606AA
                     B1 XEROX SCU
    880606-11A00
880606-44A00
880606-83A00
    880606-84A00
                                                                  SC411 DIAGNOSTIC PROGRAM
 880607AB
                     83 XEROX SCU
                                  DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS
    880607-11A01
    880607-44A00
880607-83A00
    880607-84A00
                                             SCU-VECTOR GENERAL INTERFACE DIAGNOSTIC DESCRIPTION PRINTED
                      B3 XEROX SCU
 880608AA
    880608-11A00
880608-44A00
                                              COMPRESSED CARDS
ABSOLUTE BINARY CARDS
     880608-84A00
                                             SCU ROM VERIFICATION PROGRAM
DESCRIPTION PRINTED
COMPRESSED CAROS
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CAROS
                      83 XEROX SCU
     880609-11A00
     880609-44A00
880609-83A00
     880609-84400
                      B3 XEROX SCU SCU - MFG ACCEPTANCE TEST SYSTEM
A00 DESCRIPTION PRINTED
A00 COMPRESSED CARDS
A00 ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
A00 ABSOLUTE BINARY CARDS
 880610AA
     880610-11A00
880610-44A00
     880610-83A00
880610-84A00
                                              SCU/NBDE IDS 10 CONTROL PROGRAM
DESCRIPTION PRINTED
COMPRESSED CARDS
                      B1 XEROX SCU
 88061144
     880611-11A00
880611-44A00
```

B3 XEROX SCU SCU - DIABLO DISK DIAGNOSTIC 11A00 DESCRIPTION PRINTED 44A00 COMPRESSED CARDS 84A00 ABSOLUTE BINARY CARDS

880613-11A00 880613-44A00 880613-84A00

80614AA B3 XEROX SCU 880614-11A00 88061444 HITYPE PRINTER DIAGNOSTIC PROGRAM

ROX SCU HITYPE PRINTER DIAGNOSTIC
DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS 880614-44A00 880614-83A00 880614-84A00

880615AA B3 XEROX SCU 880615-11A00 HITYPE HANDLER

DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY CARDS 880615-44A00 880615-84A00

ROX SCU COLOR DISPLAY SYSTEM DIAGNOSTIC PROGRAM
DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS 80616AA B3 XEROX SCU 880616-11A00 88061644

880616-44A00 880616-83A00

880616-84A00

880617AA B3 XEROX SCU 880617-11A00 [880617-44A00 [880617-83A00 [880617-84A00] OX SCU ALFA EMULATOR PROGRAM
DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
ABSOLUTE BINARY CARDS

OX SCU SCU NBDE - COIN SLIM FIELD VERIFICATION
DESCRIPTION PRINTED 880618AA B3 XEROX SCU

880618-11A00 880618-44A00 880618-84A00 COMPRESSED CARDS
ABSOLUTE BINARY CARDS

B3 XEROX SCU U XST PORTACORDER TO SCU DRIVER DESCRIPTION PRINTED

880619-11A00 880619-44A00 880619-84A00 COMPRESSED CARDS
ABSOLUTE BINARY CARDS

880620AA B3 XEROX SCU 880620-11A00 SC433/43-44 DISK DRIVER FOR SCU

DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY CARDS 880620-44A00 880620-84A00

880621AA B3 XEROX SCU 880621-11A00 KEYBOARD/DISPLAY DRIVER FOR XST

DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY CARDS 880621-44A00 880621-84A00

880622AA B3 XEROX SCU

ROX SCU XST STENOTYPER TO SCU DIAGNOSTIC DESCRIPTION PRINTED COMPRESSED CARDS ABSOLUTE BINARY CARDS 880622-11A00 880622-84A00

B3 XEROX SCU

SCU XST STENOTYPER TO SCU DRIVER
DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY CARDS 880623-11A00 880623-44400 880623-84A00

XST CASETTE TAPE TO SCU DIAGNOSTIC

 880624AA
 B3
 XEROX
 SCU
 XST CASETTE

 880624-11A00
 DESCRIPTION PRINTED

 880624-44A00
 COMPRESSED CARDS

 ABSOLUTE BINARY CARDS

```
        880625AA
        B3 XEROX SCU
        SYNCHRONUUS

        880625-11A00
        DESCRIPTION PRINTED

        880625-44A00
        COMPRESSED CARDS

        ABSOLUTE BINARY CARDS

                                                            SYNCHRONOUS LINE INTRFACE MODULE TEST
                                    5-9 SCU ASSEMBLER LIBRARY ROUTINES
DESCRIPTION PRINTED
COMPRESSED CARDS
880626AA
                  B3 S1GMA 5-9
    880626-11A00
880626-44A00
880627AA B1 XEROX SCU RELOCATABLE 300 LSSCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 8 LEVELS COMPRESSED CARDS
                                                            RELOCATABLE SCU LOADER PROGRAM (RSCULE)
                             ROX SCU SCU FUNCTION GENERATOR PROGRAM
DESCRIPTION PRINTED
SOURCE CARDS
COMPRESSED CARDS
                   B3 XEROX SCU
880628AA
    880628-11A00
    880628-34A00
880628-44A00
    90816AA B1 SIGMA 2/3-530
800816-06A00 SOFT
                                                           UNLABELED SOFTHARE SUPPORT TAPE (SST)
880816AA
                                  SOFTHARE SUPPORT TAPE
DESCRIPTION PRINTED
    880816-11A00
    80830AA 81 SIGMA 5-9/550/560 UNLABELED SOFTHARE SUPPORT TAPE (SST)
880830-06A00 880816-06 SOFTHARE SUPPORT TAPE
880830-11A00 880816-11 DESCRIPTION PRINTED
                    BI SIGMA 5-9/550/560 LABELED SOFTHARE SUPPORT TAPE (SST)
ADD SOFTHARE SUPPORT TAPE
ADD DESCRIPTION PRINTED
 88083244
    880832-06A00
    880832-11A00
 890000AB B3 SIGMA 5/7 XDS NUMERICAL SUBROUTINE PACKAGE (COVER)
890000-11A00 901505 DESCRIPTION PRINTED
890000-36800 SOURCE MAG TAPE, 9 CHANNELS
                                  A 5-9

ROM BREAKDOHN TRANSLATOR (ROMBUST)

DESCRIPTION PRINTED

RELOCATABLE BINARY CARDS

COMPRESSED CARDS
                     B3 SIGMA 5-9
 890143AB
    890143-11800
890143-24800
                   B3 SIGMA 5/7 SYMMETRIC LIST PROCESSOR (32K)
1A00 DESCRIPTION PRINTED
4A00 RELOCATABLE BINARY CARDS
4A00 SOURCE CARDS
6A00 SOURCE MAG TAPE, 9 CHANNELS
 890144AA
    00A11-11008
00A42-441068
    890144-34A00
890144-36A00
                     B3 SIGMA 5/7
                                                              SYMMETRIC LIST PROCESSOR (OVER 32K)
  890145AA
                                   DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
     890145-11A00
     890145-24A00
890145-34A00
                                           SOURCE CARDS
SOURCE MAG TAPE, 9 CHANNELS
     890145-36A00
                                                             SIGHA 5/7 MFOR LINEAR PROGRAMMING CODE
  890146AA
     90146AA B3 SIGMA 5/7
890146-11A00
                                        DESCRIPTION PRINTED
SOURCE MAG TAPE, 9 CHANNELS
      890146-36A00
```

890147AA B3 SIGMA 5/7 BATCH MOP 890147-11A00 DESCRIPTION PRINTED 890147-34A00 SOURCE CARDS 890147-51A00 890147-11 LISTING PRINTED

BATCH MONITOR CROSS REFERENCE GENERATOR

890157AA B3 SIGMA 5/7 CROSS REFERENCE SYMBOL LISTING PROG.
890157-11A00 DESCRIPTION PRINTED
890157-24A00 RELOCATABLE BINARY CARDS
890157-34A00 SOURCE CARDS

890158AA 83 9-SERIES ARCSIN AND ARCCOS FUNCTIONS
890158-31400 DESCRIPTION PRINTED
890158-32400 SOURCE PAPER TAPE, 7 LEVELS
890158AA 83 9-SERIES
ARCSIN AND ARCCOS FUNCTIONS
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS

890159AA B3 9-SERIES FACTORIAL ROUTINE 890159-31A00 DESCRIPTION PRINTED 890159-32A00 SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS

890160AA B3 9-SERIES HYPERBOLIC SINE, COSINE AND TANGENT
890160-11A00 DESCRIPTION PRINTED
890160-32A00 SOURCE PAPER TAPE, 7 LEVELS
890160-34A00 SOURCE CARDS

890161AA B3 9-SERIES
890161-11A00
890161-32A00
890161-34A00
B00161-34A00
B00161-34A

890163AA B3 9-SERIES POLYNOMIAL DIVISION, POLYDIV
890163-11A00 DESCRIPTION PRINTED
890163-32A00 SOURCE PAPER TAPE, 7 LEVELS
890163-34A00 SOURCE CARDS

890164AA B3 9-SERIES
890164-11A00 DESCRIPTION PRINTED
890164-32A00 SOURCE PAPER TAPE, 7 LEVELS
890164-34A00 SOURCE CARDS

890165AA B3 9-SERIES
890165-11A00 DESCRIPTION PRINTED
890165-32A00 SOURCE PAPER TAPE, 7 LEVELS
890165-34A00 SOURCE CARDS

890166AA B3 9-SERIES SERIES EXPANSION OF RATIONAL POLYNOMIAL 890166-32A00 DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS

890167AA B3 9-SERIES
890167-11A00 DESCRIPTION PRINTED
890167-32A00 SOURCE PAPER TAPE, 7 LEVELS
890167-34A00 SOURCE CARDS

890168AA B3 9-SERIES PATTERN OPTIMIZER
890168-11A00 DESCRIPTION PRINTED
890168-32A00 SOURCE PAPER TAPE, 7 LEVELS
890168-34A00 SOURCE CARDS

BAIRSTON ROOTFINDER 890169AA B3 9-SERIES DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890169-11A00 890169-32A00 890169-34A00 ROOTS OF POLYNOMIALS
DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS B3 9-SERIES 890170AA 890170-32A00 890170-34A00 90171AA B3 9-SERIES ROOTBIS, ROOTFINDING BY BISECTION 890171-11A00 DESCRIPTION PRINTED 890171-32A00 SOURCE PAPER TAPE, 7 LEVELS 890171-34A00 SOURCE CARDS 890171AA LEGENDRE POLYNOMIAL DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS 890172AA 83 9-SERIES 890172-11A00 890172-32A00 890172-34A00 GAMMA FUNCTION B3 9-SERIES 890173AA DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890173-11A00 890173-32A00 890173-34A00 BESSEL FUNCTION JO, JI YO, YI DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS 83 9-SERIES 890174AA 890174-11A00 890174-32A00 B3 9-SERIES REAL EXPONENTIAL INTEGRAL
A000 DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890175AA 890175-11A00 890175-32A00 890175-34A00 ### 80176AA ### 83 9-SERIES ### 855EL FUNCTION KN(X),

890176-11400 ### BESSEL FUNCTION KN(X),

BESSEL FUNCTION KN(X),

DESCRIPTION PRINTED

SOURCE PAPER TAPE, 7 LEVELS

SOURCE CARDS 890176AA BESSEL FUNCTION-FIRST KIND, ORDER ZERO
DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890177AA B3 9-SERIES 890177-11A00 890177-32A00 890177-34A00 BESSEL FUNCTION SUBROUTINE B3 9-SERIES 890178AA DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890178-11A00 890178-32A00 BESSEL FUNCTIONS-J0,J1,Y0,Y1,10,11,K0,K1 DESCRIPTION PRINTED 83 9-SERIES 890179AA 890179-11A00 890179-34A00 SOURCE CARDS GRADIENT MINIMIZATION ROUTINE - FPMIN DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS 83 9-SERIES 890180AA 890180-11A00 890180-32A00 890180-34A00 DEFINITE INTEGRAL EVALUATION B3 9-SERIES 890181AA 890181-11A00 890181-32A00 890181-34A00 DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS

890182AA 90182AA B3 9-SERIES 890182-11A00 DOUBLE INTEGRATION BY SIMPSONS DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS

00045-281068 990185-34400

RUNGE-KUTTA INTEGRATION
DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890183AA B3 9-SERIES 890183-11A00

890183-32400

890183-34A00

890184AA

B3 9-SERIES

SOLUTION OF DIFFERENTIAL EQUATIONS R-K-G
DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890184-11A00 890184-32A00

890184-34A00

890185AA B3 9-SERIES 890185-11A00

LAGRANGE INTERPOLATION
DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890185-32A00

890185-34A00

890186AA B3 9-SERIES 890186-11A00 890186-32A00 POLYNOMIAL CURVE FIT

DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS

890186-34A00

0187AA B3 9-SERIES 890187-11A00 89018744 LEAST SQUARES POLYNOMIAL

DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS 890187-32A00 890187-34A00

90188A B3 9-SERIES 890188-11A00 B90188AA FOURIER COEFFICIENTS PERIODIC FUNCTIONS

DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS

890188-32A00

83 9-SERIES 890189-11A00

FREQUENCY BY PRONY'S METHOD DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS 890189-32A00

890189-34A00

890190AA 83 9-SERIES

SINE HAVE MONITOR DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS 890190-11A00 890190-32A00 890190-34A00

890191AA B3 9-SERIES 890191-11A00 CURVE/SURFACE FIT ARBITRARY FUNCTION DESCRIPTION PRINTED SOURCE CARDS

890191-34A00

NON-LINEAR CURVE FIT PROGRAM DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS 890192AA B3 9-SERIES

890192-11A00 890192-32A00

890192-34A00

890193AA B3 890193-11A00 B3 9-SERIES MATRIX MULTIPLICATION

DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890193-32A00 890193-34A00

89019444 B3 9-SERIES REAL MATRIX INVERSION (RMINV) 890194-11A00

DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890194-32A00 890194-34A00

REAL MATRIX MULTIPLY (RMMUL) 83 9-SERIES 89019544 DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890195-11A00 890195-32A00 890195-34A00 REAL MATRIX TRANSPOSE (RMTRA)
DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS B3 9-SERIES 890196AA 890196-11A00 890196-32A00 890196-34A00 REAL MATRIX ADDITION (RMADD)

DESCRIPTION PRINTED

SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890197AA B3 9-SERIES 890197-11A00 890197-32A00 890197-34A00 REAL MATRIX SUBTRACTION(RMSUB) R3 9-SERIES 890198AA 890198-11A00 890198-32A00 890198-34A00 DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS BOOLIAN MATRIX (FLAG PACKING)
DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS B3 9-SERIES 890199AA 890199-11A00 890199-32A00 890199-34A00 DETERMINANT EVALUATION
DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS AA00200AA 83 9-SERIES 00A11-002008 00A25-002008 890200-34A00 MATRIX INVERSION, DETERMINANT CALCULATION
DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS E8 AA105068 00A11-105068 00A5E-105068 83 9-SERIES B90201-34A00 SOLUTION OF SIMULTANEOUS EQUATIONS
DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890202AA B3 B3 9-SERIES 890202-34A00 PRINCIPAL AXES FACTOR ANALYSIS
DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS B3 9-SERIES 890203AA 890203-11A00 890203-32A00 890203-34A00 MATRIX PACKAGE FOR ARITHMETIC OPERATIONS
DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS B3 9-SERIES 890204AA 890204-11A00 890204-32A00 890204-34A00 GAUSSIAN NORMAL PROBABILITY ORDINATE 890205AA B3 890205-11A00 B3 9-SERIES DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890205-32A00 890205-34A00 GAUSSIAN NORMAL PROBABILITY INTEGRAL DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS 83 9-SERIES 890206AA 890206-11A00 890206-32A00 890206-34A00

890207AA B3 9-SERIES
890207-11A00 DESCRIPTION PRINTED
890207-32A00 SOURCE PAPER TAPE, 7 LEVELS
890207-34A00 SOURCE CARDS

890208AA B3 9-SERIES MULTIPLE LINEAR REGRESSION B90208-11A00 DESCRIPTION PRINTED B90208-34A00 SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS

890209AA B3 9-SERIES
890209-11A00 DESCRIPTION PRINTED
890209-32A00 SOURCE PAPER TAPE, 7 LEVELS
890209-34A00 SOURCE CARDS

890210-A 83 9-SERIES PSEUDO-RANDOM NUMBER SUBROUTINE (1RAND) 890210-11A00 DESCRIPTION PRINTED 890210-32400 SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS

890211AA B3 9-SERIES
B90211-11A00
B90211-32A00
B90211-32A00
B90211-34A00
B90211-34A00
B90211-34A00
B90211-34A00
B90211-34A00
B90211-34A00
B90211-34A00
B90211-34A00

890212AA B3 9-SERIES RANDOM NUMBER GENERATOR, RANDU 890212-11A00 DESCRIPTION PRINTED 890212-32A00 SOURCE PAPER TAPE, 7 LEVELS 890212-34A00 SOURCE CARDS

890213AA B3 9-SERIES
890213-11A00 DESCRIPTION PRINTED
890213-32A00 SOURCE PAPER TAPE, 7 LEVELS
890213-34A00 SOURCE CARDS

8902144A B3 9-SERIES PSEUDO-RANDOM NUMBER GENERATOR (RANDX)
890214-11A00 DESCRIPTION PRINTED
890214-32A00 SOURCE PAPER TAPE, 7 LEVELS
890214-34A00 SOURCE CARDS

890215AA B3 9-SERIES PSEUDO-RANDOM NUMBER SUBROUTINE (RAND)
890215-11AD0 DESCRIPTION PRINTED
890215-32AD0 SOURCE PAPER TAPE, 7 LEVELS
890215-34AD0 SOURCE CARDS

890217AA B3 9-SERIES LINEAR REGRESSION ANALYSIS 890217-11A00 DESCRIPTION PRINTED 890217-39400 SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS

890219AA B3 9-SERIES FORTRAN II MAGNETIC TAPE 1/0 ROUTINE 890219-11A00 DESCRIPTION PRINTED 890219-34A00 SOURCE CARDS

890220AA 83 9-SERIES READ BLOCKED INPUT FROM MAG. TAPE
890220-11A00 DESCRIPTION PRINTED
890220-32A00 SOURCE PAPER TAPE, 7 LEVELS
890220-34A00 SOURCE CARDS

890221AA B3 9-SERIES CONVOLUTION & FILTERING UNIT I/O ROUTINE B90221-11A00 DESCRIPTION PRINTED SOURCE CARDS

B3 9-SERIES 890222AA

CONVOLUTION, CORR, FILTER., OF TIME SERIES

890222-11A00

890222-34A00

DESCRIPTION PRINTED SOURCE CARDS

890223AA B3 9-SERIES 890223-11A00 890223-32A00 890223-34A00

BLANK PAPER TAPE LEADER GENERATOR DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS

89022488

FAST FORTRAN PRINT SUBROUTINE

90224AA 83 9-SERIES 890224-11A00 890224-32A00

DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS

890224-34A00

890225AA 83 9-SERIES

OSCILLOSCOPE DISPLAY ROUTINE DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS

890225-11A00

890225-32A00

890225-34A00

890226AA

B3 9-SERIES PLOT PACKAGE FOR XDS 9175 PLOTTER
11A00 DESCRIPTION PRINTED

890226-11A00 890226-34A00 SOURCE CARDS

890227AA

SCOOP TAPE PLOTTING ROUTINE, SCOPL-2

890227-11A00 890227-32A00 890227-34A00

890228AA

GENERAL GRAPHIC GENERA-PLOTTERTER

B3 9-SERIES GENERAL UNAFFILE
1A00 DESCRIPTION PRINTED
2A00 SOURCE PAPER TAPE, 7 LEVELS
4A00 SOURCE CAROS
4A00 ABSOLUTE BINARY CAROS 90228-11400 890228-32400 890228-34400 890228-84400

B3 9-SERIES AA625068

ON-LINE PRINT ROUTINE, PRNLN
DESCRIPTION PRINTED
COMPRESSED PAPER TAPE, 7 LEVELS
COMPRESSED CARDS

890229-11A00

890229-42A00 890229-44A00

890232AA 83 9-SERIES 890232-11A00

PLOT PACKAGE WITH LABELING DESCRIPTION PRINTED

890232-34A00 SOURCE CARDS

890233AA B3 9-SERIES

SEMI-LOG/LINEAR PLOT PACKAGE DESCRIPTION PRINTED SOURCE CARDS

890233-11A00 890233-34A00

83 9-SERIES 890234AA

PLOT PACKAGE SPECIAL CHART A03
DESCRIPTION PRINTED
SOURCE CARDS

890234-11A00

890234-34A00

89023544 90235AA 83 9-SERIES 890235-11A00 PLOT PACKAGE - NON-LABELING

DESCRIPTION PRINTED SOURCE CARDS

890235-34A00

0236AA 83 9-SERIES 890236-11A00 890236AA

POLAR PLOT PACKAGE DESCRIPTION PRINTED SOURCE CARDS

890236-34A00

B3 9-SERIES CALCOMP PLOTTER SUBROUTINE PACKAGE
11A00 DESCRIPTION PRINTED
24A00 RELOCATABLE BINARY CARDS
32A00 SOURCE PAPER TAPE, 7 LEVELS
34A00 SOURCE CARDS 890237-11A00 890237-24A00 890237-32A00 890237-34A00 B3 9-SERIES CORE DUMP TO MAGNETIC TAPE PROGRAM
11A00 DESCRIPTION PRINTED
32A00 SOURCE PAPER TAPE, 7 LEVELS
34A00 SOURCE CARDS 890239AA 890239-11A00 890239-34A00 890240AA 83 9-SERIES CORE DUMP TO UNBUFFERED LINEPRINTER
DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890240-11A00 890240-3200 890240-3400 890241AA B3 9-SERIES 890241-11A00 FORTRAN CALCOMP PLOTTER ROUTINE DESCRIPTION PRINTED
RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
RELOCATABLE BINARY CARDS 890241-22A00 OSCILLOSCOPE DISPLAY ROUTINE
DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 00242AA B3 9300 890242-11A00 890242AA 890242-32A00 890242-34A00 AAE#5088 XDS 920/930 SYMBOL MNEMONIC TABLE DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 8 LEVELS RELOCATABLE BINARY CARDS B3 9-SERIES 890243-11A00 890243-23A00 890243-24A00 890243-34A00 SOURCE CARDS 890244AA 83 9-SERIES 890244-11A00 COMPUTER ASSEMBLY PROGRAM FOR 2K-910 DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS 890244-32A00 890245AA 83 9-SERIES AC-DC CIRCUIT ANALYSIS COMPILER DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS 890245-11A00 890245-32A00 890246AA B3 9-SERIES MONITOR INPUT/OUTPUT PACKAGE-QUINOUT DESCRIPTION PRINTED 890246-11A00 890246-34A00 SOURCE CARDS 890247AA B3 9-SERIES 890247-11A00 890247-32A00 FORTRAN SEARCH ARRAY DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS SORT SUBROUTINE
DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 90248AA B3 9-SERIES 890248-11A00 890248AA 890248-32A00 890248-34A00 EDIT, CHARACTER STREAM EDITING PROGRAM DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS 890249AA B3 9-SERIES 890249-11A00 890249-32A00 LABEL TRACE ROUTINE, L-FORTRANRAN DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS 890250AA 83 9-SERIES 890250-11A00 890250-32A00 890250-34A00

REAL TIME FORTRAN OCTAL DUMP SUBROUTINE 890251AA B3 690251-11A00 690251-32A00 B3 9-SERIES DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890251-34A00 MEMORY DUMP FOR 9372 PRINTER 890252AA B3 9-SERIES DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
SOURCE PAPER TAPE, 7 LEVELS 890252-11A00 890252-24A00 890252-32A00 FORTRAN TO SYMBOL LANGUAGE RUN-TIME LIST 83 9-SERIES 890253AA B3 890253~11A00 DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890253-32A00 890253-34A00 SHIFT ROUTINE FOR A AND B REGISTERS
DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 89025488 83 9-SERIES 890254-11A00 890254-32A00 890254-34A00 HALT AND TRANSFER SIMULATION ROUTINE DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS B3 9-SERIES 890255AA 890255-11A00 890255-32A00 890255-34A00 SIMULATION OF SKIP ON COMPARISON INST.
DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS B3 9-SERIES 890256AA 890256-11A00 890256-32A00 SINGLE INSTRUCTION FLAG OPERATION, FLGPO DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS B3 9-SERIES 890257AA 890257-11A00 890257-32A00 890257-34A00 LINE PRINTER PLOTTING PACKAGE
DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS B3 9-SERIES 890258AA 890258-11A00 890258-32A00 890258-34A00 GRAPH ROUT FOR THE LINEPRINTER-PLOTTING 83 9-SERIES 890259AA B3 890259-11A00 DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890259-32A00 890259-34A00 GRAPH ROUTINES FOR LINE PRINTER-PLOTTING 90260AA B3 9-SERIES 890260-11A00 DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890260-32A00 890260-34A00 TAPE HANDLING ROUTINE - TAPE B3 9-SERIES 89026144 DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890261-11A00 890261-32A00 890261-34A00 TYPEWRITER (STD)LISTING OUTPUT SUBR DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS 83 9-SERIES 890262AA 890262-32A00 890262-32A00 TYPEHRITER (15'CARRIAGE) LISTING OUTPUT DESCRIPTION PRINTED SOURCE CARDS 890263AA 83 9-SERIES 890263-11A00

890264-AA B3 9-SERIES SET OR DETECT 1TH BIT OF A WORD B90264-11A00 DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS

CARD READER END OF FILE TEST DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS 0265AA B3 9-SERIES 890265-11A00 890265AA

890265-32A00 890265-34A00

80266AA B3 9-SERIES 890266-11A00 890266-32A00 LINE PRINTER LISTING SUBROUTINE DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS 890266AA

890266-34A00

890267AA B3 900-SERIES

RIES FORTRAN FLOHCHART PROGRAM
DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890267-11A00 890267-32A00

890267-34A00

890268AA PRINTER UTILITY PROGRAM

00268AA B3 9-SERIES 890268-11A00 890268-24A00 PRINTER UTILITY PROGRAM
DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 890268-32A00 890268-34A00

890268-82A00

CARD RESEQUENCE - DUPLICATOR (REPRO)
DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890269AA 90269AA 83 9-SERIES 890269-11A00

890269-32A00 890269-34A00

890270AA 83 9-SERIES 890270-11A00 LIBRARY UPDATE EXAMPLE DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890270-32A00 890270-34A00

890271AA. B3 9-SERIES 890271-11A00 890271-32A00 890271-34A00 PSI OR TSI SYMBOLIC INPUT/OPTIONAL MAG.

DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS

CARD SYMBOLIC INPUT/OPTIONAL MAG. TAPE DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS 890272AA 90272AA B3 9-SERIES 890272-11A00

890272-32A00 890272-34A00

BINARY TO DECIMAL CONVERSION DESCRIPTION PRINTED RELOCATABLE BINARY PAPER TAPE, 7 LEVELS SOURCE PAPER TAPE, 7 LEVELS 89027344 90273AA B3 9-SERIES 890273-11A00

890273-22A00 890273-32A00

890274AA 83 9-SERIES

XOS 92 PAPER TAPE EDITOR DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 890274-11A00 890274-32A00

890274-82A00

890275AA B3 890275-11A00 B3 9-SERIES FREQUENCY RESPONSE OF DIGITAL TRANSFER

DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890275-32A00 890275-34A00

890276AA B3 9-SERIES 890276-11A00 INVERSE Z-TRANSFORM DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890276-32A00 890276-34A00 D-T-L CIRCUIT DESIGN
DESCRIPTION PRINTED B3 9-SERIES 890277AA 890277-11A00 890277-32A00 SOURCE PAPER TAPE, 7 LEVELS BASIC CRITICAL PATH PROGRAM B3 9-SERIES 890278AR DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890278-11A00 890278-32800 890278-34800 U.S.STANDARD EARTH MODEL ATMOSPHERE DESCRIPTION PRINTED 890279AA B3 9-SERIES 890279-11A00 890279-32A00 SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS 890279-34A00 U.S.STANDARD EARTH ATMOSPHERE ROUTINE DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS 890280AA B3 9 B3 9-SERIES 890280-32A00 890280-34A00 890281AA B3 9-SERIES
890281-11A00
890281-32A00
890281-34A00

U.S.STANDARD MARS ATMOSPHERE ROUTINE(196
DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS B3 9-SERIES

A00 DESCRIPTION PRINTED

A00 SOURCE PAPER TAPE, 7 LEVELS

A00 SOURCE CARDS U.S.STANDARD VENUS ATMOSPHERE ROUTINE 890282AA B3 890282-32A00 890282-34A00 CIRCUIT DESIGN ANALYSIS CIRC DC B3 9-SERIES AAE85028 890283-35400 B90283-25 SOURCE MAG TAPE, 7 CHANNELS AIRPLANE LAT-DIR TIME HISTORY
DESCRIPTION PRINTED B3 9-SERIES 89028488 890284-11A00 SOURCE PAPER TAPE, 7 LEVELS 890284-32A00 UTILITIES INDUSTRY PACKAGE B3 9-SERIES 89028544 DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890285-11A00 890285-32A00 890285-34A00 00286AA B3 9-SERIES RPL, A DATA REDUCTION LANG. PRECOMPILER 890286-11A00 DESCRIPTION PRINTED 890286-25A00 890286-35 RELOCATABLE BINARY MAG TAPE, 7 CHANNELS 890286-35A00 SOURCE MAG TAPE, 7 CHANNELS 890286AA 890287AA B3 9-SERIES
890287-11A00 DESCRIPTION PRINTED
890287-32A00 SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS ON-LINE MATHEMATICAL COMPILER LOGICAL, BIT, AND CHARACTER MANIPULATION
DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS B3 9-SERIES 89028884 890288-11A00 890288-32A00

E8 AA682068 00A11-682068 83 9-SERIES LINE PRINTER PLOTTING ROUTINE DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS 890289-32A00

890289-34A00

HISTOGRAPH PLOT LINE PRINTER-HSTPLOT DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS 90290AA B3 9-SERIES 890290-11A00 89029044 890290-32A00 890290-34A00

WINNIM - PROGRAM TO PLAY NIM DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS 890291AA B3 9-SERIES 00A11-102008

890291-32A00 890291-34A00

890292AA 83 9-SERIES 890292-11A00 SAMPLE DATA FROM ANALOG INPUT AND STORE DESCRIPTION PRINTED 890292-34A00 SOURCE CARDS

90293AA B3 9-SERIES 890293-11A00 BCD CONVERSION, XDS - UNIVAC - XDS DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS 890293AA 890293-32A00

890294AA B3 9-SERIES MAG TAPE POSITION ROUTINE 890294-11A00 DESCRIPTION PRINTED

890295AA B3 890295-11A00 INTERPOLATION OR EXTRAPOLATION ROUTINE DESCRIPTION PRINTED B3 9-SERIES

90296AA 83 9-SERIES 890296-11A00 PAPER TAPE DUPLICATOR
DESCRIPTION PRINTED 89029644 890296-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

890297AA B3 890297-11A00 890297-34A00 B3 9-SERIES UNIVERSAL GRAPHIC PACKAGE-CRT4-PLOTTING DESCRIPTION PRINTED SOURCE CARDS
SOURCE MAG TAPE, 7 CHANNELS 890297-35A00

890298AA 83 9-SERIES FORTRAN II RAD LINKING PROCESSOR-RADLNK DESCRIPTION PRINTED
SOURCE CARDS
COMPRESSED CARDS 890298-11A00 890298-34A00 890298-44A00

SC4020 SUBROUTINES FOR XDS 920/930 DESCRIPTION PRINTED SOURCE CARDS 890299AA B3 9-SERIES 890299-11A00

DISK (RAD) HANDLER DESCRIPTION PRINTED SOURCE CARDS 890300AA B3 9-SERIES 890300-11A00 890300-34A00

890301AA B3 9-SERIES LABEL TRACE, MODIFIED 160 SYS 890301-11A00 890301-32A00 DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS SOURCE CARDS 890301-34A00

SELECTIVE LABEL TRACE, 180SYS
DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS
SOURCE CARDS AAS0E068 83 9-SERIES 890302-11A00 B90302-32A00 890302-34A00

890303AA B3 890303-11A00 B3 9-SERIES

890303-32A00

INSPECTION/CORRECTION BY TYPEHRITER

DESCRIPTION PRINTED
SOURCE PAPER TAPE, 7 LEVELS

90304AA B3 9-SERIES 890304-11A00 890304AA

890304-32A00

FORTRAN MEMORY SAVE ON MAG TAPE DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS

90305AA 83 9-SERIES 890305-11A00

890305-32A00

B>SORT-BUSINESS LANGUAGE SORT ROUTINE DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS

90306AA B3 9-SERIES 890306-11A00

890306-34A00

FORTRAN CARD READ SUBROUTINE (216 SYS)
DESCRIPTION PRINTED

SOURCE CARDS

890307AA B3 9-SERIES

890307-11A00 890307-32A00

MUSIC BOX DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS

0308AA 83 9-SERIES 890308-11A00 89030884

890308-34A00

FORTRAN LABEL TRACE POP (160 SYS)
DESCRIPTION PRINTED
SOURCE CARDS

90309AA B3 9-SERIES 890309-11A00 890309AA

890309-32A00

TIC-TAC-TOE ROUTINE DESCRIPTION PRINTED SOURCE PAPER TAPE, 7 LEVELS

90310AA 83 9300 890310-11A00 890310AA

FORTRAN EXTENDER LIB.-BIT HANDLING & 1/0 DESCRIPTION PRINTED

COMPRESSED CARDS

890310-44A00

890311AA

B3 SIGMA 5/7 DEBUG ROUTINE-ON-LINE 1ADD DESCRIPTION PRINTED 4ADO ABSOLUTE BINARY CARDS

890311-11A00 890311-84A00

89031288

90312AA 83 SIGMA 5/7 FOCAL, FORTRAN-CALCULATOR, DESK CALC. 890312-11A00 DESCRIPTION PRINTED 890312-34A00 SOURCE CARDS 890312-51A00 890312-11 LISTING PRINTED

890313AB 83 9-SERIES 890313-11A00 890313-34A01

FAST FOURIER TRANSFORM--FOURT DESCRIPTION PRINTED SOURCE CARDS

89031444 83 9-SERIES FAST FOURIER TRANSFORM--FOURG DESCRIPTION PRINTED SOURCE CARDS

890314-11A00 890314-34A00

890315AB B3 9-SERIES FAST FOURIER TRANSFORM--FOUR2 DESCRIPTION PRINTED SOURCE CARDS

890315-11800 890315-34800

83 9-SERIES 890316AA

FAST FOURIER TRANSFORM--FOUR1
DESCRIPTION PRINTED
SOURCE CARDS

890316-11A00 890316-34A00

```
890317AA B3
890317-11A00
                                        FAST FOURIER TRANSFORM--FOR2D DESCRIPTION PRINTED
                   B3 9-SERIES
    890317-34A00
                                         SOURCE CARDS
                                 SERIES CIRCUIT DESIGN ANALYSIS - CIRC-AC
DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
SOURCE CARDS
SOURCE CARDS
SOURCE MAG TAPE, 7 CHANNELS
CIRC-AC USERS MANUAL-900 SERIES CIRC AC
    90318AA B3 900-SERIES
890318-11A00 D
 890318AA
    890318-24A00
890318-34A00
    890318-35A00
    901651
                   93 SIGMA 5/7 REGISTED
AND DESCRIPTION PRINTED
 890319AA
                                                          REGISTRATION STATISTICS PACKAGE
    890319-11A00
890319-34A00
                                        SOURCE CARDS
SOURCE MAG TAPE, 9 CHANNELS
LISTING PRINTED
    890319-36A00
890319-51A00
                                        XDS 92 FORTRAN IV COMPILER DESCRIPTION PRINTED LISTING MAG TAPE, 7 CHANNELS ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
890320AA
                   B3 92
    890320-11A00
    890320-55A00
    890320-82A00
   890321AA
890322AC B3 SIGMA 5-9 FREE FIELD FORTRAN IV INPUT SUBROUTINE
890322-11C00 DESCRIPTION PRINTED
890322-34C00 SOURCE CARDS
   90323AB B3 SIGMA 5/7 FORTRAN IV KEYED FILE I/O ROUTINES
890323-11800 DESCRIPTION PRINTED
890323-34800 SOURCE CARDS
890323-51800 890323-11 LISTING PRINTED
890323AB
890324AB B3
890324-11800
890324-34800
                   B3 SIGMA 5-9
                                                         FORTRAN IV BCD-EBCDIC CONVERSION SUBR.
                                      DESCRIPTION PRINTED SOURCE CARDS
  90325AA B3 SIGMA 5/7 TIME AND/OR DATE SUBROUTINE
890325-11A00 DESCRIPTION PRINTED
890325-34A00 SOURCE CARDS
890325-51A00 890325-11 LISTING PRINTED
690325-74A00 DATA CARDS
890325AA
                  B3 SIGMA 5/7 COMPRESSED SOURCE MERGE PROGRAM
A00 DESCRIPTION PRINTED
A00 RELOCATABLE BINARY CARDS
A00 SOURCE CARDS
890326AA
   890326-11A00
   890326-24A00
890326-34A00
   890326-51A00 890326-11 LISTING PRINTED
890327AB B3 SIGMA 7
890327-11800
                                       INTEGER BOOLEAN FUNCTIONS FOR SIGMA 7
DESCRIPTION PRINTED
   890327-34800 SOURCE CARDS
890327-51800 890327-11 LISTING PRINTED
890327-64800 UPDATE ON CARDS
                  B3 SIGMA 2/3 COGO COORDINATE GEOMETRY LANG.-CIVIL ENG ADO DESCRIPTION PRINTED SOURCE MAG TAPE, 9 CHANNELS ADD DATA CARDS
890328AA B3
890328-11A00
   890328-36A00
890328-74A00
   890328-84A00
                                        ABSOLUTE BINARY CARDS
```

890329AA B3 900-SERIES SEMILOO PLOTTING ROUTINES 890329-11A00 DESCRIPTION PRINTED 890329-34A00 SOURCE CARDS 890329-51A00 890329-11 LISTING PRINTED

890330AA B3 900-SERIES PLOT '8 VECTOR' PLOTTING PACKAGE 890330-11A00 DESCRIPTION PRINTED 890330-34A00 SOURCE CARDS 890330-51A00 890330-11 LISTING PRINTED

890331AA B3 900-SERIES PLOT (24 VECTOR) PLOTTING PACKAGE 890331-11A00 DESCRIPTION PRINTED 890331-34A00 SOURCE CARDS 890331-51A00 890331-11 LISTING PRINTED

890332AA B3 900-SERIES WORD/BIT ORIENTED FUNCTION & SUBROUTINE
890332-11A00 DESCRIPTION PRINTED
890332-34A00 SOURCE CARDS
890332-51A00 890332-11 LISTING PRINTED

890333AA B3 900-SERIES SUBROUTINE SLZDEQ
890333-11A00 DESCRIPTION PRINTED
890333-34A00 SOURCE CARDS
890333-51A00 890333-11 LISTING PRINTED

890334A B3 900-SERIES NOPRINT, READ AND REREAD PACKAGE (10)
890334-11A00 DESCRIPTION PRINTED
890334-34A00 SOURCE CARDS
890334-51A00 890334-11 LISTING PRINTED

890335AA 83 900-SERIES FORTRAN READ AND WRITE TAPE ROUTINES.
890335-11A00 DESCRIPTION PRINTED
890335-34A00 SOURCE CARDS
890335-51A00 890335-11 LISTING PRINTED

890336AA B3 900-SERIES SORT-MODIFIED SHELL MERGE-EXCHANGE 890336-11A00 DESCRIPTION PRINTED 890336-34A00 SOURCE CAROS 890336-51A00 890336-11 LISTING PRINTED

890337AA 83 900-SERIES PACKING AND UNPACKING OF FLOATING POINT 890337-11A00 DESCRIPTION PRINTED 890337-34A00 SOURCE CARDS 890337-51A00 890337-11 LISTING PRINTED

890338AA 83 900-SERIES END-OF-FILE TEST 890338-11A00 DESCRIPTION PRINTED 890338-34A00 SOURCE CARDS 890338-51A00 890338-11 LISTING PRINTED

890339AA B3 900-SERIES END-OF-PAGE TEST ROUTINE 890339-11A00 DESCRIPTION PRINTED 890339-34A00 SOURCE CARDS 890339-51A00 890339-11 LISTING PRINTED

890340AA B3 900-SERIES MAGNETIC TAPE POSITIONING ROUTINES
890340-11A00 DESCRIPTION PRINTED
890340-34A00 SOURCE CARDS
890340-51A00 890340-11 LISTING PRINTED

890341-A B3 900-SERIES COUNT FILES/RECORDS ON MAGNETIC TAPE 890341-11A00 DESCRIPTION PRINTED 890341-34A00 SOURCE CARDS 890341-51A00 890341-11 LISTING PRINTED

890342AA 83 900-SERIES TAPE LABEL AND POSITIONING 890342-11A00 DESCRIPTION PRINTED
890342-34A00 SOURCE CARDS
890342-51A00 890342-11 LISTING PRINTED

890343-AA B3 900-SERIES ERROR 890343-11A00 DESCRIPTION PRINTED 890343-34A00 SOURCE CARDS 890343-51A00 890343-11 LISTING PRINTED

890344-11A00 DESCRIPTION PRINTED 890344-14A00 DESCRIPTION PRINTED 890344-34A00 SOURCE CARDS 890344-51A00 890344-11 LISTING PRINTED

890345AA B3 900-SERIES HISTPRINT AND HISTPLOT
890345-11A00 DESCRIPTION PRINTED
890345-34A00 SOURCE CARDS
890345-51A00 890345-11 LISTING PRINTED

890346AA B3 900-SERIES PLOTTER ROUTINE FOR ON-LINE PRINTER
890346-11A00 DESCRIPTION PRINTED
890346-34A00 SOURCE CARDS
890346-51A00 890346-11 LISTING PRINTED

890347AA B3 900-SERIES PROBABILITY FUNCTIONS - ERRF, ZGAUSSF, P
890347-11A00 DESCRIPTION PRINTED
890347-34A00 SOURCE CARDS
890347-51A00 890347-11 LISTING PRINTED

890348AA B3 900-SERIES REVERSE SEMILOG PLOTTING PACKAGE 890348-11A00 DESCRIPTION PRINTED 890348-34A00 SOURCE CARDS 890348-51A00 890348-11 LISTING PRINTED

890349AA B3 900-SERIES STATPAK-STATISTICAL PACKAGE
890349-11A00 DESCRIPTION PRINTED
890349-34A00 SOURCE CARDS
890349-51A00 890349-11 LISTING PRINTED

890350AA B3 900-SERIES GENERAL PLOTTING PACKAGE 890350-11A00 DESCRIPTION PRINTED 890350-34A00 SOURCE CARDS 890350-51A00 890350-11 LISTING PRINTED

890351AA B3 900-SERIES SEMILOG PLOTTING PACKAGE
890351-11A00 DESCRIPTION PRINTED
890351-34A00 SOURCE CARDS
890351-51A00 890351-11 LISTING PRINTED

890352-A B3 900-SERIES LOGAXIS PLOTTING SUBROUTINE
890352-11A00 DESCRIPTION PRINTED
890352-34A00 SOURCE CARDS
890352-51A00 890352-11 LISTING PRINTED

```
890353AA B3 900-SERIES PLOTTING SUBROUTINE LOGSCALE
890353-11A00 DESCRIPTION PRINTED
890353-34A00 SOURCE CARDS
890353-51A00 890353-11 LISTING PRINTED
```

890354-11400 B90354-34400 B90354-51400 B90354-51400 B90354-51400 B90354-11 LISTING PRINTED

890355AA B3 900-SERIES BCD CONVERSION OF NUMERIC DATA 890355-11A00 DESCRIPTION PRINTED 890355-34A00 SOURCE CARDS 890355-51A00 890355-11 LISTING PRINTED

890356AA B3 900-SERIES ERASE MAGNETIC TAPE IN FORTRAN
890356-11A00 DESCRIPTION PRINTED
890356-34A00 SOURCE CARDS
890356-51A00 890356-11 LISTING PRINTED

890363AD B3 SIGMA 5-9 SOL-SIMULATION-ORIENTED LANGUAGE
890363-11D00 DESCRIPTION PRINTED
890363-26D00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS

890366AB B3 SIGMA 5/7 LISP 1.5-LANGUAGE FOR LIST PROCESSING
890366-11800 DESCRIPTION PRINTED
890366-26800 890366-46 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890366-86800 890366-46 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS

890377AA B3 900-SERIES SUBROUTINE RE20EQ
890377-11A00 DESCRIPTION PRINTED
890377-34A00 SOURCE CARDS
890377-51A00 890377-11 LISTING PRINTED

890378AA B3 900-SERIES SUBROUTINE DASHPLOT PLOTTER
890378-11A00 DESCRIPTION PRINTED
890378-34A00 SOURCE CARDS
890378-51A00 890378-11 LISTING PRINTED

890379AA B3 900-SERIES LINEAR PLOTTING PACKAGE 890379-11A00 DESCRIPTION PRINTED 890379-34A00 SOURCE CARDS 890379-51A00 890379-11 LISTING PRINTED

890380-11A00 B90380-34A00 B90380-51A00 B90380-51A00 B90380-11 LISTING PRINTED

890383AA B3 SIGMA 5/7 MESSAGE HRITER FOR PRINTER OR TYPEHRITER
890383-31400 DESCRIPTION PRINTED
SOURCE CARDS

890384AA B3 900-SERIES FORTRAN PRECOMPILER FORT 11-FORT 1VH 890384-11A00 DESCRIPTION PRINTED 890384-34A00 SOURCE CARDS

890387-11A00 B90387-31A00 B90387-51A00 B90387-74A00 B90387-74A00 B90387-74A00 B90387-11 LISTING PRINTED B90387-74A00 B90387-11 LISTING PRINTED

```
890388AB B3 SIGMA 5/7 SYMBOL LA

890388-11800 DESCRIPTION PRINTED

890388-34800 SOURCE CARDS

890388-51800 890388-11 LISTING PRINTED
                                                                         SYMBOL LAB. ROUTINE FOR CALCOMP PLOTTER
      90389AA B3 SIGMA 2/3 TEXT EDITOR FOR 9
890389-11A00 DESCRIPTION PRINTED
890389-33A00 SOURCE PAPER TAPE, 8 LEVELS
890389-34A00
890389-51A00 890389-11 LISTING PRINTED
   AAPSTOPS
                                                                       TEXT EDITOR FOR SIGMA 2
                                              -9 VUL2-VANDERBILT STATISTICAL PACKAGE
DESCRIPTION PRINTED
SOURCE MAD TAPE, 9 CHANNELS
DATA CARDS
   890400AB B3 SIGMA 5-9
890400-11800
       890400-36800
890400-74800
  890523AA B3 SIGMA 2
890523-11A00 DESCRIPTION PRINTED
890523-32A00 SOURCE PAPER TAPE, 7 LEVELS
890523-51A00 890523-11 LISTING PRINTED
                                                                        DEBUG/TRACE (SIGMA 2)
     90524AA B3 940 940 TELETYPE PLOT ROUTINES
890524-11A00 DESCRIPTION PRINTED
890524-23A00 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
890524-51A00 890524-11 LISTING PRINTED
  ROUESUAA
     90525AA B3 900-SERIES NODE OPTIMIZATION ROUTINE

890525-11A00 DESCRIPTION PRINTED

890525-34A00 SOURCE CARDS

890525-11A00 890525-11 LISTING PRINTED

890525-74A00 DATA CARDS
 890525AA
 890526AA
                      B3 920
                                                                       REAL-TIME FORTRAN RUN-TIME DEBUG
     890526-11A00
     890526-11A00 DESCRIPTION PRINTED
890526-34A00 SOURCE CARDS
890526-51A00 890526-11 LISTING PRINTED
 890527AA 83
890527-11A00
                                                                      DDT-92 DEBUGGING ROUTINE
                                                 DESCRIPTION PRINTED
     890527-34A00
                                            CONVERSATIONAL FUNCTIONAL ASSEMBLER DESCRIPTION PRINTED
 890528AA
                       B3 910
     890528-11A00
     890528-34A00 SOURCE CARDS
890528-51A00 890528-11 LISTING PRINTED
 890529AA
    90529AA B3 900-SERIES PRINTX-PRINTER SUBROUTINE

890529-11A00 DESCRIPTION PRINTED

890529-22A00 RELOCATABLE BINARY PAPER TAPE, 7 LEVELS

890529-32A00 SOURCE PAPER TAPE, 7 LEVELS

890529-51A00 890529-11 LISTING PRINTED
                       B3 900-SERIES
                     B3 900-SERIES PUNCHX PUNCH SUBROUTINE
1A00 DESCRIPTION PRINTED
2A00 RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
2A00 SOURCE PAPER TAPE, 7 LEVELS
 890530AA
    890530-11A00
    890530-32A00
    890530-51A00 890530-11 LISTING PRINTED
890531AA B3 SIGMA 5/7 FILE EDITOR (N

890531-11A00 DESCRIPTION PRINTED

890531-24A01 RELOCATABLE BINARY CARDS

890531-44A00 COMPRESSED CARDS

890531-51A00 890531-11 LISTING PRINTED
                                                                    FILE EDITOR (METAMEDIA)
```

B3 SIGMA 5/7 JANUS TIMESHARING SYSTEM
A00 DESCRIPTION PRINTED
A00 SOURCE MAG TAPE, 9 CHANNELS
A00 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS 890532AA 890532-11A00 890532-36A00 890532-86A00 GORDO TIME SHARED GRAPHICS FACILITY DESCRIPTION PRINTED SOURCE MAG TAPE, 9 CHANNELS B3 SIGMA 7 890533-11A00 890533-36A00 90534AA B3 SIGMA 5/7 PHORMER - DATAFORM GENERATOR BY PLOTTER
890534-11A00 DESCRIPTION PRINTED
890534-34A00 SOURCE CARDS 890534AA 890534-34A00 SOURCE CARDS 890534-51A00 890534-11 LISTING PRINTED 890538AA 83 92 890538-11A00 TABLCON DESCRIPTION PRINTED 890538-34A00 SOURCE CARDS QUBLOR DO-OPT PUNCH FOR INPUT TABLEON DESCRIPTION PRINTED 890539AA B3 92 890539-11A00 890539-34A00 SOURCE CARDS 90540AA B3 930 MONARCH SYSTEM 890540-11A00 DESCRIPTION PRINTED 890540-24A00 RELOCATABLE BINARY CARDS 890540-34A00 SOURCE CARDS 890540-51A00 890540-11 LISTING PRINTED MONARCH SYSTEM UPDATE 890540AA A GENERAL MAG TAPE ROUTINE
DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
SOURCE CARDS
42-11 LISTING PRINTED 890541AA 83 930 890541-11A00 890541-24A00 890541-34A00 890541-51A00 890542-11 LISTING PRINTED EDIT (SERVICE PROGRAM) FOR MAGNETIC TAPE
DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
SOURCE CARDS 890542AA 890542-11A00 890542-24208 890542-34400 SOURCE CARDS 890542-51400 890542-11 LISTING PRINTED 90543AA B3 SIGMA 5/7 TIC TAC TOE -39 890543-11A00 DESCRIPTION PRINTED 890543-33A00 SOURCE PAPER TAPE, 8 LEVELS 890543-34A00 SOURCE CARDS 890543-51A00 890543-11 LISTING PRINTED 890543AA 890544AA 83 SIGMA 5/7 UTILIIT FACADA 890544-11AOO DESCRIPTION PRINTED RELOCATABLE BINARY CARDS UTILITY PACKAGE 'HELP' B3 SIGMA 5-9 FORTRAN CROSS REFERENCE PROGRAM
B00 DESCRIPTION PRINTED
COMPRESSED CARDS 890545-11800 00546AC B3 SIGMA 5-9 GETFILE 890546-11000 DESCRIPTION PRINTED COMPRESSED CARDS

90547AA B3 SIGMA 5/7 SNAP TRANSLATOR 890547-11A00 DESCRIPTION PRINTED 890547-26A00 890547-36 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS 890547-36A00 SOURCE MAG TAPE, 9 CHANNELS 890548AB 83 930 REGEN-A BINARY TO SYMBOLIC TRANSLATOR

DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
SOURCE CARDS
COMPRESSED CARDS 890548-11800 890548-24800

890548-34800 890548-44800

89054944

90549AA B3 SIGMA 5/7
B90549-11A00 DESCRIPTION PRINTED
890549-24A00 RELOCATABLE BINARY CARDS
890549-34A00 SOURCE CARDS
B90549-51A00 890549-11 LISTING PRINTED

GENERALIZED EBCDIC OUTPUT ROUTINE

890550AA B3 SIGMA 5/7 GENERALIZED EE 890550-11A00 DESCRIPTION PRINTED RELOCATABLE BINARY CARDS 890550-34A00 SOURCE CARDS 890550-51A00 890550-11 LISTING PRINTED

83 SIGMA 5/7 7 CARD LISTER USING SIG 5/7 (STAND-ALONE)
DESCRIPTION PRINTED
ABSOLUTE BINARY CARDS 890554-11A00 890554-84A00

B3 SIGMA 5/7 CARD DUPLICATOR - USES 7180 PUNCH 1A00 DESCRIPTION PRINTED HA00 ABSOLUTE BINARY CARDS 890556AA

890556-11A00 890556-84A00

890557AA B3 SIGMA 5/7 BIRD WHISTLING-SIMULATION
890557-11A00 DESCRIPTION PRINTED
ABSOLUTE BINARY CARDS

890558AB 83 SIGMA 5/7 BUSINESS POLICY GAME 890558-11800 DESCRIPTION PRINTED 890558-36800 SOURCE MAG TAPE, 9 CHANNELS

B3 SIGMA 5/7 BTM/3 GASP 11 DESCRIPTION PRINTED ROUSEGAA 890559-11A00 890559-34A00 SOURCE CARDS

B3 SIGMA 5/7 BPM/3 GASP II SIMULATION PACKAGE
A00 DESCRIPTION PRINTED
SOURCE CARDS 890560AA B3 890560-11A00

890560-34400

5/7
ANALOG DIGITAL SIMULATION PROGRAM
DESCRIPTION PRINTED
SOURCE MAG TAPE, 9 CHANNELS B3 SIGMA 5/7 890561AB

890561-11800 890561-36800

89056244

90562AA B3 SIGMA 5/7
890562-11A00 DESCRIPTION PRINTED
890562-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890562-34A00 890562-26 SOURCE CARDS
890562-74A00 890562-26 DATA CARDS

A 2/3 COMMERCIAL SUBSET FOR BUS. APPLICATIONS
DESCRIPTION PRINTED
SOURCE CARDS
SOURCE MAG TAPE, 9 CHANNELS 890579AB B3 SIGMA 2/3 890579-11800

890579-34A01 890579-36A01

MA 5/7 SOP-STUDENT ONLINE PREREGISTRATION PROG.
DESCRIPTION PRINTED 890581AA B3 SIGMA 5/7

890581-11A00 890581-34A00

SOURCE CARDS

890582AA 83 SIGMA 5/7 BLDCRSE-S-O-P COURSE NAME PROGRAM 890582-11A00 890581-11 DESCRIPTION PRINTED 890582-34A00 890581-34 SOURCE CARDS

890583AA B3 SIGMA 5/7 BLDNAME - S-O-P STUDENT NAME PROGAM 890583-11A00 890581-11 DESCRIPTION PRINTED 890583-34A00 890581-34 SOURCE CARDS

890585AA B3 SIGMA 5/7 BPM SELF SCARE- CARD READER SYMB. START
890585-11A00 DESCRIPTION PRINTED
890585-34A00 SOURCE CARDS

890586AA B3 900-SERIES CROSS REFERENCE FOR FORTRAN PROGRAMS
890586-11400 DESCRIPTION PRINTED
890586-34400 SOURCE CARDS

890587AA B3 SIGMA 5/7 EBCDIC-HEXDUMP MAG TAPE / RAD FILE 890587-11A00 DESCRIPTION PRINTED SOURCE CARDS

CONTROL OF CLOWN FIT OF STEEL BUT SUE SPACE

890588AA B3 SIGMA 5/7 DELETE RAD FILE PROGRAM
890588-11A00 DESCRIPTION PRINTED
890588-34A00 SOURCE CARDS

890589AA 83 SIGMA 5/7 FORTIY-SCATTER READ/HRITE HAG TAPE PACK.
890589-11400 DESCRIPTION PRINTED
890589-34400 SOURCE CARDS

890590AA B3 SIGMA 5/7 PERSPECTIVE PLOT 890590-11A00 DESCRIPTION PRINTED 890590-34A00 SOURCE CARDS

890591AA B3 SIGMA 5/8/7 GENERAL LEDGER SYSTEM (COVER)
890591-11A00 DESCRIPTION PRINTED
890591-24A00 890591-36 RELOCATABLE BINARY CARDS
890591-36A00 SOURCE MAG TAPE, 9 CHANNELS
890591-74A00 890591-36 DATA CARDS

890592AA B3 SIGMA 5/6/7 DISTRIBUTION LEDGER TRIAL BALANCE DP0215 890592-11A00 890591-11 DESCRIPTION PRINTED 890592-36A00 890591-36 SOURCE MAG TAPE, 9 CHANNELS

890593AA B3 SIGMA 5/6/7 MONTHLY BUDGET STATEMENTS (DP0222) 890593-11A00 890591-11 DESCRIPTION PRINTED 890593-36A00 890591-36 SOURCE MAG TAPE, 9 CHANNELS

890594AA B3 S16MA 5/8/7 GENERAL LEDGER TOTALS (DP0311) 890594-11A00 890591-11 DESCRIPTION PRINTED 890594-36A00 890591-36 SOURCE MAG TAPE, 9 CHANNELS

890595AA B3 SIGMA 5/8/7 GENERAL LEDGER PROOF 890595-11A00 890591-11 DESCRIPTION PRINTED 890595-36A00 890591-36 SOURCE MAG TAPE, 9 CHANNELS 890596AA 83 SIGMA 5/6/7 GENERAL LEDGER MONTHLY STATEMENT (DP0318 890596-11A00 890591-11 DESCRIPTION PRINTED 890596-36A00 890591-36 SOURCE MAG TAPE, 9 CHANNELS

890597AA B3 SIGMA 5/6/7 OUTSTANDING CHECK LISTING (DP0512) 890597-11A00 890591-11 DESCRIPTION PRINTED 890597-36A00 890591-36 SOURCE MAG TAPE, 9 CHANNELS

890598AC B3 SIGMA 5-9 COBOL KEYED-FILE UTILITY SUBROUTINES
890598-11800 DESCRIPTION PRINTED
SOURCE CARDS

890601AB 83 SIGMA 5/6/7 COBOL SUBROUTINE GETCOM 890601-11800 890598-11 DESCRIPTION PRINTED 890601-34800 890598-34 SOURCE CARDS

890603AB 83 SIGMA 5/6/7 COBOL SUBROUTINE KEYSTART 890603-11800 890598-11 DESCRIPTION PRINTED 890603-34800 890598-34 SOURCE CARDS

890604AB B3 SIGMA 5/6/7 COBOL ADD SEQUENTIAL SUBROUTINE 890604-11800 890598-11 DESCRIPTION PRINTED 890604-34800 890598-34 SOURCE CARDS

890605AB B3 SIGMA 5/6/7 COBOL SUBROUTINE PAPERCHO 890605-11800 89059B-11 DESCRIPTION PRINTED 890605-34800 89059B-34 SOURCE CARDS

890606AB B3 SIGMA 5/8/7 COBOL SUBROUTINE BDP\$PRT 890606-11B00 890598-11 DESCRIPTION PRINTED 890606-34B00 890598-34 SOURCE CARDS

890607AB B3 SIGMA 5/6/7 COBOL SUBROUTINE BINARY SEARCH 890607-11B00 890598-11 DESCRIPTION PRINTED 890607-34B00 890598-34 SOURCE CARDS

890612-A B3 SIGMA 5/7 HIERARCHICAL TEXT EDITOR
890612-11A00 DESCRIPTION PRINTED
890612-24A00 RELOCATABLE BINARY CARDS
890612-44A00 COMPRESSED CARDS

90613AA B3 SIGMA 7
890613-11A00 DESCRIPTION PRINTED
890613-24A00 RELOCATABLE BINARY CARDS
690613-44A00 COMPRESSED CARDS

```
890814AA B3 SIGMA 5/7 RAD FILES IN/OUT

890614-11A00 DESCRIPTION PRINTED

890614-34A00 SOURCE CARDS

890614-51A00 890614-11 LISTING PRINTED
```

890615-A B3 SIOMA 5/7 PROCEDURES FOR ASSEMBLY OF SIGMA 2 PROG. 890615-11A00 DESCRIPTION PRINTED SOURCE CARDS 890615-51A00 890615-11 LISTING PRINTED

890616AA B3 SIGMA 5/7 DISC DUMP PROGRAM 890616-11A00 DESCRIPTION PRINTED 890616-34A00 SOURCE CARDS 890616-51A00 890616-11 LISTING PRINTED

890617AB B3 SIGMA 5/6/7 DITTO - SIGMA UTILITY FILE MANIPULATOR 890617-11800 DESCRIPTION PRINTED 890617-44800 COMPRESSED CARDS 890617-74800 890617-44 ASSEMBLY & LOAD CARDS

890620AA B3 SIGMA 5/6/7 ACCOUNTS PAYABLE SYSTEM (COVER)
890620-11A00 DESCRIPTION PRINTED
890620-36A00 SOURCE MAG TAPE, 9 CHANNELS

890621AA B3 SIGMA 5/6/7 YEARLY ACCOUNTS PAYABLE TOTALS (DP0112)
890621-11A00 890620-11 DESCRIPTION PRINTED
890621-36A00 890620-36 SOURCE MAG TAPE, 9 CHANNELS
890621-74A00 890620-36 DATA CARDS

B90622AA B3 SIGMA 5/6/7 ACCOUNTS PAYABLE VENDOR LABELS (DP0113) B90622-11A00 B90620-11 DESCRIPTION PRINTED B90622-36A00 B90620-36 SOURCE MAG TAPE, 9 CHANNELS B90622-74A00 B90620-36 DATA CARDS

890623AA B3 SIGMA 5/8/7 DUE DATE ACCRUED PAYABLES (DP0115) 890623-11A00 890620-11 DESCRIPTION PRINTED 890623-36A00 890620-36 SOURCE MAG TAPE, 9 CHANNELS 890623-74A00 890620-36 DATA CARDS

890624AA B3 SIGMA 5/8/7 ACCOUNTS PAYABLE CHECK REGISTER (DP0118) 890624-11A00 890620-11 DESCRIPTION PRINTED 890624-36A00 890620-36 SOURCE MAG TAPE, 9 CHANNELS 890624-74A00 890620-36 DATA CARDS

890625AA B3 SIGMA 5/8/7 ACCOUNTS PAYABLE CHECKS (DP0120) 890625-11A00 890620-11 DESCRIPTION PRINTED 890625-36A00 890620-36 SOURCE MAG TAPE, 9 CHANNELS

890826AA B3 SIGMA 5/8/7 ACCOUNTS RECEIVABLE SYSTEM (COVER)
890826-11ADD DESCRIPTION PRINTED
890826-36ADD SOURCE MAG TAPE, 9 CHANNELS

890627AA B3 SIGMA 5/6/7 ACCOUNTS RECEIVABLE TRIAL BALANCE-DP0716 890627-11A00 890626-11 DESCRIPTION PRINTED 890627-36A00 890626-36 SOURCE MAG TAPE, 9 CHANNELS 890627-74A00 890626-36 DATA CARDS

890628AA B3 SIGMA 5/8/7 ACCOUNTS RECEIVABLE BILLING-DP0721 890628-11A00 890626-11 DESCRIPTION PRINTED 890628-36A00 890626-36 SOURCE MAG TAPE, 9 CHANNELS

890630AA B3 SIGMA 5/6/7 BOOKSTORE ACCOUNTS RECEIVABLE (DP0911) 890630-11A00 890629-11 DESCRIPTION PRINTED 890630-36A00 890629-36 SOURCE MAG TAPE, 9 CHANNELS 890630-74A00 890629-36 DATA CARDS

890631AA B3 SIGMA 5/6/7 BOOKSTORE STATEMENTS (DP0913) 890631-11A00 890629-11 DESCRIPTION PRINTED 890631-36A00 890629-36 SOURCE MAG TAPE, 9 CHANNELS 890631-74A00 890629-36 DATA CARDS

890632-A B3 SIGMA 5/6/7 BOOKSTORE DEPARTMENT CHARGES (DP0918)
890632-11A00 890629-11 DESCRIPTION PRINTED
890632-36A00 890629-36 SOURCE MAG TAPE, 9 CHANNELS
890632-74A00 890629-36 DATA CARDS

890633AA B3 SIGMA 5/6/7 BOOKSTORE TRIAL BALANCE (DP0917) 890633-11A00 890629-11 DESCRIPTION PRINTED 890633-36A00 890629-36 SOURCE MAG TAPE, 9 CHANNELS 890633-74A00 890629-36 DATA CARDS

890634AA B3 SIGMA 5/6/7 ALUMNI SYSTEM 890634-11A00 DESCRIPTION PRINTED 890634-36A00 SOURCE MAG TAPE, 9 CHANNELS

890635AA B3 SIGMA 5/6/7 ALUMI ALUMNI UPDATING 890635-11A00 890634-11 DESCRIPTION PRINTED 890635-36A00 890634-36 SOURCE MAG TAPE, 9 CHANNELS

890638AA B3 SIGMA 5/8/7 ALUM2 LONG FORM DIRECTORY 890638-11A00 890634-11 DESCRIPTION PRINTED 890638-36A00 890634-36 SOURCE MAG TAPE, 9 CHANNELS

890639AA B3 SIGMA 5/6/7 ALUM3 CLASS DIRECTORY 890639-11A00 890634-11 DESCRIPTION PRINTED 890639-36A00 890634-36 SOURCE MAG TAPE, 9 CHANNELS

890642AA B3 SIGMA 5/6/7 ALUM4 SELECTIVE ALUMNI 890642-11A00 890634-11 DESCRIPTION PRINTED 890642-36A00 890634-36 SOURCE MAG TAPE, 9 CHANNELS

890643AA 83 SIGMA 5/6/7 ALUM5 HEAT TRANSFER ADDRESS TAPE 890643-11A00 890634-11 DESCRIPTION PRINTED 890643-36A00 890634-36 SOURCE MAG TAPE, 9 CHANNELS

890644AA B3 SIGMA 5/6/7 SUBROUTINE DISCPROC 890644-11A00 890634-11 DESCRIPTION PRINTED 890644-26A00 890634-36 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS

890645AA B3 SIGMA 5/6/7 REGISTRAR SYSTEM 890645-11A00 DESCRIPTION PRINTED 890645-36A00 SOURCE MAG TAPE, 9 CHANNELS 890645-74A00 890645-36 DATA CARDS

890646AA B3 SIGMA 5/8/7 ACST1 NON-ACADEMIC STATISTICS LISTINGS 890646-11A00 890645-11 DESCRIPTION PRINTED 890646-36A00 890645-36 SOURCE MAG TAPE, 9 CHANNELS

```
B90647AA B3 SIOMA 5/6/7 ACST2 FINAL GRADE REPORTS

890647-11A00 890645-11 DESCRIPTION PRINTED

890647-36A00 890645-36 SOURCE MAG TAPE, 9 CHANNELS

890647-74A00 890645-74 DATA CARDS
```

890648AA B3 SIGMA 5/6/7 ACST3 CLASS ROSTERS 890648-11A00 890645-11 DESCRIPTION PRINTED 890648-35A00 890645-36 SOURCE MAG TAPE, 9 CHANNELS 890648-74A00 890645-74 DATA CARDS

890649AA B3 SIGMA 5/6/7 ACST4 HEAT TRANSFER STUDENT MASTER 890649-11A00 890645-11 DESCRIPTION PRINTED 890649-36A00 890645-36 SOURCE MAG TAPE, 9 CHANNELS 890649-74A00 890645-74 DATA CARDS

890650AA B3 S10MA 5/6/7 ACST5 CLASS SCHEDULES 890650-11A00 890645-11 DESCRIPTION PRINTED 890650-36A00 890645-36 SOURCE MAG TAPE, 9 CHANNELS 890650-74A00 890645-74 DATA CARDS

890651AA B3 SIGMA 5/6/7 ACST7 PERMANENT RECORDS 890651-11A00 890645-11 DESCRIPTION PRINTED 890651-36A00 890645-36 SOURCE MAG TAPE, 9 CHANNELS 890651-74A00 890645-74 DATA CARDS

890652AA B3 SIGMA 5/6/7 ACSTID GRADE POINT AVERAGE LISTINGS 890652-11A00 890645-11 DESCRIPTION PRINTED 890652-36A00 890645-36 SOURCE MAG TAPE, 9 CHANNELS 890652-74A00 890645-74 DATA CARDS

890653AA 83 SIGMA 5/6/7 ACST12 GEOGRAPHICAL DISTRIBUTION SUMM. 890653-11A00 890645-11 DESCRIPTION PRINTED 890653-36A00 890645-36 SOURCE MAG TAPE, 9 CHANNELS

890654AA B3 SIGMA 5/8/7 ACST32 COURSE CONFLICTS 890654-11A00 890645-11 DESCRIPTION PRINTED 890654-36A00 890645-36 SOURCE MAG TAPE, 9 CHANNELS 890654-74A00 890645-74 DATA CARDS

890655AA B3 SIGMA 5/8/7 ACST33 LANGUAGE LAB FILE MAINTENANCE 890655-11A00 890645-11 DESCRIPTION PRINTED 890655-36A00 890645-36 SOURCE MAG TAPE, 9 CHANNELS

890656AA 83 SIGMA 5/8/7 ACST34 LANGUAGE LAB HEEKLY REPORT 890656-11A00 890645-11 DESCRIPTION PRINTED 890656-36A00 890645-36 SOURCE MAG TAPE, 9 CHANNELS

890657AC 83 SIGMA 5-9 CHARACTER MANIPULATION ROUTINES--FORTRAN 890657-11800 DESCRIPTION PRINTED 890657-44801 COMPRESSED CARDS

890658AB 83 SIGMA 5-9 SUBROUTINE PUNCH (COL. BINARY)
890658-11800 DESCRIPTION PRINTED
890658-34800 SOURCE CARDS

890659AA B3 SIGMA 5/6/7 UTILITIES,SINGLE CARD 890659-11A00 DESCRIPTION PRINTED 890659-34A00 SOURCE CARDS

B3 SIGMA 5-9 CALS FOR FORTRAN USERS-MONITOR CAL1'S
1800 DESCRIPTION PRINTED
2018/05 CAPPS 890660AB 890660-11800

890660-34800 SOURCE CARDS

890661AB B3 SIGMA 5-9 SUBROUTINE DATETIME 890661-11800 DESCRIPTION PRINTED

890661-34800 SOURCE CARDS

890662AB B3 SIGMA 5-9 PARTIAL HORD MANIPULATION OR TEST 890662-11800 DESCRIPTION PRINTED SOURCE CARDS

SHORT RELOCATING LOADER FOR 920/930 DESCRIPTION PRINTED ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

890663AB B3 920 890663-11A01 890663-82A00

890663-34400 SOURCE CARDS

890664AA B3 920 890664-11A00 SATFIX-SATELLITE ANGLE & RANGE COMPUTE

DESCRIPTION PRINTED
SOURCE CARDS 890664-34A00

/7 LIBUPDAT FORTRAN IV LIBRARY UPDATE DESCRIPTION PRINTED SOURCE CARDS

890665AA B3 SIGMA 5/6/7 890665-11A00 890665-34A00

90666AA B3 SIGMA 5/7 BTM DEMO - GAMES PROGRAMS 890666-11A00 DESCRIPTION PRINTED 890666-36A00 SOURCE MAG TAPE, 9 CHANNELS 890666AA

890667AC B3 SIGMA 5-9 1620 ELECTRONIC CIRCUIT ANALYSIS PROGRAM 890667-11C00 DESCRIPTION PRINTED 890667-36C00 SOURCE MAG TAPE, 9 CHANNELS

B3 900-SERIES 890668AA

S MUSIC - FOR 910/920
DESCRIPTION PRINTED
ABSOLUTE BINARY PAPER TAPE, 7 LEVELS 890668-11A00 890668-82400

890669AB

90669AB B3 900-SERIES 3G0 ELECTRONIC CIRCUIT ANALYSIS (ECAP)
890669-11800 DESCRIPTION PRINTED
890669-35800 SOURCE MAG TAPE, 7 CHANNELS
890669-74800 CONTROL DECK

GMA 2/3 SIGMAS-XDS SIGMA 2/3 ASSEMBLER CDC-6400
DESCRIPTION PRINTED 90670AB B3 SIGMA 2/3 890670-11800 890670AB

890670-34800 890670-64800 SOURCE CARDS UPDATE ON CARDS

83 SIGMA 2/3 R8H/3 GASP II SIMULATION PROGRAM A00 DESCRIPTION PRINTED 89067144

890671-11A00

890671-34A00 SOURCE CARDS

GMA 5/6/7 SIGMA 2 BASIC SYMBOL ASSEMBLER
DESCRIPTION PRINTED
SOURCE MAG TAPE, 9 CHANNELS 90672AB B3 SIGMA 5/6/7 890672-11800 DE 89067248

890672-36800

890673AA 83 SIGMA 5/7 INTERACTIVE SNOBOL4
890673-11A00 DESCRIPTION PRINTED
COMPRESSED MAG TAPE, 9 CHANNELS

PAGE 125 - 01/31/75

/7 RELABL-SOURCE DECK RELABELERAREFORMATTER
DESCRIPTION PRINTED
SOURCE CARDS B3 SIGMA 5/6/7 890674-11A00 890674-34A00

B3 SIGMA 5/6/7 890675AA DUMP DESCRIPTION PRINTED
RELOCATABLE BINARY CARDS
COMPRESSED CARDS 890675-11A00 890675-24A00

90676AA 83 SIGMA 5-9 LINE PLOTTER PLOT SUBROUTINE 890676-11A00 DESCRIPTION PRINTED 890676-11A00 705380-11 DESCRIPTION PRINTED 890676-34A00 SOURCE CARDS

ADMISSIONS SYSTEM FOR SCHOOL ENROLLMENT 890677AA B3 SIGMA 5/6/7 890677-11400 DESCRIPTION PRINTED 890677-36400 SOURCE MAG TAPE, 9 CHANNELS 890677-74400 890677-36 DATA CARDS

0678AA B3 SIGMA 5/6/7 ADMISI-RECEIPT F(890678-11A00 890677-11 DESCRIPTION PRINTED 890678-36A00 890677-36 SOURCE MAG TAPE, 9 CHANNELS ADMISI-RECEIPT FORM 890678AA

90679AA B3 SIGMA 5/8/7 ADMIS2-FILE FOLDE 890679-11A00 890677-11 DESCRIPTION PRINTED 890679-36A00 890677-36 SOURCE MAG TAPE, 9 CHANNELS 890679AA ADMIS2-FILE FOLDER LABELS

90680AA 83 SIGMA 5/8/7 ADMIS3-APPLICANT ENVELOPES 890680-11A00 890677-11 DESCRIPTION PRINTED 890680-36A00 890677-36 SOURCE MAG TAPE, 9 CHANNELS

ADMISS-HIGH SCHOOL COUNSELOR ENVELOPE

ADMISS-LOAD AND UPDATE ADMISSION FILE 0682AA B3 SIGMA 5/8/7 ADMIS6-LOAD AND U 890682-11A00 890677-11 DESCRIPTION PRINTED 890682-36A00 890677-36 SOURCE MAG TAPE, 9 CHANNELS

00683AA B3 SIGMA 5/6/7 ADMISIO-ALUMNI CH 890683-11A00 890677-11 DESCRIPTION PRINTED 890683-36A00 890677-36 SOURCE MAG TAPE, 9 CHANNELS ADMISIO-ALUMNI CHILDREN LIST

00684AA 83 SIGMA 5/6/7 ADMIS11-APPLICANT PROFILE SHEET 890684-11A00 890677-11 DESCRIPTION PRINTED 890684-36A00 890677-36 SOURCE MAG TAPE, 9 CHANNELS

90685AA B3 SIGMA 5/6/7 ADMISI3-WEEKLY DISTRIBUTION 890685-11A00 890677-11 DESCRIPTION PRINTED 890685-36A00 890677-36 SOURCE MAG TAPE, 9 CHANNELS 890685-74A00 890677-74 DATA CARDS

00686AA B3 SIGMA 5/6/7 ADMIS14-HIGH SCH 890686-11A00 890677-11 DESCRIPTION PRINTED 890686-36A00 890677-36 SOURCE MAG TAPE, 9 CHANNELS 890686-74A00 890677-74 DATA CARDS ADMISI4-HIGH SCHOOL LIST 89068644

00687AA B3 SIGMA 5/6/7 ADMIS15-SELECTIVE ENVELOPES/LABELS 890687-11A00 890677-11 DESCRIPTION PRINTED 890687-36A00 890677-38 SOURCE MAG TAPE, 9 CHANNELS

890688A B3 SIGMA 5/8/7 ADMISIG-SELECTIVE LISTINGS 890688-11A00 890677-11 DESCRIPTION PRINTED 890688-36A00 890677-36 SOURCE MAG TAPE, 9 CHANNELS

890689AA B3 SIGMA 5/6/7 ADMISIT-SHORT HEEKLY REPORTS 890689-11A00 890677-11 DESCRIPTION PRINTED 890689-36A00 890677-36 SOURCE MAG TAPE, 9 CHANNELS 890689-74A00 890677-74 DATA CARDS

890690AA B3 SIGMA 5/6/7 ADMISI9-STATISTICS BY STATE 890690-11A00 890677-11 DESCRIPTION PRINTED 890690-36A00 890677-36 SOURCE MAG TAPE, 9 CHANNELS 890690-74A00 890677-74 DATA CARDS

890691AA B3 SIGMA 5/6/7 ADMIS20-PROFILE BY SAT AND RANK 890691-11A00 890677-11 DESCRIPTION PRINTED 890691-36A00 890677-36 SOURCE MAG TAPE, 9 CHANNELS

890692AA B3 SIGMA 5/8/7 ADMIS21-APPLICANT ACTIVITIES TOTALS 890692-11A00 890677-11 DESCRIPTION PRINTED 890692-36A00 890677-36 SOURCE MAG TAPE, 9 CHANNELS 890692-74A00 890677-74 DATA CARDS

890693AA B3 SIGMA 5/8/7 ADMIS22-ACTIVITY INTEREST ADDRESSES 890693-11A00 890677-11 DESCRIPTION PRINTED 890693-36A00 890677-36 SOURCE MAG TAPE, 9 CHANNELS

890694AA 83 SIGMA 5/6/7 ADMIS25-FINANCIAL NEED MATRICES 890694-11A00 890677-11 DESCRIPTION PRINTED 890694-36A00 890677-36 SOURCE MAG TAPE, 9 CHANNELS

890695AA B3 SIGMA 5/6/7 ADMIS26-FAMILY INCOME CHART 890695-11A00 890677-11 DESCRIPTION PRINTED 890695-36A00 890677-36 SOURCE MAG TAPE, 9 CHANNELS

890696A 83 SIGMA 5/6/7 ADMIS27-SELECTIVE COMPRESSED RECORDS 890696-11A00 890677-11 DESCRIPTION PRINTED 890696-36A00 890677-36 SOURCE MAG TAPE, 9 CHANNELS

890697AA 83 SIGMA 2/3 ROUTINES - REAL-TIME EXTENSIONS 890697-11A00 DESCRIPTION PRINTED SOURCE CARDS

890698AC B3 SIGMA 5-9 GENERAL I/O PACKAGE - GETPUT 890698-11000 DESCRIPTION PRINTED SOURCE MAG TAPE, 9 CHANNELS 890698-46000 890698-36 COMPRESSED MAG TAPE, 9 CHANNELS 890698-76000 890698-36 TEST FILES ON TAPE

890699AA 83 SIGMA 5/8/7 GEFORT 890699-11A00 DESCRIPTION PRINTED 890699-44A00 COMPRESSED CARDS

890700AA B3 SIGMA 5/8/7 FREEFORM 890700-11A00 DESCRIPTION PRINTED 890700-44A00 COMPRESSED CARDS

890701AA B3 SIGMA 5/6/7 FORM 890701-11A00 DESCRIPTION PRINTED 890701-34A00 SOURCE CARDS 890702AA B3 SIGMA 5/6/7 DETAB/65 PREPROCESSOR 890702-11A00 DESCRIPTION PRINTED 890702-34A00 SOURCE CARDS 890702-74A00 DATA CARDS

890703AA B3 SIGMA 5/6/7 MOTHER-OPERATOR CONSOLE TAPE HANDLER
890703-11A00 DESCRIPTION PRINTED
890703-46A00 COMPRESSED MAG TAPE, 9 CHANNELS

890704AB B3 SIGMA 3 SIGMA 3 TO 1108 REMOTE JOB ENTRY (RBM)
890704-11A00 DESCRIPTION PRINTED
890704-34A01 SOURCE CARDS

890705AA B3 SIGMA 3 SIGMA 3 TO 1108 REMOTE JOB ENTRY (9CH)
890705-34A00 DESCRIPTION PRINTED
SOURCE CARDS

890706AA B3 SIGMA 5/6/7 SCORE KEEPER FOR CONTINUING TOURNAMENTS 890706-11A00 DESCRIPTION PRINTED 890706-51A00 890706-11 LISTING PRINTED

890707AA B3 SIGMA 5/6/7 BTM PLOTTING PACKAGE NONLABELING
890707-11A00 DESCRIPTION PRINTED
890707-33A00 SOURCE PAPER TAPE, 8 LEVELS
DATA PAPER TAPE, 8 LEVELS

890708AA 83 SIGMA 5/6/7 FORTRAN PRECOMPILER FORT 11-FORT 1VH 890708-11A00 DESCRIPTION PRINTED 890708-34A00 SOURCE CARDS

890709AA B3 SIGMA 5/6/7 TIMER ELAPSED TIME SUBR FOR COBOL 890709-11A00 DESCRIPTION PRINTED 890709-34A00 SOURCE CARDS

890710AB B3 SIGMA 2/3
890710-11A00 DESCRIPTION PRINTED
890710-24A01 RELOCATABLE BINARY CARDS
890710-74A00 890710-24 LOH CORE BOOTSTRAP DECK

890711AA B3 SIGMA 5/6/7 CAL-CONVERSATIONAL ALGEBRAIC LANGUAGE 890711-11A00 DESCRIPTION PRINTED 890711-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS 890711-36A00 890711-26 SOURCE MAG TAPE, 9 CHANNELS

890712A B3 SIGMA 2/3 PRINTER PLOT SUBROUTINE 890712-11A00 DESCRIPTION PRINTED 890712-34A00 SOURCE CARDS

890713AA B3 SIGMA 5/6/7 PRINTER PLOT SUBROUTINE 890713-11A00 DESCRIPTION PRINTED 890713-34A00 SOURCE CARDS

890714-AA B3 SIGMA 5/6/7 BATCH STREAM CARD LISTER 890714-11A00 DESCRIPTION PRINTED 890714-24A00 RELOCATABLE BINARY CARDS 890714-44A00 COMPRESSED CARDS

890715AB B3 SIGMA 5-9 MIX ASSEMBLER/INTERPRETER SYSTEM 890715-11800 DESCRIPTION PRINTED RELOCATABLE BINARY MAG TAPE, 9 CHANNELS LOAD AND TEST DECK

890716AA B3 S1GMA 7 DREY APL
890716-11A00 DESCRIPTION PRINTED
890716-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890716-46A00 890716-26 COMPRESSED MAG TAPE, 9 CHANNELS
890716-76A00 890716-26 SAMPLE SYSGEN AAND LOAD DECKS ON MAG TAPE, 9 CHANNELS (4)

890717AA B3 SIGMA 5-9 COBOL RESTART PROGRAM
890717-11A00 DESCRIPTION PRINTED
890717-34A00 SOURCE CARDS

890718AB B3 SIGMA 5-9 SIGMA PROJECT MANAGEMENT SYSTEM (SPMS)
890718-11A01 DESCRIPTION PRINTED
890718-36A01 SOURCE MAG TAPE, 9 CHANNELS
890718-76A01 890718-36 LOAD AND TEST DECK ON TAPE

890719AA B3 SIGMA 2/3 CONTINUOUS SYSTEM SIMULATOR (CSS/3)
890719-11A00 DESCRIPTION PRINTED
890719-36A00 SOURCE MAG TAPE, 9 CHANNELS
890719-74A00 COMPILE, LOAD AND TEST DECK

890720AA B3 SIGMA 2/3 FCT DUMP ROUTINE (ELABORATED)
890720-11A00 DESCRIPTION PRINTED
890720-34A00 SOURCE CARDS

890721AA B3 SIGMA 5/6/7 C36164 CONVERT 36 BIT WORD TO 64 BIT 890721-11A00 DESCRIPTION PRINTED SOURCE CARDS

890723A B3 SIGMA 2/3 SIGMA PLOTTING LIBRARY 890723-11A00 DESCRIPTION PRINTED 890723-24A00 RELOCATABLE BINARY CARDS 890723-34A00 SOURCE CARDS

890724-A B3 SIGMA 5-9 AUTOMATED MEDICAL HISTORY PROGRAM
890724-36400 DESCRIPTION PRINTED
SOURCE MAG TAPE, 9 CHANNELS

890725-11800 890725-34800 CESCRIPTION PRINTED 890725-74800 CESCRIPTION PRINTED SOURCE CARDS TEST DECK

890726AA B3 SIGMA 2/3 RBM TRACE PROGRAM 890726-11A00 DESCRIPTION PRINTED 890726-34A00 SOURCE CARDS

890727AA B3 SIGMA 5-9 CCOPY-PUNCHED CARD COPY/VERIFY PROGRAM
890727-11A00 DESCRIPTION PRINTED
890727-44A00 COMPRESSED CARDS

890728AA B3 SIGMA 5-9 POSITION TAPE PROGRAM FOR 7T/9T
890728-11A00 DESCRIPTION PRINTED
890728-24A00 RELOCATABLE BINARY CARDS
890728-44A00 COMPRESSED CARDS

890730AA B3 SIGMA 5-9 SORT INTERFACE 890730-11A00 DESCRIPTION PRINTED 890730-34A00 SOURCE CARDS

```
CALCOMP PLOTTER SUBROUTINE PACKAGE
       90732AA B3 SIGMA 5-9 CALCOMP PLOTTER S

890732-11A00 DESCRIPTION PRINTED

890732-35A00 SOURCE MAG TAPE, 9 CHANNELS

890732-51A00 890732-11 LISTING PRINTED
 890732AA
                                                                                            /7 STAND-ALONE RAD EDITOR
DESCRIPTION PRINTED
COMPRESSED CARDS
ABSOLUTE BINARY CARDS
890733AA B3 SIGMA 5/6/7
890733-11A00 DESC
890733-44A00 COMP
890733-84A00 ABSO
                                                                                             /7 SYSTEM DISC DUMP/RESTORE/AUTO BOOT DESCRIPTION PRINTED COMPRESSED CARDS.
ABSOLUTE BINARY CARDS
 890734AA
                                            B3 SIGMA 5/8/7
        890734-11A00
        890734-44400
        890734-84A00
                                                                                            5/7 FACTORIAL FUNCTIONS FAC AND DFAC
DESCRIPTION PRINTED
SOURCE CARDS
TEST DECK
 890735AA
                                         B3 S1GMA 5/8/7
        890735-11A00
890735-34A00
890735-74A00
                                          B3 SIGMA 5-9 ECD ENGLISH CODED DECIMAL
A00 DESCRIPTION PRINTED
COMPRESSED CARDS
 890736AA
       890736-11A00
890736-44A00
                                                                      MA 5-9 XCORE - EXTRA CORE FOR FORTRAN PROGRAMS
DESCRIPTION PRINTED
SOURCE CARDS
890737AA B3 9
890737-11A00
890737-34A00
                                           B3 SIGMA 5-9
        00738AA B3 SIGMA 5-9 CALCOMP PLOTTING PACKAGE
890738-11A00 DESCRIPTION PRINTED
890738-44A00 COMPRESSED CARDS
 890738AA
                                                                                           PLOTTER HANDLER
DESCRIPTION PRINTED
 890739AA
                                              B3 S10MA 5-9
        890739-11A00
890739-44A00
                                                                                                COMPRESSED CARDS
                                                                                              IDEAL FORTRAN
DESCRIPTION PRINTED
SOURCE CARDS
SOURCE MAG TAPE, 9 CHANNELS
 890740AB
                                           B3 SIGMA 2/3
        890740-11A00
890740-34A01
         890740-36A01
                                                                                             BLOCKED RANDOM FILE ROUTINES
DESCRIPTION PRINTED
SOURCE CARDS
SOURCE MAG TAPE, 9 CHANNELS
                                              B3 S1GMA 2/3
         890741-11A00
890741-34A00
         90742AC B3 SIGMA 2/3-530 PHSORT

890742-11800 DESCRIPTION PRINTED

890742-26800 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS

890742-76800 890742-26 SOURCE MAG TAPE, 9 CHANNELS

890742-76800 890742-26 TEST CASE ON TAPE
  890742AC
         00743AB B3 SIGMA 5-9
890743-11A01
890743-35A00
890743-46A00
890743-36C
890743-46A00
890743-36C
890745-36C
890745-36C
890745-36C
890745-36C
890745-36C
890745-36C
890745-36C
89075-36C
8907
  890743AB
```

AUTOMATED MEDICAL HISTORY PROGRAM DESCRIPTION PRINTED SOURCE MAG TAPE, 9 CHANNELS

890744AA B3 890744-11A00 890744-36A00

B3 SIGMA 2/3

890745AA B3 SIGMA 5-9 CRSH - LOAD MODULE CRUSHER 890745-11A00 DESCRIPTION PRINTED 890745-34A00 SOURCE CARDS

890746AA B3 SIGMA 5-9 COBOL TELETYPE INTERFACE SUBROUTINES
890746-11A00 DESCRIPTION PRINTED
890746-34A00 SOURCE CARDS

890747AA B3 SIGMA 5-9
890747-11A00
B90747-26A00
B90747-36A00
B90747-36

890748A B3 SIGMA 2/3-530 APT3 (LEVEL 3) 890748-11400 DESCRIPTION PRINTED 890748-36400 SOURCE MAG TAPE, 9 CHANNELS 890748-76400 890748-36 LOAD TEST FILE

890750-11A00 ESCRIPTION PRINTED RELOCATABLE BINARY MAG TAPE, 9 CHANNELS

890751-4 83 SIGMA 5-9 XREF 890751-11A00 DESCRIPTION PRINTED 890751-24A00 RELOCATABLE BINARY CARDS 890751-44A00 COMPRESSED CARDS

890752AA B3 SIGMA 5-9 MAP PROCESSOR HITH SHELL SORT
890752-11A00 DESCRIPTION PRINTED
890752-24A00 RELOCATABLE BINARY CARDS
890752-44A00 COMPRESSED CARDS

890753AB 83 SIGMA 6-9 APAM LIERARIAN 890753-11800 DESCRIPTION PRINTED 890753-36800 SOURCE MAG TAPE, 9 CHANNELS

890754AA B3 SIGMA 5-9 PAPLIST 890754-11A00 DESCRIPTION PRINTED 890754-34A00 SOURCE CARDS 890754-74A00 890754-34 TEST DECK

890756AA B3 SIGMA 5-9 RBPRINT 890756-11A00 DESCRIPTION PRINTED 890756-34A00 SOURCE CARDS

890757AA B3 SIGMA 5-9 KEYED/RANDOM FILES FOR FORTRAN IV 890757-11A00 DESCRIPTION PRINTED 890757-44A00 COMPRESSED CARDS 890757-74A00 TEST RUN DECK

890758AB B3 SIGMA 5-9 EXECUTION ANALYZER PROGRAM (EAP)
890758-11800 DESCRIPTION PRINTED
690758-44800 COMPRESSED CARDS
890758-74800 TEST DECK

890759AA B3 SIGMA 5-9 FORTRAN RANDOM DISC 890759-11A00 DESCRIPTION PRINTED 890759-34A00 SOURCE CARDS

990763AA B3 SIGMA 6/7/9 FLOPLOT - A UTS FLOHCHARTING PROGRAM
890763-11A00 DESCRIPTION PRINTED
890763-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890763-46A00 890763-26 COMPRESSED MAG TAPE, 9 CHANNELS
890763-76A00 890763-26 TEST DECK ON MAG TAPE

890764AB B3 SIGMA 5-9 HASP REMOTE JOB ENTRY 890764-11A00 DESCRIPTION PRINTED 890764-44A01 COMPRESSED CARDS 890764-64A01 890764-44 UPDATE ON CARDS

890766AA B3 SIGMA 5-9 THREE DIMENSION TRANSIENT HEAT TRANSFER 890766-11A00 DESCRIPTION PRINTED 890766-34A00 SOURCE CARDS

890767AA B3 SIGMA 2/3 DISK PACK BOOTSTRAP SIMULATOR
890767-11A00 DESCRIPTION PRINTED
890767-34A00 SOURCE CARDS
890767-84A00 ABSOLUTE BINARY CARDS

890768-A B3 SIGMA 6-9 DELETE STANDARD
890768-11A00 DESCRIPTION PRINTED
890768-36A00 890768-36 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890768-86A00 890768-36 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS

890769AA B3 SIGMA 6-9 UNITNAME 890769-11A00 DESCRIPTION PRINTED 890769-34A00 SOURCE CARDS

890770-11A00 83 SIGMA 8-9 XOSDEBE 890770-134A00 DESCRIPTION PRINTED 890770-34A00 SOURCE CARDS 890770-74A00 CATALOGUE PROCEDURES

890771AA B3 SIGMA 6-9 WEBSORT
890771-11A00 DESCRIPTION PRINTED
890771-34A00 SOURCE CARDS

890772AA B3 910 910 TRACE MODIFICATION 890772-11A00 DESCRIPTION PRINTED 890772-24A00 RELOCATABLE BINARY CARDS 890772-44A00 COMPRESSED CARDS

890773AA B3 920 920 TRACE MODIFICATION 890773-11A00 DESCRIPTION PRINTED 890773-24A00 RELOCATABLE BINARY CARDS 890773-44A00 COMPRESSED CARDS

890774A 83 925 925 TRACE MODIFICATION 890774-11A00 DESCRIPTION PRINTED 890774-24A00 RELOCATABLE BINARY CARDS 890774-44A00 COMPRESSED CARDS

890775AA 83 930 930 TRACE MODIFICATION 890775-11A00 DESCRIPTION PRINTED 890775-24A00 RELOCATABLE BINARY CARDS 890775-44A00 COMPRESSED CARDS

FORTRAN FLONCHARTER

B3 9-SERIES FORTHAN F IIAOO DESCRIPTION PRINTED FLACO SOURCE CARDS 890776-11A00 890776-34A00

890777AB B3 SIGMA 5-9

EXPAND PROCESSOR
PTION PRINTED
SSED CARDS

890777-11800 890777-44800

890778AA

INTERACTIVE DMS DEBUG PACKAGE

90778AA B3 SIGMA 5-9 INTERACTIVE DMS DEBUG PACE 890778-11A00 DESCRIPTION PRINTED 890778-36A00 SOURCE MAG TAPE, 9 CHANNELS 890778-86A00 890778-36 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS

890779AA

90779AA B3 SIGMA 5-9 QUERY SCHEMA PROCESSOR 890779-11A00 DESCRIPTION PRINTED 890779-36A00 890778-36 SOURCE MAG TAPE, 9 CHANNELS 890779-86A00 890778-36 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS

890783-11400 B90783-14400 COMPRESSED CARDS

890785AA B3 SIGMA 5-9 FUR - FILE UPDATE ROUTINE 890785-11A00 DESCRIPTION PRINTED 890785-44A00 COMPRESSED CARDS

90786AB B3 SIGMA 6-9 TOMAS-TERMINAL ORIENTED MERGE & SORT 890786-11800 DESCRIPTION PRINTED 890786-44800 COMPRESSED CARDS

890787AB B3 SIGMA 6-9
890787-11800 DESCRIPTION PRINTED
890787-36800 890787-36
890787-36800 SOURCE MAG TAPE, 9 CHANNELS

890788AA B3 SIGMA 5-9 CALENDAR 890788-11A00 DESCRIPTION PRINTED 890788-34A00 SOURCE CARDS

890791-11A00

890791-46A00

B3 SIGMA 7/8/9 CASPRE BPM
1A00 DESCRIPTION PRINTED
16A00 COMPRESSED MAG TAPE, 9 CHANNELS

90793AA B3 SIGMA 5-9 RBM SORT 890793-11A00 DESCRIPTION PRINTED

890793-44400

COMPRESSED CARDS

890794-8 83 SIGMA 5-9 RBM COPY PROCESSOR 890794-11800 DESCRIPTION PRINTED COMPRESSED CARDS

890795AA B3 890795-11A00 890795-44A00

B3 SIGMA 5-9 XREF+XSYMBOL 1A00 DESCRIPTION PRINTED COMPRESSED CARDS

90796AA B3 SIGMA 5-9 TAPE FILE RETRIEVAL PROGRAM 890796-11AD0 DESCRIPTION PRINTED 890796-44AD0 COMPRESSED CARDS

```
B3 SIGMA 5-9 PAGE BURG
A00 DESCRIPTION PRINTED
A00 COMPRESSED CARDS
                                                               PAGE BURSTER
    890797-11400
    890797-44A00
                                                               XPL (GORDO) - XPL COMPILER
                     B3 SIGMA 7
    890799-11A00 DESCRIPTION PRINTED
890799-36A00 SOURCE MAG TAPE, 9 CHANNELS
890799-86A00 890799-36 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
890801AB B3 SIGMA 5-9 XPL

890801-11A00 DESCRIPTION PRINTED

890801-26A01 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS

890801-36A01 890801-26 SOURCE MAG TAPE, 9 CHANNELS
   890802AA
890804AD B3 SIGMA 6-9 GRAPHER
890804-11E00 DESCRIPTION PRINTED
890804-26E00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890804-76E00 890804-26 SOURCE MAG TAPE, 9 CHANNELS
890804-76E00 890804-26 TEST AND SAMPLE FILES ON TAPE
   89080844
   890810-A 83 SIGMA 5-9 FAST FPURGE RESTORE - 8PM
890810-11A00 DESCRIPTION PRINTED RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890810-36A00 890810-26 SOURCE MAG TAPE, 9 CHANNELS
890810-46A00 890810-26 COMPRESSED MAG TAPE, 9 CHANNELS
890810-76A00 890810-26 TEST DECK
890812-11400
890812-11400
890812-266400
890812-466400
890812-666400
890812-666400
890812-666400
890812-666400
890812-666400
890812-666400
890812-666400
890812-666400
890812-666400
890812-666400
890812-666400
890812-666400
                    B3 SIGMA 8-9 XEROX/COAST CAL/APL
A00 DESCRIPTION PRINTED
SOURCE MAG TAPE, 9 CHANNELS
890813AA
   890813-11A00
   890813-36A00
                                 1A 2/3 LEAST-SQUARES W/ ORTHOGONAL POLYNOMIALS
DESCRIPTION PRINTED
890814A 83 SIGMA 2/3
890814-11A00
890814-34A00
890814-74A00
                                            SOURCE CARDS
TEST DATA DECK
```

DESCRIPTION PRINTED COMPRESSED CARDS

PRINT FORMS PROCESSOR

890815AB

890815-11A00 890815-44A00

B3 SIGMA 6-9

890816AA B3 SIGMA 6-9 DECLARE TEMPORARY FILES
890816-11A00 DESCRIPTION PRINTED
890816-34A00 SOURCE CARDS

890817-A B3 SIGMA 6-9 FILE DUMP
890817-11A00 DESCRIPTION PRINTED
890817-36A00 SOURCE MAG TAPE, 9 CHANNELS

890818AA B3 SIGMA 8-9 CATALOG PROCEDURES
890818-11A00 DESCRIPTION PRINTED
890818-36A00 SOURCE MAG TAPE, 9 CHANNELS

890820AA B3 SIGMA 6-9 UTS FORM DATA ENTRY PACKAGE - FORM PAK 890820-11A00 DESCRIPTION PRINTED 890820-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS 890820-36A00 890820-26 SOURCE MAG TAPE, 9 CHANNELS 890820-76A00 890820-26 LOAD DECK ON TAPE

890821AB B3 SIGMA 2/3 TIME-SHARING PROCESSOR 890821-11A00 DESCRIPTION PRINTED 890821-36A01 SOURCE MAG TAPE, 9 CHANNELS

890823-11400 890823-26400 890823-26 COMPRESSED MAG TAPE, 9 CHANNELS 890823-76400 890823-26 TEST PROGRAM

890824AA B3 SIGMA 2/3 AUTODUMP 890824-11A00 DESCRIPTION PRINTED 890824-34A00 SOURCE CARDS

890826AB B3 SIGMA 5-9 ROM TAPE FILE UPDATE PROGRAM - ROMUP 890826-11800 DESCRIPTION PRINTED 890826-36800 SOURCE MAG TAPE, 9 CHANNELS

890827AA B3 SIGMA 2/3 CONTOUR MAP PLOTTING SYSTEM
890827-11A00 DESCRIPTION PRINTED
890827-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
LOAD AND TEST DECK

890828AA 83 SIGMA 5-9 SPLURGE FOR 8PM 890828-11A00 DESCRIPTION PRINTED 890828-44A00 COMPRESSED CARDS

890829AA 83 SIGMA 6-9 SPLURGE FOR UTS
890829-11A00 DESCRIPTION PRINTED
COMPRESSED CARDS

```
890833AB 83 SIGMA 5-9 PAPER TAPE READ (
890833-11800 DESCRIPTION PRINTED
890833-36800 SOURCE MAG TAPE, 9 CHANNELS
                                                                PAPER TAPE READ PROGRAM - TRANSLT
   90834AA B3 SIGMA 6-9 INTERACTIVE CRITICAL PATH
890834-11A00 B90834-36 PESCRIPTION PRINTED
890834-26A00 B90834-36A00 SOURCE MAG TAPE, 9 CHANNELS
890834-76A00 B90834-36 TEST DECK ON MAG TAPE
890834AA
   90835AA B3 SIGMA 6-9
890835-11A00
890835-26A00
890835-26A00
890835-36A00
890835-36A00
890835-36A00
890835-26
890835-76A00
890835-26
890835-76A00
890835-26
890835-26
890835-26
89083544
   90836AA B3 SIGMA 6-9
890836-11A00 DESCRIPTION PRINTED
890835-26A00 890836-26 SOURCE MAG TAPE, 9 CHANNELS
890836-76A00 890836-26 TEST DECK ON MAG TAPE
890836AA
                  B3 SIGMA 5-9 DISCRETE SIMULATI
1A00 DESCRIPTION PRINTED
16A01 SOURCE MAG TAPE, 9 CHANNELS
890837AA
                                                               DISCRETE SIMULATION PACKAGE - SIMPAC
   890837-11A00
890837-36A01
  90838AA 83 SIGMA 6-9 INTERACTIVE CONTINUOUS SIMULATION

890838-36A00 DESCRIPTION PRINTED

890838-76A00 890838-36 LOAD DECK

890838-86A00 890838-36 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
AARFRORR
   90839AA B3 SIGMA 6-9 INTERACTIVE ANALYSIS OF VARIANCE
890839-11A00 DESCRIPTION PRINTED
SOURCE MAG TAPE, 9 CHANNELS
890839-86A00 890839-36 LOAD DECK ON TAPE
890839-86A00 890839-36 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
   90840AA B3 SIGMA 6-9
890840-11A00 DESCRIPTION PRINTED
890840-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890840-76A00 890840-26 LOAD DECK ON TAPE
890840AA
   890841AA
                   B3 9-SERIES SYSGEN 2 - B00 MONARCH
DESCRIPTION PRINTED
BINARY SYSGEN DECK
890842AA
   890842-11A00
    890842-74A00
   90843AB B3 SIGMA 5-9
890843-11A01 DESCRIPTION PRINTED
890843-26A01 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890843-36A01 890843-26 COMPRESSED MAG TAPE, 9 CHANNELS
890843AR
```

890846AA B3 SIGMA 5-9 ALTRAN RUN-TIME ROUTINES 690846-11A00 DESCRIPTION PRINTED 690846-46A00 COMPRESSED MAG TAPE, 9 CHANNELS

890850AA 83 SIGMA 5-9 UCLA BIOMEDICAL STATISTICAL PACKAGE-BMD
890850-11A00 DESCRIPTION PRINTED
890850-36A00 SOURCE MAG TAPE, 9 CHANNELS
890850-76A00 890850-36 LOAD AND TEST FILES ON TAPE

890858AA B3 SIGMA 6-9

890858-11A00

890858-26A00

890858-36A00

890858-76A00

890858-76A00

890858-26

890858-86A00

890858-26

890858-26

ABSOLUTE BINARY MAG TAPE, 9 CHANNELS

890858-86A00

890858-26

BSOLUTE BINARY MAG TAPE, 9 CHANNELS

890865-11400 DESCRIPTION PRINTED
890865-36400 SOURCE MAG TAPE, 9 CHANNELS
890865-86400 890865-36 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS

890866A B3 SIGMA 6/7/9 INTERACTIVE MULTIPLE REGRESSION ANALYSIS
830866-11A00 DESCRIPTION PRINTED
830866-36A00 SOURCE MAG TAPE, 9 CHANNELS
890866-86A00 890866-36 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS

890867AA B3 SIGMA 6/7/9 INTERACTIVE STEPHISE REGRESSION PROGRAM
890867-11A00 DESCRIPTION PRINTED
890867-36A00 SOURCE MAG TAPE, 9 CHANNELS
890867-86A00 890867-36 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS

890868AA B3 SIGMA 6/7/9 INTERACTIVE TRANSGENERATION
890868-11A00 DESCRIPTION PRINTED
890868-36A00 SOURCE MAG TAPE, 9 CHANNELS
890868-86A00 890868-36 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS

890869AA B3 SIGMA 6/7/9 MOMENTS OF INERTIA & RADIUS OF GYRATION 890869-11A00 DESCRIPTION PRINTED 890869-36A00 SOURCE MAG TAPE, 9 CHANNELS 890869-86A00 890869-36 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS

890870AA B3 SIGMA 5-9 CLEBSCH-GORDAN SUBROUTINE 890870-11A00 DESCRIPTION PRINTED 890870-34A00 SOURCE CARDS

890871AA 83 SIGMA 6/7/9 GRAPHICS SUBROUTINES 890871-11A00 DESCRIPTION PRINTED 890871-36A00 SOURCE MAG TAPE, 9 CHANNELS

890872AA B3 SIGMA 6/7/9 GRAPHIC VECTOR FILE 890872-11A00 DESCRIPTION PRINTED 890872-36A00 SOURCE MAG TAPE, 9 CHANNELS

890873AA B3 SIGMA 5-9 SIM519 890873-11A00 DESCRIPTION PRINTED 890873-34A00 SOURCE CARDS

890876AB 83 SIGMA 5
890876-11800 DESCRIPTION PRINTED
890876-26800 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890876-46800 890876-26 COMPRESSED MAG TAPE, 9 CHANNELS

```
890877AA 83 SIGMA 5-9
890877-11A00
890877-26A00
890877-26A00
890877-36A00
890877-6A00
                   B3 SIGMA 5-9 TRISTIFIUL
A00 DESCRIPTION PRINTED
A00 SOURCE CARDS
A00 DATA DEC
                                                              TRISTIMULUS TO MUNSELL COLOR TRANSLATOR
890878AA
   890878-11A00
   890878-34A00
890878-74A00
                  B3 SIGMA 2/3-530 BUFFERIN/BUFFEROUT
1A00 DESCRIPTION PRINTED
34A00 SOURCE CARDS
890879AA
   890879-11A00
   890879-34A00
   90881AA B3 SIGMA 5-9

890881-11A00 DEMAND PAGED FORTRAN ARRAYS

890881-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS

890881-36A00 890881-26 SOURCE MAG TAPE, 9 CHANNELS

890881-76A00 890881-26 TEST CASE ON TAPE
                                                              DEMAND PAGED FORTRAN ARRAYS
890881AA
   SAM9300-SELECTIVE AUTO MONITOR PROGRAM
890882-11A00 DESCRIPTION PRINTED
890882-44A01 COMPRESSED CARDS
890882-74A01 890882-44 LOAD DECK
                                            CARD READER/PUNCH DIAGNOSTIC PROGRAM DESCRIPTION PRINTED
   890884-11A00
   890884-34A00 SOURCE CARDS
890884-44A00 890884-34 COMPRESSED CARDS
   90885AA 83 9300 MAGNETIC TAPE TEST PROGRAM
890885-11A00 DESCRIPTION PRINTED
890885AA
   890885-34A00 SOURCE CARDS
890885-44A00 890885-34 COMPRESSED CARDS
   890886-11A00 DESCRIPTION PRINTED
890886-34A00 SOURCE CARDS
890886-44A00 890886-34 COMPRESSED CARDS
890886-74A00 890886-34 TEST PROGRAM
 890886AA
    00890AB B3 SIGMA 5-9 UCLA BIOMEDICAL PROG.-REGULAR & X SERIES
890890-11800 DESCRIPTION PRINTED
890890-36800 SOURCE MAG TAPE, 9 CHANNELS
890890-46800 890890-36 COMPRESSED MAG TAPE, 9 CHANNELS
 890890AB
   30894AA B3 SIGMA 5-9
890894-11A00 DESCRIPTION PRINTED
890894-26A00 B90894-26 SOURCE MAG TAPE, 9 CHANNELS
890894-46A00 B90894-26 COMPRESSED MAG TAPE, 9 CHANNELS
B90894-79A00 DATA AND TEST PROGRAM ON CARDS
                                                                 AUTOMATED PROCUREMENT STATUS (APS) SYS.
 890895AA B3
890895-02400
                      B3 SIGMA 6/7/9
                                             UNPUBLISHED TECHNICAL DOCUMENTATION DESCRIPTION PRINTED SOURCE MAG TAPE, 9 CHANNELS
     890895-11A00
890895-36A00
     890895-74A00
                                             RUN DECK
     9-SERIES MAG TAPE DIAGNOSTICS
```

890897AA B3 SIGMA 3 DECIPHER SUBROUTINE 890897-11A00 DESCRIPTION PRINTED 890897-34A00 SOURCE CARDS

890903AA B3 SIGMA 3 X0P-OUT 890903-11A00 DESCRIPTION PRINTED 890903-34A00 SOURCE CARDS

890910AA B3 SIGMA 6-9/550/560 XEROX TO CONTROL DATA RJE (XCDRJE)
890910-11A00 DESCRIPTION PRINTED
890910-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890910-36A00 890910-26 SOURCE MAG TAPE, 9 CHANNELS
890910-86A00 890910-26 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS

890911AA B3 SIGMA 3-530 STATISTICAL SYSTEM - STATSYS 890911-11A00 DESCRIPTION PRINTED 890911-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS 890911-36A00 890911-26 SOURCE MAG TAPE, 9 CHANNELS 890911-76A00 890911-26 LOAD TEST FILE ON MAG TAPE

890916AA B3 SIGMA 6/7/9 FRAN 890916-11A00 DESCRIPTION PRINTED 890916-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS 890916-36A00 890916-26 SOURCE MAG TAPE, 9 CHANNELS

890923AA 83 SIGMA 5-9 XPL/S COMPILER
890923-11A00 PESCRIPTION PRINTED
890923-26A00 PELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890923-46A00 890923-26 COMPRESSED MAG TAPE, 9 CHANNELS

890926AA B3 XEROX 530 DEMAND PAGER 890926-11A00 DESCRIPTION PRINTED 890926-34A00 SOURCE CARDS 890926-74A00 DATA AND TEST DECK

890927AA B3 SIGMA 3-530 LSDMF - FORTRAN CALLABLE SORT
890927-11A00 DESCRIPTION PRINTED
890927-34A00 SOURCE CARDS
890927-74A00 890927-34 TEST DECK

890928AA B3 SIGMA 6/7/9 BATQXCH - BATCH QUEUE EYCHANGER 890928-11A00 DESCRIPTION PRINTED 890928-44A00 COMPRESSED CARDS

890929AB B3 SIGMA 6/7/9 APL LEARNING AID - CLASS, APL COURSE 890929-11A00 DESCRIPTION PRINTED 890929-26A01 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS

890930AA B3 SIGMA 6/7/9 GRAN
890930-11A00 DESCRIPTION PRINTED
890930-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890930-36A00 890930-26 SOURCE MAG TAPE, 9 CHANNELS

890932AA B3 XEROX SCU DOUBLE PRECISION DIVIDE 890932-11A00 DESCRIPTION PRINTED 890932-34A00 SOURCE CARDS

890933AA B3 SIGMA 5-9 MSP 890933-11A00 DESCRIPTION PRINTED 890933-36A00 SOURCE MAG TAPE, 9 CHANNELS 890933-46A00 890933-36 COMPRESSED MAG TAPE, 9 CHANNELS

890934AA 83 SIGMA 5-9 XPLSREF 890934-11A00 DESCRIPTION PRINTED 890934-34A00 SOURCE CARDS

890935AA B3 SIGMA 5-9 XPLSFMT 890935-11A00 DESCRIPTION PRINTED 890935-34A00 SOURCE CARDS

890936AA 83 SIGMA 5-9 MERGE 890936-11A00 DESCRIPTION PRINTED 890936-34A00 SOURCE CARDS

890938AA B3 SIGMA 7/8/9 FLASH - TAPE TO PRINT UTILITY
890938-11A00 DESCRIPTION PRINTED
890938-46A00 COMPRESSED MAG TAPE, 9 CHANNELS
890938-76A00 890938-46 TEST ON MAG TAPE

890940AA B3 SIGMA 5-9 SOLE: SIGMA OBJECT LANGUAGE EATER
890940-11A00 DESCRIPTION PRINTED
690940-44A00 COMPRESSED CARDS

890941AA B3 SIGMA 8/7/9 SFTRAN
890941-11A00 DESCRIPTION PRINTED
890941-44A00 COMPRESSED CARDS

890942AA B3 SIGMA 5-9 SYMCON (BPM/BTM)
890942-11A00 DESCRIPTION PRINTED
COMPRESSED CAROS

890944AA 83 SIGMA 6/7/9 TIMESHARING SIMULATOR
890944-11A00 DESCRIPTION PRINTED
890944-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890944-76A00 890944-26 COMPRESSED MAG TAPE, 9 CHANNELS
890944-76A00 890944-26 DATA TEST TAPE

890953AA B3 SIGMA 6-9 1200 LISTER 890953-11A00 DESCRIPTION PRINTED 890953-44A00 COMPRESSED CARDS

890954-A 83 SIGMA 6-9 AUTO SCHEDULE 890954-11A00 DESCRIPTION PRINTED 690954-76A00 890954-46 TEST ON MAG TAPE, 9 CHANNELS

890955AA B3 SIGMA 5-9 BLOCKER-FILE BLOCKING/UNBLOCKING ROUTINE 890955-11A00 DESCRIPTION PRINTED COMPRESSED CARDS

890956AA B3 SIOMA 5-9
890956-11A00 DESCRIPTION PRINTED
890956-36A00 SOURCE MAG TAPE, 9 CHANNELS
890956-76A00 890956-36 TEST DATA TAPE

890958AA 83 SIGMA 5-9 SYSTEM RBM 890958-11A00 DESCRIPTION PRINTED 890958-44A00 COMPRESSED CARDS

890959AA B3 SIGMA 5-9 SYSTEM XPL/S 890959-11A00 DESCRIPTION PRINTED 890959-34A00 SOURCE CARDS

890961AA 83 SIGMA 3 XGP - VAR
890961-11A00 DESCRIPTION PRINTED
890961-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS

890962AA 83 SIGMA 5-9 ROMLIB 890962-11A00 DESCRIPTION PRINTED 890962-36A00 SOURCE MAG TAPE, 9 CHANNELS

890963-A 83 9-SERIES MAGTP 890963-11A00 DESCRIPTION PRINTED 890963-34A00 SOURCE CARDS

890964AA 83 9-SERIES HTAPE 890964-11A00 DESCRIPTION PRINTED 890964-34A00 SOURCE CARDS

890965AA 83 9-SERIES SYMBOL 890965-11A00 DESCRIPTION PRINTED 890965-34A00 SOURCE CARDS

890966AA B3 SIGMA 5-9/550/560 GRADPACK 890966-11A00 DESCRIPTION PRINTED 890966-34A00 SOURCE CARDS

890967AA B3 SIGMA 5-9 BLOCKED AND OVERLAPPED I/O PACKAGE 890967-11A00 DESCRIPTION PRINTED 890967-36A00 SOURCE MAG TAPE, 9 CHANNELS 890967-76A00 890967-36 TEST ON MAG TAPE

891000AA B3 SIGMA 5-9

891000-11A00

891000-26A00

891000-36A00

891000-36A00

891000-76A00

891000-76A00

891000-26

891000-76A00

891000-26

891000-76A00



SIGMA 2/3-530 REAL TIME BATCH MONITOR

SYSTEM CATALOG NUMBER.

705368

DESCRIPTION

RBM provides an efficient operating system for multi-task real time applications requiring minimal core memory residency. Dynamic overlay of core memory on a priority basis from a RAD file is available for the foreground and the background. This feature is used extensively by the monitor, greatly reducing core residency requirements. Multi-task foreground operations can be performed concurrently with a batch background process. The RBM system includes the following processors: Overlay Loader, Extended SYMBOL Assembler**, RAD Editor, Basic FORTRAN IV Compiler, **Analyze Exercise**, Utility Package, Extended and Single Precision Fortran Libraries, **ELLA (Error Log List)** and Character Oriented Communication Handler (RCOC)*.

- * Optional Foreground Programs
- ** ROM's only, order source through individual catalog numbers

ELEMENTS NECESSARY FOR NORMAL REQUIREMENTS

| 705368 RBM Operating System Manuals Description 903054 Xerox Availability Features 903036 RBM System Management Reference Manual 901785 RBM Users Guide 901037 Real-Time Batch Monitor Reference Manual 901555 Real-Time Batch Monitor Operations Manual 901052 Extended Symbol Reference Manual 901052 Basic FORTRAN/FORTRAN IV Reference Manual 901525 Basic FORTRAN IV Operations Manual | Catalog No. | Description |
|---|--|---|
| 903054 Xerox Availability Features 903036 RBM System Management Reference Manual 901785 RBM Users Guide 901037 Real-Time Batch Monitor Reference Manual 901555 Real-Time Batch Monitor Operations Manual 901052 Extended Symbol Reference Manual 900967 Basic FORTRAN/FORTRAN IV Reference Manual | 705368 | RBM Operating System |
| 903036 RBM System Management Reference Manual 901785 RBM Users Guide 901037 Real-Time Batch Monitor Reference Manual 901555 Real-Time Batch Monitor Operations Manual 901052 Extended Symbol Reference Manual 900967 Basic FORTRAN/FORTRAN IV Reference Manual | <u>Manuals</u> | Description |
| | 903036 901785 901037 901555 901052 900967 | RBM System Management Reference Manual RBM Users Guide Real-Time Batch Monitor Reference Manual Real-Time Batch Monitor Operations Manual Extended Symbol Reference Manual Basic FORTRAN/FORTRAN IV Reference Manual |

PROCESSORS AVAILABLE

.

| Catalog No. | Description |
|-------------|--|
| 705372 | RBM Extended Symbol |
| 706277 | Sigma 2/3-530 ANS Fortran IV (MODE 2) |
| 706257 | 530 Disk Sort |
| 706401 | 530 RPG Report Program Generator |
| 706463 | Sigma 2/3-530 ANS Fortran IV (MODE 1) |
| Manuals | Description |
| 901806 | Sigma 2/3 ANS Fortran IV Reference Manual |
| 901787 | Xerox 530 Disk Sort Reference Manual |
| 901841 | Xerox Report Program Generator (RPG II) Reference Manual |
| 901807 | Sigma 2/3 ANS Fortran IV OPS Manual |
| | |

NOTE: ANS Fortran IV is available in two modes. Mode 1 is to be used for computers with the Floating Point Arithmetic option. Mode 2 is to be used for computers without the option.

XEROX 530 AND SIGMA 2/3 BASIC CONTROL MONITOR (BCM)

SYSTEM CATALOG NUMBER

704457

DESCRIPTION

Xerox 530 and Sigma 2/3 BCM provides a convenient, responsive operating environment facilitating handling of real time foreground processes while production tasks proceed in the background. BCM runs on a minimal configuration; the resident portion occupies a minimum of 2K memory. The BCM System includes the following processors: System Loader, Linking Loader, SYMBOL Assembler, Basic FORTRAN Compiler, Utility Package, CONCORDANCE Program, DEBUG Program and FORTRAN Library.

ELEMENTS NECESSARY FOR NORMAL REQUIREMENTS

| Catalog No. | Description |
|--|--|
| 704457 | BCM Operating System |
| Manuals | Description |
| 901064 901506 900967 901061 901051 | Sigma 2/3 BCM Reference Manual Sigma 2/3 BCM Operations Manual Sigma 2/3 Basic Fortran Reference Manual Sigma 2/3 Basic Fortran IV Operations Manual Sigma 2/3 Symbol Reference Manual |

530 DISK SORT

CATALOG NUMBER

706257

DESCRIPTION

Xerox DISK SORT provides the user with a highly efficient and powerful tool for the rearrangement of data files. This sort operates on Xerox 530 or Sigma 3 with a minimum of 16K words of core and having at least one rotating storage device. Sort executes as a background processor under the real-time batch monitor, thus allowing foreground programs to run concurrently.

| Manuals | | | De: | scrip | tion | |
|---------|-------|-----|------|-------|-----------|---------|
| 901787 | Xerox | 530 | Disk | Sort | Reference | Manua 1 |

SIGMA 2 STAND-ALONE

SYSTEM CATALOG NUMBER

704955

DESCRIPTION

This catalog number is a cover number for the stand-alone software package. This software is designed to assist in exercising control over a minimal hardware configuration. The stand-alone software includes an operator communication package, a utility I/O handler (U:IOCS), a relocatable loader, an absolute loader, a symbol assembler, a debug program, a concordance program and a multiply/divide instruction simulation program.

ELEMENTS NECESSARY FOR NORMAL REQUIREMENTS

| Catalog No. | Description |
|------------------|---|
| 704955 | S/A Software (Cover) |
| 704956 | S/A Sysload Package |
| 704450 | S/A Symbol |
| 705294 | S/A Concordance Operations Manual |
| 704511 | Sigma 2 Mult/Div Simulation |
| Manuals | <u>Description</u> |
| 901047 901051 | Xerox Sigma 2 Computer Stand-Alone Systems Operations Manual Xerox Sigma 2 Symbol Reference Manual |

RBM EXTENDED SYMBOL

CATALOG NUMBER

705372

DESCRIPTION

EXTENDED SYMBOL, the extended assembly system for Xerox 530 and Sigma 2/3 computers is both a programming language and a language processor. The EXTENDED SYMBOL processor accepts a source program coded in eith SYMBOL (Basic Assembly Language) or EXTENDED SYMBOL, processes it and outputs a relocatable or absolute object module, diagnostic messages, assembly listings, symbol table summary, and a symbol table cross reference listing.

| Manuals | Description |
|---------|---|
| 901052 | Xerox Extended Symbol/LN, Operations Reference Manual |

ANS FORTRAN IV

CATALOG NUMBER

| 706277 | Sigma | 2/3 | (mode | 2), |
|--------|-------|-----|-------|-----|
| 706463 | Xerox | 530 | (mode | 1)* |

DESCRIPTION

Xerox ANS FORTRAN IV is a superset of ANSI FORTRAN X3.9-1966, and as such, provides features in excess of that defined by the specification. The System consists of a compiler and associated run-time library. ANS FORTRAN IV requires a Xerox 530 or Sigma 2 or 3 with RBM (E00 Version or later for Sigma 2/3, F00 or later for Xerox 530) with at least 8.5K of background. In-line symbolic or object listings require a background of 9.5K words. In order to reassemble the compiler, the minimum background allocation is 18K words.

| Manuals | | | Des | scription |
|---------|-----|---------|-----|-----------------------------|
| 901806 | ANS | FORTRAN | ΙV | Language/Reference Manual |
| 901807 | ANS | FORTRAN | IV | Operations/Reference Manual |
| 901835 | ANS | FORTRAN | IV | Library Technical Manual |

*NOTE: Mode 1 is to be used with computers with the Floating Point Arithmetic Option. Mode 2 is to be used for computers without the option.

530 RPG II REPORT PROGRAM GENERATOR

CATALOG NUMBER

706401

DESCRIPTION:

The Xerox 530 RPG/II compiler is an implementation of the RPG/II language designed to be compatible with the majority of other RPG II processors in general use throughout industry. RPG/II is a highly flexible and convenient language designed to solve commercial data processing problems. Solutions are coded on a series of specification forms. Xerox 530 RPG/II operates under control of the Real-Time Batch Monitor (RBM).

| Manuars | Description |
|---------|--|
| 901841 | Xerox Report Program Generator (RPG II) Reference Manual |

XEROX SATELLITE PROCESSOR

CATALOG NUMBER

706491

DESCRIPTION

The Xerox Satellite Processor is implemented as a resident, semi-resident, or nonresident overlayed foreground program operating under RBM. It provides Xerox 530 or Sigma 3 sites with a capability for high-speed telecommunications with other host remote computer systems.

The Satellite Processor's basic function is to move streams of sequential data from source devices or files to destination devices or files at the request of the operator, providing a convenient means for the Xerox 530 or Sigma 3 user to utilize the full resources of a larger host or to exchange data with another workstation. Remote activities may occur concurrently with local foreground and background processing, subject to device and resource availability. Spooling or remote data via magnetic tape is supported. An unblocked sequential file may replace a magnetic tape for spooling.

The Satellite Processor requires the use of RBM version F01 or later as an operating system. The Processor uses the HASP (Houston Automatic Spooling Priority System) bisynchronous multileaving protocol, and therefore requires that any host or remote terminal accessed use the HASP protocol.

The Processor will support only line speeds between 2000 bits per second (BPS) and 9600 bps. Support for line speeds outside this range must be handled via Field Request.

Manuals

Description

903078

Xerox Satellite Processor Operations Reference Manual

| KEY | TITLE | CAT.NO | CL | KEY | TITLE | CAT.NO CL |
|---------------------------------|--|----------------------------------|-----|----------------|---|---------------------------------------|
| | CS DATA ACQUISTION | 705729 705729 | | | , SECT 3-DATA BASE LOADING | 705667 83 |
| | C. ELECTRONICS DATA STIC8050 EXTERNAL MEMORY | 705729 | | | ,SECT 4-TELEMETRY AND TONES I, SECT 1-MESSAGE PROCESSOR | 704209 83 704028 83 |
| ADS-10 SIU DIA | GNCSTIC | 705885 | B 1 | COMMAND SYS I | I, SECT 2-FSK TAPE INPUT | 705666 B3 |
| | GNCSTIC7915/ ROGMODIFIED 7910/14/22 | 705892 | | | I,SECT 3-TONE/DIGITAL TAPE | 704034 83 |
| | ON REPORT GENERATOR | 705382 705 3 78 | | | I,SECT 4-FSK TEST I,SECT 5-TONES DIGITAL TEST | 704035 B3 704038 B3 |
| | OR SIGDAS- SIGMA DIGITAL | 890710 | B3 | COMMAND SYS I | I,SECT 6-10 CONTROL/UTILITY | 704037 B3 |
| ANALYZERBM | AMERROR LOG LIST/ | 706481 706464 | | | BSET FOR BUS. APPLICATIONS TESTCHARACTER ORIENTED | 890579 83 704014 81 |
| | ILERXEROX 530 | 706500 | | | M BASIC FORTRAN IV | 705375 B1 |
| ANS FORTRAN IV | | 706277 7064 63 | | | ROX 530 ANS COBOL | 706500 B1 |
| | .COMMERCIAL SUBSET FOR BUS. | 890579 | | | CARD EQUIPMENT TEST LINE PRINTER TEST | 706170 B1 706168 B1 |
| APT3 (LEVEL 3) | | 890748 | | COMPREHENSIVE | RAD TEST | 705863 B1 |
| ARITHMETIC OPT | DLERRBM EOI MODIFICATIONS | 705386 890825 | | | SYMBOLIC CONVERRECON S/A SYMBOLIC CONVERTERRECON | 706241 83 706239 83 |
| ASR/KSR) (16-BI | T)XEROX KEYBOARD PRINTER | 705652 | B1 | COMPRESSOR FO | R RBM/BCMSYMBOLIC | 706246 B3 |
| ASSEMBLER CDC- ASSEMBLERBC | 6400SIGMAS-XDS SIGMA 2/3 | 890670 704990 | | | R STAND-ALONESYMBOLIC | 708245 B3 |
| | AND-ALONE SYMBOL | 704450 | | CONCORDANCE | | 705374 B1 705294 B1 |
| | PMENT PROGRAM | 704156 | | | STEM SIMULATOR (CSS/3) | 890719 B3 |
| AUTOCPU DIA | AGNOSTIC - | 705530 704011 | | | LOTTING SYSTEM AGNOSTICDATA SET | 890827 B3 704055 B1 |
| AUTODUMP | | 890824 | B3 | | 01 HANDLERMOC | 705895 B3 |
| | CAL HISTORY PROGRAM DNSTRATION PROGRAMSBCM | 890744 704347 | | | ON S/A COMPRESSED TO SYMBOLIC ECON COMPRESSED TO SYMBOLIC | 706241 B3 |
| | MONITOR (BCM) | 704457 | | | OMETRY LANGCIVIL ENG COGO | 706239 B3 890328 B3 |
| | IV COMPILERRBM | 705375 | | CPU DIAGNOSTI | C - AUTO | 705530 B3 |
| | IV ∟IBRARY (COVER)RBM MAT∺ LIBRARY/RUN-TIME | 704525 704454 | | CPU DIAGNOSTI | C SYSTEM (AUTO) Diagnostic | 704011 B3 704002 B3 |
| BATCH MONITOR | (RBH)XEROX REAL-TIME | 705368 | B1 | | INSTRUCTION DIAGNOSTIC | 720012 B1 |
| BATCH MONITOR | (RBM)XEROX REAL-TIME | 705369 705298 | | | INUOUS SYSTEM SIMULATOR (PROGRAMSIGMA 2/3 | 890719 B3 706244 B1 |
| | DEMONSTRATION PROGRAMS | 704347 | | DATADEF RBM | | 706501 83 |
| BCM COVERNON BCM SYMBOL ASSE | | 705847 | | DAY SUBROUTIN | | 890584 B3 |
| | COMPRESSOR FOR RBM/ | 704990 706246 | | | STIC CONTROL PROGRAM (RBM UTILITIES SUBSYSTEMS AND | 704025 B3 705373 B1 |
| | ONTROL MONITOR (| 704457 | | DEBUG WITH TR. | ACE | 704183 B3 |
| | TO 1108 REMOTE JOB ENTRY (.XEROX DIAG.PROG. LOADER (16 | 890705 720000 | | DEBUGSTAND | | 704455 B1 890523 B3 |
| BIT)XEROX DI | AG. PROG. MAG TAPE LIB. (16 | 720009 | B1 | DECIPHER SUBR | OUTINE | 890897 B3 |
| | TYBOARD PRINTER (ASR/KSR)(16 OFTHARE HARDCORE TEST (16- | 705652 720010 | | DEMAND PAGER. | UT PROGRAMGEOSPACE SPECIAL | 890926 B3 704285 B1 |
| BLOCKED RANDOM | FILE ROUTINES | 890741 | | | RMESSAGE ORIENTED COMM. | 706255 B1 |
| BOOLEAN SUBROUT | TINES ABSOLUTE LOADER GENERATOR | 890902 705264 | | DEVICE SUBCON | TROLLER DIAG7902 EXTENDED | 706172 83 |
| | ATOR DISK PACK | 890767 | | | IB. CONTROLXEROX COIN-X530 AG TAPE LIB. (16-BIT)XEROX | 720023 82 720009 81 |
| | NE FOR ELLA 530 | 706484 | | DIAG. PROG | .MODIFIED 7910/14/22 ANALOG | 705382 B1 |
| BSC PROCEDURAL | RY SYSTEMS EXERCISER HANDLERRBM | 720021 706149 | | | LIBRARYXEROX COIN-X530 EXTENDED DEVICE SUBCONTROLLER | 720022 B2 708172 B3 |
| BUFFERIN/BUFFER | ROUT | 890879 | B3 | DIAG.PROG. LO | ADER (16-BIT MACHINE)XEROX | 720000 B1 |
| BUFFEROUTBUF | DNS COMMERCIAL SUBSET FOR | 890879 890579 | | DIAG.PROG.MAG | .TAPE LIBRARY CONTROL PROG | 705693 B1 705530 B3 |
| C.O.C. HANDLER | (RCOC) | 705719 | 81 | DIAGNOSTIC 9 | SYSTEM EXERCISER | 705716 B3 |
| | LISDMF - FORTRAN TESTCOMPREHENSIVE | 890927 706170 | | | NARY GENERATORSIGMA 2 NTROL PROGRAM (DCP) | 704030 B3 704025 B3 |
| CARD PUNCH EXER | CISERCARD READER/ | 706478 | | | R 8150)MEDIC 8150 (MEMORY | 705894 B3 |
| | RD PUNCH EXERCISER PSTIC PROGRAM | 706478 | | | ADER-SYMBOL+EXTENDED SYMBOL | 705299 B3 |
| | K. EXERCISER FOR | 706202 705365 | | | OGRAM MAGNETIC TAPE LIBRARY OGRAM MONITOR (DPM) | 705694 81 705681 81 |
| CCS-20 DIAGNOST | IC PROGRAM HITH HANDLERS | 705357 | B3 | DIAGNOSTIC PRO | OGRAM MONITOR | 720004 B1 |
| CC33 TEST PROGR | MAS-XDS SIGMA 2/3 ASSEMBLER | 720024 8 9067 0 | | | DGRAM SYSTEM MONITOR DGRAM WITH HANDLERSCCS-20 | 720016 B1 7053 57 B3 |
| CES-34 DIAGNOST | 1C PROGRAM | 706114 | 83 | DIAGNOSTIC PRO | DGRAMCC-32/33 | 706202 B1 |
| | NICATION DEMOSIGMA 3 - INICATION DEMOSIGMA 3 - | 706147 706238 | | | DGRAMCES-34 DGRAMINTERRUPT | 706114 B3 720006 B 1 |
| CHANNEL INTERFA | CE UNIT TEST DIAGNOSTIC | 705297 | B1 | DIAGNOSTIC PRO | GRAMNS LINE PRINTER | 720020 B1 |
| | C TAPE TEST7 C TAPE TEST9 | 705977 705866 | | | OGRAMYEROX DISPLAY STATION OGRAM7910/14/15 SIU | 706110 B1 704235 B1 |
| CHANNEL POTTER | MAGNETIC TAPE TEST9- | 705417 | | | OGRAM7922 SIU | 704213 BI |
| | ITED COMMUNICATION TEST | 704014 | | | OGRAM7923/28/29 SIU | 705388 B1 |
| CHRONOLOGICAL L | IST. MODULE FOR ELLA 530 | 704285 706483 | | DIAGNOSTIC | STEM (AUTO)CPU NDS-10 SIU | 704011 83 705885 81 |
| | O COORDINATE GEOMETRY LANG. | 890328 | B3 | DIAGNOSTIC | CHANNEL INTERFACE UNIT TEST | 705297 B1 |
| CLOCK TESTRE | UND DEMOREAL-TIME | 704139 704342 | | DIAGNOSTICC | CPU INTERRUPT CPU OPTIONAL INSTRUCTION | 704002 83 720012 81 |
| CLOSED LOOP DIA | GN0ST1C7907 | 706468 | B3 | DIAGNOSTIC | DATA SET CONTROLLER | 704055 B1 |
| CLOSED LOOP DIA | SYS I SECT 2-SWITCH LIGHT | 706470 704056 | | | HARDCORE MEMORY HARDWARE MARDCORE | 720001 B1 720011 B1 |
| COBOL COMPILER. | XEROX 530 ANS | 706500 | B 1 | DIAGNOSTICI | INSTRUCTION | 720005 B1 |
| COGO COORDINATE | GEOMETRY LANGCIVIL ENG | 890328 720024 | | DIAGNOSTIC | IOP KEYBOARD DISPLAY | 720007 B1 704012 B3 |
| COIN-X530 DIAG. | PRIOG. LIB. CONTROLXEROX | 720023 | | DIAGNOSTIC | | 720013 BI |
| | PROGRAM LIBRARYXEROX NDLERMESSAGE ORIENTED | 720022 | | DIAGNOSTIC | | 720002 B1 |
| COMMAND SYS I . | SECT 1- UTILITY AND IO | 706255 704038 | | DIAGNOSTICF | PERIPHERAL SHITCHING EQUIP. POTTER 3000/3300 PRINTER | 705266 B1 706462 B3 |
| COMMAND SYS I . | SECT 2-SWITCH LIGHT CNTRL SECT 5-TONES DIGITAL/FSK | 704056 | 83 | DIAGNOSTICT | MS093/XPS97 | 706451 B3 |
| COMMAND SYS 1 . | SECT 6-PROGRAM GENERATOR | 704344 704345 | | | 7580 GRAPHIC Display 7907 Closed Loop | 706262 B1 70646 8 B3 |
| | SECT 7-DATA BASE OVERLAY | 704346 | | | 908 CLOSED LOOP | 706470 B3 |
| | | | | | | |

| PROGRAM AVAILABILITY LIST | | | KHIC INDEX |
|--|------------------------|--|---|
| KEY TITLE | CAT.NO CL | KEY TITLE | CAT.NO CL |
| DIAGNOSTIC7915/ADS-10 SIU DIAGNOSTIC7930/7931/7935 SIU DIGITAL | 705892 B1 704210 B1 | GENERATORBOOT STRAP AND ABSOLUTE LOADER GENERATORCOMMAND SYS 1 SECT 6-PROGRAM | 705264 B1 704345 B3 |
| DIAGNOSTIC8050 EXTERNAL MEMORY ADAPTER DIAGNOSTIC-FAULT LOCATORMEMORY | 704449 B1 705529 B3 | GENERATORSIGMA 2 DIAGNOSTIC BINARY GEOMETRY LANGCIVIL ENGCOGO COORDINATE | 704030 83 890328 83 |
| DIAGNOSTICS FOR SIGMA 3XPS-97 | 706109 B3 | GEOSPACE SPECIAL DEVICE CHECKOUT PROGRAM | 704285 81 72001 5 81 |
| DIAL EQUIPMENT PROGRAMAUTO DIGITAL ANALOG SIMULATORSIGDAS- SIGMA | 704156 B1 890710 B3 | GO (LAG) PROCESSORDPS LOAD AND GRAPH PLOTTER HANDLER (PLOT) | 704 005 83 |
| DIGITAL DIAGNOSTIC7930/7931/7935 SIU | 704210 81 | GRAPH PLOTTER TEST | 704001 9 1 706262 9 1 |
| DIGITAL TAPECOMMAND SYS II, SECT 3-TONE/ DIGITAL TESTCOMMAND SYS II, SECT 5-TONES | 704034 B3 704036 B3 | GRAPHIC DISPLAY DIAGNOSTIC7580 GRAPHICAL DISPLAY MODULE FOR ELLA 530 | 706485 81 |
| DIGITAL/FSKCOMMAND SYS I ,SECT 5-TONES | 704344 83 | HANDLER (EXT PREC FORTRAN)7929 SIU | 706171 93 |
| DISC FILE TEST PROGRAMMASS STORAGE DISC STORAGE TESTREMOVABLE | 704320 B3 705533 B1 | HANDLER (EXT. PREC. FORTRAN)SIU 7915 HANDLER (EXT. PREC. FORTRAN)SIU 7930/31 | 705853 83 705855 83 |
| DISK PACK BOOTSTRAP SIMULATOR | 890767 83 | HANDLER (EXT.PREC.FORTRAN)7910 SIU | 706115 83 70589 8 83 |
| DISK SORTXEROX 530 DISPLAY DIAGNOSTICKEYBOARD | 706257 B1 704012 B3 | HANDLER (FORTRAN)7923 SIU HANDLER (FORTRAN)7969 SIU | 706123 B3 |
| DISPLAY DIAGNOSTIC7580 GRAPHIC | 706262 B1 | HANDLER (PLOT)GRAPH PLOTTER HANDLER (RCOC)C.O.C. | 704 005 83 70 5 71 9 81 |
| DISPLAY MODULE FOR ELLA 530GRAPHICAL DISPLAY STATION DIAGNOSTIC PROGRAMXEROX | 706485 B1 706110 B1 | HANDLER (STAND.PREC.FORTRAN)SIU 7930/31 | 705856 B3 |
| DISPLAY STATION PROCEDURAL HANDLERXEROX | 706254 B1 | HANDLER (STD PREC FORTRAN)7910 SIU | 706116 B3 706255 B 1 |
| DIVIDE INTERRUPT SUBROUTINEMULTIPLY/ DPM)DIAGNOSTIC PROGRAM MONITOR (| 704511 B1 705681 B1 | HANDLERMESSAGE ORIENTED COMM. DEVICE HANDLERMOC CONTROLLER 7801 | 705895 83 |
| DPS LOAD AND GO (LAG) PROCESSOR | 720015 B1 | HANDLERRBM BSC PROCEDURAL | 70814 9 81 890825 83 |
| DUMP ROUTINE (ELABORATED)FCT DUPLICATOR/VERIFIERPAPER TAPE | 890720 B3 706449 B3 | HANDLERRBM E01 MODIFICATIONS-ASCII TAPE HANDLERSTAND-ALONE RAD | 704073 B3 |
| DOD SAVE PROGRAMSIGMA 2/3 COI/ | 706244 81 | HANDLERXEROX DISPLAY STATION PROCEDURAL HANDLERSCCS-20 DIAGNOSTIC PROGRAM HITH | 706254 81 705357 83 |
| EDITOR FOR SIGMA 2TEXT EDITORRBM RAD | 890389 B3 705371 B1 | HARDCORE DIAGNOSTIC - PROGRAM WITH | 720011 B1 |
| ELABORATED)FCT DUMP ROUTINE (| 890720 B3 | HARDCORE MEMORY DIAGNOSTIC HARDCORE TEST (16-BIT)XEROX SOFTHARE | 720001 B 1 72001 0 B 1 |
| ELECTRONICS DATA ACQUISTIONA.C. ELLA 530BOUNDARY ROUTINE FOR | 705729 B3 706484 B1 | HARDWARE HARDCORE DIAGNOSTIC | 720011 B1 |
| ELLA 530CHRONOLOGICAL LIST. MODULE FOR | 706483 81 | HISTORY PROGRAMAUTOMATED MEDICAL 1/O TEST UTILITY PROGRAM | 890744 83 7040 00 83 |
| ELLA 530CONTROL PROGRAM FOR ELLA 530GRAPHICAL DISPLAY MODULE FOR | 706482 B1 706485 B1 | IDEAL FORTRAN | 890740 83 |
| ELLA 530SORTED LISTING MODULE FOR | 706487 81 | INDUMP INPUTCOMMAND SYS II, SECT 2-FSK TAPE | 70644 8 81 70 5666 83 |
| ELLA 530SUMMARY MODULE FOR ENGCOGO COORDINATE GEOMETRY LANGCIVIL | 706486 B1 890328 B3 | INSTRUCTION DIAGNOSTIC | 7200 05 B 1 |
| ENTRY (BCM)SIGMA 3 TO 1108 REMOTE JOB | 890705 83 890704 83 | INSTRUCTION DIAGNOSTICCPU OPTIONAL INTEGRAL IOP AND HD INTERFACE TEST | 72001 2 B 1 704 006 B3 |
| ENTRY (RBM)SIGMA 3 TO 1108 REMOTE JOB ENTRY SYSTEMS EXERCISERBRANCH DATA | 720021 B1 | INTERCOMMUNICATION DEMOSIGMA 3 - CF16 | 706147 83 |
| EQUIP. DIAGNOSTICPERIPHERAL SHITCHING | 705266 BI 704156 BI | INTERCOMMUNICATION DEMOSIGMA 3 - CF16 INTERFACE TESTINTEGRAL TOP AND HD | 706238 83 704 006 83 |
| EQUIPMENT PROGRAMAUTO DIAL EQUIPMENT TESTCOMPREHENSIVE CARD | 706170 B1 | INTERFACE UNIT TEST DIAGNOSTICCHANNEL | 7052 97 B l |
| ERROR LOG LIST/ANALYSIS PROGRAM | 706481 B1 720014 B1 | INTERGRAL IOP TEST INTERRUPT DIAGNOSTIC PROGRAM | 705690 83 7200 06 81 |
| EXERCISER (SYSX)SYSTEMS EXERCISER CONTROL PROGRAM | 706477 B1 | INTERRUPT DIAGNOSTICCPU | 704002 83 |
| EXERCISER FOR CCS-20 DATA LINK EXERCISER SYSTEMON-LINE | 705365 B3 706488 B1 | INTERRUPT SUBROUTINEMULTIPLY/DIVIDE 10 CONTROL/UTILITYCOMMAND SYS 11,SECT 6 | 704511 8 1 704037 83 |
| EXERCISERBRANCH DATA ENTRY SYSTEMS | 720021 B1 | 10COMMAND SYS 1 ,SECT 1- UTILITY AND | 704038 93 |
| EXERCISERCARD READER/CARD PUNCH EXERCISERDIAGNOSTIC - SYSTEM | 706478 BI 705716 B3 | 10P AND WD INTERFACE TESTINTEGRAL 10P DIAGNOSTIC | 704 006 B3 720007 B 1 |
| EXERCISERLINE PRINTER | 706479 B1 | 10P TEST PROGRAMEXTERNAL | 705679 83 705690 83 |
| EXERCISERMAGNETIC TAPE EXERCISORMULTIPLE-PORT MEMORY RANDOM | 706480 B1 705672 B3 | 10P TESTINTERGRAL JOB ENTRY (BCM)SIGMA 3 TO 1108 REMOTE | 890705 83 |
| EXT PREC FORTRAN)7929 SIU HANDLER (| 706171 B3 | JOB ENTRY (RBM)SIGMA 3 TO 1108 REMOTE KEYBOARD DISPLAY DIAGNOSTIC | 89 0704 93 704012 93 |
| EXT. PREC. FORTRAN)SIU 7915 HANDLER (EXT. PREC. FORTRAN)SIU 7930/31 HANDLER | 705853 83 705855 83 | KEYBOARD PRINTER (ASR/KSR)(16-BIT)XEROX | 705652 B1 |
| EXT.PREC.FORTRAN)7910 SIU HANDLER (| 706115 B3 | KEYBOARD PRINTER TEST KSR)(16-BIT)XEROX KEYBOARD PRINTER (ASR | 704015 B3 705652 B 1 |
| EXTENDED ARITHMETIC OPTION EXTENDED DEVICE SUBCONTROLLER DIAG7902 | 705386 B3 706172 B3 | LAG) PROCESSORDPS LOAD AND GO (| 720015 BI |
| EXTENDED SYMBOLRBM | 705372 B1 | LANGCIVIL ENGCOGO COORDINATE GEOMETRY LEAST-SQUARES W/ ORTHOGONAL POLYNOMIALS | 89032 8 B3 890814 B3 |
| EXTENSIONSROUTINES - REAL-TIME EXTERNAL 10P TEST PROGRAM | 890697 83 705679 83 | LEVEL 3)APT3 (| 890748 93 |
| EXTERNAL MEMORY ADAPTER DIAGNOSTIC8050 | 704449 81 890825 83 | LIB. (16-BIT)XEROX DIAG. PROG. MAG TAPE LIB. CONTROLXEROX COIN-X530 DIAG. PROG. | 720009 81 72002 3 82 |
| EDI MODIFICATIONS-ASCII TAPE HANDLERRBM FAIL-SAFE TESTPOWER | 704140 83 | LIGHT CNTRLCOMMAND SYS I ,SECT 2-SHITCH | 704 056 B3 |
| FAULT LOCATORMEMORY DIAGNOSTIC- FCT DUMP ROUTINE (ELABORATED) | 705529 83 890720 83 | LINKEXERCISER FOR CCS-20 DATA LIST. MODULE FOR ELLA 530CHRONOLOGICAL | 705365 83 70 6483 81 |
| FILE ROUTINESBLOCKED RANDOM | 890741 B3 | LIST/ANALYSIS PROGRAMERROR LOG | 706481 B1 |
| FILE TEST PROGRAMMASS STORAGE DISC FOREGROUND DEMOREAL-TIME CLOCK 1 | 704320 B3 704342 B3 | LISTING MODULE FOR ELLA 530SORTED LOAD AND GO (LAG) PROCESSORDPS | 706487 8 1 72001 5 8 1 |
| FORTRAN CALLABLE SORTLSDMF - | 890927 B3 | I DADER (16-RIT MACHINE) XEROX DIAG.PROG. | 720000 B1 70 5264 B1 |
| FORTRAN IV COMPILERRBM BASIC FORTRAN IV LIBRARY (COVER)RBM BASIC | 705375 B1 704525 B1 | LOADER GENERATORBOOT STRAP AND ABSOLUTE LOADERSTAND-ALONE RELOCATABLE | 704453 81 |
| FORTRAN IVANS | 706277 BI | LOADER-SYMBOL+EXTENDED SYMBOLDIAGNOSTIC | 705299 83 705667 83 |
| FORTRAN IVANS FORTRAN LIBRARY PROCEDURES | 706463 B1 705779 B3 | LOADINGCOMMAND SYS 1, SECT 3-DATA BASE LOCATORMEMORY DIAGNOSTIC-FAULT | 705529 B3 |
| FORTRAN MATH LIBRARY/RUN-TIMEBASIC | 704454 BI | LOG LIST/ANALYSIS PROGRAMERROR LOOP DIAGNOSTIC7907 CLOSED | 706481 B1 706468 B3 |
| FORTRANIDEAL FORTRAN)SIU 7915 HANDLER (EXT. PREC. | 890740 83 705853 83 | LOOP DIAGNOSTIC7908 CLOSED | 708470 B3 |
| FORTRAN)SIU 7930/31 HANDLER (EXT. PREC. | 705855 B3 706116 B3 | LSDMF - FORTRAN CALLABLE SORT MACHINE)XEROX DIAG.PROG. LOADER (16-BIT | 890927 B3 720000 B1 |
| FORTRAN)7910 SIU HANDLER (STD PREC FORTRAN)7923 SIU HANDLER (| 705116 B3 705898 B3 | MAG TAPE LIB. (16-BIT)XEROX DIAG. PROG. | 720009 B1 |
| FORTRAN)7929 SIU HANDLER (EXT PREC | 706171 B3 706123 B3 | MAGNETIC TAPE EXERCISER MAGNETIC TAPE LIBRARYDIAGNOSTIC PROGRAM | 70 6480 81 70 5694 81 |
| FORTRAN)7969 SIU HANDLER (FSK TAPE INPUTCOMMAND SYS II, SECT 2- | 705666 B3 | MAGNETIC TAPE TEST7 CHANNEL | 705877 B1 705866 B1 |
| FSK TESTCOMMAND SYS 11, SECT 4- FSKCOMMAND SYS 1 , SECT 5-TONES DIGITAL/ | 704035 B3 704344 B3 | MAGNETIC TAPE TEST9 CHANNEL MAGNETIC TAPE TEST9-CHANNEL POTTER | 706417 B1 |
| GASP II SIMULATION PROGRAMRBM/3 | 890671 B3 | MANUAL CONTROL DIAGNOSTIC | 720013 91 705720 93 |
| GENERATOR (RPG 11)XEROX REPORT PROGRAM GENERATORANALOG REDUCTION REPORT | 706401 B1 705378 B3 | MANUFACTURING TEST PROGRAM MAP PLOTTING SYSTEMCONTOUR | 890827 83 |
| | | | |

TITLE CAT.NO CL KEY TITLE CAT.NO CL MASS STORAGE DISC FILE TEST PROGRAM...
MATH LIBRARY (COVER)...STAND-ALONE
MATH LIBRARY/RUN-TIME...BASIC FORTRAN
MEDIC 8150 (MEMORY DIAGNOSTIC FOR 8150)... RBM EXTENDED SYMBOL...
RBM E01 MODIFICATIONS-ASCI1 TAPE HANDLER..
RBM RAD EDITOR... 705372 B1 704320 B3 704161 83 704454 81 890825 B3 705371 BI 706275 BI 705894 B3 RBM REPLACE ... RBM TRACE PROGRAM...
RBM UTILITIES SUBSYSTEMS AND DEBUG ROOT...
RBM)...SIGMA 3 TO 1108 REMOTE JOB ENTRY (
RBM)...XEROX REAL-TIME BATCH MONITOR (
RBM)...XEROX REAL-TIME BATCH MONITOR (MEDIC...MEMORY PROGRAM MEDICAL HISTORY PROGRAM...AUTOMATED 704022 B3 890728 B3 MEDIC...MEMORY PROGRAM—
MEDICAL HISTORY PROGRAM...AUTOMATED
MEMORY ADAPTER DIAGNOSTIC...8050 EXTERNAL
MEMORY DIAGNOSTIC...
MEMORY DIAGNOSTIC...
MEMORY DIAGNOSTIC...
MEMORY DIAGNOSTIC...
MEMORY DIAGNOSTIC...
MEMORY PROGRAM — MEDIC...
MEMORY PROGRAM — MEDIC...
MEMORY PROTECT PROGRAM...
MEMORY RANDOM EXERCISOR...MULTIPLE-PORT
MEMORY TESTER...CONTROL PROGRAM FOR E-H
MESSAGE ORIENTED COMM. DEVICE HANDLER...
MESSAGE PROCESSOR...COMMAND SYS II, SECT I
MINI TEST...8150
MOC CONTROLLER 7601 HANDLER...
MODULE FOR ELLA 530...CHRONOLOGICAL LIST.
MODULE FOR ELLA 530...SORTED LISTING
MODITOR (BCM)...MESTIC CONTROL
MONITOR (BCM)...MESTIC PROGRAM
MONITOR (RBM)...XERDX REAL-TIME BATCH
MONITOR...DIAGNOSTIC PROGRAM
M 704422 83 890744 83 704449 81 705894 83 705373 B1 890704 B3 705368 B1 RBM)...XENUX REAL-TIME BATCH MONITOR (
RBM)...XENOX REAL-TIME BATCH MONITOR (
RBM-16 DATADEF...
RBM/BCM...SYMBOLIC COMPRESSOR FOR
RBM/3 GASP II SIMULATION PROGRAM...
RCOC)...C.O.C. HANDLER (
RECON COMPRESSED TO SYMBOLIC CONVERTER...
RECON SYA COMPRESSED TO SYMBOLIC CONVER...
RECOND SYA COMPRESSED TO SYMBOLIC CONVER...
RECOND SYA COMPRESSED TO SYMBOLIC CONVER...
RECONDER DEMO PROGRAM...RAYTHEON
REDUCTION REPORT GENERATOR...ANALOG
RELOCATABLE LOADER...STAND-ALONE
REMOTE JOB ENTRY (BCM)...SIGMA 3 TO 1108
REMOTE JOB ENTRY (RBM)...SIGMA 3 TO 1108
REMOTE JOB ENTRY (RBM)...SIGMA 3 TO 1108
REMOVABLE DISC STORAGE TEST...
REPLACE...RBM
REPORT GENERATOR...ANALOG REDUCTION
REPORT PROGRAM GENERATOR (RPG II)...XEROX
ROMBUST... 720002 B1 705369 B1 720001 B1 705529 B3 706501 **B3** 706246 83 704022 B3 890671 B3 705528 83 705719 B1 706239 B3 705672 **B**3 706241 B3 706108 B3 705880 B3 706255 B1 704028 R3 705378 83 705893 B3 704453 B1 705895 B3 705298 83 890705 83 705382 BI 706483 BI 890704 B3 705533 B1 706485 BI 706487 BI 708275 81 706486 BI 705378 83 REPORT PROGRAM GENERATOR (RPG II)...XEROX
ROMBUST...
ROMLIST...
ROMLIST...
ROUTINES - REAL-TIME EXTENSIONS...
ROUTINES...BLOCKED RANDOM FILE
RPG II)...XEROX REPORT PROGRAM GENERATOR (
RUN-TIME...BASIC FORTRAN MATH LIBRARY/
SAFE TEST...POWER FAILSATELLITE PROCESSOR...XEROX
SAVE PROGRAM...SIGMA 2/3 C01/D00
SECT 1- UTILITY AND 10...COMMAND SYS I,
SECT 1-HESSAGE PROCESSOR...COMMAND SYS II,
SECT 2-SHITCH LIGHT CNTRL...COMMAND SYS II,
SECT 2-SHITCH LIGHT CNTRL...COMMAND SYS II,
SECT 3-DATA BASE LOADING...COMMAND SYS II,
SECT 3-DONE/DIGITAL TAPE...COMMAND SYS II,
SECT 4-FEK TEST...COMMAND SYS II,
SECT 5-TONES DIGITAL TEST...COMMAND SYS II
SECT 5-TONES DIGITAL FEST...COMMAND SYS II
SECT 5-TONES DIGITAL FEST...COMMAND SYS II
SECT 6-IO CONTROL/UTILITY...COHMAND SYS II
SECT 6-PROGRAM GENERATOR...COMMAND SYS II,
SECT 6-PROGRAM GENERATOR...COMMAND SYS II
SECT 5-TOMES DIGITAL ANALOG SIMULATOR...
SIGMAS-XDS SIGMA 2/3 ASSEMBLER CDC-8400...
SIMULATOR PROGRAM...RBM/3 GASP II
SIMULATOR PROGRAMS...TELETYPE TERMINAL
SIMULATOR PROGRAMS...TELETYPE TERMINAL
SIMULATOR...DISK PACK BOOTSTRAP
SIMULATOR...DISK PACK BOOTSTRAP
SIMULATOR...SIGDAS- SIGMA DIGITAL ANALOG
SIU DIAGNOSTIC PROGRAM...7923
SIU DIAGNOSTIC PROGRAM...7923/28/29
SIU DIAGNOSTIC PROGRAM...7923/28/29
SIU DIAGNOSTIC PROGRAM...7923/28/29
SIU DIAGNOSTIC PROGRAM...7923/28/29
SIU DIAGNOSTIC PROGRAM...7923/7931/7935
SIU HANDLER (EXT PREC FORTRAN)...7929 704457 B1 705681 B1 706401 B1 705777 B3 ROMBUST . . . 705368 B1 890725 B3 705369 B1 890697 B3 MONITOR...DIAGNOSTIC PROGRAM
MONITOR...DIAGNOSTIC PROGRAM SYSTEM
MUNITOR...DIAGNOSTIC PROGRAM SYSTEM
MULTIPLE-PORT MEMORY RANDOM EXERCISOR...
MULTIPLEY/DIVIDE INTERRUPT SUBROUTINE...
NON-STANDARD BCM COVER...
NS LINE PRINTER DIAGNOSTIC PROGRAM... 720004 B1 890741 **83** 720016 BI 706401 B1 705672 B3 704511 B1 705847 B3 704454 B1 704140 B3 706491 B1 706244 B1 720020 B1 NS LINE PHINIER DIJBROUSTIC PROBRAM...
NUMERICAL SUBROUTINE PACKAGE (COVER)...
OPTION...EXTENDED ARITHMETIC
OPTIONAL INSTRUCTION DIAGNOSTIC...CPU
ORIENTED COMM. DEVICE HANDLER...MESSAGE
ORIENTED COMMUNICATION TEST...CHARACTER 705546 B1 705386 B3 704038 83 704028 B3 720012 B1 705668 B3 706255 B1 704056 83 704014 BI 705667 B3 ORTHOGONAL POLYNOMIALS...LEAST-SQUARES W/ 890814 B3 ORTHOGONAL POLYNOMIALS...LEAST-SQUARES H/
OUT...XGPOVERLAY...COMMAND SYS I ,SECT 7-DATA BASE
PACK BOOTSTRAP SIMULATOR...DISK
PAGER...DEMAND
PAPER TAPE OUPLICATOR/VERIFIER...
PAPER TAPE READER-PUNCH TEST...
PARAMETER PREPARATION ROUTINE (PPR)...
PERIODERAL SWITTENING SOURCE DIAGNOSTIC 704034 B3 890903 B3 704035 B3 704346 83 890767 83 704209 B3 704036 B3 890926 83 704344 B3 704037 B3 706449 B3 704024 B1 706447 B3 704345 B3 704346 B3 PERIPHERAL SHITCHING EQUIP. DIAGNOSTIC ... 705266 B1 890821 83 890742 B3 890710 B3 PHSORT. PLOT SUBROUTINE...PRINTER
PLOT)...GRAPH PLOTTER HANDLER (890712 B3 704005 B3 890870 B3 890671 83 PLOTT:..GRAPH PLOTTER HANDLER (
PLOTTER HANDLER (PLOT)...GRAPH
PLOTTER TEST...GRAPH
PLOTTING LIBRARY...SIGMA
PLOTTING SYSTEM...CONTOUR MAP
PLOTTING SYSTEM...S'MBIONT
POLYNOMIALS...LEAST-SQUARES H/ ORTHOGONAL
PORT MEMORY RANDOM (EXERCISOR...MULTIPLEPOTTER MAGNETIC TAPE TEST...9-CHANNEL 704005 B3 704001 B1 890719 B3 706252 B3 890723 B3 890827 B3 890767 83 890710 B3 705780 B1 704235 B1 890814 B3 705672 B3 706417 B1 704213 RI 705388 81 705885 81 POTTER MAGNETIC TAPE TEST...9-CHANNEL
POTTER 3000/3300 PRINTER DIAGNOSTIC...
POHER FAIL-SAFE TEST...
PPR)...PARAMETER PREPARATION ROUTINE (
PREC. FORTRAN)...SIU 7915 HANDLER (EXT.
PREC. FORTRAN)...SIU 7930/31 HANDLER (EXT.
PREPARATION ROUTINE (PPR)...PARAMETER
PRINTER (ASR/KSR)(15-BIT)...XEROX KEYBOARD
PRINTER DIAGNOSTIC PROGRAM. NS LINE SIU DIAGNOSTIC...7915/ADS-10
SIU DIAGNOSTIC...7915/ADS-10
SIU DIGITAL DIAGNOSTIC...7930/7931/7935
SIU HANDLER (EXT PREC FORTRAN)...7929
SIU HANDLER (EXT.PREC.FORTRAN)...7910
SIU HANDLER (FORTRAN)...7923
SIU HANDLER (FORTRAN)...7969
SIU HANDLER (STD PREC FORTRAN)...7910
SIU 7915 HANDLER (EXT. PREC. FORTRAN)...
SIU 7930/31 HANDLER (EXT. PREC. FORTRAN)...
SIU 7930/31 HANDLER (EXT. PREC. FORTRAN)...
SORT...LSDMF - FORTRAN CALLABLE
SORT...LSDMF - FORTRAN CALLABLE
SORT...XEROX 530 DISK
SORTED LISTING MODULE FOR ELLA 530...
SQUARES H/ ORTHOGONAL POLYNONIALS...LEASTSST)...UNLABELED SOFTHARE SUPPORT TAPE (
STAND-PREC.FORTRAN)...SIU 7930/31 HANDLER
STAND-ALONE CONCORDANCE...
STAND-ALONE MATH LIBRARY (COVER)...
STAND-ALONE RAD HANDLER... 705892 81 706462 B3 704140 B3 704210 B1 706447 B3 706171 83 705853 83 705855 83 706447 83 706115 83 705898 83 706123 83 705652 B1 706116 B3 PRINTER DIAGNOSTIC PROGRAM...NS LINE PRINTER DIAGNOSTIC...POTTER 3000/3300 720020 BI 705853 83 706462 B3 706479 B1 890712 B3 705855 83 PRINTER EXERCISER...LINE PRINTER PLOT SUBROUTINE. 705856 83 PRINTER PLOT SUBROUTINE...

PRINTER TEST...COMPREHENSIVE LINE

PRINTER TEST...KEYBDARD

PRINTER...2230/2440 LINE

PROCEDURAL HANDLER...SEM BSC

PROCEDURAL HANDLER...XEROX DISPLAY STATION

PROCEDURES...FORTRAN LIBRARY

PROCESSOR...COMMAND SYS 11, SECT 1-MESSAGE

PROCESSOR...TIME-SHARING

PROCESSOR...TIME-SHARING

PROCESSOR...TELETYPE TERMINAL SIMULATOR

PROGRAMS...BECM BACKGROUND DEMONSTRATION

PROGRAMS...TELETYPE TERMINAL SIMULATOR

PROTECT PROGRAM...MEMORY

RANDOM FILE ROUTINE'S...BLOCKED

RAYTHEON RECORDER DEMO PROGRAM...

RBM ANALYZE... 890927 B3 706257 B1 706487 B1 706168 B1 704015 B3 706476 B3 890814 **83** 88081**6 8**1 706149 BI 706254 B1 705779 B3 705856 **83** 705294 **81** 704028 B3 720015 B1 704455 B1 704161 B3 890821 B3 706491 B1 STAND-ALONE RAD HANDLER... STAND-ALONE RELOCATABLE LOADER... 704073 B3 704453 B1 STAND-ALONE RELOCATABLE LOADER...
STAND-ALONE SOFTHARE (COVER)...
STAND-ALONE SYMBOL ASSEMBLER...
STAND-ALONE SYSLOAD PACKAGE...
STAND-ALONE...SYMBOLIC COMPRESSOR FOR
STANDARD BCM COVER...NONSTATION DIAGNOSTIC PROGRAM...XEROX DISPLAY
STATION PROCEDURAL HANDLER...XEROX DISPLAY
STATISTICAL SYSTEM - STATSYS...
STATSYS...STATISTICAL SYSTEM STD PREC FORTRAN)...7910 SIU HANDLER (
STORAGE DISC FILE TEST PROGRAM...MASS 704347 B3 704955 B1 706252 B3 704450 BI 705528 B3 704956 81 705672 B3 706245 B3 890741 B3 705847 83 706108 B3 706110 BI RBM ANALYZE...
RBM BASIC FORTRAN IV COMPILER...
RBM BASIC FORTRAN IV LIBRARY (COVER)...
RBM BASIC FORTRAN IV LIBRARY (COVER)... 706464 B1 705375 B1 706254 81 890911 83 890911 **83** 70611**6 83** 704525 B1 706149 BI RBM CONCORDANCE... 705374 B1 704320 B3

| PROGRAM AVAILABILITY LIST | | SI | CHA 2/3-530 |
|---|---|--|---|
| KEY TITLE | CAT.NO CL | KEY TITLE | CAT.NO CL |
| STORAGE TESTREMOVABLE DISC STRAP AND ABSOLUTE LOADER GENERATORBOOT SUBCONTROLLER DIAG7902 EXTENDED DEVICE SUBSET FOR BUS. APPLICATIONSCOMMERCIAL SUBSYSTEMS AND DEBUG ROOTRBM UTILITIES SUMMARY MODULE FOR ELLA 530 SUPPORT TAPE (SST)UNLABELED SOFTHARE SHITCH LIGHT CNTRLCOMMAND SYS I ,SECT 2 SHITCHING EQUIP. DIAGNOSTICPERIPHERAL SYMBIONT PLOTTING SYSTEM SYMBOL ASSEMBLERBCM SYMBOL ASSEMBLERSTAND-ALONE SYMBOLRBM EXTENDED SYMBOLRBM EXTENDED SYMBOLRBM EXTENDED SYMBOL.COMPRESSOR FOR RBM/BCM SYMBOLIC COMPRESSOR FOR STAND-ALONE SYMBOLIC COMPRESSOR FOR STAND-ALONE SYMBOLIC CONVERTERRECON SCA COMPRESSED TO SYS I ,SECT 1- UTILITY AND IOCOMMAND SYS I ,SECT 5-SHITCH LIGHT CNTRLCOMMAND SYS I ,SECT 5-TONES DIGITAL/FSKCOMMAND SYS I ,SECT 7-DATA BASE LOADINGCOMMAND SYS I ,SECT 1- HESSAGE PROCESSORCOMMAND SYS II, SECT 1-FSK TAPE INPUTCOMMAND SYS II, SECT 1-FSK TAPE INPUTCOMMAND SYS II, SECT 3-TONE/DIGITAL TAPECOMMAND SYS II, SECT 3-TONE/DIGITAL TAPECOMMAND SYS II, SECT 3-FOK TESTCOMMAND SYS II, SECT 1-FSK TESTCOMMAND SYS II, SECT 5-TONES DIGITAL TESTCOMMAND SYS II, SECT 5-TONES DIGITAL TESTCOMMAND SYS II, SECT 3-TONE/DIGITAL TAPECOMMAND SYS II, SECT 3-TONE/DIGITAL TAPECOMMAND SYS II, SECT 5-TONES DIGITAL TESTCOMMAND SYS II, SECT 5-TONES DIGITAL TESTTOMMAND SYS II, SECT 5-TONES DIGITAL TESTTOMMAND SYS II, SECT 5-TONES DIGITAL TESTTOMMAND SYS II, SECT 5-TONES D | 705533 B1 705264 B1 705264 B1 705264 B1 705172 B3 890579 B3 705373 B1 706486 B1 704056 B3 705266 B1 704990 B1 704990 B1 704990 B1 705299 B3 705299 B3 705298 B3 706245 B3 706246 B3 706246 B3 706246 B3 706246 B3 706246 B3 706246 B3 706251 B3 704038 B3 705369 B1 704139 B3 705368 B1 704139 B3 705356 B3 704334 B3 | VERIFIERPAPER TAPE DUPLICATOR/ HATCHDOO TIMER TEST HD INTERFACE TESTINTEGRAL IOP AND XEROX COIN-X530 DIAG. PROG. LIB. CONTROL XEROX COIN-X530 DIAG. PROG. LIB. CONTROL XEROX DIAG. PROG. MAG TAPE LIB. (16-BIT) XEROX DIAG. PROG. MAG TAPE LIB. (16-BIT) XEROX DIAG. PROG. LOADER (16-BIT MACHINE) XEROX DISPLAY STATION DIAGNOSTIC PROGRAM XEROX KEYBOARD PRINTER (ASR/XSR)(16-BIT) XEROX KEYBOARD PRINTER (ASR/XSR)(16-BIT) XEROX REAL-TIME BATCH MONITOR (RBM) XEROX REAL-TIME BATCH MONITOR (RBM) XEROX REPORT PROGRAM GENERATOR (RPG II) XEROX SATELLITE PROCESSOR XEROX SOFTHARE HARDCORE TEST (16-BIT) XEROX 530 DISK SORT XGP-OUT XPS-97 DIAGNOSTICS FOR SIGMA 3 XPS97 DIAGNOSTIC. TMSOSB/ X530 DIAG. PROGRAM LIBRARYXEROX COIN- 1108 REMOTE JOB ENTRY (RBM)SIGMA 3 TO 1108 REMOTE JOB ENTRY (RBM)SIGMA 3 TO 12330/2440 LINE PRINTER 2440 LINE PRINTER 2530SORTED LISTING MODULE FOR ELLA 530GRAPHICAL DISPLAY MODULE FOR ELLA 530SORTED LISTING MODULE FOR ELLA 530SORTED DEVICE SUBCONTROLLER DIAG 7910 SIU HANDLER (EXT. PREC. FORTRAN) 7910/14/122 ANALOG DIAG. PROGMODIFIED 7915 HANDLER (EXT. PREC. FORTRAN) 7923 SIU HANDLER (EXT. PREC. FORTRAN) 7930/31 HANDLE | 708449 83 705356 83 704006 83 720023 82 720009 81 720009 81 720009 81 706110 81 706254 81 705369 81 705369 81 706491 81 706491 81 706491 81 706491 83 |
| TONESCOMMAND SYS 1,SECT 4-TELEMETRY AND TRACE (SIGMA 2)DEBUG/ | 704209 B3 890523 B3 | 7930/7931/7935 SIU DIGITAL DIAGNOSTIC 7931/7935 SIU DIGITAL DIAGNOSTIC7930/ | 704210 B1 704210 B1 704210 B1 |
| TRACE PROGRAMRBM TRACEDEBUG HITH UNIT TEST DIAGNOSTICCHANNEL INTERFACE | 890726 83 704183 83 705297 81 | 7935 SIU DIGITAL DIAGNOSTIC7930/7931/ 7969 SIU HANDLER (FORTRAN) 8050 EXTERNAL MEMORY ADAPTER DIAGNOSTIC 8150 (MEMORY DIAGNOSTIC FOR 8150)MEDIC | 704210 B1 706123 B3 704449 B1 705894 B3 |
| UNIVERSAL UTILITY PROGRAM UNLABELED SOFTHARE SUPPORT TAPE (SST) UTILITIES SUBSYSTEMS AND DEBUG ROOTRBM | 704989 B1 880816 B1 705373 B1 | 8150 MINI TEST 8150)MEDIC 8150 (MEMORY DIAGNOSTIC FOR | 705894 B3 705894 B3 |

704285 SIGMA 2 AUTHOR: XEROX

GEOSPACE SPECIAL DEVICE CHECKOUT PROGRAM

ABSTRACT:

ISTRACT:
THIS PROGRAM ALLOHS VISUAL CHECKING OF THE OPERATION OF THE DISPLAY UNITS AND PROGRAM CHECKING OF THE
1ST AND 2ND LEVEL PRIJORITY INTERRUPT SIGNAL CONDITIONER, FOR THE GEOSPACE TELESCOPE CONTROL SYSTEM.

THE DISPLAY UNITS ARE DRIVEN BY A 7930/31 SUIU. EACH DIGT IS COUNTED SO THAT PROPER OPERATION CAN BE CHECKED. THE INTERRUPT SIGNALS ARE CHECKED TO DETERMINE IF THEY HERE EARLY, LATE OR OK.

704450 SIGMA 2 AUTHOR: XEROX

STAND-ALONE SYMBOL ASSEMBLER

ABSTRACT:

THIS PROGRAM IS THE STAND-ALONE VERSION OF THE SIGMA 2 SYMBOL ASSEMBLER. IT READS SYMBOLIC SOURCE LANGUAGE PROGRAMS, CONVERTS THEM TO MACHINE-LANGUAGE (OBJECT) PROGRAMS, AND OUTPUTS THE OBJECT PROGRA AN ASSEMBLY LISTING. THE OBJECT PROGRAM MAY BE LOADED BY ANY OF THE SIGMA 2 RELOCATABLE LOADERS. COMMENTS:

OMMENTS:
THE ABSOLUTE COPY OF THIS PROGRAM IS PREPARED ON THE USER'S SIGMA 2, ACCORDING TO THE PROCEDURE
DESCRIBED IN 901047. THE RESULTING PROGRAM USES THE 1/0 DRIVERS THAT ARE IN MEMORY AT THE TIME THE
ABSOLUTE COPY IS PREPARED. THE CORE RESIDENCY IS APPROXIMATELY 3915 HORDS, PLUS THE STORAGE REQUIRED FOR
THE 1/0 DRIVERS (APPROXIMATELY 506 HORDS) THE REMAINING AVAILABLE MEMORY IS USED AS SCRATCH STORAGE.
THE MINIMUM CONFIGURATION REQUIRED IS: 8K SIGMA 2, CARD OR PAPER TAPE 1/0,AND TYPEWRITER.

704453 SIGMA 2

STAND-ALONE RELOCATABLE LOADER

AUTHOR: XEROX

ABSTRACT:

SSTRACT:
THIS PROGRAM IS THE STAND-ALONE VERSION OF THE SIGMA 2 LOADER. IT IS USED TO PREPARE AN ABSOLUTE COPY OF
CATALOG NO.S 704453, 704450, AND 704455, ACCORDING TO THE PROCEDURE DESCRIBED IN 901047. THE RESULTING
ABSOLUTE COPY OF THIS PROGRAM READS OBJECT MODULES (PRODUCED BY SIGMA 2 BASIC SYMBOL- CATALOG NO.
704450) FROM THE BINARY INPUT DEVICE, LINKS EXTERNAL REFERENCES AMONG THO OR MORE PROGRAMS, ACCEPTS
RELOCATABLE PATCHES, LISTS ALL EXTERNAL DEFINITIONS (AND UNSATISFIED REFERENCES), ACCEPTS BIAS AND
BOUNDARY SPECIFICATIONS, AND DUMPS MEMORY (IN ABSOLUTE FORMATTED FORM) ON THE BINARY OUTPUT DEVICE (PO).
WHATENTS:

OMMENTS:
THE ABSOLUTE COPY OF THIS PROGRAM IS PREPARED ON THE USER'S SIGMA 2 ACCORDING TO THE SYSLOAD PROCEDURE
DESCRIBED IN 901047. THE RESULTING PROGRAM OCCUPIES THE UPPER 1603 DECIMAL LOCATIONS (APPROX.). THE
REMAINING AVAILABLE MEMORY IS USED FOR LOADING PROGRAMS AND FOR AN EXTERNAL SYMBOL TABLE(CONSTRUCTED
TOHARD THE LOH END OF AVAILABLE MEMORY). THE MINIMUM CONFIGURATION REQUIRED IS: 4K SIGMA 2, CARD OR
PAPER TAPE I/O, AND TYPEHRITER. NOTE: AN ADDITIONAL 4K OF SIGMA 2 CORE MEMORY IS REQUIRED TO PREPARE AN
ABSOLUTE COPY OF CATALOG NO. 704450. THE ABSOLUTE BINARY CARDS (OR PAPER TAPE) AND THE RELOCATABLE
BINARY CARDS (OR PAPER TAPE) OF THIS CATALOG NUMBER ARE ALSO INCLUDED AS PART OF CATALOG NO. 704956.

704454

SIGMA 2/3

BASIC FORTRAN MATH LIBRARY/RUN-TIME

AUTHOR: XEROX

ABSTRACT:
THIS IS THE COVER NUMBER FOR THE COMPLETE BASIC FORTRAN LIBRARY. THE LIBRARY IS USED WITH THE BASIC FORTRAN COMPILER (704992) UNDER BCM.

704455

SIGMA 2

STAND-ALONE DEBUG

AUTHOR: XEROX ABSTRACT:

THIS PROGRAM IS THE STAND-ALONE VERSION OF THE BASIC SIGMA 2 DEBUG SUBROUTINE. IT ACCEPTS CONTROL COMMANDS AND PERFORMS THE FOLLOHING: LIST CONTROL COMMANDS, MODIFY CORE MEMORY, DUMP CORE MEMORY, MODIFY REGISTERS, DUMP REGISTERS, SELECTIVELY EXECUTE PROGRAMS, PERFORM A MASKED MEMORY SEARCH, AND DUMP MEMORY (IN ABSOLUTE FORMATTED FORM) ON THE BINARY OUTPUT DEVICE. COMMENTS

THE ABSOLUTE COPY OF THIS PROGRAM IS PREPARED ON THE USER'S SIGMA 2 ACCORDING TO THE SYSLOAD PROCEDURE THE ABSOLUTE COPY OF THIS PROGRAM USES THE I/O DRIVERS AND MEMORY DUMP ROUTINES THAT ARE IN MEMORY AT THE TIME THE ABSOLUTE COPY IS PREPARED. THE CORE RESIDENCY IS APPROXIMATELY 830 DECIMAL LOCATIONS PLUS THE STORAGE REQUIRED FOR THE I/O DRIVERS AND THE MEMORY DUMP ROUTINES (APPROXIMATELY 747 DECIMAL LOCATIONS). THE MINIMUM CONFIGURATION IS: 4K SIGMA 2, CARD OR PAPER TAPE I/O, AND TYPEMRITER. THE RELOCATABLE BINARY CARDS (OR PAPER TAPE) OF THIS CATALOG NO. IS PART OF CATALOG NO. 704956.

704457

SIGMA 2/3-530

BASIC CONTROL MONITOR (BCM)

AUTHOR: XEROX CORPORATION

ABSTRACT:
THIS IS THE COVER NUMBER FOR BCM AND PROCESSORS. IT INCLUDES: BCM (SYSGEN), SYSTEM LOADER, LINKING LOADER, SYMBOL, CONCORDANCE, UTILITIES, EXPAND, BASIC FORTRAN, AND BASIC FORTRAN LIBRARY ROUTINES.

THE COMPRESSED MAG TAPE (-46) CONTAINS THE SOURCE AND LISTINGS FOR ALL PROGRAMS INCLUDED UNDER THIS COVER NUMBER. HARD COPIES MAY BE OBTAINED BY THE USER VIA THE EXPAND PROCESSOR.

704511

SIGMA 2/3

MULTIPLY/DIVIDE INTERRUPT SURROUTINE

AUTHOR: XEROX ABSTRACT:

THIS PROGRAM PROVIDES MULTIPLY AND DIVIDE SIMULATION FOR CPU HITHOUT MULTIPLY/DIVIDE HARDHARE. RESULTS
ARE IDENTICAL TO THOSE OBTAINED FROM HARDHARE MULTIPLY/DIVIDE.

THIS PROGRAM CONSISTS OF AN ABSOLUTE SECTION AND A RELOCATABLE SECTION. THE ABSOLUTE SECTION CONTAINS INTERRUPT TRANSFER ADDRESSES FOR LOCATIONS 260 AND 251(DECIMAL). THE RELOCATABLE SECTION HAS AN ORIGIN AT ZERO AND OCCUPIES APPROXIMATELY 181 (DECIMAL) LOCATIONS.

\$10MA 2/3 RBM BASIC FORTRAN IV LIBRARY (COVER) 704525 AUTHOR: XEROX

ABSTRACT:
THIS IS THE COVER NUMBER FOR THE COMPLETE BASIC FORTRAN IV LIBRARY. THE LIBRARY IS USED WITH THE BASIC FORTRAN IV COMPILER (705375) UNDER RBM.

STAND-ALONE SOFTHARE (COVER) SIGMA 2 704955

AUTHOR: XEROX ABSTRACT:

THIS CATALOG NUMBER HAS ESTABLISHED IN ORDER TO CONVENIENTLY DISTRIBUTE PROGRAM SOURCE DECKS AND LISTINGS ON A MINIMUM NUMBER OF MAGNETIC TAPES.

COMMENTS:
THIS CATALOG NUMBER INCLUDES THE SOURCE AND LISTING FOR CATALOG NUMBERS 704450, 704453, 704455, 704511. AND 705294

STAND-ALONE SYSLOAD PACKAGE SIGMA 2 704956

AUTHOR: XEROX

ABSTRACT:
THIS CATALOG NUMBER HAS ESTABLISHED IN ORDER TO CONVENIENTLY DISTRIBUTE STAND-ALONE ABSOLUTE AND RELOCATABLE PROGRAMS ON A MINIMUM NUMBER OF PAPER TAPES. THIS PACKAGE IS USED TO CREATE AN INSTALLATION DEPENDENT SYSTEM.

THIS CATALOG NUMBER INCLUDES THE ABSOLUTE BINARY CARDS (OR PAPER TAPE) OF CATALOG NUMBER 704453, THE RELOCATABLE BINARY CARDS (OR PAPER TAPE) OF CATALOG NUMBER 704453, AND THE RELOCATABLE BINARY CARDS (OR PAPER TAPE) OF CATALOG NUMBER 704455.

UNIVERSAL UTILITY PROGRAM 704989 SIGMA 2

AUTHOR: XEROX

ABSTRACT:
THIS PROGRAM PROVIDES A COLLECTION OF UTILITY PROGRAMS FOR PROCESSING AND MAINTAINING EXISTING SOFTHARE
THE PROGRAM HILL PROCESS ANY MEDIUM OF EBCDIC OR BINARY RECORDS ON A FILE BASIS. THE PROCESS FUNCTIONS
INCLUDED ARE, COPY FILES, SKIP FILES, REHIND, LIST FILES, UPDATE A FILE, DUMP BINARY RECORDS AND

COMMENTS:

THE PROGRAM REQUIRES APPROXIMATELY 2400 DECIMAL LOCATIONS, AND IS LOADED BY THE SIGMA 2 STAND ALONE RELOCATABLE LOADER MODEL NO. 704453

BCM SYMBOL ASSEMBLER 704990 SIGMA 2/3

AUTHOR: XEROX

AUTHOR: XEROA
ABSTRACT:
SYMBOL IS THE BASIC ASSEMBLER UNDER THE BCM. IT IS BOTH A PROGRAMMING LANGUAGE AND A LANGUAGE
PROCESSOR. THE SYMBOL PROCESSOR ACCEPTS AS INPUT A PROGRAM CODED IN THE SYMBOL LANGUAGE.PROCESSES IT.
AND OUTPUTS A BINARY OBJECT PROGRAM AND AN ASSEMBLY LISTING.

SYMBOL RUNS UNDER CONTROL OF THE BCM. CONFIGURATION: STANDARD BCM REQUIREMENTS, HITH APPROXIMATELY 3522 DECIMAL CELLS OF BACKGROUND SPACE. BCM IDENTIFICATION: SYMBOL.

BOOT STRAP AND ABSOLUTE LOADER GENERATOR 705264 SIGMA 2

AUTHOR: XEROX

AUTHOR: XENUX
ABSTRACT:
PUNCHES SHORT ABSOLUTE PROGRAM CAPABLE OF BEING LOADED HITH THE STANDARD BOOT STRAP PROCEDURE HHICH CAN
LOAD INTO CORE STANDARD ABSOLUTE SYMBOL BINARY OUTPUT. CHECK SUMMING AND SEQUENCE CHECKING FEATURES ARE
INCLUDED. LOAD LOCATION OF THE LOADER IS DETERMINED AT THE SOURCE LEVEL.

SIZE: APPROXIMATELY 125 HEXTAL CELLS. OUTPUT FORMAT: STANDARD ABSOLUTE STAND-ALONE SYSTEMS OPERATIONS MANUAL (9010478). BCM IDENTIFICATION: GEN STANDARD ABSOLUTE, AS DESCRIBED IN THE SIGMA 2

STAND-ALONE CONCORDANCE SIGHA 2 705294

AUTHOR: XEROX

ABSTRACT:

STRACT:
THE SIGMA-2 STAND-ALONE CONCORDANCE PROGRAM OPERATES UNDER THE STAND-ALONE SYSTEM AS DESCRIBED IN THE
STAND-ALONE OPERATIONS MANUAL NO.90-10-47 THE CONCORDANCE PROGRAM PROVIDES THE USER HITH A LISTING OF
THE PROGRAM SYMBOLS, AND, BY LINE NUMBER, ALL REFERENCES TO THESE SYMBOLS FOR ANY COMPATABLE SYMBOL
PROGRAM. THREE OPTIONAL CONTROL CARDS PERMIT INCLUSION OR EXCLUSION OF SPECIFIED SYMBOLS IN THE LOCAL,
NONLOCAL, OR OPERATION/DIRECTIVE CODE SECTIONS OF THE PRINTOUT. THE CONCORDANCE CONTROL CARDS AND
PRINTOUT FORMAT ARE DESCRIBED IN THE SIGMA-2 SYMBOL REFERENCE MANUAL NO.90-10-51

XEROX REAL-TIME BATCH MONITOR (RBM) SIGMA 2/3-530 705368

AUTHOR: XEROX ABSTRACT:

THIS CATALOG NUMBER IS USED TO ORDER THE BINARY ELEMENTS AND JOB CONTROL LANGUAGE REQUIRED TO SYSGEN AN RBM MONITOR AND LOAD THE RBM SERVICE PROCESSORS, XSYMBOL, BASIC FORTRAN IV AND THE BASIC FORTRAN IV LIBRARIES, AND THE SYMBIONT PLOTTER ROUTINES AND LIBRARIES. FOR MAGNETIC TAPE, ELEMENTS (-86,-85) THE BLOCKED/COMPRESSED LISTINGS ARE AVAILABLE FOR THE RBM MONITOR AND RBM SERVICE PROCESSORS. THE EXPAND SERVICE PROCESSOR IS USED TO DERIVE EITHER SOURCE OR LISTINGS FROM THE BLOCKED/COMPRESSED LISTINGS. SOURCE AND LISTINGS FOR THE RBM LANGUAGE PROCESSORS AND LIBRARIES MUST BE ORDERED UNDER THEIR SEPARATE

705368 CONTINUED ON FOLLOHING PAGE

XEROX REAL-TIME BATCH MONITOR (RBM)

(CONTINUED)

CATALOG NUMBERS.

COMMENTS:
THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BASE LANGUAGE MAIN

705369 SIGMA 2/3-530 AUTHOR: XEROX

XEROX REAL-TIME BATCH MONITOR (RBM)

SSTRACT:

RBM PROVIDES AN OPERATING ENVIRONMENT HHICH ALLOHS BACKGROUND PROCESSING HHILE REAL-TIME TASKS (resident or non-resident) are executed in the foreground. Through an integral softhare/hardhare design the full poher of the priority interrupt system is available to real-time programs providing rapid response to external events. Background processing is allohed to absorb any unused foreground cru time and through use of the memory protection feature is prevented from interfering hith any foreground operation. A generalized I/O driver provides efficient I/O services for most xerox peripherals. COMMENTS:

THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BASE LANGUAGE MAIN

PROGRAM IS MRITTEN IN METASYMBOL.

RELEASE ELEMENTS FOR RBM AND ITS SERVICE PROCESSORS ARE ORDERED UNDER THE RBM COVER NUMBER 705368.

RELATED RBM LANGUAGE PROCESSORS ARE BASIC FORTRAN IV, ANS FORTRAN, XSYMBOL, RPG AND SORT, WHICH ARE ORDERED UNDER THE INDIVIDUAL LANGUAGE PROCESSOR CATALOG NUMBERS.

705371

SIGMA 2/3

RRM RAD FOLLOW

AUTHOR: XEROX

ABSTRACT:

THE SIGMA ? RAD EDITOR IS A BACKGROUND PROCESSOR WHICH OPERATES UNDER CONTROL OF THE RBM. IT CONTROLS THE SIGHAL'S HAD BUTTOR IS A BACKBOOND PROCESSOR WHICH DEPARTS UNDER CONTROL OF THE RBM. IT CONTROLS RAD ALLOCATION BY GENERATING AND MAINTAINING DIRECTORIES FOR ALL PERMANENT FILES. THROUGH CONTROL COMMAND INPUT THE EDITOR CAN: 1.ADD OR DELETE ENTRIES IN PERMANENT FILE DIRECTORIES. 2.COPY DATA FROM ONE RAD FILE INTO ANOTHER 3.MAINTAIN LIBRARY AREAS ON RAD FOR USED BY THE OVERLAY LOADER 4.COPY AN OBJECT MODULE CONTAINED IN A LIBRARY 5.MAP RAD FILE ALLOCATION 6.DUMP RAD FILES 7.SAVE THE CONTENTS OF THE RAD(S) IN A SELF-RELOADABLE FORM.

THE SIGMA 2 RAD EDITOR IS A BACKGROUND PROCESSOR WHICH OPERATES UNDER THE RBM. THE RBM OVERLAY LOADER IS REQUIRED TO LOAD THE RAD EDITOR. THE RAD ÉDITOR CONSISTS OF A ROOT SEGMENT PLUS 15 OVERLAY SEGMENTS.

705372

SIGMA 2/3-530

RBM EXTENDED SYMBOL

AUTHOR: XEROX ABSTRACT:

BSTRACT:

EXTENDED SYMBOL, THE EXTENDED ASSEMBLY SYSTEM FOR SIGMÁ 2/3 COMPUTERS IS BOTH A PROGRAMMING LANGUAGE AND
A LANGUAGE PROCESSOR. THE EXTENDED SYMBOL PROCESSORS ACCEPTS AS INPUT A SOURCE PROGRAM CODED IN EITHER
SYMBOL (SIGMA 2/3 BASIC ASSEMBLY LANGUAGE) OR EXTENDED SYMBOL, PROCESSES IT, AND OUTPUTS A PROGRAM LOAD
MODULE, DIAGNOSTIC MESSAGES, ASSEMBLY LISTINGS, SYMBOL TABLE SUMMARY, AND A SYMBOL TABLE CROSS-REFERENCE

705373

SIGMA 2/3

RBM UTILITIES SUBSYSTEMS AND DEBUG ROOT

AUTHOR: XEROX ABSTRACT:

STRACT:
THE RBM UTILITY SUBSYSTEM IS A BACKGROUND PROCESSOR. IT CONSISTS OF AN EXECUTIVE HHICH CONTROLS THE
OPERATIONS OF THE SUBSYSTEM AND FIVE UTILITY SUBROUTINES WHICH PERFORM THE FOLLOWING FUNCTIONS: 1.
COPY-PROVICES THE ABILITY TO COPY VARIABLE LENGTH EBCDIC OR BINARY RECORDS FROM ONE DEVICE TO ANOTHER.
2. RECEDIT-PROVIDES THE ABILITY TO UPDATE SOURCE BY LINE NO. 3. OMEDIT-PROVIDES THE ABILITY TO HAINTAIN
LIBRARIES OF STANDARD SIGMA 2 OBJECT MODULES. 4. DUMP- PROVIDES THE ABILITY TO DUMP THE CONTENTS OF AN
INPUT DEVICE IN HEXIDECIMAL OR EBCDIC. 5. SEGEDIT-PROVIDES THE ABILITY TO UPDATE SOURCE INPUT BY SEQUENCE NUMBER.

THE RBM UTILITY SUBSYSTEM OPERATES UNDER CONTROL OF THE RBM IT REQUIRES THE RBM OVERLAY LOADER TO BE LOADED, AND CONSISTS OF A ROOT SEGMENT (THE EXECUTIVE) PLUS 5 OVERLAYS (THE UTILITY ROUTINES).

705374

SIGMA 2/3

RBM CONCORDANCE

AUTHOR: XEROX ABSTRACT:

THIS PROGRAM LISTS IN ALPHABETICAL ORDER SYMBOLS APPEARING IN A SYMBOL OR EXTENDED SYMBOL PROGRAM, AND THE LINE NUMBER AT WHICH THAT SYMBOL APPEARS. DIFFERENTIATION IS MADE BETWEEN SYMBOLS APPEARING IN LOCAL OR NONLOCAL REGIONS, OR DIRECTIVE, AND LABEL-OPERAND FIELDS. SEGEMENTS OF THE LISTED OUTPUT REFLECT THESE DIFFERENCES. THE DIFFERENT OUTPUT SEGMENTS ARE: 1.LOCAL 2.NONLOCAL 3.PROC-OPCODE THROUGH USE OF THE CONCORDANCE CONTROL CARDS, ANY SYMBOL APPEARING IN THE LOCAL, NONLOCAL OR OPCODE SECTIONS CAN BE INCLUDED OF EXCLUDED FROM THE LISTING OUTPUT. ALL NON-STANDARD OPCODES, HOWEVER, HILL BE INCLUDED IN THE PROC SECTION. COMMENTS:

SIZE:2191 (DECIMAL). DESIGNED FOR 32K OR LESS RBM CONFIGURATION.

705375

SIGNA 2/3

RBM BASIC FORTRAN IV COMPILER

AUTHOR: XEROX

ABSTRACT:

PROVIDES SIGMA 2 OBJECT LANGUAGE FROM BASIC FORTRAN IV SOURCE STATEMENTS. GENERATES RELOCATABLE, RE-ENTRANT MODULES.

705546 S1GMA 2/3 NUMERICAL SUBROUTINE PACKAGE (COVER)

AUTHOR: XEROX

ABSTRACT:

THIS PACKAGE IS DESIGNED TO RUN UNDER SIGMA 2 RBM. THESE ROUTINES ARE DESIGNED TO BE USED BY THE SCIENTIFIC USER FOR PROGRAMS WRITTEN IN EITHER XDS BASIC FORTRAN IV OR EXTENDED SYMBOL LANGUAGES.

UPITENTS: THIS PACKAGE CONTAINS 103 ROUTINES. ALL BUT ONE HERE HRITTEN IN XDS SIGMA 2 BASIC FORTRAN IV. ONE ROUTINE, RANDU, HAS HRITTEN IN SIGMA 2 EXTENDED SYMBOL.

705719

SIGMA 2/3-530

C.O.C. HANDLER (RCOC)

AUTHOR: XEROX ABSTRACT:

STRACT:

RCOC IS A REAL-TIME TASK CONNECTED TO THE INPUT AND OUTPUT INTERRUPTS OF THE CHARACTER-ORIENTED

COMMUNICATIONS CONTROLLER, 7611. RCOC HILL TRANSLATE ASCII TO EBCDIC TO ASCII, PERFORM EDITING AND HILL

OPERATE ON HALF OR FULL DUPLEX LINES. RCOC HILL SUPPORT TELETYPE MODELS 33, 35, AND 37. OTHER

TERMINALS MAY BE USED BUT THE USER MUST PERFORM ALL SPECIAL EDITING HIMSELF.

THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS 1/0 HANDLER. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.
RCOC MUST OPERATE IN AN RBM ENVIRONMENT. RELEASE ELEMENTS ARE ORDERED UNDER THE RBM COVER CATALOG

NUMBER 705368.

705780

SIGMA 2/3-530

SYMBIONT PLOTTING SYSTEM

AUTHOR: XEROX

ABSTRACT: BSTRACT:
HITH THIS SYSTEM, A NORMALLY I/O BOUND PLOT JOB IS NO LONGER I/O BOUND. THE PLOT JOB RUNS AT COMPUTE
SPEED AND DOES NOT HAIT FOR PLOTTER I/O. THE PLOT DATA IS SAVED ON THE RAD AND IS COPIED TO THE PLOTTER
BY A FOREGROUND PROGRAM. AFTER THE PLOT JOB IS TERMINATED, OTHER JOBS (INCLUDING PLOT JOBS UNLESS THE
RAD FILE IS FULL) MAY BE RUN WITH LITTLE INTERFERENCE FROM THE FOREGROUND PROGRAM.

THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL. RELEASE ELEMENTS ARE AVAILABLE UNDER THE RBM COVER CATALOG NUMBER 705368.

RBM BSC PROCEDURAL HANDLER

706149 SIGMA 2/3 RBM BSC AUTHOR: XEROX, HESTERN TECHNOLOGY CENTER

ABSTRACT

THIS HANDLER IS INTENDED FOR FORTRAN, SYMBOL, OR EXTENDED SYMBOL FOREGROUND USERS OPERATING UNDER THE SIGMA 2/3 RBM OPERATING SYSTEM TO ASSIST IN COMMUNICATION WITH FACILITIES CONNECTED TO CC32A'S USING BINARY SYNCHRONOUS COMMUNICATIONS PROCEDURES.

OMMENTS:
THIS HANDLER REQUIRES THE SIGMA 2/3 RBM HANDLER FOR MESSAGE ORIENTED COMMUNICATIONS DEVICES (PROGRAM 706255). PROGRAM SIZE IS 2116 HORDS INCLUDING CRC REMAINDER TABLE AND TRANSLATION TABLES, SOURCE LANGUAGE IS EXTENDED SYMBOL. TO CHANGE INSTALLATION DEPENDENT PARAMATERS, THE SOURCE CARDS HUST BE DECOMPRESSED (USE PROGRAM 706239 RECON TO DECOMPRESS SOURCE).

706244

SIGMA 2/3

SIGHA 2/3 COI/DOO SAVE PROGRAM

AUTHOR: XEROX ABSTRACT:

THIS PROGRAM HRITES THE USER AREAS (UP, UD, UL) OF A COI RBM SYSTEM ON MAGNETIC TAPE IN A FORMAT ACCEPTABLE TO DOO RAD EDITOR.

REQUIRES SIGMA 2/3 RBM PLUS I MAGNETIC TAPE UNIT.

706254

XEROX DISPLAY STATION PROCEDURAL HANDLER SIGMA 2/3

AUTHOR: XDS. HESTERN TECHNOLOGY CENTER

ABSTRACT:

PROVIDES COMMUNICATION THROUGH CC32B'S TO XEROX DISPLAY STATIONS FOR SIGMA 2/3 RBM USERS' PROGRAMS HRITTEN IN FORTRAN (EXTENDED PRECISION ONLY), SYMBOL, AND EXTENDED SYMBOL.

DMMENTS:
THIS HANDLER REQUIRES THE SIGMA 2/3 RBM HANDLER FOR MESSAGE ORIENTED DEVICES. THE CORE REQUIREMENT FOR
THIS PROCEDURAL HANDLER IS APPROXIMATELY 2400 LOCATIONS. SOURCE LANGUAGE IS EXTENDED SYSMBOL. A NUMBER
OF PARAMETERS ARE INSTALLATION DEPENDENT AND HILL PROBABLY HAVE TO BE CHANGED. SINCE THE SOURCE CARDS
ARE COMPRESSED, THE USER MUST ORDER THE FOLLOHING PROGRAM NUMBER TO DECOMPRESS THE SOURCE CARDS AND THEN
MAKE HIS CHANGES: 706239 - RECON.

706255

S SIGMA 2/3-530 MESSAGE ORIENTED COMM. DEVICE HANDLER AUTHOR: XEROX CORPORATION, HESTERN TECHNOLOGY CENTER

ABSTRACT:

THE MOCD HANDLER IS A FOREGROUND PROCESSOR TO BE USED UNDER RBM. BY ASSEMBLY LANGUAGE FOREGROUND TASKS, THROUGH PROCEDURAL HANDLER(S), FOR COMMUNICATING HITH ANY DEVICE CONNECTED TO THE CPU THROUGH ONE OR MORE OF THE XEROX MESSAGE ORIENTED COMMUNICATIONS CONTROLLERS (CC32, CC33, C11, 7601-7805). IT PROVIDES QUEUEING OF I/O REQUESTS, DYNAMIC MEMORY ALLOCATION FOR DATA BUFFERS, TIME INTERVAL SCHEDULING OF USER'S ROUTINES, NO HAIT I/O, SIMULTANEOUS SERVICE FOR MULTIPLE USERS.

COMMENTS:

THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS HANDLER. BASE LANGUAGE MAIN PROGRAM

INIS PRUGRAM WILL KUN UNDER REM OPERATING STSTEM. PROGRAM THE IS MANUER. SASE EMBOURE THAT IS HRITTEN IN SYMBOL.

REQUIRES A PROCEDURAL HANDLER ORIENTED TO A SPECIFIC PROTOCOL (E.G., BISYNC OR BC 100/200 DISPLAY). THE
USER MAKES CALLS ON THE PROCEDURAL HANDLER WHICH, IN TURN, CALLS THE MOCD HANDLER. RESIDENT - REQUIRES
1105 HORDS (FOR HALF DUPLEX MODE ONLY) TO 1255 HORDS OF CORE, EXCLUSIVE OF QUEUES AND DATA BUFFERS. A
NUMBER OF ASSEMBLY PARAMETERS ARE INSTALLATION DEPENDENT.

REPRINT 75.02

PAGE 4 - 01/31/75

706257 SIGMA 2/3-530 XEROX 530 DISK SORT AUTHOR: XEROX CORPORATION

ABSTRACT:

THE XEROX 530 DISK SORT PROVIDES THE USER WITH A POWERFUL TOOL FOR THE RE-ORDERING OF DATA FILES. THE XEROX 530 DISK SORT PROVIDES THE USER HITH A POHERFUL TOOL FOR THE RE-ORDERING OF DATA FILES. RECORD KEYS MAY BE ALPHANUMERIC, BINARY, FLOATING POINT, ZONED OR PACKED DECIMAL. SIXTEEN KEYS MAY BE SORTED IN ASCENDING OR DESCENDING SEQUENCE. FILES ARE USER FORMATTED AND MAY BE BLOCKED OR UNBLOCKED FIXED, OR UNBLOCKED VARIABLE IN STRUCTURE. LINKAGES TO AND FROM USER-HRITTEN SUBROUTINES ARE PROVIDED FOR PROCESSING FILE LABELS AND FOR MODIFYING AND/OR DELETING RECORDS. RECORD ADDRESS FILES (ADDROUT ARE PRODUCED BY SORT FOR USE BY RPG.

COMMENTS

THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE

THIS PROGRAM HILL RUN UNDER ROBH DEPRATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL. XEROX 530 DISK SORT OPERATES ON A XEROX 530 OR SIGMA 3 COMPUTER AS A BACKGROUND PROCESSOR UNDER THE RBM OPERATING SYSTEM. IT REQUIRES A MINIMUM OF 8K HORDS OF CORE STORAGE EXCLUSIVE OF MONITOR STORAGE REQUIREMENTS, BUT HILL DYNAMICALLY ADJUST TOURNAMENT AND BUFFER SIZES TO TAKE ADVANTAGE OF ANY ADDITIONAL CORE THAT MIGHT BE AVAILABLE. THO DISKPACKS (OR RADS) SIGNIFICANTLY IMPROVE SORT PERFORMANCE OVER THE MINIMUM ONE REQUIRED FOR INTERMEDIATE HORK FILE STORAGE.

706275 SIGMA 2/3-530 RBM REPLACE

AUTHOR: XEROX

ABSTRACT:

REPLACE RUNS AS A BACKGROUND PROCESSOR UNDER RBM. ITS PURPOSE IS TO REPLACE RBM'S OVERLAYS HHICH NORMALLY CAN ONLY BE ACCOMPLISHED BY SYSGEN. IT OPTIONALLY REPLACES OVERLAYS TEMPORARILY (UNTIL REBOOTING) SO THAT TESTING MAY BE ACCOMPLISHED HITHOUT LOSS OF SYSTEM. COMMENTS:

THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL RELEASE ELEMENTS ARE ORDERED UNDER THE RBM CATALOG NUMBER 705368.

SIGMA 2/3-530 ANS FORTRAN IV

AUTHOR: XEROX CORPORATION ABSTRACT:

ANS FORTRAN IV IS A SUPERSET OF ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE) FORTRAN, AND, AS SUCH, ANS FORTRAN IV IS A SUPERSET OF ANSI SPECIFICATION X3.9-1966. THE SYSTEM CONSISTS OF A COMPILER AND AN ASSOCIATED RUN-TIME LIBRARY. THE CODE PRODUCED BY THE COMPILER, AND THAT CONTAINED HITHIN THE LIBRARY, IS USABLE IN EITHER FOREGROUND OR BACKGROUND ENVIRONMENTS. THE COMPILER, THE CODE PRODUCED BY THE COMPILER, AND THE CODE CONTAINED WITHIN THE LIBRARY, ARE COMPATIBLE WITH THE 530 AND SIGMA 2/3 REAL-TIME BATCH MONITOR (RBM).

COMMENTS

THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE
MAIN PROGRAM IS WRITTEN IN EXTENDED SYMBOL. ANS FORTRAN IV REQUIRES A 530 OR SIGMA 2/3 WITH RBM (E02
VERSION OR LATER), HITH AT LEAST 8.5K OF BACKGROUND. IN-LINE SYMBOLIC OR OBJECT LISTINGS REQUIRE A
BACKGROUND OF AT LEAST 9.5K HORDS. IN ORDER TO ASSEMBLE THE COMPILER, THE MINIMUM BACKGROUND ALLOCATION
IS 18K HORDS. ALTHOUGH NOT REQUIRED, IT IS RECOMMENDED THAT SIGMA 3 SYSTEMS BE EQUIPPED HITH HARDHARE
MULTIPLY/DIVIDE. 530 SYSTEMS HITH FLOATING POINT HARDHARE SHOULD USE CATALOG NUMBER 708483.

SIBMA 2/3-530 XEROX REPORT PROGRAM GENERATOR (RPG 11)

AUTHOR: XEROX CORPORATION

ABSTRACT:

THE XEROX 530 RPG II COMPILER IS AN IMPLEMENTATION OF THE RPG II LANGUAGE DESIGNED TO BE COMPATIBLE WITH THE MAJORITY OF OTHER RPG II PROCESSORS IN GENERAL USE THROUGH OUT INDUSTRY. RPG II IS A HIGHLY FLEXIBLE AND CONVENIENT LANGUAGE DESIGNED TO SOLVE COMMERCIAL DATA PROCESSING PROBLEMS. SOLUTIONS ARE CODED ON A SERIES OF SPECIFICATION FORMS. XEROX 530 RPG II OPERATES UNDER CONTROL OF THE REAL-TIME BATCH MONITOR (RBM).

COMMENTS:

THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS COMMERCIAL PROCESSOR. BASE LANGUAGE

MAIN PROGRAM IS HRITTEN IN METASYMBOL.
FEATURES OF RPG II INCLUDE: ARRAY PROCESSING, DEBUGGING AIDS, BIT PROCESSING CAPABILITIES, BINARY DATA FORMATS, COMPILE TIME TABLE AND ARRAYS AND A CROSS REFERENCE LISTING.

706448 S13MA 2/3 INDUMP

AUTHOR: B. HAGERBAUMER, XEROX

ABSTRACT:
INDUMP IS A STAND ALONE DUMP PROGRAM WHICH OPERATES IN CONJUNCTION WITH RBM BUT DOES NOT REQUIRE IT TO BE OPERABLE.

GENERAL DESCRIPTION IN RBM 2/3 REFERENCE MANUAL - APPENDEX M.

706463 XEROX 530 ANS FORTRAN IV

AUTHOR: XEROX CORPORATION ABSTRACT:

ANS FORTRAN IV IS A SUPERSET OF ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE) FORTRAN, AND, AS SUCH, SURPASSES THE REQUIREMENTS IMPOSED BY ANSI SPECIFICATION X3.9-1966. THE SYSTEM CONSISTS OF A COMPILER, AND AN ASSOCIATED RUN-TIME LIBRARY. THE CODE PRODUCED BY THE COMPILER, AND THAT CONTAINED HITHIN THE LIBRARY, IS USEABLE IN EITHER FOREGROUND OR BACKGROUND ENVIRONMENTS. THE COMPILER, THE CODE PRODUCED BY THE COMPILER, AND THE CODE CONTAINED HITHIN THE LIBRARY ARE COMPATIBLE HITH THE 530 REAL-TIME MONITOR (RBM)

COMMENTS THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

706463 CONTINUED ON FOLLOHING PAGE

ANS FORTRAN IV

ANS FORTRAN IV

ANS FORTRAN IV REQUIRES A 530 HITH RBM (E02 VERSION OR LATER), WITH AT LEAST 8.5K OF BACKGROUND.

IN-LINE SYMBOLIC OR OBJECT LISTINGS REQUIRE A BACKGROUND OF AT LEAST 9.5K HORDS. IN ORDER TO ASSEMBLE THE COMPILER, THE MINIMUM BACKGROUND ALLOCATION IS 18K HORDS. FLOATING POINT HARDHARE IS REQUIRED. FOR 530 SYSTEMS HITHOUT FLOATING POINT HARDHARE, USE CATALOG NUMBER 708277.

706464

SIGMA 2/3-530

RBM ANALYZE

AUTHOR: XEROX CORPORATION

ANALYZE PROVIDES THE CAPABILITY TO OBTAIN A FORMATTED REPRESENTATION OF THE INTERNAL STATE OF MAJOR RBM SYSTEM TABLES AND CONTENTS OF MEMORY. INPUT MAY BE FROM EITHER A SYSERR DUMP ON MAGNETIC TAPE OR ON THE CHECKPOINT AREA, OR MAY BE FROM THE RUNNING MONITOR ITSELF. ARSTRACT:

COMMENTS:

THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

706491

SIGMA 3-530

XEROX SATELLITE PROCESSOR

AUTHOR: XEROX CORPORATION

STIMACT:
THE XEROX SATELLITE PROCESSOR PROVIDES XEROX 530 OR SIGMA 3 COMPUTER SITES HITH A CAPABILITY FOR HIGH-SPEED TELECOMMUNICATIONS HITH OTHER HOST REMOTE COMPUTER SYSTEMS. OPERATING UNDER EITHER XEROX 530 OR SIGMA 3 RBM, THE XEROX SATELLITE PROCESSOR PERHITS COMMUNICATION HITH ANY HOST XEROX COMPUTER RUNNING UNDER THE CONTROL PROGRAM FIVE (CP-V) OPERATING SYSTEM, OR NON-XEROX HOST COMPUTERS IN ACCORDANCE HITH THE HASP MULTILEAVING PROTOCOL. ABSTRACT:

THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN EXTENDED SYMBOL.
THIS IS A RESTRICTED PROGRAM AND IT REQUIRES SPECIAL AUTHORIZATION TO ORDER 1T.

706500

XEROX 530 ANS COBOL COMPILER

0 SIGMA 3-530 AUTHOR:XEROX CORPORATION

AUTHOR:XEROX CORPORATION

ABSTRACT:

XEROX 530 ANS COBOL OFFERS A POHERFUL AND CONVENIENT PROGRAMMING LANGUAGE FOR IMPLEMENTATION OF BUSINESS
OR COMMERCIAL APPLICATIONS. XEROX 530 ANS COBOL IS A SUBSET OF THE 1974 AMERICAN NATIONAL STANDARD
OR COMMERCIAL APPLICATIONS. XEROX 530 ANS COBOL IS A SUBSET OF THE 1974 AMERICAN NATIONAL STANDARD
COBOL STANDARD AND CONTAINS THE FOLLOHING MODULES IMPLEMENTED AT THE FIRST LEVEL: NUCLEUS, TABLE
HANDLING, SEQUENTIAL 1-0, RELATIVE 1-0, INDEXED 1-0, (INDEXED SEQUENTIAL ACCESS METHOD), INTER-PROGRAM
COMMUNICATION (LINKAGE, CALL), LIBRARY AND DEBUG. ADDITIONAL CAPABILITIES HAVE BEEN PROVIDED FOR THE
USER IN THE FORM OF PROGRAMMING AIDS SUCH AS A CROSS REFERENCE LISTING, DATA HAP AND A DIAGNOSTIC AND
USER IN THE FORM OF PROGRAMMING AIDS SUCH AS A CROSS REFERENCE LISTING, DATA HAP AND A DIAGNOSTIC AND
(OPTIONAL) OBJECT PROGRAM LISTING INTERSPERSED HITH SOURCE LANGUAGE STATEMENTS. ALSO INCLUDED ARE
SELECTED LEVEL 2 EXTENSIONS OF THE NUCLEUS MODULE. THREE LEVELS OF INDEXING OR SUBSCRIPTING ARE PERMITTED IN USER PROGRAMS.

COMMENTS:

OMMENTS:
THIS PROGRAM HILL RUN UNDER RBM-18 OPERATING SYSTEM. PROGRAM TYPE IS COMMERCIAL PROCESSOR. BASE
LANGUAGE MAIN PROGRAM IS HRITTEN IN EXTENDED SYMBOL. XEROX 530 COBOL CAN PROCESS DATA IN EBCDIC, PACKED
DECIMAL OR BINARY FORM. BINARY ITEMS MAY BE 1, 2 OR 4 WORDS IN LENGTH. THE PROGRAMMER CAN COPY SOURCE
STATEMENTS FROM A USER LIBRARY INTO HIS PROGRAM VIA THE COPY LIBRARY FUNCTION. SEPARATELY COMPILED
SUBPROGRAMS CAN BE OVERLAYED USING MONITOR OVERLAY SERVICES. 530 COBOL REQUIRES 16K HORDS OF BACKGROUND
FOR COMPILATION. USER OBJECT PROGRAMS CAN EXECUTE IN BACKGROUND OR FOREGROUND. COBOL IS FILE
COMPATIBLE HITH 530 RPG II AND 530 DISK SORT. SOURCE STATEMENTS FOR THE COBOL COMPILER SYSTEM ARE
AVAILABLE BY MARKETING FIELD REQUESTS ONLY.

6 SIGMA 2/3-530 AUTHOR:XEROX CORPORATION

UNLABELED SOFTHARE SUPPORT TAPE (SST)

AUTHOR:XEROX CORPORATION

ABSTRACT:
THE SST TAPE CONTAINS MAINTENANCE RELEASES OF 18 AND 32 BIT RBM, CP-R AND THEIR ASSOCIATED LANGUAGE
PROCESSORS. FOR EACH SUCH PRODUCT, THERE IS A CORRESPONDING INFORMATION FILE THAT CONTAINS A LIST OF
ALL SIDRS CLOSED SUBSEQUENT TO THE LAST MAJOR RELEASE AS HELL AS OTHER INFORMATION PERTINENT TO THAT
ALL SIDRS CLOSED HHERE APPROPRIATE, THERE IS A TEST CASE THAT CAN BE USED TO INSURE A SUCCESSFUL LOAD.
PRODUCTS HHOSE SOURCE IS INCLUDED AS AN ELEMENT IN THE MAJOR RELEASE HILL HAVE AN ADDITIONAL FILE
CONTAINING SI UPDATES.

THE SST TAPE IS MAINTAINED BY FIELD ENGINEERING SOFTHARE SUPPORT. THE SST DISTRIBUTION IS NORMALLY LIMITED TO XEROX FIELD ENGINEERING OFFICES.

THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS MISC.
THE FIRST THREE FILES ON THE SST ARE FILES RELATIVE TO THE TAPE USAGE. FILE 1 IS TABLE OF CONTENTS;
FILE 2 IS USAGE INSTRUCTIONS; FILE 3 IS DISTRIBUTION LISTS.

704005 SIGMA 2/3 GRAPH PLOTTER HANDLER (PLOT) AUTHOR: XEROX

ABSTRACT:

SUBROUTINE TO PRODUCE LINEAR MOTION FROM ONE PLOTTER POSITION TO ANOTHER.

PROGRAM OPERATES ON ANY SIGMA 2 COMPUTER WITH XDS 7530 GRAPH PLOTTER. CORE RESIDENY IS 179 WORDS.

SIGMA 2 704028 COMMAND SYS II. SECT 1-MESSAGE PROCESSOR

AUTHOR: XEROX ABSTRACT:

THIS PROGRAM IS ONE SEGMENT OF COMMAND SYSTEM II DESCRIBED IN APPLICATIONS PROGRAM MANUAL 980272

MESSAGE PROCESSOR SECTION

704034 SIGMA 2 COMMAND SYS II, SECT 3-TONE/DIGITAL TAPE AUTHOR: XEROX

ABSTRACT:
THIS PROGRAM IS ONE SEGMENT OF COMMAND SYSTEM II DESCRIBED IN APPLICATIONS PROGRAM MANUAL 980272

TONE AND TONE DIGITAL TAPE INPUT SECTION

COMMAND SYS II.SECT 6-10 CONTROL/UTILITY 704037 SIGMA 2

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM IS ONE SEGMENT OF COMMAND SYSTEM II DESCRIBED IN APPLICATIONS PROGRAM MANUAL 980272 COMMENTS:

INPUT OUTPUT CONTROL AND UTILITY SECTION

704038 SIGMA 2 COMMAND SYS I ,SECT 1- UTILITY AND IO

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM IS ONE SEGMENT OF COMMAND SYSTEM I DESCRIBED IN APPLICATIONS PROGRAM MANUAL 980271

UTILITY AND INPUT OUTPUT SECTION

704056 SIGHA 2 COMMAND SYS I .SECT 2-SHITCH LIGHT CHTRL

AUTHOR: XEROX ABSTRACT:

THIS PROGRAM IS ONE SEGMENT OF COMMAND SYSTEM I DESCRIBED IN APPLICATIONS PROGRAM MANUAL 980271

SHITCH LIGHT CONTROL SECTION

704073 SIGNA 2 STAND-ALONE RAD HANDLER AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM DIVIDES THE RAD INTO THO SECTIONS ENABLING IT TO SIMULATE THO MAG TAPE UNITS. IT ALLOWS
READ/HRITE AND REHIND CONTROL OPERATIONS AND IS USED EXACTLY AS A MAG TAPE UNIT. IT MAS NO CAPABILITY
FOR PAGE EJECT, BACKSPACE FILE, BACKSPACE O RECORD, HRITE END OF FILE AND SPACE FILE FORWARD. THE SIZE OF
EACH SECTION IS DETERMINED BY A VALUE SET IN THE DATA SHITCHES BY THE USER. THE USER CAN EFFECTIVELY
HAVE ONLY ONE LARGE SECTION IF HE SO DESIRES. THIS PROGRAM CAN BE UTILIZED FOR ALL SIGMA 2 RAD UNITS. COMMENTS.

CONFIGURATION: SIGMA 2 STAND-ALONE CONFIGURATION PLUS A RAD.

704161 SIGMA 2 STAND-ALONE MATH LIBRARY (COVER)

AUTHOR: XEROX

COMMENTS:

ABSTRACT:

THE MATH LIBRARY CONTAINS 37 MATH AND ARITHMETIC SUBROUTINES HRITTEN IN ASSEMBLY LANGUAGE (SYMBOL) FOR THE SIGMA 2. THIS PROGRAM INCLUDES ROUTINES FOR TEMPORARY STORAGE ALLOCATION, ARGUMENT TRANSFER, AND ERROR REPORTING. THESE ROUTINES CAN BE UTILIZED BY SIGMA 2 ASSEMBLY LANGUAGE PROGRAMS, RUNNING UNDER THE STAND-ALONE SYSTEM. SUBROUTINE DESCRIPTIONS AND CALLING SEQUENCES ARE CONTAINED IN PROGRAM DESCRIPTION 704161-11.

THESE ROUTINES AREN'T REENTRANT, BUT THEY HILL BE SUPPLEMENTED BY A REENTRANT MATH LIBRARY HHICH HILL OPERATE UNDER SIGMA 2 BCM/RBM SYSTEMS. THERE HILL ALSO BE AN EXTENDED PRECISION MATH LIBRARY AVAILABLE UNDER RBM. THERE IS NO FORTRAN PROCESSOR AVAILABLE HITH HHICH TO USE THESE ROUTINES UNDER THE STAND-ALONE SYSTEM.

704183 SIGMA 2 DEBUG HITH TRACE

AUTHOR: XEROX

ABSTRACT:

DEBUG HITH TRACE OPERATES IN A STAND-ALONE ENVIRONENT USING U:10CS TO PERFORM INPUT/OUTPUT FUNCTIONS.

IS LOADED AS A RELOCATABLE MODULE AT THE SAME TIME A USER PROGRAM IS LOADED. SIGMA 2 STAND-ALONE DEBUG PROGRAMICATALOG. 704455) PLUS TRACE AND SNAPSHOT CAPABILITY.

THIS PROGRAM HILL RUN ON ANY SIGMA 2 CONFIGURATION WITH A MINIMUM OF 8K MEMORY AND REQUIRES 3040 DECIMAL LOCATIONS OF STORAGE.

COMMAND SYS 1, SECT 4-TELEMETRY AND TONES SIGMA 2 704209

AUTHOR: XEROX

ABSTRACT: THIS PROGRAM IS ONE SEGMENT OF COMMAND SYSTEM I DESCRIBED IN APPLICATIONS PROGRAM MANUAL 980271

COMMENTS: TELEMETRY AND TONES SECTION

REAL-TIME CLOCK 1 FOREGROUND DEMO 704342 SIGMA 2/3

AUTHOR: XEROX

ABSTRACT: THIS FOREGROUND TASK READS THE CONSOLE DATA SHITCHES EVERY TEN SECONDS AND OUTPUTS THE VALUE ON THE OC DEVICE. STANDARD BOM CONFIGURATION, REAL-TIME CLOCK 1, AND X'5E' OF FOREGROUND SPACE IS REQUIRED.

COMMAND SYS I ,SECT 5-TONES DIGITAL/FSK 14 SIGMA 2 AUTHOR: XEROX

ABSTRACT: THIS PROGRAM IS ONE SEGMENT OF COMMAND SYSTEM I DESCRIBED IN APPLICATIONS PROGRAM MANUAL 980271

TONES DIGITAL AND FSK SECTION

COMMAND SYS I .SECT 6-PROGRAM GENERATOR 704345 SIGMA 2

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM IS ONE SEGMENT OF COMMAND SYSTEM I DESCRIBED IN APPLICATIONS PROGRAM MANUAL 980271 COMMENTS: SYSTEM PROGRAM GENERATOR SECTION

COMMAND SYS 1 . SECT 7-DATA BASE OVERLAY SIGMA 2 704346

AUTHOR: XEROX

ABSTRACT: THIS PROGRAM IS ONE SEGMENT OF COMMAND SYSTEM I DESCRIBED IN APPLICATIONS PROGRAM MANUAL 980271

COMMENTS: DATA BASE OVERLAY SECTION

BCM BACKGROUND DEMONSTRATION PROGRAMS 704347 SIGMA 2/3

AUTHOR: XEROX

ABSTRACT: ISTRALT:
THIS CATALOG NUMBER IS A COVER NUMBER FOR BCM BACKGROUND DEMONSTRATION PROGRAMS. IT INCLUDES THE
FOLLOHING DEMO'S: BASIC FORTRAN COMPILATION DIAGNOSTICS BASIC FORTRAN MATH/RUN-TIME DIAGNOSTICS (HITH
DATA) BASIC FORTRAN FEATURES (HITH DATA) SYMBOL EXERCISER AND DEMONSTRATION SYMBOL ERROR DEMONSTRATION

S SIGHA 2/3 EXERCISER FOR CCS-20 DATA LINK AUTHOR: XEROX CORPORATION, DATA SYSTEM DIVISION 705365

ABSTRACT: STRACT:
THIS PROGRAM AIDS IN CHECKOUT AND SETUP OF CCS-20 DATA LINKS WHEN A SIGMA 2/3 IS THE ONLY MACHINE
AVAILABLE. THE SIGMA 2/3 ACTS AS BOTH THE TRANSMITTER & RECEIVER OF DATA. THE USER SPECIFIES THE
OPERATION OF THE PROGRAM BY THE SETTING OF THE CONSOLE DATA SHITCHES. THE PROGRAM REPORTS ERROR BY GOING
TO A HAIT STATE IN VARIOUS LOCATIONS OF THE PROGRAM

THE PROGRAM IS LOADED WITH AN ABSOLUTE BOOTSTRAP LOADER. ITS SIZE IS 278 HORDS. SOURCE LANGUAGE IS SIGNA

ANALOG REDUCTION REPORT GENERATOR SIGMA 2 705378

AUTHOR: XEROX

STRACT:
PROVIDES A MEANS OF RAPIDLY VIEHING OVERALL ANALOG SYSTEM PERFORMANCE. THIS SERVICE IS DONE THROUGH THE
USE OF THREE TYPES OF REPORTS. THEY ARE-LISTING IN A CHRONOLOGICAL ORDER OF EVERY VALUE TAKEN.
USE OF THREE TYPES OF REPORTS. THEY ARE-LISTING IN A CHRONOLOGICAL ORDER OF EVERY VALUE TAKEN.
CHANNEL NUMBER.
CHANNEL NUMBER. ABSTRACT:

COMMENTS:
SOURCE LANGUAGE:SYMBOL. CONFIGURATION:XDS SIGMA 2, 18K CORE THO MAG TAPES OR ONE MAG TAPE AND ONE MAD.
LINE PRINTER,KEYBOARD PRINTER,CARD READER

COMMAND SYS II. SECT 2-FSK TAPE INPUT 705666 SIGMA 2

AUTHOR: XEROX

THIS PROGRAM IS ONE SEGMENT OF COMMAND SYSTEM II DESCRIBED IN APPLICATIONS PROGRAM MANUAL 980272

COMMENTS: FSK TAPE INPUT SECTION

705667 COMMAND SYS I. SECT 3-DATA BASE LOADING SIGMA 2

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM IS ONE SEGMENT OF COMMAND SYSTEM I DESCRIBED IN APPLICATIONS PROGRAM MANUAL 980271 COMMENTS:

DATA BASE LOADING SECTION

A.C. ELECTRONICS DATA ACQUISTION 705729 SIGMA 2

AUTHOR: : XDS

ABSTRAC

CONVERTS ANALOG DATA AT 100 HZ RATE AND RECORDS THE DATA IN A FIXED FORMATE DIGITAL TAPE FOR REDUCTION.

705777 SIGMA 2/3 ROMBUST

AUTHOR: XEROX

ABSTRACT:
ROMBUST IS A UTILITY PROGRAM WHICH LISTS AN OBJECT PROGRAM (SIGMA 2/3 STANDARD OBJECT LANGUAGE) IN AN EASY TO READ FORMAT.

ROMBUST IS USEFUL IN CHECKING OUT PROCESSORS WHICH PRODUCE OBJECT PROGRAMS.

FORTRAN LIBRARY PROCEDURES 705779 AUTHOR: XEROX

ABSTRACT:

THIS PROCEDURE SYSTEM ALLOHS THE EXTENDED SYMBOL PROGRAMMER TO INTERFACE WITH THE FORTRAN LIBRARY ARITHMETIC AND I/O ROUTINES IN A SIMPLE, HIGHER LEVEL LANGUAGE. THE PROCEDURES AUTOMATICALLY GENERATE THE REQUIRED EXTERNAL REFERENCES, SUBROUTINE LINKAGES, AND ARGUMENT LISTS TO PROPERLY CALL THE INDICATED ROUTINE. COMMENTS:

COVER INCLUDES THO SOURCE PROGRAMS FOR CREATING BOTH A STANDARD AND AN EXTENDED PRECISION STANDARD PRO-CEDURE FILE. A PROGRAM IS ASSEMBLED IN EITHER PRECISION BY ASSIGNMENT OF 'S2' TO THE DESIRED FILE.

NON-STANDARD BCM COVER 705847 S13MA 2/3

AUTHOR: XEROK ABSTRACT:

SSTRACT:
THIS COVER NUMBER CONTAINS THREE NON-STANDARD VERSIONS OF THE SIGMA 2 BASIC CONTROL MONITOR (BCM). THEY
ARE: 1) RAD BCM, 2) RAD BCM HITH DEBUG, 3) BCM HITH DEBUG. RAD BCM IS A MODIFIED VERSION OF BCM HHICH
ALLOHS THE RESIDENT MONITOR AND ITS PROCESSORS TO BE STORED ON A RAD. IT DOES NOT ALLOH OPERATIONAL
LABELS TO BE ASSIGNED TO THE RAD; THEREFORE THE LIBRARY MAY NOT BE LOADED FROM THE RAD AND BI AND BO MAY
NOT BE PLACED ON THE RAD. THE SYSTEMS HITH DEBUG INCLUDE A DUMP TO DUMP THE MONITOR, FOREGROUND, OR
BACKGROUND UNDER OPERATOR CONTROL. IT ALSO ALLOHS MODIFICATION OF CORE THROUGH CONTROL COMMANDS.

DMENTS:

RAD BCM USES RAD ADDRESSES X'0000' - X'0100' RAD BCM REQUIRES FULL CCI TO BE REQUESTED AT SYSGEN AND IS

APPROXIMATELY 291 DECIMAL LOCATIONS LARGER THAN THE STANDARD BCM.

DEBUG REQUIRES THAT A FOREGROUND OPERATIONAL LABEL OF 'DO' BE ASSIGNED AND ADDS APPROXIMATELY 800

DECIMAL LOCATIONS TO THE SYSTEM IT IS INCLUDED WITH. THE BINARY FORM OF THIS SYSTEM

IS OBTAINED BY ASSEMBLING THE STANDARD BCM (704457) HITH THE DESIRED CONDITIONAL

ASSEMBLY SHITCHES EQUAL TO YES. TO ORDER THIS PRODUCT, SUBMITT A FIELD REQUEST

(FORM 1435) SPECIFYING THOSE OPTIONS DESIRED.

SIU 7915 HANDLER (EXT. PREC. FORTRAN) 705853 519MA 2/3

AUTHOR: XEROX

ABSTRACT:

PROVIDES ACCESS TO THE 7915 ANALOG INPUT CONTROLLER FOR THE FORTRAN USER UNDER THE RBM SYSTEM IN THE EXTENDED PRECISION MODE OF OPERATION. IT PROVIDES FOUR CALL STATEMENTS: 1-TO SET UP ANALOG INPUT OPERATIONS FOR LATER EXECUTION AND OPTIONALLY SPECIFY CHAINING OF OPERATIONS. 2-TO INITIATE THE PREVIOUSLY SET UP INPUT OPERATIONS AND OPTIONALLY RETURN IMMEDIATELY OR HAIT FOR COMPLETION OF INPUT OR SPECIFY A TASK TO BE TRIGGERED UPON COMPLETION OF INPUT. 3-TO TEST THE CONDITION OF A 7915. 4-TO TERMINATE INPUT OF A 7915. COMMENTS:

LOADED IN THE RBM SYSTEM AS PART OF THE PUBLIC LIBRARY WHERE IT OCCUPIES 378 LOCATIONS: SOURCE LANGUAGE IS SIGMA 2/3 EXTENDED SYMBOL. MODE OF OPERATION IS REENTRANT. ONE OF THE ROUTINES CONTAINS INSTALLATION DEPENDENT PARAMETERS AND SHOULD BE REASSEMBLED FOR EACH INSTALLATION.

SIH 7930/31 HANDLER (EXT. PREC. FORTRAN) 705855 SIGHA 2/3

AUTHOR: XEROX

ABSTRACT:

PROVIDES ACCESS TO THE 7930/31 DIGITAL I/O ADAPTER FOR THE FORTRAN USER UNDER THE RBM SYSTEM IN THE EXTENDED PRECISION MODE OF OPERATION. IT PROVIDES THREE CALL STATEMENTS: I-TO SET UP I/O OPERATIONS FOR LATER EXECUTION AND OPTIONALLY SPECIFY CHAINING OR LOOPING OF OPERATIONS. 2-TO PERFORM THE PREVIOUSLY SET UP I/O OPERATIONS. 3-TO MODIFY A VALUE GIVEN DURING SET UP THEN OUTPUT IT.

LOADED IN THE RBM SYSTEM AS PART OF THE PUBLIC LIBRARY WHERE IT OCCUPIES 222 LOCATIONS. SOURCE LANGUAGE IS SIGMA 2/3 EXTENDED SYMBOL. MODE OF OPERATION IS REENTRANT.

SIU 7930/31 HANDLER (STAND. PREC. FORTRAN) 705856 SIGMA 2/3

AUTHOR: XEROX

ABSTRACT:

BSTRACT:
PROVIDES ACCESS TO THE 7930/31 DIGITAL I/O ADAPTER FOR THE FORTRAN USER UNDER THE RBM SYSTEM IN THE
STANDARD PRECISION MODE OF OPERATION. IT PROVIDES THREE CALL STATEMENTS: 1-TO SET UP I/O OPERATIONS
FOR LATER EXECUTION AND SPECIFY ACTION TO BE TAKEN ON COMPLETION OF EACH OPERATION. 2-TO PERFORM THE
PREVIOUSLY SET UP I/O OPERATIONS. 3-TO MODIFY A VALUE GIVEN DURING SET UP THEN OUTPUT IT. COMMENTS:

LOADED IN THE RBM SYSTEM AS PART OF THE PUBLIC LIBRARY WHERE IT OCCUPIES 223 LOCATIONS. SOURCE LANGUAGE IS SIGNA 2/3 EXTENDED SYMBOL. MODE OF OPERATION IS REENTRANT.

CONTROL PROGRAM FOR E-H MEMORY TESTER 705880 SIGMA 2/3 AUTHOR: XEROX

ABSTRACT:

IMPLEMENTS ON SIGMA 2/3 THE CONTROL PROGRAM OF E H RESEARCH LABORATORIES,INC. FOR THE MODEL 8500 PLATED HIRE PLANE TEST.

COMMENTS: THE CORE REQUIREMENT IS APPROX. 8600 LOCATIONS. SOURCE LANGUAGE IS SIGMA 2/3 BASIC FORTRAN AND SYMBOL.

MOC CONTROLLER 7601 HANDLER 705895 SIGMA 2/3

AUTHOR: XDS - DATA SYSTEMS DIVISION

ABSTRACT:
PROVIDES A BASIC FORTRAN IV USER WITH ACCESS TO EXTERNAL DEVICES CONNECTED VIA A MODEL 7801 CONTROLLER OPERATING IN THE FULL DUPLEX MODE.

THIS PROGRAM IS CUSTOMIZED FOR EACH INSTALLATION. IT IS THEREFORE NECESSARY TO CONTACT THE APPICATIONS SECTION OF DATA SYSTEMS DIVISION FOR INSTALLATION CHARGES.

7923 SIU HANDLER (FORTRAN) 705898 SIGMA 2/3

AUTHOR: XDS - DATA SYSTEMS DIVISION

ABSTRACT:
THIS HANDLER IS A FORTRAN CALLABLE RE-ENTRANT ROUTINE WHICH PROVIDES ACCESS TO THE XDS ANALOG INPUT/
OUTPUT ADAPTOR, MODEL 7923 FROM THE RBM FOREGROUND.

COMMENTS: THE HANDLER MAY BE CALLED FROM A BACKGROUND PROGRAM PROVIDED IT IS LOADED IN THE RBM SYSTEM AS PART OF THE PUBLIC LIBRARY (SEE RBM REFERENCE MANUAL #901037C FOR DETAILS).

RAYTHEON RECORDER DEMO PROGRAM B SIGMA 3 RA AUTHOR:XDS — DATA SYSTEMS DIVISION 706108

ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO DEMONSTRATE THE PERFORMANCE OF THE RAYTHEON RECORDER AND CONTROLLER
WHEN IT OPERATES HITH THE BESSI SIGMA 3 COMPUTER

MARDHARE CONFIGURATION: SIGMA 3 COMPUTER, KEYBOARD PRINTER, CARD READER, COUNTER 1 REAL-TIME CLOCK RAYTHEON RECORDER AND CONTROLLER.

7910 SIU HANDLER (EXT.PREC.FORTRAN) SIGMA 2/3 706115

AUTHOR: XDS. DATA SYSTEMS DIVISION

ABSTRACT:

PROVIDES ACCESS TO THE 7910 ANALOG OUTPUT ADAPTOR FOR THE EXTENDED PROCISION FORTRAN USER UNDER RBM.
THREE CALLS ARE PROVIDED TO: 1-SET UP 1/0 TABLE FOR OUTPUT. 2-INITIATE OUTPUT TO THE 7910. 3-TEST CURRENT STATUS OF THE 7910.

COMMENTS: SOURCE LANGUAGE IS SIGMA 2/3 EXTENDED SYMBOL AND STORAGE SIZE IS 210 CELLS. MODE OF OPERATION IS REENTRANT. RBM SERVICE ROUTINE M:IOEX IS USED TO INITIATE OUTPUT AND TEST 7910 DEVICE STATUS. LOADEQ BY THE OVERLAY LOADER FROM EITHER THE 'GO' OP-LABEL OR FROM ANY OF THE RBM LIBRARIES.

6 SIGMA 2/3 79 AUTHOR:XDS, DATA SYSTEMS DIVISION 7910 SIU HANDLER (STD PREC FORTRAN) 706116

ABSTRACT:

PROVIDES ACCESS TO THE 7910 ANALOG OUTPUT ADAPTOR FOR THE STANDARD PRECISION FORTRAN USER UNDER RBM. THREE CALLS ARE PROVIDED TO: 1-SET UP 1/0 TABLE FOR OUTPUT. 2-INITIATE OUTPUT TO THE 7910. 3-TEST CURRENT STATUS OF THE 7910.

INTERNIS:
SOURCE LANGUAGE IS SIGMA 2/3 EXTENDED SYMBOL ANDSTORAGE SIZE IS 200 CELLS. MODE OF OPERATION IS
REENTRANT. RBM SERVICE ROUTINE M:LOEX IS USED TO INITIATE OUTPUT AND TEST 7910 DEVICE STATUS. LOADED BY
THE OVERLAY LOADER FROM EITHER THE 'GO' OP-LABEL OR FROM ANY OF THE RBM LIBRARIES.

7969 SIU HANDLER (FORTRAN)

3 SIGMA 2/3 79 AUTHOR:XDS - DATA SYSTEMS DIVISION

ABSTRACT: PROVIDES ACCESS TO THE 7969 FREQUENCY CONTROL SUBSYSTEM FOR THE FORTRAN (EXTENDED OR STANDARD PRECISION) USER UNDER RBM. THE USER SPECIFIES A FREQUENCY SOURCE UNIT AND A COUNT VALUE USED TO SET UP CLOCK PULSES AT THE DESIRED FREQUENCY.

COMMENTS: SOURCE LANGUAGE IS SIGMA 2/3 EXTENDED SYMBOL AND STORAGE SIZE IS 40 CELLS. ROUTINE IS REENTRANT AND CAN THUS EXECUTE FROM PUBLIC LIBRARY.

PAGE 4 - 01/31/75

SIGMA 2/3 7929 SIU HANDLER (EXT PREC FORTRAN) AUTHOR: XDS, DATA SYSTEMS DIVISION

ABSTRACT:

PROVIDES ACCESS TO THE 7929 IOP TO DIO ADAPTOR FOR THE EXTENDED PRECISION FORTRAN USER RUNNING UNDER RBM. THREE CALLS ARE PROVIDED WHICH ALLOW THE USER TO SET UP 1/0 TABLES, INITIATE 1/0, AND TEST STATUS OF THE 1/0 REQUEST. THE HANDLER CAN SET UP 1/0 OPERATIONS FOR A 7923 OR 7930 SIU CONNECTED TO THE 7929 DIOA INTERFACE. COMMENTS:

SOURCE LANGUAGE IS SIGMA 2/3 EXTENDED SYMBOL AND STORAGE SIZE IS 260 WORDS. RBM SERVICE ROUTINE M: 10EX IS USED TO PERFORM THE REQUIRED I/O AND STATUS CHECKING OPERATIONS; FORTRAN LIBRARY ROUTINES M: PUSH AND L: ERROR ARE USED FOR TEMP STORAGE MANAGEMENT AND ARGUMENT ERROR REPORTING. THE HANDLER IS REENTRANT AND MAY EXECUTE FROM THE PUBLIC LIBRARY.

SIGMA 2/3 RECON AUTHOR: XDS, HESTERN TECHNOLOGY CENTER 706239 RECON COMPRESSED TO SYMBOLIC CONVERTER

CONVERT A FILE OF COMPRESSED RECORDS (CARD IMAGES) TO A SYMBOLIC FILE. PROGRAM OPERATES UNDER CONTROL OF RBM OR BCM. PROGRAM WILL PROCESS DECKS EVEN THOUGH THERE ARE ERRORS IN THE COMPRESSED DECK SO THAT SYMBOLIC FILES MAY BE MADE FROM DAMAGED COMPRESSED DECKS.

1 SIGMA 2/3 RECON S. AUTHOR:XDS, HESTERN TECHNOLOGY DIVISION 706241 RECON S/A COMPRESSED TO SYMBOLIC CONVER.

ABSTRACT:

CONVERT A FILE OF COMPRESSED RECORDS (CARD IMAGES) TO A SYMBOLIC FILE. PROGRAM OPERATES HITHIN THE STAND-ALONE SYSTEM. PROGRAM HILL PROCESS DECKS EVEN THOUGH THERE ARE ERRORS IN THE COMPRESSED DECK SO THAT SYMBOLIC FILES MAY BE MADE FROM DAMAGED COMPRESSED DECKS.

5 SIGHA 2/3 SYMBOLIC COMPRESSOR FOR STAND-ALONE AUTHOR:XDS, WESTERN TECHNOLOGY CENTER 706245

ABSTRACT:
PROGRAM CONVERTS AN EBCDIC FILE (SYMBOLIC CARD DECK) TO A COMPRESSED FILE. PROGRAM RUNS IN THE STAND-ALONE SYSTEM. COMMENTS:

PROGRAM READS THE SI FILE AND HRITES THE BO FILE.

8 SIGMA 2/3 SYMBO AUTHOR: XDS HESTERN TECHNOLOGY CENTER SYMBOLIC COMPRESSOR FOR RBM/BCM

ABSTRACT:

PROGRAM CONVERTS AN EBCDIC FILE (SYMBOLIC CARD DECK) TO A COMPRESSED FILE.

PROGRAM HILL RUN IN RBM OR BCM. IT READS RECORDS FROM THE SI FILE AND HRITES ON THE BO FILE. PROGRAM REQUIRES 500 CELLS.

706252 SIGMA 2/3 TELETYPE TERMINAL SIMULATOR PROGRAMS

AUTHOR: XEROX ARSTRACT:

THE TELETYPE TERMINAL SIMULATOR IS A REAL TIME PROGRAM THAT OPERATES UNDER SIGMA 2/3 RBM. TIS CAN SIMULATE UPTO 60 ON-LINE TELETYPES INTO A TIME SHARING SYSTEM. TIS PRIMARY FUNCTION IS TO TEST TIME SHARING SYSTEMS.

706501 SIGMA 2/3-530 RBH-16 DATADEF

AUTHOR: XEROX CORPORATION

ABSTRACT:

PROVIDES A SET OF COMMAND PROCEDURES HHICH ALLOHS THE XSYMBOL PROGRAMMER TO DIVORCE DATA DESCRIPTION FROM THE ACCESS AND MANIPULATION OF THIS DATA, HHILE RETAINING FULL USE OF THE XSYMBOL LANGUAGE.

IMMENTS:
THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS XSYMBOL PROCEDURES. BASE LANGUAGE
MAIN PROGRAM IS HRITTEN IN XSYMBOL.
REQUIRES E00 AND SUBSEQUENT VERSION OF XSYMBOL.
REQUIRES 3K HORDS FOR PROCEDURE DEFINITIONS DURING ASSEMBLY PHASE.

890328 SIGMA 2/3 COGO COORDINATE GEOMETRY LANG.-CIVIL ENG

AUTHOR: J. THOMPSON, XDS DOCUMENTATION: K. JAMERSON, XDS ABSTRACT:

SSTRACT:

COGO IS A PROBLEM ORIENTED LANGUAGE THAT PROVIDES ENGINEERS WITH THE MEANS OF SOLVING COORDINATE

GEOMETRY PROBLEMS BY COMPUTER WITHOUT THE NECESSITY OF PRIOR COMPUTER EXPERIENCE. PROBLEMS ARE STATED IN

TERMS THAT ARE FAMILIAR TO THE ENGINEER AND NO PROGRAMMING IN THE USUAL SENSE OF THE WORD IS NECESSARY.

DESIGNED SPECIFICALLY FOR CIVIL ENGINEERING GEOMETRY PROBLEMS. COGO MAY ACTUALLY BE USED IN OTHER

APPLICATION AREAS AS HELL. IT CAN BE APPLIED FOR EXAMPLE TO PROBLEMS ENCOUNTERED IN HIGHWAY DESIGN,

INTERCHANGE DESIGN, CONTROL SURVEYS, BRIDGE GEOMETRY, CONSTRUCTION LAYOUT, LAND SURVEYING, AND MANY

OTHERS. COMMENTS:

PROGRAM TYPE:PROCESSOR LANGUAGE:BASIC FIV SYSTEM:RBM STORAGE:18K MIN SYSTEM DOC.PAGES:104

9 SIGMA 2/3 TEXT EDITOR FOR SIGMA 2 AUTHOR:B. SHERHOOD & M. CHEN, INSTITUTE OF TECH. 890389

ABSTRACT: THIS TEXT EDITOR IS A COLLECTION OF FORTRAN SUBROUTINES HHICH FACILITATE MANIPULATION OF LARGE BLOCKS OF TEXT IN CORE HHICH IS MUCH MORE CONVENIENT THAN THE SEQUENTIAL EDITING OF UTILITY RECEDIT. THE EDITOR PERMITS SELECTIVE INPUT, OUTPUT, AND LISTING OF TEXT AS HELL AS DELETION, INSERTION, AND REPLACEMENT OF LINES.

3 SIGMA 2 DEBUG/TRACE (SIGMA 2) AUTHOR:H.H. BLACKER, LEEDS & NORTHRUP COMPANY 890523

STRACT:
THE TRACE HAS ADDED DIRECTLY TO THE DEBUG PACKAGE BY MODIFYING THREE LOCATIONS. FIRST, THE NUMBER OF CONTROL COMMANDS HAS CHANGED TO 10. SECOND, A LITERAL 'Q' HAS ADDED TO THE LIST OF ALLOHABLE COMMAND CHARACTERS. THIRD, AN ADDRESS LITERAL POINTING TO TRACE HAS ADDED TO THE ROUTINE BRANCHING TABLE IN A POSITION CORRESPONDING TO THE POSITION OF 'Q' ABOVE. ALSO, THE LOCATIONS LABELLED DUMPX AND INTLOC HERE MOVED TO THEIR PRESENT LOCATIONS TO FACILITATE THE USE OF THE PANEL INTERRUPT.
AS HRITTEN, THE TRACE HILL TREAT THE HD/RD INSTRUCTIONS AS NOP'S, HOHEVER I/O CAN BE TRACED IF THE RESTRICTIONS POINTED OUT IN THE DOCUMENTATION ARE FOLLOHED. ON THE OUTPUT LISTING, THE COMMANDS ARE SELF-EXPLANATORY, HOHEVER RTOR IS A COPY-TYPE COMMAND AND CNDB IS A CONDITIONAL BRANCH. ABSTRACT:

COMMERCIAL SUBSET FOR BUS. APPLICATIONS SIGMA 2/3 890579

AUTHOR: XEROX

ABSTRACT:
A GROUP OF 20 SUBROUTINES DESIGNED TO SUPPLY A PRACTICAL METHOD OF PROGRAMMING BASIC BUSINESS
APPLICATIONS. CAN BE USED IN EITHER BASIC FORTRAN IV OR EXTENDED SYMBOL. THE USE OF THESE ROUTINES
REMOVES THE MAGNITUDE PROBLEM (EXTENDED PRECISION LIMITED TO NINE DIGITS) AND ACCURACY PROBLEM (THE
INACCURATE REPRESENTATION OF FRACTIONS). THERE IS NO PRACTICAL LIMIT TO THE NUMBER OF DIGITS WHICH CAN

COMMENTS: PROGRAM TYPE:PACKAGE LANGUAGE:FORTRAN/XSM SYSTEM:RBM DOCU.PAGES:44 DATE:05/18/70
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN FORTRAN.
THE -11 IS BEING REVISED WITH THIS VERSION. THE -34 (CARD DECK) AND -38 (MAG TAPE) VERSION ADI STILL

TIME-OF-DAY SUBROUTINE SIGMA 2/3 AUTHOR:C. CODLING, XDS 890584

ABSTRACT:
ALLOHS FORTRAN AND XSYMBOL USERS TO OBTAIN MILITARY TIME OF DAY AS AN INTEGER BINARY VALUE, AND SECONDS
THEREOF AS A FLOATING POINT VARIABLE.

STORAGE:56

DOCU.PAGES:2

COMMENTS: SYSTEM: RBM PROGRAM TYPE: SUBROUTINE LANGUAGE: XSYMBOL

O SIGMA 2/3 SIGMAS-XDS SIGMA 2/3 ASSEMBLER CDC-6400 AUTHOR: J. RENNO, AURA KITT PEAK NATIONAL OBSERVATORY 890670

ABSTRACT: SSIMAUL:
SIGMAS IS A FORTRAN EXTENDED PROGRAM WHICH ACCEPTS AS INPUT A PROGRAM FOR AN 8K XDS SIGMA 2/3 COMPUTER.
SIGMAS RUNS ON THE CDC 6400 COMPUTER, PRODUCES AS OUTPUT A NON-SELF-LOADING PUNCHED PAPER TAPE BEARING
IN ABSOLUTE OR RELOCATABLE FORM THE PROGRAM IN BINARY SIGMA 2/3 MACHINE-CODE AND A LISTING CONTAINING
THE PROGRAM IN ITS ORIGINAL SYMBOLIC FORM AND ITS TRANSLATED MEXIDECIMAL REPRESENTATION.

COMMENTS: PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV EXT. DOCU.PAGES:42. A BIPARTITE LOADER WHEREWITH THE SIGMA 2/3 PROGRAM IS LOADED FOR EXECUTION. EXTENDED FORTRAN IS REQUIRED. A BIPARTITE LOADER IS PROVIDED

RBM/3 GASP II SIMULATION PROGRAM 71 SIGMA 2/3 RBM/3 AUTHOR:C. CODLING, XEROX DATA SYSTEMS

RBM/3 GASP II IS AN EVENT ORIENTED GENERALIZED ACTIVITY SIMULATION PROGRAM. IT IS USED FOR DISCRETE SIMULATION; THE USER WRITES, IN FORTRAN, THE EVENTS TO BE SIMULATED. APPLICATIONS INCLUDE INVENTORY MODELS, COMPUTER SYSTEMS AND AREAS WHERE SIMULATION IS EVENT VERSUS QUEUING ORIENTED.

PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:RBM STORAGE:5000 DOCU.PAGES:8 DATE:09/17/70. Due to the large storage requirements, the user may hish to segment the programs. Calls to h:segld via the segld subroutine hill need to be inserted in the source deck as required.

ROUTINES - REAL-TIME EXTENSIONS 890697 SIGMA 2/3

AUTHOR: T. GILLAM, XEROX DATA SYSTEMS

THIS PACKAGE CONTAINS 23 ROUTINES WHICH ALLOW THE USER TO EXPAND THE REAL-TIME CAPABILITIES OF FORTRAM.
INCLUDED ARE ROUTINES TO:
START TIMER, CANCEL TIMER, INHIBIT/UNINHIBIT THE INTERRUPTS, PERFORM ALL INTERRUPT OPERATIONS,
LOGICAL AND, LOGICAL INCLUSIVE OR, TEST A BIT, PERFORM SHIFT OPERATIONS ON A HORD AND MANY OTHERS. ABSTRACT:

COMMENTS:
PROGRAM TYPE:PACKAGE LANGUAGE:XSYMBOL SYSTEM:RBM STORAGE:245 DOCU.PAGES:25 DATE:10/06/70.

OH SIGMA 3 SIGMA 3 TO 1108 REMOTE JOB ENTRY (RBM)
AUTHOR:R. HANSON, W. LINGO - XEROX DATA SYSTEMS
ABSTBACT. 890704

ABSTRACT:

PROVIDES A STANDARD COMMUNICATIONS PROGRAM BETHEEN THE XDS SIGMA 3 AND UNIVAC 1108 COMPUTERS USING EXEC B. THE PROGRAM RUNS IN THE FOREGROUND AS A FOREGROUND PROCESSOR, ALLOHS OVERLAPPED USE OF THE SIGMA 3 1/0 DEVICES AND AMONG OTHER CHARACTERISTICS PROVIDES THE LOCAL OPERATIONS OF A 80/80 LISTING AND REPRODUCTIONS IN EITHER BCD OR EBCDIC.

COMMENTS:

PROGRAM TYPE:PROGRAM

LANGUAGE: SYMBOL

SYSTEM: RBN

DOCU. PAGES: 26

SIGMA 3 TO 1108 REMOTE JOB ENTRY (BCM) 890705 SIGMA 3 AUTHOR: R. HANSON/H. LINGO - XEROX DATA SYSTEMS

ABSTRACT:

PROVIDES A STANDARD COMMUNICATIONS PROGRAM BETHEEN THE XDS SIGMA 3 AND UNIVAC 1108 COMPUTERS USING EXEC 8. THE PROGRAM RUNS IN THE FOREGROUND AS A FOREGROUND PROCESSOR, ALLOWS OVERLAPPED USE OF THE SIGMA 3 1/O DEVICES AND AMONG OTHER CHARACTERISTICS PROVIDES THE LOCAL OPERATIONS OF A 80/80 LISTING AND REPRODUCTIONS IN EITHER BCD OR EBCDIC.

COMMENTS:

PROGRAM TYPE:PROGRAM

LANGUAGE: SYMBOL

SYSTEM: BCM

DOCU.PAGES:25

SIGDAS- SIGMA DIGITAL ANALOG SIMULATOR 890710 S#GMA 2/3

AUTHOR: CHARLES CODLING, XEROX DATA SYSTEMS

A BLOCK-DIAGRAM ORIENTED CONTINUOUS SIMULATION LANGUAGE WHICH PROVIDES A FLEXIBLE ON-LINE CHANGE OR TUNING' CAPABILITY NOT FOUND ON MANY SIMULATION SYSTEMS. THE USER MAY CODE HIS OWN SPECIAL FUNCTION SUBROUTINES, EACH OF WHICH IS OVERLAID. COMMENTS:

UMMENTS:
PROGRAM TYPE:SIMULATOR LANGUAGE: FORT/XSYM SYSTEM:RBM STORAGE:7760 DOCU.PAGES:28
OPERATES UNDER RBM MINIMUM CONFIGURATION AND MAY BE EXPANDED AS THE NEED FOR MORE COMPLEX SIMULATIONS
OCCUR. CURRENT SYSTEM LIMIT IS 75 BLOCKS EACH WITH NO MORE THAN THREE INPUTS. NO MORE THAN 25 UNIT-DELAY
ELEMENTS, FUNCTION GENERATORS (HITH 11 INTEVALS), OR INTEGRATORS MAY BE SPECIFIED. THESE VALUES MAY BE
EXPANDED AS CORE CAPACITIES INCREASE.

890712 S1GMA 2/3 PRINTER PLOT SUBROUTINE

AUTHOR: C. CODLING, XEROX DATA SYSTEMS

ABSTRACT:

TORTHAN CALLABLE SUBROUTINE ALLOHS USER TO PLOT UP TO 90 CONCURRENT GRAPHS OVER A 100 POINT I**nterval on** the line frinter or other similar device. Multiple calls hill create a tho-d<mark>imensional effect.</mark>

PROGRAM TYPE:SUBROUTINE LANGUAGE:FORTRAN IV

SYSTEM: RBM

STORAGE: 325 DOCU. PAGES: 4

CONTINUOUS SYSTEM SIMULATOR (CSS/3) 890719 SIGMA 2/3 AUTHOR: XERCX

ARSTRACT:

ASTRACT:

CSS/3 PROVIDES THE ENGINEER HITH A SIMPLE YET VERSATILE MEANS FOR DIGITAL SIMULATION OF CONTINUOUS

PROCESSES. IT PROVIDES A LARGE COMPLEMENT OF FUNCTIONAL ELEMENTS AND A BLOCK-ORIENTED LANGUAGE FOR

SPECIFYING THEIR INTERCONNECTION. IN ADDITION, CSS/3 UTILIZES THE XDS 7530 OR 7531 PLOTTER, IN HHICH

CASE ALL CUTPUT IS TO THE CONSOLE TYPEHRITER. THE CONSOLE DATA SHITCHES ALLOH THE USER AN ON-LIME

INTERACTIVE MODE OF OPERATION HHILE DEVELOPING AND TESTING CONTINUOUS SYSTEM MODELS. COMMENTS:

PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:RBM STORAGE:8800 DOCU PAGES:8

890720 SIGMA 2/3 FCT DUMP ROUTINE (ELABORATED)

AUTHOR: C. ROSENFIELD, CALTECH

ABSTRACT:

AN ELABORATED VERSION OF THE FCT DUMP ROUTINE. DUMPS BOTH OPLABEL TABLES, ALL 1/0 CONTROL TABLES, BLOCKING BUFFERS, AND CHANNEL STATUS TABLES.

PROGRAM TYPE: ROUTINE LANGUAGE:XSYMBOL SYSTEM:RBM STORAGE:518 DOCU.PAGES:1 THIS ROUTINE IS VALID WITH CN705368-COL.

SIGMA PLOTTING LIBRARY

AUTHOR: L. E. HOOPER, XEROX DATA SYSTEMS

THE SIGMA PLOTTING LIBRARY IS MADE UP OF FORTRAN SUBROUTINES WHICH PERFORM FREQUENTLY USED FUNCTIONS THE SIGMA PLUTTING LIBRARY IS MADE UP OF FORTRAN SUBROUTINES WHICH PERFORM FREQUENTLY USED FUNCTIONS. THE FOLLOWING FUNCTIONS ARE PROVIDED: DRAW LINEAR OR LOG AXIS, DRAW ALPHANDWERIC AXIS, PRINT A NUMBER, COMPUTE LINEAR OR LOG SCALE FACTORS, PLOT SCALED DATA, DRAW A CIRCLE, ELLIPSE OR RECTANGLE, DRAW A DASHED OR CENTER LINE, DRAW DIFFTING DIMENSIONS, OPTIMIZE PEN MOVEMENT, DRAW A CALANDER AND DRAW A HISTOGRAM. PLOTTING LIBRARY SUBROUTINES ARE WRITTEN IN BASIC FORTRAN AND WILL WORK ON SIGMA 5/7 IF COMPILED FOR THESE COMPUTERS. COMMENTS:

PROGRAM TYPE:SUBROUTINE LANGUAGE:FORTRAN IV SYSTEM:RBM DOCU.PAGES:17 THE SUBROUTINES PLOT, HHERE AND SYMBOL ARE REQUIRED BY THE SIGMA PLOTTING LIBRARY. THESE SUBROUTINES ARE AVAILABLE IN CN705780 FOR SIGMA 2/3 AND CN705657 FOR SIGMA 5/7.

S10MA 2/3 890725 AUTHOR: C.V. CODLING, XEROX DATA SYSTEMS

STRACT:

ROMLIST READS RELOCATABLE OBJECT MODULES FROM THE BI DEVICE AND PROVIDES THE FOLLOHING: LIBRARY MODE DISPLAY OF LIBRARY FILE STORAGE REQUIREMENTS FOR EACH FILE AS HELL AS TOTALS, THUS ELIMINATING LABOROUS
CALCULATIONS TO LOAD USER LIBRARY. LISTING MODE - DISPLAY OF DEFS, REFS AND PROGRAM IDENTIFICATION FOR
EACH ROM AS HELL AS THE DFRF FILE SPACE REQUIRED FOR EACH MODULE. ARSTRACT:

COMMENT STORAGE: X568 DOCU. PAGES: 1 PROGRAM TYPE:PROGRAM LANGUAGE:FIV/XSYMBOL SYSTEM:RBM

RBM TRACE PROGRAM 890726

SIGMA 2/3 RBM TRACI AUTHOR:C. V. CODLING, XEROX DATA SYSTEMS

AUTHOR: C. V. CUDCING, XEROV DATA STATEM ABSTRACT: THE RBM TRACE PROGRAM PROVIDES PROGRAMMERS HITH A CONVENIENT MEANS OF DEBUGGING PROGRAMS OR PROGRAM SEGMENTS HHERE THE ERRORS ARE COMPLEX OR SUBTLE. TRACE CAN OPERATE IN BATCH MODE, BEING CALLED AS A SUBROUTINE, OR IN THE ON-LINE MODE. THE SUBROUTINE PRINTS THE INSTRUCTION VALUE, DECODED OP CODE, EFFECTIVE ADDRESS, CONTENTS OF THE EFFECTIVE ADDRESS, REGISTER CONTENTS AND STATUS BITS AFTER EXECUTION OF EACH INSTRUCTION. IT DOES NOT TRACE MONITOR SERVICES, ONLY THE RETURNED STATUS.

COMMENTS:
PROGRAM TYPE:ROUTINE LANGUAGE:XSYMBOL SYSTEM:RBM STORAGE:800 DOCU.PAGES:9

IDEAL FORTRAN 890740 S1GMA 2/3

AUTHOR: N. POUSIER, XEROX

ABSTRACT:

36 SUBROUTINES FOR BUSINESS APPLICATIONS. THE ROUTINES INCREASE ARITHMETIC ACCURACY, I/O CHARACTER SET,

AND OUTPUT CAPABILITIES HHILE DECREASING STORAGE REQUIREMENTS AND 10 AND EXECUTION TIMES. FORTRAN 1V 15

INTENDED AS THE CALLING PROCESSOR BUT XSYMBOL MAY ALSO BE USED.

COMMENTS:
PROGRAM TYPE:SUBROUTINES LANGUAGE:XSYMBOL SYSTEM: RBM DOCU.PAGES:73 AS DESCRIBED IN ELEMENT NUMBER
-11, THE COMMERCIAL SUBROUTINE PACKAGE CONTAINS ROUTINES WHICH MAY BE INCLUDED FOR INCREASED THROUGHPUT.

BLOCKED RANDOM FILE ROUTINES SIGMA 2/3

AUTHOR: H. J. GREEN, XDS

ABSTRACT: SUBROUTINES FOR FORTRAN IV RANDOM FILE READS AND WRITES. AUTOMATIC BLOCKING OF RECORDS CONSERVES SPACE.

COMMENTS:
PROGRAM TYPE:SUBROUTINE LANGUAGE:XSYMBOL SYSTEM:RBM DOCU.PAGES:4

SIGMA 2/3-530 **PHSORT** 890742 AUTHOR: C. CODLING, XEROX CORPORATION

AUTHOR:C. CODLING, XEROX CORPORATION

ABSTRACT:
PHSORT IS A PROGRAM (FORTRAN) CALLABLE SORT HHICH HILL SORT ANY NUMBER OF KEYS HITHIN A RECORD. KEYS

HAY BE INTEGER, DI DECIMAL, PACKED DECIMAL (ANY LENGTH), ALPHA-NUMERIC (ANY LENGTH), OR FLOATING POINT—

BOTH SINGLE AND DOUBLE PRECISION FOR BOTH SIGMA 3 AND SIGMA 5. THE SORT OPTIMIZES ON THE AVAILABLE BT

DISK AREA AND AVAILABLE BACKGROUND CORE. IT UTILIZES A HIGH SPEED SORT/MERGE TECHNIQUE. IT IS A

HODIFIED SUCCESSIVE MERGE ALGORITHM ORIGINALLY DEVELOPED BY DONALD L. SHELL. IT COMBINES THE SPEED

CHARACTERISTICS OF K-HAY MERGING HITH THE SPACE CHARACTERISTICS OF SIFTING.

COMMENTS: THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN XSYMBOL.

AUTOMATED MEDICAL HISTORY PROGRAM 94 SIGMA 2/3 AUTOM AUTHOR:N. JOHNSON, XEROX DATA SYSTEMS

ABSTRACT:

THIS SYSTEM FOR THE SIGMA 2/3 CONTAINS A GENERAL-PURPOSE QUESTIONNAIRE DRIVER HITH A SAMPLE AUTOMATED

MEDICAL HISTORY QUESTIONNAIRE AND A REPORT GENERATOR. THE SAMPLE QUESTIONNAIRE IS MOST APPLICABLE TO A

MEDICAL SCREENING ENVIRONMENT BUT THE BRANCHING-QUESTION TECHNIQUE IS APPLICABLE TO ANY QUESTION- ANSHER

COMMENTS: DOCU. PAGES: 14 PROGRAM TYPE: APPLICATION LANGUAGE: ANS FORTRAN IV SYSTEM: RBM STORAGE: 5K

APT3 (LEVEL 3) 890748

B SIGMA 2/3-530 APT3 AUTHOR:R. REEVES, XEROX CORPORATION

A NUMERICAL-CONTROL PARTS PROGRAMMING LANGUAGE COMPATIBLE WITH THE LEVEL 3 SUBSET OF THE APT LANGUAGE STANDARDS PUBLISHED BY THE APT LONG RANGE PROGRAM OF IITRI. OPERATION IS BATCH, AND CONTROL TAPES, LISTINGS, ETC., ARE PRODUCED AS DESIRED VIA THE USER'S ON-LINE EQUIPMENT. ABSTRACT:

THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS APT LANGUAGE COMPILER. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN FORTRAN. OPERATES USING 24K OVERLAYS UNDER RBM. SOURCE IS 20K FORTRAN STATEMENTS AND 200 META STATEMENTS. COMMENTS:

DISK PACK BOOTSTRAP SIMULATOR

ST SIGMA 2/3 AUTHOR:E. HITT, XEROX ABSTRACT:

A SINGLE CARD BOOTSTRAP TO RESTORE THE DISK UNIT TO THE HOME POSITION AND BOOT FROM THE DISK PACK. THIS ALLEVIATES THE NEED TO POWER THE UNIT DOWN AND UP AGAIN. COMMENTS:

THIS PROGRAM WILL RUN UNDER THE RBM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XSYMBOL.

890814 SIGHA 2/3 LEAST-SQUARES H/ ORTHOGONAL POLYNOMIALS

AUTHOR: C. MCKAY, ROYAL MILITARY COLLEGE OF CANADA

ABSTRACT:

A POLYNOMIAL IS DETERMINED TO FIT A SET OF DATA POINTS ACCORDING TO A HEIGHTED LEAST-SQUARES CRITERION. THE FIT IS PRESENTED BOTH AS A SERIES OF ORTHOGONAL POLYNOMIALS AND AS A TRUNCATED POWER SERIES AND IS CALCULATED FOR ALL DEGREES UP TO A SPECIFIED MAXIMUM. STATISTICS ARE CALCULATED TO ASSIST THE USER IN DECIDING WHICH DEGREE IS MOST SUITABLE FOR HIS PURPOSE AND HHICH COEFFICIENTS ARE SIGNIFICANTLY DIFFERENT FROM ZERO. A COMPARISON OF THE ORIGINAL DATA AND THE FIT IS OPTIONALLY AVAILABLE. COMMENTS:

THIS PROGRAM HILL RUN UNDER ROM OPERATING SYSTEM. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN FORTRAN. OPERATES UNDER ROM. REQUIRES 1777 HORDS FOR PROGRAM PLUS & FORTRAN REAL HORDS PER POINT AND THE HIGHEST DEGREE TO FIT PLUS I TIMES 4 FORTRAN REAL HORDS. AS SUPPLIED IT IS SUITABLE FOR 150 POINTS AND A MAXIMUM OF A 20TH DEGREE FIT.

890821

SIGMA 2/3 TIME-SHARING PROCESSOR

AUTHOR: R. FANSON & O. MCBRIDE, WHIRLPOOL

ABSTRACT:

A MULTI-ACCESS REMOTE TELETYPE SYSTEM, THE TIME-SHARING PROCESSOR RUNS IN RESIDENT FOREGROUND. IT SCHEDULES PROGRAMS AND HAS ROUTINES FOR TERMINAL 1/0 AND CONTROL. CORE REQUIREMENTS ARE 1K OF PUBLIC LIBRARY, ABOUT 500 HORDS OF RESIDENT FOREGROUND PLUS CORE FOR THE TERMINAL-SUBMITTED PROGRAMS. FIVE REMOTE TERMINALS ARE SUPPORTED, BUT THIS CAN BE INCREASED.

THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XSYMBOL.

AUTODUMP

24 SIGMA 2/3 AUTO AUTHOR:P. ALSCP, UNIVERSITY OF UTAM ABSTRACT:

AUTODUMP IS A PROGRAM DESIGNED TO DUMP THE RESIDENT AND/OR NONRESIDENT PORTIONS OF CORE AUTOMATICALLY AT REBOOT TIME. THE DUMP IS MADE TO T HE LINE PRINTER BEFORE ANY OF THE FOREGROUND PARTITIONS ARE RESTORED. DATE SHITCH ZERO IS SET ON TO OBTAIN THE DUMP, IF SHITCH ZERO IS NOT ON, NO DUMP OCCURS. COMMENTS:

THIS PROGRAM WILL RUN UNDER THE RBM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAMJIS WRITTEN IN XSYMBOL.

890825

SIGMA 3 RBM E01 MODIFICATIONS-ASCII TAPE HANDLER

AUTHOR: H. BLAKE-HEDGES, XEROX

ABSTRACT:

RBM (VERSION EDI) FOR THE SIGMA 3 HAS BEEN EXPANDED FOR PURPOSES OF PROCESSING ASCII DATA CONTAINED ON 9-TRACK MAGNETIC TAPE OR 8-LEVEL PAPER TAPE. BOTH DEVICE TYPES ARE STILL CAPABLE OF PROCESSING BINARY OR EBCDIC DATA.

THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XSYMBOL.

890827

SIGMA 2/3

CONTOUR MAP PLOTTING SYSTEM

AUTHOR: HINCOMP CORPORATION

ABSTRACT:

CMPS IS A COMPLETE APPLICATIONS PACKAGE FOR THE GENERATION, STORAGE, MODIFICATIONS AND RETRIEVAL OF

CONTOUR MAPS. SYSTEM CAN ALSO DO AREA AND VOLUME CALCULATIONS AND CAN GENERATE SURFACE FIT EQUATIONS.

THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL. SYSTEM IS AVAILABLE IN ROM FORM ONLY. SYSTEM REQUIRES 24K RBM SYSTEM WITH 724B DISK STORAGE. SYSTEM USES SYMBIONT OUTPUT.

890879

SIGMA 2/3-530 BUFFER IN/BUFFEROUT

AUTHOR: C. CODLING, XEROX CORPORATION

ABSTRACT:

THESE LIBRARY ROUTINES PROVIDE THE FACILITY TO PERFORM ASYNCHRONOUS 1/0 ON ANY ARBITRARY FORMAT.

THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS LIBRARY ROUTINE. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XSYMBOL. EOFSET IS INCLUDED TO ALLOH THE USE ENTRY OR CONTROL AT END-OF-FILE TIME. AN ENTRY, ICHECK, IS ALSO INCLUDED TO ALLOH USERS TO CHECK STATUS ON ANY DEVICE IN A NO-WAIT MODE.

SIGMA 3

DECIPHER SUBROUTINE

AUTHOR: T. HOLLADAY

THIS SUBROUTINE ALLOHS A USER TO ENTER OPTIONS ON THE CONTROL CARD; THE PROGRAM SORTS AND RETURNS THESE OPTIONS TO THE MAIN PROGRAM ENCODED IN A USER-SUPPLIED ARRAY.

THESE OPTIONS RETURNED TO THE CALLING PROGRAM MAY THEN BE USED TO CONTROL THE MAIN PROGRAM. ABSTRACT:

THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM

THIS PROURAN WILL NON ONDER RON ONDER RON OF THE STATEM.

SHRITTEN IN FORTRAN.

THE SUBROUTINE IS A FORTRAN PROGRAM WHICH USES IN-LINE ASSEMBLY CODES TO RETURN OPTIONS FROM THE CONTROL CARD IMAGE. THE CONTROL CARD IMAGE IS READ FROM THE ADDRESS IN K:CCBUFF GIVEN IN THE MONITOR CONSTANT TABLE (I.E. X'F7') AND THE OPTIONS ARE RETURNED IN A USER-SUPPLIED ARRAY THAT IS 80 HORDS LONG. THE SUBROUTINE MUST BE CALLED BEFORE ANY CALLS TO BLOCKED FILES, OR RBM WILL DESTROY THE CONTROL CARD IMAGE.

890902

SIGMA 3

BOOLEAN SUBROUTINES

AUTHOR: T. HOLLADAY

ABSTRACT:

THE SEVEN BOOLEAN OPERATIONS ARE IMPLEMENTED BY FORTRAN PROGRAMS WHICH USE IN-LINE ASSEMBLY CODES TO PERFORM BIT MANIPLUATION ON THE 16-BIT WORDS. THE OPERATIONS ARE INTEGER FUNCTIONS, WHICH CAN BE COMPOUNDED.

COMMENTS:

OMMENTS:
THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN FORTRAN. THE SEVEN BOOLEAN OPERATIONS ARE IDENTICAL TO THE SIGMA 7 BOOLEAN OPERATIONS (SEE THE FORTRAN IV MANUAL, 900956C, UNDER BOOLEAN) EXCEPT THE HORDS ARE 16-BITS INSTEAD OF 32-BITS, AND SOME OF THE SIGMA 7 BOOLEAN OPERATIONS ARE ALLOHED WITH MORE THAN ONE ARGUMENT. THESE SUBROUTINES ARE EXCEEDINGLY USEFUL IN DOING GRAPHICS AND OTHER OPERATIONS WHERE BIT MANIPULATIONS ARE REQUIRED.

890903

SIGMA 3

XGP-OUT

AUTHOR: T. HOLLADAY

ABSTRACT:

THIS PROGRAM ALLOHS THE XEROX GRAPHICS PRINTER (XGP) TO BE USED AS A LINE PRINTER UNDER CONTROL OF RBM.
THE PROGRAM READS EBCDIC DATA A LINE AT A TIME AND FORMATS ON-THE-FLY TO THE XGP. OPTIONS INSERTED ON
THE CONTROL CARD CAN SELECT FOUR MODES OF OPERATION PLUS AN OUTPUTTING MODE TO ONE OF THO XGP'S RUNNING
AT DIFFERENT RATES (I.E., 192 OR 128 BITS PER INCH). THE SOFTMARE CHANGEABLE FONT HAS A SET OF 258 CHARACTERS.

COMMENTS:

THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM

THIS PROGRAM WILL KUN UNDER RED UPERATING STREET. PROGRAM TO THE TONT; FOR THE LOH-DENSITY XGP, THE IS HRITTEN IN XSYMBOL.

THE PROGRAM IS 606 HORDS BUT REQUIRES 2 BUFFERS AND SPACE FOR THE FONT; FOR THE LOH-DENSITY XGP, THE FONT IS 2048 HORDS, AND THE 2 BUFFERS TOGETHER REQUIRE 2048 HORDS. FOR THE HIGH-DENSITY XGP, THE CORRESPONDING NUMBERS ARE 8192 AND 6144 HORDS RESPECTIVELY. THE PROGRAM ASSUMES THAT OPLABELS TO THE XGP'S ARE INCLUDED AT SYSGEN AND THAT THE XGP'S ARE DECLARED AS XX DEVICES.

890911

SIGMA 3-530

STATISTICAL SYSTEM - STATSYS

AUTHOR: H. GUSTAFSON

ABSTRACT:

DELTAGLE. THE STATISTICAL SYSTEM (STATSYS) IS A PROCESSOR HHICH CONTAINS FOUR MAJOR PROGRAMS. THESE PROGRAMS Perform Stephise Linear Regression, factor analysis, analysis of variance, and polynomial fitting hith ORTHOGONAL POLYNOMIALS.

OMMENTS:
THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS APPLICATION-ORIENTED PROGRAM. BASE
LANGUAGE MAIM PROGRAM IS HRITTEN IN FORTRAN.
THE SOURCE CODE IS WRITTEN ENTIRELY IN XEROX ANS FORTRAN IV AND OPERATES AS A BACKGROUND PROCESSOR UNDER
RBM-EO2. THE PROCESSOR REQUIRES APPROX. 15K HORDS OF MEMORY. INPUT IS NORMALLY PROVIDED VIA A CARD
READER AND OUTPUT TO A LINE PRINTER. INTERMEDIATE DATA STORAGE IS NORMALLY IN A BACKGROUND TEMPORARY
FILE ON A 724X-TYPE DISK FILE, BUT IT MAY BE GENERATED TO A CARD RECORD OUTPUT DEVICE. THE MAXIMUM
NUMBER OF BYTES OF DISK STORAGE NEEDED FOR ANY ONE ANALYSIS IS 65K.

890926

DEMAND PAGER

S XEROX 530 DE AUTHOR: V. HUBER, XEROX CORPORATION

STRACT:
THE XEROX 530 DEMAND PAGER PROVIDES A RELATIVELY EASY METHOD FOR FORTRAN PROGRAMMERS TO MANIPULATE DATA ARRAYS HHOSE STORAGE REQUIREMENTS FAR EXCEED PHYSICAL AND EVEN ADDRESSABLE MEMORY. THE ONLY MAJOR REPROGRAMMING REQUIRED IS RECODE STORES INTO PAGED ARRAYS. THE PAGER, ALTHOUGH SPECIFICALLY DESIGNED FOR FORTRAN PROGRAMS, IS APPLICABLE TO ANY BACKGROUND BATCH PROGRAM UTILIZING FORTRAN FUNCTION CALLING CONVENTIONS. FIELD AND FLOATING POINT HARDWARE IS REQUIRED, ALTHOUGH PROGRAMMERS MAY BE ABLE TO ELIMINATE THESE REQUIREMENTS WITH SOME RECORDING. ABSTRACT:

THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS SERVICE ROUTINE. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN EXTENDED SYMBOL. COMMENTS:

890927

7 SIGMA 3-530 LSDMF - FORTRAN CALLABLE SORT AUTHOR:R. ZIEGLER, XEROX CORPORATION

ABSTRACT:

ISSTRACT:
LSDMF CONSISTS OF A SET OF PROGRAM ROUTINES AND MODIFICATIONS TO THE STANDARD 530 SORT THAT PROVIDE THE
ABILITY TO CALL THE SORT FROM ANOTHER PROGRAM IN THE SAME MANNER USED TO CALL THE 1130 LSDMF SORT.
FILES TO BE SORTED MAY BE RANDOM OR PACKED RANDOM. EITHER PORTIONS OF OR ALL RECORDS IN A FILE MAY BE
SELECTED FOR SORTING IN PLACE. COMMENTS:

890927 CONTINUED ON FOLLOHING PAGE

LSDMF - FORTRAN CALLABLE SORT (CONTINUED)
THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS MRITTEN IN EXTENDED SYMBOL.

SPECIAL SYSGEN CONSIDERATIONS, LOADING AND OPERATING PROCEDURE, ARE DETAILED IN THE PROGRAM DOCUMENTATION. MODIFICATIONS TO THE SORT APPLY TO THE BOO RELEASE.

890961

SIGMA 3 XGP - VAR

AUTHOR:T. HOLLADAY, XEROX HEBSTER

ABSTRACT:

THIS PROGRAM ALLOWS THE XEROX GRAPHICS PRINTER (XGP) TO BE USED AS A VARIABLE HIDTH CHARACTER LINE
PRINTER UNDER CONTROL OF RBM. THE PROGRAM READS EBCDIC DATA A LINE AT A TIME AND FORMATS ON-THE-FLY TO
THE XGP. ()PTIONS INSERTED ON THE CONTROL CAND CAN SELECT FOUR MODES OF OPERATION PLUS AN OUTPUTTING
MODE TO ONE OF THO XGP'S RUNNING AT DIFFERENT RATES (192 OR 128 BITS PER INCH). THE SOFTHARE CHANGEABLE
FONT HAS A 256 CHARACTER SET OF VARIOUS HIDTH CHARACTERS.

FONT HAS A 256 CHARACTER SET OF VARIOUS HIDTH CHARACTERS.

COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE HAIN PROGRAM IS HRITTEN IN XSYMBOL. THE PROGRAM IS ONLY 725 HORDS BUT REQUIRES 2 BUFFERS AND SPACE FOR THE FONT; EACH FONT CONTAINS A CONTROL SECTION OF 540 HORDS, WHICH DESCRIBE THE FONT, AND THE REMAINING FONT RECORDS CONTAIN THE ACTUAL FONT BROKEN INTO 5760 BYTE BLOCK SIZES. THE PROGRAM ACCEPTS ANY HIDTH CHARACTERS UP TO MAXIMUM DETERMINED BY THE XGP AND ANY HEIGHT BUFFER AS LONG AS THE PROGRAM, FONT, AND BUFFERS MILL FIT IN CORE. THE PROGRAMS ASSUME THAT OPLABELS TO THE XGPS HERE INCLUDED AT SYSGEN AND THAT THE XGPS HERE DECLARED AS XX DEVICES. THE BASIC CONTROL FUNCTIONS OF THE PROGRAM ARE SIMILAR TO XGP-OUT.

704001 SIGMA 2/3-530 AUTHOR: XEROX CORPORATION GRAPH PLOTTER TEST

ABSTRACT:

THIS PROGRAM WILL TEST THE OPERATIONAL CAPABLILITY OF GRAPH PLOTTERS 7530/7531/7532/7533. IT RUNS UNDER EXECUTIVE CONTROL OF THE DIAGNOSTIC CONTROL PROGRAM (DCP).

REQUIRED CONFIGURATION IS: SIGMA 2 OR 3 WITH MINIMUM OF 8K MEMORY, KSR KEYBOARD PRINTER, CARD READER AND ANY GRAPH PLOTTER MODEL 7530/7531/7532/7533. OPTIONAL EQUIPMENT IS A LINE PRINTER. PROGRAM IS SUPPLIED TOGETHER WITH A RELOCATABLE LOADER NO. 705299 (MANUAL 901559) AND A DCP PROGRAM NO. 704025 (MANUAL 901539). BASIC CORE NEEDED IS 3.8K. PREREQUISITE FOR OPERATING THE PROGRAM IS THE OBJECT GRAPH PLOTTER DESIGN MUST BE PROGRAM COMPATIBLE WITH DESIGN SPEC DRAWING NUMBER 137789. THIS PROGRAM MAY ALSO BE USED TO TEST THE CALCOMP PLOTTER.

704014 SIGMA 2/3-530 CHARACTER ORIENTED COMMUNICATION TEST

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE THE USER WITH A PROGRAM FOR TESTING CHARACTER ORIENTED COMMUNICATION EQUIPMENT. THE PROGRAM WILL HANDLE ONE COMMUNICATION CONTROLLER AND UP TO 64 CHANNELS UNDER INTERRUPT CONTROL FOR TURNING THE CORNER AT THE CONTROLLER END. CAPABILITY FOR DRIVING DEVICES THROUGH THIS PROGRAM HILL BE PROVIDED ALSO. THE PROGRAM HILL OPERATE IN CONJUNCTION WITH THE (DCP) DIAGNOSTIC CONTROL PROGRAM FOR ERROR DISPLAY AND INPUT PARAMETERS VIA TYPEHRITER KEYBOARD COMMENTS:

CONFIGURATION REQUIRED:SIGMA 2, 8K MEMORY, KSR. DIRECT 1/0 INPUT:PAPER TAPE OR CARDS. OUTPUT:KEYBOARD OR Line printer character oriented communication equipment test fixtures or devices.

704024 SIGMA 2/3-530 PAPER TAPE READER-PUNCH TEST

AUTHOR: XEROX

ABSTRACT:

THE PAPER TAPE READER-PUNCH TEST PROGRAM IS ASSEMBLED WITH AND OPERATES UNDER CONTROL OF THE SIGMA 2 DIAGNOSTIC CONTROL PROGRAM (DCP) C.N. 704025 TO PROVIDE A COMPREHENSIVE FREESTANDING PROGRAM TO TEST THE OPERATIONAL CAPABILITY OF THE PAPER TAPE READER-PUNCH (MODEL 7060) OR ASR (MODEL 7020). THE READER SECTION IS DESIGNED TO READ ANY PUNCH CONFIGURATION GENERATED BY THE PUNCH SECTION. A COMPARE SECTION IS PROVIDED TO VALIDATE ANY PUNCH CONFIGURATION READ BY THE READ SECTION. A STANDARD TEST TAPE IS PROVIDED FOR SIGMA 2 SYSTEMS HITHOUT PUNCHES. ADDITIONAL SECT INTERROGATE FUNCTIONS PERFORMED BY PAPER TAPE READER OR PUNCH. SECTIONS ARE PROVIDED TO CONTROL AND

COMMENTS:

THE REQUIRED SYSTEM CONFIGURATION CONSISTS OF THE FOLLOWING: 1. SIGMA 2 COMPUTER WITH 4K OF MEMORY OR GREATER 2. CARD READER OR PAPER TAPE READER AS PROGRAM INPUT DEVICE 3. KEYBOARD/PRINTER AS PROGRAM CONTROL AND DISPLAY DEVICE 4. PAPER TAPE READER OR PAPER TAPE PUNCH AS TEST DEVICE.

704055 SIGMA 2/3-530 DATA SET CONTROLLER DIAGNOSTIC

AUTHOR: XEROX

THE DIAGNOSTIC PROGRAM FOR THE DATA SET CONTROLLER IS ASSEMBLED HITH AND OPERATES UNDER CONTROL OF THE SIGMA 2 DIAGNOSTIC CONTROL PROGRAM. THIS PROGRAM PROVIDES A MEANS OF CHECKING ASYNCHRONOUS AND SYNCHRONOUS TURNAROUND ON A MESSAGE BASIS AND ECHO OPERATION ON A FIXED LENGTH MESSAGE BASIS HITM ASYNCHRONOUS AND SYNCHRONOUS FORMAT UNITS. COMMENTS .

REQUIRED CONFIGURATION SIGMA 2 WITH 8K OF MEMORY, CONSOLE TYPEWRITER, INPUT DEVICE FOR LOADING PROGRAM. COUNTER 4 REAL TIME CLOCK (2 MILLISECONDS), AND ONE OR MORE DATA SET CONTROLLERS.

704156

S10MA 2/3-530

AUTO DIAL EQUIPMENT PROGRAM

AUTHOR: XEROX ABSTRACT:

THIS PROGRAM IS ASSEMBLED WITH AND OPERATES UNDER CONTROL OF THE SIGMA 2 DCP AND PROVIDES A MEANS OF TESTING AND EXERCISING XDS MODEL 7618 AUTOMATIC DIALING EQUIPMENT AND OPTIONAL MODEL 7618 ADDITIONAL DIALING POSITIONAL DIRECTIVES ARE IMPLEMENTED WHICH PERMIT: (U) DEFINING THE TESTING ENVIRONMENT (I) EXECUTING I/O INSTRUCTIONS WITH TRANSFERENCE CAPABILITY AND DISPLAYING RETURNED STATUS: (O) EXECUTING THE VARIOUS FUNCTIONS RELATED TO THE CHARACTER ORIENTED COMMUNICATIONS EQUIPMENT; AND (J) DIALING AND REPORTING THE TIMES OF STATUS CHANGES OF THE AUTOMATIC DIALING EQUIPMENT AND OPTIONALLY ASSOCIATED DIALED LINES.

COMMENTS:

REQUIRED CONFIGURATION: SIGMA 2 HITH 8K OF MEMORY; KEYBOARD PRINTER; PAPER TAPE OR CARD READER FOR LOADING THE PROGRAM; AND COUNTER I REAL TIME CLOCK (2MSEC). ALSO ONE OR MORE OF THE FOLLOHING IS REQUIRED: JIZO COMMUNICATIONS DIAGNOSTIC UNIT; JTI4 PERIPHERAL EQUIPMENT TESTER (PET); OR BELL SERIES 801 AUTOMATIC CALLING UNIT; OR EQUIVALENT CONNECTED TO THE AUTOMATIC DIALING EQUIPMENT.

704210

7930/7931/7935 SIU DIGITAL DIAGNOSTIC

0 SIGMA 2/3-530 7930/7931/7935 SIU | AUTHOR: XEROX CORPORATION, HESTERN TECHNOLOGY CENTER

ABSTRACT

THIS DIAGNOSTIC CHECKS THE OPERATION OF THE 7930/7931/7935 SYSTEM INTERFACE UNITS AND THEIR ASSOCIATED INPUT/OUTPUT MODULES. THE 7928 AND 7929 SYSTEM INTERFACE UNITS MAY ALSO BE EXERCISED BY THIS DIAGNOSTIC. BECAUSE OF CORE RESTRICTIONS, THE ACTUAL DIAGNOSTIC PROGRAM IS DIVIDED INTO SEGMENTS. SEGMENT I TESTS THE 7930-7964 1/0 MODULES AND SEGMENT 2 TESTS THE 7942 - 7944 1/0 MODULES. ONLY ONE SEGMENT MAY BE RESIDENT AT A GIVEN TIME. THE DIAGNOSTIC, AS SUPPLIED IN ABSOLUTE FORM, INCLUDES THE DIAGNOSTIC PROGRAM MONITOR (DPM) AND DIAGNOSTIC PROGRAM LOADER (DPL).

COMMENTS:

HARDWARE CONFIGURATION: 8K OF CORE, KEYBOARD/PRINTER, A PAPER TAPE READER OR CARD READER, AND VALID COMBINATION OF 7928'S, 7929'S, 7930'S, 7931'S AND 7935'S, THE APPROPRIATE ASSOCIATED 1/0 MODULES AND ZT46 TEST CABLES (FOR CLOSED LOOP TESTS). A LINE PRINTER IS OPTIONAL.

704213 SIGMA 2 7922 SIU DIAGNOSTIC PROGRAM

AUTHOR: XEROX

ARSTRACT:

STRACT:
THE PROGRAM PROVIDES DEMONSTRATION AND DIAGNOSTIC CAPABILITIES FOR THE 7922 SYSTEM INTERFACE UNIT AND
ITS ASSOCIATED 10 MODULE S AND EQUIPMENT. THESE INCLUDE 7950 AND 7954 STORED OUTPUT MODULES 7952 AND
7953 PULSED OUTPUT MODULES, AD30-12 AND AD35SH AN ALOG-TO-DIGITAL CONVERTER, DA35-9, DA35-15 AND DA36-15
XDS D/A CHANNEL CONTROLLERS, AND THE MU55 MULTIPLEXER AND RELATED EXTENSIONS.

REQUIRES 8K, TYPEHRITER, PAPER TAPE OR CARD READER AND THE EQUIPMENT LISTED ABOVE. THE PROGRAM IS SELF-LOADING. THE 7922 MAY B E CONNECTED TO THE DIO OR TO A 7929 10P-DIO ADAPTER.

704235

7910/14/15 SIU DIAGNOSTIC PROGRAM

35 SIGMA 2/3 7910 AUTHOR:XEROX, DATA SYSTEMS DIVISION

ABSTRACT:
THE PROGRAM PROVIDES A MEANS OF CHECKING THE OPERATION OF THE 7910/7914/7915 SYSTEM INTERFACE UNITS AND ASSOCIATED 1/0 MODULES.

COMMENTS:

REQUIRES BK. TYPEHRITER, PAPER TAPE OR CARD READER IN ADDITION TO THE ANALOG EQUIPMENT. THE ABSOLUTE BINARY DECK OR PAPER TAPE INCLUDES THE LOADER.

SIGMA 2 704449

8050 EXTERNAL MEMORY ADAPTER DIAGNOSTIC

AUTHOR: XEROX

ABSTRACT:

THE PURPOSE OF THE 8050 EXTERNAL MEMORY ADAPTER DIAGNOSTIC IS TO VERIFY THE FUNCTIONS OF THE SIGMA 2 EXTERNAL MEMORY ADAPTER AND ASSOCIATED SIGMA 7 MEMORY (8451/8452). THE PROGRAM HAS THE CAPABILITY OF TESTING LOGIC FEATURES OF THE ADAPTER INCLUDING MAPPING, AND SIGMA 7 MEMORY MAGNETICS.

SIGMA 2/3-530 705286 AUTHOR: XEROX

PERIPHERAL SHITCHING EQUIP. DIAGNOSTIC

ARSTRACT:

STRACT:
THE DIAGNOSTIC PROGRAM FOR THE PERIPHERAL SHITCHING EQUIPMENT (PSE), MODEL 7710, MODEL 7720 IS ASSEMBLED MITH AND OPERATES UNDER THE CONTROL OF THE SIGMA 2 DIAGNOSTIC CONTROL PROGRAM (DCP). IT PROVIDES FOR PORT SELECTION, PORT STATUS SENSING AND HIGH SPEED EXERCISING OF PORT SHITCHING LOGIC. IT ALSO PROVIDES AUTOMATIC DIRECTIVES FOR THE VERIFICATION AND TEST OF PORT SHITCHING LOGIC, THE HRITE DIRECT DATA/ADDRESS LINES AND THE 8 BIT DATA PATH INTERFACE LINES. INCORPORATED INTO THESE AUTOMATIC DIRECTIVES ARE ERROR REPORTING, LOOP ON ERROR AND PLACE MARK BRANCHING ON ERROR.

PROUITED CONFIGURATION. A SIGMA 2 COMPUTER HITH 8K OF MEMORY, EXTENDED DIO DATA BUSS, A KEYBOARD/PRINTER, A XDS JX58 TESTER AND A CARD OR PAPER TAPE READER. A MODEL 7710 DIO BUSS SHARING ADAPTER OR A MODEL 7720 MULTI-CONTROLLER PERIPHERAL SHITCH IS REQUIRED. A LINE PRINTER FOR ERROR REPORTING IS OPTIONAL. COMMENTS:

705297

SIGMA 2/3-530

CHANNEL INTERFACE UNIT TEST DIAGNOSTIC

AUTHOR: XEROX CORPORATION

STRACT:
THE DIAGNOSTIC PROGRAM FOR THE CHANNEL INTERFACE UNIT (CIU), MODEL 7650 IS ASSEMBLED WITH AND OPERATES UNDER THE CONTROL OF THE SIGMA 2 DIAGNOSTIC CONTROL PROGRAM (DCP). THE CIU DIAGNOSTIC PROGRAM ALLOHS THE USER TO: ISSUE INDIVIDUAL 1/0 INSTRUCTIONS, TRANSFER A SPECIFIC NUMBER OF DATA BYTES, DISPLAY A RECEIVED BYTE PATTERN, TEST AUTOMATICALLY A CIU OR PAIR OF CIU'S ON A SINGLE SIGMA SYSTEM AND TEST AUTOMATICALLY THE TRANSFER OF STATUS AND DATA BETHEEN CIU CONNECTED SIGMA SYSTEMS. INDIVIDUAL 1/0 ISSUING DIRECTIVES WILL, UPON COMPLETION, REPORT DEVICE STATUS AND THEN TAKE A PLACEMARK BRANCH IF ANY BIT COMPARES WITH A BIT IN A COMPARE STATUS BYTE PARAMETER. AUTOMATIC DIRECTIVES WILL HALT EXECUTION, UPON DETECTION OF AN ERROR, THE ERROR WILL BE REPORTED AND A PLACEMARK BRANCH WILL BE TAKEN. **ABSTRACT:**

CONFIGURATION: AT LEAST ONE SIGMA 2 COMPUTER HITH MK OF MEMORY AND A COUNTER 1 REAL TIME CLOCK (2 MILISECONDS), A CARD READER OR 8 LEVEL PAPER TAPE READER, A KEYBOARD/PRINTER AND ONE OR MORE MODEL 7850 CHANNEL INTERFACE UNITS ARE REQUIRED. A LINE PRINTER FOR ERROR REPORTING IS OPTIONAL.

705382

SIGMA 2

MODIFIED 7910/14/22 ANALOG DIAG. PROG.

AUTHOR: XEROX

ABSTRACT:

ADDITIONS TO THE STANDARD RELEASED SIU DIAGNOSTIC PROGRAM SAVES INFORMATION OBTAINED DURING BOTH SINGLE CHANNEL INPUT TESTS (SCI) AND SUMMARY INPUT TESTS (SIT) BY RECORDING ON MAGNETIC TAPE THE PERTIMENT INFORMATION PRINTED DUT ON EITHER THE LINE PRINTER OR KEYBOARD PRINTER. THIS PROGRAM IS A MODIFICATION OF CATALOG NUMBER 704235

SOURCE LANGUAGE: SYMBOL, CONFIGURATION: XDS SIGMA 2,16K OF CORE ONE MAG. TAPE, KEYBOARD PRINTER, CARD READER, (OPTIONAL-LINE PRINTER).

705388

SIGMA 2/3

7923/28/29 SIU DIAGNOSTIC PROGRAM

AUTHOR: XEROX ABSTRACT:

THE SIGMA 2 7923/29 SYSTEM INTERFACE UNITS DIAGNOSTIC PROVIDES DEMONSTRATION AND DIAGNOSTIC CAPABILITIES FOR THE S.I.U.'S AND THEIR ASSOCIATED I/O MODULES AND EQUIPMENT.

705533 SIGMA 3-530

REMOVABLE DISC STORAGE TEST

AUTHOR: XEROX ABSTRACT:

ASTRACT:
THIS PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURES TO THE
SMALLEST POSSIBLE LOGIC SEGMENT IN THE REMOVABLE DISC STORAGE CONTROLLER (MODEL 7240), DUAL SPINDLE DISC
DRIVE (MODEL 7242) AND DUAL CHANNEL OPTION (MODEL 7241). THE RANDOM EXERCISER AND SOME UTILITY TEST
FUNCTIONS (SURFACE TEST, HEADER HRITE/READ, COMPATIBILITY TEST) ARE INCLUDED IN THE TEST PROGRAM.
THE TEST PROGRAM IS INTERFACED TO THE DIAGNOSTIC PROGRAM MONITOR.

COMMENTS:
SIGMA 2/3 CFU HITH 12K OF MEMORY; PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE, MAGNETIC TAPE; MESSAGE OUTPUT DEVICE: KSR, LINE PRINTER; REMOVABLE DISC STORAGE CONTROLLER AND DRIVE UNIT.

705652

SIGMA 2/3-530

XEROX KEYBOARD PRINTER (ASR/KSR) (16-BIT)

AUTHOR: XEROX

ABSTRACT:

THE TEST PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND ISOLATE THE FAILURE TO THE SMALLEST POSSIBLE LOGIC SEGMENT IN THE KEYBOARD/PRINTER HITH PAPER TAPE READER/PUNCH (MODEL 7020-2) AND THE KEYBOARD/PRINTER (MODEL 7012-2). THE RANDOM EXERCISER AND SOME UTILITY FUNCTIONS (CHARACTER SPACING ADJUSTMENT, PAPER TAPE PUNCH/READ/VERIFY) ARE INCLUDED IN THE TEST PROGRAM, THE TEST PROGRAM INTERFACES THE DIAGNOSTIC PROGRAM MONITOR.

THIS PROGRAM WILL RUN UNDER FREESTANDING OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

SIGMA 2/3 CPU HITH 8K OF MEMORY; PROGRAM INPUT DEVICE (CARD READER, PAPER TAPE READER, MAGNETIC TAPE);

OPTIONAL MESSAGE OUTPUT DEVICE (LINE PRINTER, ASK, KSR).

705681 SIGMA 2/3 DIAGNOSTIC PROGRAM MONITOR (DPM)

AUTHOR: XEROX ABSTRACT:

A MONITOR PROGRAM HHICH HILL INTERFACE AND CONTROL ALL SIGMA DIAGNOSTIC PROGRAMS. THE PROGRAM PROVIDES BASIC UTILITY FEATURES THROUGH THE USE OF DIRECTIVES. THE DPM MUST BE USED IN CONJUNCTION HITH THE SIGMA 2/3 DIAGNOSTIC LOADER - 705299.

REQUIRES A MINIMUM OF 16K OF MEMORY, A KSR AND AN INPUT SOURCE SUCH AS CARD READER OR PAPER TAPE READER.

705693

SIGMA 2/3

DIAG.PROG.MAG.TAPE LIBRARY CONTROL PROG.

AUTHOR: XEROX ABSTRACT:

THIS PROGRAM HILL LOAD DIAGNOSTIC PROGRAMS FROM A 9-TRACK MAG. TAPE BY TYPING THE ASSIGNED PROGRAM NAMES. IT CAN ADD, DELETE OR REPLACE PROGRAMS FROM THE TAPE. IT HILL ALSO FUNCTION ON A 7-TRACK MAG. TAPE HITH A PACKING OPTION. NAMES.

COMMENTS:

THE PROGRAM REQUIRES A SIGMA 2 OR 3 HITH AT LEAST 16K OF MEMORY, A KSR/ASR, AT LEAST ONE MAG. TAPE UNIT TO LOAD PROGRAMS AND AT LEAST THO MAG. TAPE UNITS TO UPDATE THE MAG. TAPE LIBRARY AND A CARD READER. A LINE PRINTER IS OPTIONAL.

705694 SIGMA 2/3 DIAGNOSTIC PROGRAM MAGNETIC TAPE LIBRARY

AUTHOR: XEROX

ABSTRACT:

SSTRACT:
THO DIAGNOSTIC TAPE LIBRARIES ARE AVAILABLE: A BINARY (-86) AND A COMPRESSED (-46). THE BINARY TAPE
CONTAINS SIGMA 2/3 DIAGNOSTIC PROGRAMS HHICH ARE CURRENTLY SUPPORTED BY THE DIAGNOSTIC PROGRAMING
SECTION AND SYSTEMS. THE COMPRESSED TAPE CONTAINS THE COMPRESSED SOURCE LINES FOR ALL PROGRAMS ON THE
BINARY TAPE HHICH ARE SUPPORTED BY THE DIAGNOSTIC PROGRAMING SECTION. THE COMPRESSED LIBRARY TAPE (-48)
IS AVAILABLE ONLY FROM FIELD ENGINEERING REGIONAL MANAGEMENT. REFER TO THE PROGRAM DESCRIPTION 705694-11 FOR LOADING AND USE INSTRUCTIONS.

REGUIRED EQUIPMENT: SIGMA 2 OR 3 COMPUTER, 1 9-CHANNEL MAGNETIC TAPE UNIT, 1 KEYBOARD PRINTER.

705863

SIGMA 2/3-530

COMPREHENSIVE RAD TEST

AUTHOR: XEROX ABSTRACT

SSTRACT:

THIS PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURE TO A FUNCTION IN THE FOLLOWING RAD CONTROLLERS AND STORAGE UNITS: CONTR: 7201, 7201-3, 7231, 7231-3 STORAGE UNITS: 7203,7204,7232 ANY EXERCISER IS INCLUDED WHICH OPERATES THE RAD STORAGE SYSTEM IN A PSEUDO-RANDOM FASHION. THIS TEST IS USEFUL IN THE DETECTION OF INTERACTION AND INTERMITTENT FAILURES. A UTILITY TEST PROVIDES THE CAPABILITY OF EXTENSIVE SURFACE TESTING AND OF CHANGING THE SCOPE OF TESTING THRU OPTIONAL PARAMETERS AND DIRECTIVES. THIS TEST PROGRAM IS INTERFACED WITH AND OPERATES UNDER THE CONTROL OF THE DIAGNOSTIC PROGRAM MONITOR (OPM).

PROGRAM MONITOR (DPM). SIGMA 2/3 CPU WITH 16K OF MEMORY. PROGRAM INPUT DEVICE: CR, PT, 7T. CONTROL INPUT: KSR. MESSAGE OUTPUT: KSR, LP. DEVICES TO BE TESTED: MODEL 7201(7201-3)/7202/7203/7204, MODEL 7231(7231-3)/7232

705866 SIGMA 2/3-530 9 CHANNEL MAGNETIC TAPE TEST

AUTHOR: XEROX

ABSTRACT

THIS PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURES TO THE SMALLEST POSSIBLE LOGIC SEGMENT IN THE 9 CHANNEL MAGNETIC TAPE CONTROLLER (MODEL 7321/7320) AND STATION

705868 CONTINUED ON FOLLOWING PAGE

9 CHANNEL MAGNETIC TAPE TEST (CONTINUED)

(MODEL 7322/7323). THE RANDOM EXERCISER AND SOME UTILITY TESTS ARE INCLUDED IN THE PROGRAM. THE TEST PROGRAM IS INTERFACED HITH THE DIAGNOSTIC PROGRAM MONITOR. 705866

COMMENTS:
SIGMA 2/3 CPU HITH 16K OF MEMORY, PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE READER, MAGNETIC TAPE:
MESSAGE OUTPUT DEVICE: KSR, LINE PRINTER; 9 CHANNEL MAGNETIC TAPE CONTROLLER AND TAPE STATION.

7 CHANNEL MAGNETIC TAPE TEST SIGMA 2/3-530

AUTHOR: XEROX

STRACT:
THIS PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURES TO THE
SMALLEST POSSIBLE LOGIC SEGMENT IN THE 7 CHANNEL MAGNETIC TAPE CONTROLLER (MODEL 7381/7365/7371/7374)
AND STATION (MODEL 7362/7372). THE RANDOM EXERCISER AND SOME UTILITY TESTS ARE INCLUDED IN THE TEST
PROGRAM. THE TEST PROGRAM IS INTERFACED WITH THE DIAGNOSTIC PROGRAM MONITOR. ABSTRACT:

COMMENTS: JUNEAUIS: Sigma 2/3 Hith 16k of memory program input device: Card Reader, Paper Tape Reader, Magnetic Tape: Message Output Device: KSR, Line Printer, 7 Channel Magnetic Tape Controller and Tape Station.

ADS-10 SIU DIAGNOSTIC SIGMA 2/3 705885

AUTHOR: XEROX

ABSTRACT: THE PROGRAM PROVIDES A MEANS OF CHECKING THE OPERATION OF THE ADS-10 SYSTEM INTERFACE UNIT.

PRIENTS:
REQUIRED HARDHARE: 8K OF MEMORY, KEYBOARD/PRINTER, PAPER TAPE READER OR CARD READER, ADS-10 ANALOG INPUT
CONTROLLER, MO41 MULTIPLEXER-DIGITIZER OR CD51 CONTROLLER-DIGITIZER AND 1-8 DM40 DIFFERENTIAL
MULTIPLEXERS. OPTIONAL HARDHARE: 7969 FREQUENCY CONTROL SUBSYSTEM. TEST EQUIPMENT: A PRECISION VOLTAGE COMMENTS: SOURCE

7915/ADS-10 SIU DIAGNOSTIC 705892 SIGMA 2/3

AUTHOR: XDS DATA SYSTEMS DIVISION

ABSTRACT:

THE PROGRAM PROVIDES A MEANS FOR FINAL ACCEPTANCE TESTING OF THE 7915/ADS-10 ANALOG INPUT CONTROLLER AND ITS ASSOCIATED I/O MODULES.

COMMENTS:

REQUIRED HARDWARE: SIGMA 2/3(8K MINIMUM), CARD READER OR PAPER TAPE READER, TELETYPE, 7915/ADS-10 ANALOG INPUT CONTROLLER AND ITS ASSOCIATED I/O MODULES. OPTIONAL HARDWARE: LINE PRINTER, MAGNETIC TAPE UNIT, 7969 FREQUENCY CONTROL SUBSYSTEM.

XEROX DISPLAY STATION DIAGNOSTIC PROGRAM 0 SIGMA 2/3-530 XEROX DISPLAY STATION AUTHOR: HESTERN TECHNOLOGY CENTER, XEROX CORPORATION 706110

THE PURPOSE OF THE DIAGNOSTIC IS: (1) TO PROVIDE A MEANS FOR IN HOUSE CHECKOUT OF NEW DISPLAY STATIONS. (2) TO PROVIDE A BASIS FOR QUALITY ACCEPTANCE OF DISPLAY STATIONS, (3) TO PROVIDE A DIAGNOSTIC CAPABILITY FOR SYSTEMS IN THE FIELD TO DIAGNOSE A REMOTELY LOCATED AND UNATTENDED TERMINAL.

CONFIGURATION REQUIRED: SIGMA 2/3 COMPUTER, OPERATOR TYPEHRITER, CARD READER, COUNTER 1 REAL-TIME CLOCK. 7611 CHARACTER-ORIENTED COMMUNICATIONS CONTROLLER OR CC32 PROCEDURE-ORIENTED COMMUNICATIONS CONTROLLER. 16K CORE MEMORY, XEROX DISPLAY STATION CONTROLLER, DISPLAY STATION AND KEYBOARD.

COMPREHENSIVE LINE PRINTER TEST 706168 SIGMA 2/3-530

AUTHOR: XEROX ABSTRACT:

THIS TEST PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURES TO THE SMALLEST POSSIBLE LOGIC SEGMENT IN THE LINE PRINTER (MODEL 7440/7445,7441,7448 OR 7450). THE RANDOM EXERCISER AND SOME UTILITY TEST FUNCTIONS ARE INCLUDED IN THE TEST PROGRAM. THE TEST PROGRAM IS INTERFACED TO THE DIAGNOSTIC PROGRAM MONITOR.

COMMENTS: SIGMA 2/3 CPU HITH 16K OF CORE MEMORY; PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE READER, MAGNETIC TAPE UNIT; MESSAGE OUTPUT DEVICE: KSR, LINE PRINTER; LINE PRINTER TO BE TESTED.

COMPREHENSIVE CARD EQUIPMENT TEST SIGMA 2/3-530 706170

AUTHOR: XEROX

STRACT:
THIS TEST PROGRAM PROVIDES THE CAPABILITY TO DETECT AND ISOLATE SOLID LOGIC FAILURES OCCURRING IN ALL
STANDARD CARD PUNCH AND READER EQUIPMENT (MODELS 7160-1,7160-2,7165 AND MODELS 7120,7121,7122,7140
RESPECTIVELY). A RANDOM EXERCISER AND SOME UTILITY FUNCTIONS ARE INCLUDED IN THE TEST PROGRAM TO
RESPECTIVELY DETECT INTERMITTENT CONTROLLER AND/OR MECHANISM FAILURES, AND AID THE OPERATOR IN MECHANISM
ADJUSTMENTS. THE TEST PROGRAM IS INTERFACED TO THE DIAGNOSTIC PROGRAM MONITOR. ABSTRACT:

COMMENTS: SIGMA 2/3 CPU HITH 16K OF CORE MEMORY; PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE READER, OR MAGMETIC TAPE UNIT; MESSAGE OUTPUT DEVICE: KSR, LINE PRINTER; CARD PUNCH AND/OR READER TO BE TESTED.

2 SIGMA 2/3-530 CC-32/33 DIAGNOSTIC PROGRAM AUTHOR: XEROX CORPORATION, DATA SYSTEMS DIVISION 706202

ABSTRACT:

TESTS AND EXERCISES THE HODEL CC-32 PROCEDURE ORIENTED COMMUNICATIONS CONTROLLER. DEVICE MAY BE OPERATED

708202 CONTINUED ON FOLLOHING PAGE

(CONTINUED)

CC-32/33 DIAGNOSTIC PROGRAM
IN ASYNCHRONOUS OR SYNCHRONOUS MODE, HITH NORMAL OR TRANSPARENT TEXT TRANSMISSION. COMMENTS:

THIS PROGRAM IS AN EXTENSION OF THE MODEL 7601 DATA SET CONTROLLER DIAGNOSTIC. THE PROGRAM DESCRIPTION FOR THE CC-32 DIAGNOSTIC SHOULD BE READ IN CONJUNCTION HITH THE 7601 DIAGNOSTIC PROGRAM MANUAL (901510). BK MIN OF CORE MEMORY REQUIRED

706262 SIGMA 3 7580 GRAPHIC DISPLAY DIAGNOSTIC

AUTHOR: XEROX, WESTERN TECHNOLOGY CENTER

ABSTRACT:

THIS PROGRAM SERVES AS A DIAGNOSTIC AND DEMONSTRATION TOOL FOR THE 7580 GRAPHIC DISPLAY SUB-SYSTEM. COMMENTS:

REQUIRES HARDHARE: 8K OF SIGMA 3 MEMORY, 4K OF SIGMA 5-9 MEMORY, AN 8150 SIGMA 5-9 MEMORY ADAPTER, AN 8170 DIRECT 1/0 INTERFACE FEATURE, 2 EXTERNAL INTERRUPTS, A KEYBOARD/PRINTER AND A CARD READER, PAPER TAPE READER OR MAGNETIC TAPE UNIT.

706417 SIGMA 2/3-530 9-CHANNEL POTTER MAGNETIC TAPE TEST

AUTHOR: XERGX, HESTERN TECHNOLOGY CENTER

ABSTRACT:

THIS PROGRAM IS A MODIFIED-FOR-POTTER-UNITS-ONLY VERSION OF THE STANDARD SIGMA 2/3 9-TRK MAGNETIC TAPE

TEST (#705866-A04) COMMENTS:

REQUIRED EQUIPMENT: SIGMA 2/3 HITH 16K MIN.MEM; MAGN.TAPE POTTER UNITS 75.120, OR 150 IPS; CR, PTR, OR MTU FOR PROGRAM INPUT; KEYBOARD PRINTER OR LINE PRINTER FOR MESSAGE OUTPUT. REFER TO ALL STD SIGMA 2/3 9-TRK MAG-TAPE TEST REFERENCE MATERIALS. POTTER-MODIFIED VERSION REFLECTED BY *B00,COLS 89-72 IN LISTING.

706477

EXERCISER CONTROL PROGRAM

7 SIGMA 2/3-530 AUTHOR: XEROX CORPORATION

ABSTRACT:

SSTRACT:
THE EXERCISER CONTROL PROGRAM CONTROLS THE LOADING AND EXECUTION OF SELECTED PERIPHERAL EXERCISERS.
SINCE THE EXERCISERS ARE ASSEMBLED SPEARATELY FROM THE CONTROL PROGRAM, INTER-PROGRAM COMMUNICATION IS
ESTABLISHED BY HAY OF INTERFACE TABLES. IT ALSO INITIATES THE EXERCISER AND CONTROLS THE EXECUTION OF
THE EXERCISER'S TESTS AND TERMINATES THE EXERCISER HHEN ITS LAST TEST HAS COMPLETED.

THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN

PROGRAM IS HRITTEN IN METASYMBOL.

THIS IS ONLY THE CONTROL PROGRAM FOR THE ON-LINE EXERCISER SYSTEM. THE PERIPHERAL EXERCISERS ARE NOT INCLUDED UNDER THIS PROGRAM CATALOG NUMBER.

706478 SIGMA 2/3-530 CARD READER/CARD PUNCH EXERCISER

AUTHOR: XEROX CORPORATION ABSTRACT:

THIS PROGRAM HILL READ OR PUNCH A PREDEFINED AND PSEUDO RANDOM CARD DECKS FROM THE CARD READER OR CARD PUNCH. THIS EXERCISER HAS FIVE TESTS IN TOTAL (3 STANDARD AND 2 USER DEFINED). THE CARD READER TESTS ULTILIZE THE CARD DECKS PUNCHED OUT BY THE CARD PUNCH TESTS. COMMENTS:

THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. BASE LANGUAGE MAIN PROGRAM IS METASYMBOL. PROGRAM TYPE IS DIAGNOSTIC.
THIS EXERCISER EXECUTES UNDER THE CONTROL OF THE EXERCISER CONTROL PROGRAM (PROGRAM CATALOG NUMBER

IT HILL NOT RUN ALONE UNDER RBM.

706479 9 SEGMA 2/3-530 AUTHOR:XEROX CORPORATION LINE PRINTER EXERCISER

ABSTRACT:

THE LINE PRINTER EXERCISER HILL PRINT A VARIETY OF PATTERNS ON THE LINE PRINTER FOR CHECKING VARIOUS PRINTING MALFUNCTIONS AS WELL AS CHECKING THE VERTICAL FORMAT CONTROL. THIS EXERCISER HAS NINE TEST IN TOTAL (8 STANDARD AND 1 USER DEFINED).

THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THIS EXERCISER EXECUTES UNDER THE CONTROL OF THE EXERCISER CONTROL PROGRAM (PROGRAM CATALOG NUMBER 706477). IT HILL NOT RUN ALONE UNDER RBM.

SIGMA 2/3-530

MAGNETIC TAPE EXERCISER

AUTHOR: XEROX CORPORATION

THE MAGNETIC TAPE EXERCISER HILL READ AND WRITE TO EITHER 7 OR 9 TRACK MAGNETIC TAPE. IT ALSO VERIFIE WHETHER THE TAPE CAN BE MOVED OFF OF LOAD POINT AND WHETHER THE BASIC POSITIONING OF THE DRIVE CAN BE ACCOMPLISHED. THIS EXERCISER HAS SIX TESTS IN TOTAL (5 STANDARD AND I USER DEFINED). ONE OF THE STANDARD TESTS WILL ONLY EXECUTE FOR 9-TRACK TAPES SINCE THE READ REVERSE FUNCTION IS TESTED. IT ALSO VERIFIES COMMENTS:

THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

THIS EXERCISER EXECUTES UNDER THE CONTROL OF THE EXERCISER CONTROL PROGRAM (PROGRAM CATALOG NUMBER 706477). IT WILL NOT RUN ALONE UNDER RBM.

ERROR LOG LIST/ANALYSIS PROGRAM SIGMA 2/3-530 AUTHOR:XEROX CORPORATION 706481

THE ERROR LOG LIST/ANALYSIS PROGRAM IS A TOOL FOR FIELD ENGINEERING BY WHICH THE ERRORS LOGGED BY AN OPERATING SYSTEM ARE LISTED IN A COMPREHENSIVE AND READABLE FORMAT. SELECTION OF DEVICES, ERROR TYPES AND TIME SPAN IS OFFERED TO THE USER FOR FLEXIBILITY AND EASE OF OPERATION. THE VARIOUS LISTINGS OFFERED ARE: CHRONOLOGICAL LISTING, SORTED LISTING, SUMMARY OF ERRORS AND GRAPHICAL DISPLAY. ABSTRACT:

OMMENTS:
THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL. THIS PROGRAM RUNS UNDER RBM AS A BACKGROUND PROGRAM IN AN OVERLAY FASHION. THE PROGRAM CONSIST OF A ROOT PROGRAM AND 5 OVERLAY PROGRAMS HHICH ARE JOINED IN AN OVERLAY MODE FOR EXECUTION. THE OTHER 5 OVERLAY PROGRAMS ARE: 706482, 706483, 706484, 706485, 706486, AND 706487. REFER TO SPECIFICATION NO. 703172 FOR LOADING AND ADDITIONAL INFORMATION. COMMENTS:

CONTROL PROGRAM FOR ELLA 530 SIGMA 2/3-530 706482

AUTHOR: XEROX CORPORATION

THE CONTROL PROGRAM FOR ELLA 530 IS THE CONTROLLING SEGMENT WHICH ALLOWS THE USER TO CHOOSE THE VARIOUS FUNCTIONS OFFERED BY THE ERROR LOG LIST/ANALYSIS PROGRAM. FOR FURTHER INFORMATION REFER TO SPECIFICATION NO. 703172 TITLED ERROR LOG LIST/ANALYSIS PROGRAM FOR XEROX 530. ABSTRACT:

THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN THIS PROGRAM HE WEITTEN IN METASYMBOL. THE CONTROL PROGRAM WILL NEED THE FOLLOWING PROGRAMS TO FORM THE ERROR LOG LIST/ANALYSIS PROGRAM: 706483, 706484, 706485, 706486, AND 708487. COMMENTS:

3 SIGMA 2/3-530 AUTHOR:XEROX CORPORATION CHRONOLOGICAL LIST. MODULE FOR ELLA 530 706483

THE CHRONOLOGICAL LISTING PROGRAM IS ONE OF 5 RELOCATABLE OBJECT MODULES HHICH IS PART OF THE ERROR LOG LIST/ANALYSIS PROGRAM. THIS MODULE UNDER THE CONTROLLING ROOT (ELLA) LISTS OUT THE ERROR RECORDS IN A CHRONOLOGICAL FASHION. REFER TO SPECIFICATION NO. 703172 FOR ADDITIONAL INFORMATION. ABSTRACT:

THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL. THIS PROGRAM HILL NOT RUN EXCEPT AS AN OVERLAY PROGRAM TO THE ERROR LOG LIST/ANALYSIS PROGRAM. COMMENTS:

BOUNDARY ROUTINE FOR ELLA 530 SIGMA 2/3-530 706484

AUTHOR: XEROX CORPORATION

THE BOUNDARIES MODULES SET THE BOUNDARY VALUES FOR DEVICE, MODEL, ERROR TYPES AND TIME SPAN FOR THE ERROR LOG LIST/ANALYSIS PROGRAM. THIS IS ONE OF 5 RELOCATABLE OBJECT MODULES THAT IS PART OF THE ERROR LOG LIST/ANALYSIS PROGRAM. REFER TO SPECIFICATION NO. 703172 FOR ADDITIONAL INFORMATION. ABSTRACT:

THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYBOL. THIS PROGRAM IS WRITTEN IN METASYBOL. THIS PROGRAM WILL NOT RUN EXCEPT AS AN OVERLAY PROGRAM TO THE ERROR LOG LIST/ANALYSIS PROGRAM.

GRAPHICAL DISPLAY MODULE FOR ELLA 530 SIGMA 2/3-530 706485

AUTHOR: XEROX CORPORATION

THE GRAPHICAL DISPLAY MODULE HILL DISPLAY THE ERROR RECORDS IN A GRAPHICAL MANNER. THIS IS ONE OF 5 RELOCATABLE OBJECT MODULES THAT IS PART OF THE ERROR LOG LIST/ANALYSIS PROGRAM. REFER TO SPECIFICATION NO. 703172 FOR ADDITIONAL INFORMATION. ABSTRACT:

COMMENTS THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HETASYMBOL.
THIS PROGRAM WILL NOT RUN EXCEPT AS AN OVERLAY PROGRAM TO THE ERROR LOG LIST/ANALYSIS PROGRAM.

SUMMARY MODULE FOR ELLA 530 SIGMA 2/3-530 706486

AUTHOR: XEROX CORPORATION

ABSTRACT:
THE SUMMARY MODULE LISTS OUT A SUMMARY OF THE ERRORS FROM THE ERROR LOG. THIS IS ONE OF 5 RELOCATABLE
OBJECT MODULES THAT IS PART OF THE ERROR LOG LIST/ANALYSIS PROGRAM. REFER TO SPECIFICATION NO. 703172
OBJECT MODULES THAT IS PART OF THE ERROR LOG LIST/ANALYSIS PROGRAM. REFER TO SPECIFICATION NO. 703172
OF THE PROGRAM OF TH

MINENTS:
THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN
PROGRAM IS HRITTEN IN METASYMBOL.
THIS PROGRAM HILL NOT RUN EXCEPT AS AN OVERLAY PROGRAM TO THE ERROR LOG LIST/ANALYSIS PROGRAM. COMMENTS:

SORTED LISTING MODULE FOR ELLA 530 7 SIGMA 2/3-530 AUTHOR:XEROX CORPORATION 706487

THIS MODULE HILL PRODUCE A SORTED PRINT-OUT OF THE ERROR LOG. THIS IS ONE OF 5 RELOCATABLE OBJECT MODULES THAT IS PART OF THE ERROR LOG LIST/ANALYSIS PROGRAM. REFER TO SPECIFICATION #703172 FOR FURTHER INFORMATION. ABSTRACT:

THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. THIS PROGRAM HILL NOT RUN EXCEPT AS AN OVERLAY PROGRAM TO THE ERROR LOG LIST/ANALYSIS PROGRAM. COMMENTS:

BS SIGMA 2/3-530 AUTHOR:XEROX CORPORATION 706488

ON-LINE EXERCISER SYSTEM

ABSTRACT:

THE GOAL OF THE ON-LINE EXERCISER SYSTEM IS TO PROVIDE A TOOL FOR THE CUSTOMER AND CUSTOMER ENGINEER
HITH HHICH HE CAN TEST PARTICULAR SECTIONS OF THE HARDHARE OF THE SYSTEM HITHOUT DEGRADING THE
FOREGROUND JOBS UNDER AN RBM ENVIRONMENT. THE ON-LINE EXERCISER PACKAGE DOES NOT DIAGNOSE. THUS THE
ADVANTAGE OF THE ON-LINE EXERCISER SYSTEM IS TO BE ABLE TO VERIFY THAT A RESOURCE ELEMENT IS IN PROPER
HORKING ORDER, HITHOUT TAKING THE SYSTEM INTO AN OFF-LINE ENVIRONMENT. COMMENTS:

THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN THIS PROGRAM WILL ROW UNDER RIGH OPERATING SYSTEM. PROGRAM TYPE IS DIA PROGRAM 15 WRITTEN IN METASYMBOL.

THIS CATALOG NUMBER ONLY REPRESENTS THE LOAD MODULE FOR THE FOLLOWING:

1. EXERCISER CONTROL PROGRAM (CATALOG NUMBER 706477)

2. CARD READER/CARD PUNCH EXERCISER (CATALOG NUMBER 706478)

3. LINE PRINTER EXERCISER (CATALOG NUMBER 706490)

4. MAGNETIC TAPE EXERCISER (CATALOG NUMBER 706480)

THE ON-LINE EXERCISER SYSTEM WILL RUN AS A RBM USER PROGRAM USING ONLY THE FACILITIES THAT ARE AVAILABLE TO ANY USER, PLUS FOR THE CAPABILITY TO ACCESS A IDOWN! DEVICE. IT EXECUTES ITS I/O'S BY USING M:READ'S AND M:HRITES'S. ALSO, ALL ERRORS HILL BE LOGGEN INTO THE STANDARD RBM ERROR LOG FILE.

720000

XEROX DIAG.PROG. LOADER (18-BIT MACHINE)

00 SIGMA 2/3-530 AUTHOR:XEROX CORPORATION

ABSTRACT:

ISTRACT:
THE DIAGNOSTIC PROGRAM LOADER (16-BIT MACHINE) HILL LOAD ABSOLUTE AND AND RELOCATABLE BINARY OBJECT
MODULES IN STANDARD XSYMBOL FORMAT INTO MEMORY. IT HILL HANDLE AS PROGRAM MEDIA CARD DECKS, PAPER TAPE
AND MAGNETIC TAPE.

COMMENTS: OMMENTS:
THE LOADER MUST ALMAYS PRECEDE THE OBJECT MODULE IT IS TO LOAD. OBJECT MODULES CAN BE LOADED ABOVE THE
LOADER ITSELF. THE FOLLOWING LOAD ITEMS ARE HANDLED BY THIS LOADER, ALL OTHERS ARE ILLEGAL: TYPE 0,
SUBTYPE 1, 2, 3, 4, 5, 7. NOTE: THE -84 VERSION OF THIS PROGRAM IS NOT A DIRECT OUTPUT OF A SOURCE
ASSEMBLY. THE ASSEMBLY OUTPUT MUST BE LOADED BY A DIAG. PROG. LOADER AND HILL PUNCH OUT A FORMATTED -84

VERSION.

720001

XEROX 530

HARDCORE MEMORY DIAGNOSTIC

AUTHOR: XEROX CORPORATION

ABSTRACT:

THE XEROX 530 H.C. MEMORY DIAGNOSTIC IS A FREESTANDING AND SELFLOATING PROGRAM. IT HILL PROVIDE THE CAPABILITY TO VERIFY THE SUCCESSFUL OPERATION OF THE FIRST 8K OF MEMORY AND DETECT AND ISOLATE SINGLE HARD FAILURES WITHIN THE FIRST MEMORY MODULE. COMMENTS:

UMBENTS:
THIS PROGRAM IS THE ONLY MEMORY DIAGNOSTIC FOR A XEROX 530 SYSTEM OF ONLY BK OF MEMORY. THE PROGRAM
HILL RESIDE: IN THE FIRST HALF OF THE MEMORY TO TEST THE LAST HALF AND THEN RELOCATE ITSELF TO LAST HALF
OF MEMORY TO TEST THE FIRST HALF. RELOCATION IS DYNAMIC AND AUTOMATIC DURING EXECUTION. A XEROX 530
MEMORY DIAGNOSTIC PROGRAM (720002) IS AVAILABLE FOR SYSTEMS HITH MORE THAN BK OF MEMORY.
NOTE: THE -84 VERSION OF THIS PROGRAM IS NOT A DIRECT OUTPUT OF A SOURCE ASSEMBLY. THE ASSEMBLY OUTPUT
MUST BE LOADED BY A DIAG. PROG. LOADER AND HILL PUNCH OUT A FORMATTED -84 VERSION.

720002

MEMORY DIAGNOSTIC

2 XEROX 530
AUTHOR:XEROX CORPORATION

ABSTRACT

THE XEROX 530 MEMORY DIAGNOSTIC PROGRAM IS A DPM (720001) INTERFACED PROGRAM. IT WILL PROVIDE THE CAPABILITY TO VERIFY THE SUCCESSFUL OPERATION OF MEMORY AND TO DETECT AND ISOLATE SINGLE HARD FAILURES WITHIN THE XEROX 530 MEMORY SYSTEM TO A MINIMUM HARDHARE MODULE SET.

THE PROGRAM REQUIRES A MINIMUM OF 16K OF MEMORY. IT IS NOT RELOCATABLE AND CANNOT TEST ITS OHN RESIDENT AREA. HHICH IS THE FIRST BK OF MEMORY. A BK MEMORY PROGRAM (720001) IS AVAILABLE TO TEST THIS AREA. THE DIAGNOSTIC PROGRAM MONITOR (DPM) MUST BE RESIDENT BEFORE THIS PROGRAM IS LOADED INTO MEMORY. THE CARD DECK CONSISTS OF THE OBJECT DECK FROM THE ASSEMBLY OF THIS PROGRAM, PRECEDED BY 720000-84 (LDR) AND 720004-84 (DPM) RESPECTIVELY.

720004

DIAGNOSTIC PROGRAM MONITOR

YEROX 530 AUTHOR:XEROX CORPORATION

ABSTRACT:

SSTRACT:
THIS PROGRAM PROVIDES THE USER INTERFACE FOR XEROX 530 MAIN FRAME DIAGNOSTICS. INCLUDED ARE
CAPABILITIES FOR ACCEPTING USER INPUTS FROM A KEYBOARD/PRINTER, OUTPUTTING MESSAGES TO A
KEYBOARD/PRINTER OR LINE PRINTER, PROGRAM CONTROL FOR DIAGNOSTIC VIA DIRECTIVE KEYINS, AND THE AUTOMATIC
LOADING AND EXECUTION OF LOAD AND GO DIAGNOSTICS IF THE DIAGNOSTIC INPUT MEDIA IS THE DIAGNOSTIC PROGRAM
LIBRARY ON MAGNETIC TAPE. COMMENTS

THIS PROGRAM IS USED IN CONJUNCTION WITH ONE FUNCTIONAL DIAGNOSTIC AT A TIME. MINIMUM HARDWARE REQUIRED IS: XEROX 530 MAIN FRAME WITH KEYBOARD/PRINTER, 8K OF MEMORY, AND A CARD READER OR MAGNETIC TAPE UNIT FOR PROGRAM INPUT.

720005

XEROX 530

INSTRUCTION DIAGNOSTIC

AUTHOR: XEROX CORPORATION ABSTRACT:

THIS PROGRAM HILL FUNCTIONALLY TEST AND DIAGNOSE FAILURES OF THE XEROX 530 CPU ASSOCIATED HITH THE STANDARD INSTRUCTION REPERTOIRE. IT USES THE XEROX 530 HARDCORE INSTRUCTION SET AS THE BASIS FOR TESTING THE REMAINING INSTRUCTIONS. THE XEROX 530 INSTRUCTION SET IS BROKEN UP INTO: HARDCORE AND NON-HARDCORE INSTRUCTION TESTS. THE PROGRAM HILL RUN UNDER THE XEROX 530 DIAGNOSTIC PROGRAM MONITOR

720005 CONTINUED ON FOLLOWING PAGE

INSTRUCTION DIAGNOSTIC (CONTINUED) 720005 AND HILL HAVE NO DIRECTIVES BY ITSELF. HHENEVER AN ERROR IS DETECTED AN ERROR MESSAGE IS TYPED OUT WITH DATA EXPECTED AND OBSERVED AND HARDHARE MODULES AFFECTED.

COMMENTS: THE MINIMUM HARDHARE HOULD BE: XEROX 530 MAINFRAME, 8K OF MEMORY, CARD READER OR MAGNETIC TAPE, LOCAL KEYBOARD/PRINTER. THE CARD DECK CONSISTS OF THE OBJECT DECK FROM THE ASSEMBLY OF THIS PROGRAM, PRECEEDED BY 720000-84 (LDR) AND 720004-84 (DPM) RESPECTIVELY.

INTERRUPT DIAGNOSTIC PROGRAM 720006 06 XEROX 530
AUTHOR:XEROX CORPORATION

ABSTRACT: THE PROGRAM HILL DETECT AND ISOLATE A SINGLE HARD FAILURE HITHIN THE XEROX 530 INTERRUPT SYSTEM. THE REAL-TIME CLOCK AND MACHINE FAULT INTERRUPTS HILL ALSO BE TESTED. THE PROGRAM HILL RUN UNDER THE XEROX 530 DIAGNOSTIC PROGRAM MONITOR AND HILL HAVE NO DIRECTIVES BY ITSELF. WHENEVER AN ERROR IS DETECTED AN ERROR MESSAGE IS TYPED OUT HITH DATA EXPECTED AND OBSERVED AND HARDHARE MODULES EFFECTED. THERE HILL BE THO MODES OF OPERATION: STAND-ALONE OR LOAD AND GO MODES. THIS PROGRAM IS NOT AN EXERCISER BUT A FUNCTIONAL TEST.

DMMENTS:
THE PROGRAM HILL NOT TEST ANY INTERRUPTS WHICH HILL REQUIRE OPERATOR PROGRAM COORDINATION SUCH AS ALL
THE PCP INTERRUPT SHITCHES AND THE POWER ON-OFF INTERRUPTS. ALSO THE PROGRAM HILL NOT TEST ANY
INTERRUPTS THAT THE SOFTWARE CANNOT GENERATE. THE MIMINUM HARDWARE HOULD BE; 1. XEROX 530 MAINFRAME. 2.
BK OF MEMORY; 3. CARD READER OR MAGNETIC TAPE; 4. LOCAL KEYBOARD/PRINTER. THE CARD DECK CONSISTS OF THE
OBJECT DECK FROM THE ASSEMBLY OF THIS PROGRAM PRECEEDED BY 720000-84 (LDR) AND 720004-84 (DPM).

IOP DIAGNOSTIC 720007 XEROX 530

AUTHOR: XEROX

ABSTRACT:
THE PRIMARY OBJECTIVE OF THIS PROGRAM IS TO PROVIDE THE CAPABILITY TO VERIFY THE SUCCESSFUL OPERATION OF
THE XEROX 530 10P AND TO DETECT ALL ERRORS AND OF THE DETECTED ERRORS TO ISOLATE SINGLE HARD FAILURES
HITHIN THE XEROX 530 10P SYSTEM TO A MINIMUM MODULE SET. THE TURNAROUND MODE FEATURES OF THE 10P AND
THE SIGMA ADAPTOR HILL BE USED EXTENSIVELY TO ACHIEVE THIS OBJECTIVE WHEN AN ERROR IS DETECTED AN ERROR
MESSAGE IS OUTPUT WHICH DEFINES THE EXPECTED AND OBSERVED DATA AND THE HARDWARE MODULES EFFECTED.

DMENTS:
THE PROGRAM RUNS UNDER THE XEROX 530 DIAGNOSTIC PROGRAM MONITOR-DPM (720004). IT HAS THO MODES OF
OPERATION --STAND-ALONE AND LOAD AND GO. THE MINIMUM MARDHARE CONFIGURATION HOULD BE-XEROX 530
MAINFRAME, 8K OF MEMORY, CARD READER OR MAGNETIC TAPE FOR PROGRAM INPUT AND A LOCK KEYBOARD/PRIMER. THE
CARD DECK CONSISTS OF THE OBJECT DECK FROM THE ASSEMBLY OF THIS PROGRAM, PRECEEDED BY 720000-84 (LDR) AND 720004-84 (DPM).

9 XEROX 530 AUTHOR:XEROX CORPORATION XEROX DIAG. PROG. MAG TAPE LIB. (16-BIT) 720009

ABSTRACT:

THO DIAGNOSTIC TAPE LIBRARIES ARE AVAILABLE: A BINARY (-86) AND A COMPRESSED (-46). THE BINARY TAPE CONTAINS XEROX 530 DIAGNOSTIC PROGRAMS WHICH ARE CURRENTLY SUPPORTED BY THE DIAGNOSTIC PROGRAMMING SECTION AND SYSTEMS. THE COMPRESSED TAPE CONTAINS THE COMPRESSED SOURCE LINES FOR ALL PROGRAMS ON THE BINARY TAPE WHICH ARE SUPPORTED BY THE DIAGNOSTIC PROGRAMMING SECTION. THE COMPRESSED TAPES IS AVAILABLE ONLY ON A REGIONAL BASIS. REFER TO THE PROGRAM DESCRIPTION 720009-11 FOR LOADING AND USE INSTRUCTIONS.

REQUIRED EQUIPMENT: XEROX 530 COMPUTER, 1 9-CHANNEL MAGNETIC TAPE UNIT, AND 1 KEYBOARD PRINTER.

XEROX SOFTHARE HARDCORE TEST (16-BIT) 720010 SIGMA 2/3-530

AUTHOR: XEROX CORPORATION

ABSTRACT:
THIS PROGRAM TESTS THE 'HARDCORE' INSTRUCTION SET USED BY THE XEROX 530 MAINFRAME DIAGNOSTIC PROGRAMS
AND ALSO TESTS THE KEYBOARD/PRINTER USED FOR USER INTERFACE BY ALL XEROX 530 DIAGNOSTICS. COMMENTS:

PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM THIS PROGRAM IS FREESTANDING OPERATING SYSTEM. IS WRITTEN IN XSYMBOL. REQUIRED HARDHARE: XEROX 530, OR SIGMA 2, OR SIGMA 3 CPU HITH KSR AND PROGRAM INPUT DEVICE (CARD READER, MAGNETIC TAPE, OR PAPER TAPE). PROGRAM IS SELF LOADING.

HARDHARE HARDCORE DIAGNOSTIC 720011 XEROX 530

AUTHOR: XEROX

ABSTRACT: THIS PROGRAM GENERATES THE 'PROM' CODING SHEETS FOR THE XEROX 530 DIAGNOSTIC IC'S. THE CHECKSUM OF ALL OF THE DIAGNOSTIC TESTS INCLUDED WITHIN THE PROGRAM IS COMPUTED, STUFFED INTO THE 'PROM' PATTERN, AND THE PATTERN IS OUTPUT TO THE LINE PRINTER. THE HARDWARE DIAGNOSTIC TESTS MAY BE EXECUTED (FOR DEBUG) BY EXECUTING A PORTION OF THIS PROGRAM

COMMENTS:
THIS PROGRAM IS FREESTANDING OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC MAINTENANCE. BASE LANGUAGE
MAIN PROGRAM IS HRITTEN IN XSYMBOL. REQUIRED HARDHARE: XEROX 530 CPU HITH KSR, LINE PRINTER, AND A
BINARY INPUT DEVICE FOR PROGRAM LOADING. SIGMA 2 OR 3 MAY BE USED FOR CODING SHEET GENERATION BUT NOT
FOR TEST PROGRAM DEBUG. XEROX DIAGNOSTIC LOADER (720000-84) PRECEEDS EACH OBJECT DECK.

CPU OPTIONAL INSTRUCTION DIAGNOSTIC 720012 XEROX 530 AUTHOR: XEROX

THIS PROGRAM TESTS THE OPTIONAL INSTRUCTIONS IN THE XEROX 530 COMPUTER. THESE CONSIST OF ALL FLOATING

720012 CONTINUED ON FOLLOWING PAGE

(CONTINUED)

CPU OPTIONAL INSTRUCTION DIAGNOSTIC POINT AND/OR FIELD ADDRESSING INSTRUCTIONS.

COMMENTS:

IMMENTS:
THIS PROGRAM HILL RUN UNDER XEROX 530 DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE
MAIN PROGRAM IS WRITTEN IN XSYMBOL. REQUIRED HARDHARE: XEROX 530 CPU HITH KSR, LINE PRINTER (OPTIONAL)
AND BINARY INPUT DEVCE FOR PROGRAM LOADING. EITHER THE FLOATING POINT OR FIELD ADDRESSING OPTION (OR
BOTH) MUST BE INSTALLED. THE CARD DECK CONSISTS OF THE OBJECT DECK FROM THE ASSEMBLY OF THIS PROGRAM,
PRECEEDED BY 720000-84 (LDR) AND 720004-84 (DPM). BASE LANGUAGE

720013

MANUAL CONTROL DIAGNOSTIC

3 XEROX 530 AUTHOR:XEROX CORPORATION

ABSTRACT:
THIS PROGRAM TESTS THE FEATURES OF THE XEROX 530 CPU THAT REQUIRE MANUAL INTERVENTION TO OPERATE. THESE
ARE MEMORY PROTECT, POHER FAIL SAFE, AND TRACE. THIS PROGRAM CANNOT BE RUN UNDER THE LOAD AND GO MODE
OF THE DIADNOSTIC SYSTEM.

COMMENTS:

IMMENTS:
THIS PROGRAM HILL RUN UNDER THE XEROX 530 DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE
LANGUAGE MAIN PROGRAM IS HRITTEN IN XSYMBOL. REQUIRED HARDHARE: XEROX 530 CPU HITH KSR, LINE PRINTER
(OPTIONAL), AND A BINRY INPUT DEVICE FOR PROGRAM LOADING. THE CARD DECK CONSISTS OF THE OBJECT DECK
FROM THE ASSEMBLY OF THIS PROGRAM, PRECEEDED BY 720000-84 (LDR), AND 720004-84 (DPM).

720014

SIGMA 3-530

SYSTEMS EXERCISER (SYSX)

AUTHOR: XEROX CORPORATION

ABSTRACT:

THE SYSTEMS EXERCISER IS DESIGNED TO ISOLATE AND DETECT SYSTEM FAILURES BY APPROACHING THE SYSTEM'S MAXIMUM ACTIVITY WHILE EXERCISING AND TESTING ALL OF THE SYSTEM RESOURCES.

THIS PROGRAM IS A FREESTANDING S/A OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN XSYMBOL.

720015

SIGMA 3-530

DPS LOAD AND GO (LAG) PROCESSOR

AUTHOR: XEROX CORPORATION

ABSTRACT:

JISTANCI:
THIS PROGRAM (LAG) PROVIDES AN OPERATOR INTERFACE FOR CONTROL OF FUNCTIONAL DIAGNOSTIC PROGRAMS (FOP'S)
OPERATED UNDER CONTROL OF THE XEROX 530 DIAGNOSTIC PROGRAMMING SYSTEM MONITOR (MON). ADDITIONAL
DIRECTIVES (CONTROL COMMANDS IN THE DPS LANGUAGE) MADE AVAILABLE ARE: FTM, UTM, AND CONTINUE. DPS
DESIGN SPECIFICATION 703149 CONTAINS A DETAILED DESCRIPTION OF EACH OF THESE DIRECTIVES AND THE DPS
LANGUAGE STRUCTURE. THE LAG PROCESSOR SELECTS AND CONTROLS ACTIVATION OF TEST AND UTILITY MODULES IN
THE FDP, AND INTERFACES ERROR DATA HITH REPORTING ROUTINES IN THE MONITOR (MON).

THIS PROGRAM HILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE THIS PROGRAM IS LOADED BY THE DPS MONITOR, CATALOG NUMBER 720018, AND IT REQUIRES APPROXIMATELY 1.5K HORDS OF MEMORY.

720016 SIGMA 3-530 DIAGNOSTIC PROGRAM SYSTEM MONITOR

AUTHOR: XEROX CORPORATION

ABSTRACT:

ISTRACT:
THIS PROGRAM (MON) PROVIDES THE OPERATOR INTERFACE TO PROCESSORS OPERATED UNDER THE XEROX 530 DIAGNOSTIC
PROGRAMMING SYSTEM (DPS): THE EDITOR, (EDIT): LOAD AND GO, (LAG); AND THE SYSTEMS EXERCISER, (SYX).
THE PROGRAM PROVIDES CONTROL OF DPS BY A COMBINATION OF PROCESSOR CONTROL PANEL SHITCHES AND AN
OPERATING LANGUAGE WHICH INCLUDES THESE DIRECTIVES: RUN, MALT, DISPLAY, REPLACE, STORE, PRINT, AND
LOAD. DPS DESIGN SPECIFICATION 703149 CONTAINS A DETAILED DESCRIPTION OF THE DPS LANGUAGE.

THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE

THIS PROGRAM IS MRITTEN META-SYMBOL.

THIS PROGRAM IS MRITTEN META-SYMBOL.

THIS PROGRAM (MON) OCCUPIES THE FIRST 5K HORDS (APPROXIMATELY) OF MEMORY. THE DPS REQUIRES 18K OF MEMORY AND A KEYBOARD PRINTER CONTROLLER HITH LOCAL AND/OR REMOTE TERMINAL. A LINE PRINTER (OPTIONAL) IS RECOMMENDED FOR MESSAGE OUTPUT.

720020

NS LINE PRINTER DIAGNOSTIC PROGRAM

20 XEROX 530 AUTHOR: XEROX CORPORATION

AUTHORIZERUX CORPURATION
ABSTRACT:
THE PROGRAM VERRIFIES THE OPERATION OF THE NS LINE PRINTER I/O SUBSYSTEM CONSISTING OF A UNIT RECORD
CONTROLLER (URC), LINE PRINTER ADAPTER (LPA) AND A LOH, MEDIUM, OR HIGH SPEED LINE PRINTER. THE
FUNCTIONAL TEST ARE DESIGNED TO DETECT AND ISOLATE FAILURES IN THE I/O SUBSYSTEM. A SET OF UTILITY
TESTS IS PROVIDED TO AID IN THE PERFORMANCE OF CORRECTIVE AND PREVENTIVE MAINTENANCE. COMMENTS:

THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN META-SYMBOL.
THE PROGRAM IS INTERFACED TO THE XEROX 530 LOAD AND GO (LAG) PROGRAM, CATALOG NUMBER 720015 AND THE XEROX 530 DIAGNOSTIC PROGRAM MONITOR (DPS). MEMORY REQUIREMENT IS 18K.

720021

XEROX 530

BRANCH DATA ENTRY SYSTEMS EXERCISER

AUTHOR: XEROX CORPORATION

ABSTRACT:

THIS PROGRAM VERIFIES SYSTEM COMPONENTS BY APPROACHING MAXIMUM SYSTEM ACTIVITY.

COMMENTS:

THIS PROGRAM HILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN META-SYMBOL.

2 XEROX 530 AUTHOR:XEROX CORPORATION 720022 XEROX COIN-X530 DIAG. PROGRAM LIBRARY

ABSTRACT:
THE COIN-X530 DIAGNOSTIC PROGRAM LIBRARY (DPL) IS A MULTIPLE FILE MEDIA. EACH FILE CONSISTS OF ONE DIAGNOSTIC PROGRAM. THE DPL IS LOADED BY THE DPL-LOADER (720008) WHICH IS A PART OF DPL. THE COIN-X530 DPL CONTROL PROGRAM (720023) WHILL LOAD ANY FILE ON REQUEST.

COMMENTS:
THIS PROGRAM WILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS MRITTEN IN SYMBOL.
THE DPL IS SPECIFICALLY DESIGNED FOR COIN-X530 (BRANCH) SYSTEMS AND IS A EDITED VERSION OF SIGMA 2/3-530 DIAGNOSTIC PROGRAM LIBRARY (720009).

720023

23 XEROX 530 XEROX COIN-X530 DIAG. PROG. LIB. CONTROL
AUTHOR:XEROX CORPORATION
ABSTRACT:
THE DIAGNOSTIC PROGRAM LIBRARY CONTROL PROGRAM IS A FREESTANDING PROGRAM. IT CONTROLS LOADING OF
DIAGNOSTIC PROGRAMS FROM THE XEROX COIN-X530 DIAG. PROGRAM LIBRARY (720022). IT PROVIDES A MEANS OF
EXECUTING SEVERAL PROGRAMS SEQUENTIALLY IN 'LOAD-AND-GO' MODE OR LOADS A PROGRAM SPECIFICALLY SELECTED
IN THE STAND-ALONE MODE.
COMMENTS:
THIS PROGRAM MILL BURNINGES OF

UMPLENTS:
THIS PROGRAM HILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE
MAIN PROGRAM IS HRITTEN IN SYMBOL.
THE PROGRAM IS SPECIFICALLY TAILORED FOR A COIN X-530 SYSTEM AND REQUIRES A UTS, CP-V, OR BPM SYSTEM FOR
MAINTENANCE.

XEROX 530 COIN CC33 TEST PROGRAM 720024

AUTHOR: XEROX CORPORATION, HESTERN TECHNOLOGY CENTER ABSTRACT:

DIAGNOSTIC PROGRAM FOR NBDE COIN CC33A AND CC33D.

COMMENTS:

THIS PROGRAM HILL RUN UNDER DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN SYMBOL.

SIGMA 2 704000 1/0 TEST UTILITY PROGRAM AUTHOR: XEROX CORPORATION

ABSTRACT:

PROVIDES PROGRAM INTERFACING BETHEEN THE SIGMA 2 COMPUTER AND ANY SIGMA 2 SERIES INPUT/OUTPUT PERIPHERAL DEVICE. PROVIDES THE USER HITH A METHOD OF DIRECTING, ON-LINE, THE SEQUENCE OF EVENTS TO TAKE PLACE DURING AN I/O DEVICE EXERCISE THROUGH THE USE OF AN INPUT TEST LANGUAGE. COMMENTS:

UMMENTS: MINIMUM CONFIGURATION: 4K MEMORY, PAPER TAPE OR CARD READER FOR LOADING, KEYBDARD/PRINTER FOR CONTROL. XDS MANUAL 901127 CONTAINS PROGRAM DESCRIPTION, MODEL NO.704000-11, AND PROGRAM LISTING, MODEL NO. 704000-51. THIS PROGRAM USES RELOCATABLE LOADER PROGRAM 705299 (XDS MANUAL 901558) CORE RESIDENCY OF THE BASIC UTILITY PROGRAM IS APPROXIMATELY 3400 DECIMAL LOCATIONS AFTER INITIALIZATION.

704002 SIGMA 2/3 CPU INTERRUPT DIAGNOSTIC AUTHOR: XEROX CORPORATION

ABSTRACT:

ISTRACT:

THE EXTERNAL INTERRUPT DIAGNOSTIC IS A COMPREHENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF THE EXTERNAL
INTERRUPT SYSTEM. THE EXTERNAL INTERRUPT SYSTEM MAYBE CABLED IN ANY POSSIBLE PRIORITY SCHEME AND CONSIST
OF 1 TO 132 EXTERNAL INTERRUPTS IN 1 TO 9 INTERRUPT CHASSIS. THE PRIORITY SCHEME AND NUMBER OF INTERRUPT
LEYELS IN EACH CHASSIS (GROUP) MUST BE KNOHN AND INPUT TO THE PROGRAM AS PARAMETERS. COMMENTS:

REQUIRED CONFIGURATION: SIGMA 2 COMPUTER WITH 4K OR MORE MEMORY CARD READER OR PAPER TAPE READER AS PROGRAM INPUT DEVICE, KEYBOARD/PRINTER AS OPERATOR COMMUNICATION DEVICE, AND ONE OR MORE EXTERNAL INTERRUPT LEVELS.

704006 SIBMA 2 INTEGRAL 10P AND HD INTERFACE TEST AUTHOR: XEROX

ABSTRACT:

BSTRACT:
THIS DIAGNOSTIC PROGRAM FUNCTIONS AS A FREE STANDING PROGRAM WITH THE JX58 TEST SET. THE FIRST PART OF
THE PROGRAM TESTS THE RD (READ DIRECT) / HD (WRITE DIRECT) INTERFACE. THE SECOND PART OF THE TEST
EXERCISES AND TESTS ALL FUNCTIONS OF THE INTEGRATED TOP BY SIMULATING THE DEVICE CONTROLLER WITH THE
JX58 TEST SET. THE THO PARTS OF THE PROGRAM ARE INDEPENDENT OF EACH OTHER, I.E RUNNING ONE PART DOES NOT NECESSITATE RUNNING THE OTHER PART. COMMENTS:

JUMENIS: CONFIGURATION: SIGMA 2 COMPUTER, 4K OR MORE MEMORY, CARD READER OR PAPER TAPE READER AS PROGRAM INPUT DEVICE, JX58 TEST SET, OPTIONAL KEYBOARD PRINTER AS OPERATOR COMMUNICATION DEVICE.

704011 SIGMA 2 CPU DIAGNOSTIC SYSTEM (AUTO) AUTHOR: XEROX

ABSTRACT:

AUTO HILL DETECT AND DIAGNOSE MACHINE FAILURES ASSOCIATED WITH THE INSTRUCTION REPERTOIRE.

THE TECHNICAL MANUAL IS 901007 (SIGMA 2 AUTO DIAGNOSTIC PROGRAM MANUAL). AUTO OCCUPIES 3370 DECIMAL LOCATIONS. AUTO HILL RUN ON ANY SIGMA 2 CONFIGURATION. THIS PROGRAM IS PROVIDED IN A SPECIAL BINARY FORMAT AND INCLUDES ITS OHN LOADER THIS BINARY OUTPUT IS PRODUCED BY THE SIGMA 2 PROGRAM 2DIBIGEN(704030).

704012 SIGMA 2/3 KEYBOARD DISPLAY DIAGNOSTIC

AUTHOR: XEROX

ABSTRACT:

SSTRACT:
THE DIAGNOSTIC PROGRAM FOR THE KEYBOARD DISPLAY IS ASSEMBLED WITH AND OPERATES UNDER THE CONTROL OF THE SIGMA 2 DIAGNOSTIC CONTROL PROGRAM (DCP). IT PROVIDES THE FOLLOWING FEATURES: A VERIFICATION OF THE COMMUNICATIONS INTERFACE, INCLUDING PRIMARY AND AUXILIARY KEYBOARDS AND ASSOCIATED CONTROL LOGIC. A VERIFICATION OF THE HARD COPY MONITOR FROM THE COMMUNICATIONS INTERFACE AND SEVERAL DISPLAY PATTERNS FOR THE ALIGNMENT OF THE ANALOG CIRCUITRY. COMMENTS

DRIENTS:
REQUIRED CONFIGURATION: A SIGMA 2 HITH 9K OF MEMORY AND THE REAL TIME 500 HZ CLOCK OPTION (COUNTER 1). A
CARD OR PAPER TAPE READER, A KEYBOARD/PRINTER, A CHARACTER ORIENTED COMMUNICATIONS (COC) CONTROLLER
(HITH DIO INTERFACE, THO LEVELS OF EXTERNAL INTERRUPTS, AND PROPER SEND/RECEIVE MODULES FOR INTERFACE
HITH A KEYBOARD DISPLAY) AND A KEYBOARD DISPLAY. THO COMPATIBLE DATA SETS ARE REQUIRED, IF THE KEYBOARD
DISPLAY IS TO BE REHOTED. A LINE PRINTER IS OPTIONAL.

SIGMA 2/3 704015 KEYBOARD PRINTER TEST AUTHOR: XEROX

ABSTRACT:

ISTRACT: PROVIDES A MEANS OF EXERCISING AND CHECKING KEYBOARD INPUT AND PRINTER OUTPUT CAPABILITIES OF THE SIGMA ASR/KSR KEYBOARD/PRINTER HHEN USED IN THE ON-LINE MODE. COMMENTS:

REQUIRED CONFIGURATION: SIGMA 2 HITH 8K MEMORY; ONE OR MORE ASR/KSR KEYBOARD/PRINTER; AND CARD OR PAPER TAPE READER FOR LOADING. - ASSEMBLED WITH DIAGNOSTIC CONTROL PROGRAM 704025

704022 SIGHA 2/3 MEHORY PROGRAM - MEDIC

AUTHOR: XEROX CORPORATION ABSTRACT:

SSTRACT:

MEDIC 2 CONSISTS OF AN EXECUTIVE ROUTINE AND SIXTEEN INDIVIDUAL MEMORY TESTS HHICH ARE EACH DESIGNED TO PERFORM A DISCRETE MEMORY TESTING FUNCTION. THE INDIVIDUAL TESTS ARE CONTROLLED BY THE EXECUTIVE ROUTINE, WHICH IN ADDITION TO CONTROLLING THE TEST SEQUENCE AND SELECTION, MONITORS ALL OPERATOR REQUESTS, PERFORMS THE PRINTING OPERATIONS FOR ALL TESTS, AND RELOCATES MEDIC 2 TO ALTERNATE AREAS OF CORE SO THAT THE ENTIRE MEMORY MAY BE TESTED.

704022 CONTINUED ON FOLLOHING PAGE

MEMORY PROGRAM - MEDIC

(CONTINUED)

COMMENTS: MEDIC 2 OCCUPIES 1869 DECIMAL LOCATIONS. IT WILL RUN ON ANY CONFIGURATION THAT INCLUDES 8K OF MEMORY OR MORE. TECHNICAL MANUAL IS 900676 (SIGMA 2 MEMORY BK DIAGNOSTIC PROGRAM MANUAL).

704025 SIGMA 2/3 DIAGNOSTIC CONTROL PROGRAM (DCP)

AUTHOR: XEROX

ABSTRACT:

PROVIDES PROGRAM INTERFACE BETHEEN OPERATOR AND SUBROUTINES (VIA SYNTACTICAL TEST LANGUAGE) ASSEMBLED AS AN INTEGRAL PART OF THE DCP TO ACTIVATE AND CONTROL A SPECIFIC PERIPHERAL DEVICE THE DCP IS CATALOGUED AS A REFERENCE FOR PROGRAMS ASSEMBLED HITH AND OPERATED HITHIN THE ENVIRONMENT OF THE DCP.

MINIMUM COMPUTER CONFIGURATION: MEMORY 4K OR DEPENDENT UPON INTERFACED PROGRAM, KEYBOARD/PRINTER, PAPER TAPE OR CARD READER FOR INPUT MEDIA, HARDWARE OPTIONS NOT REQUIRED PROGRAM DESCRIPTION: APPROXIMATELY 50 PAGES PROGRAM LISTING: APPROXIMATELY 60 PAGES

704030 SIGMA 2

SIGMA 2 DIAGNOSTIC BINARY GENERATOR

AUTHOR: XEROX

ABSTRACT:

TO GENERATE BINARY CARDS OR PAPER TAPE FROM DATA STORED IN MEMORY. THE FIRST RECORD HILL BE A LOADER AND THE REMAINING RECORD(S) WILL BE IN A SPECIAL FORMAT. THIS IS REQUIRED TO INCREASE THE PROBABILITY OF LOADING ON A MACHINE THAT IS EXPERIENCING A MALFUNCTION.

MINIMUM CONFIGURATION:SIGMA 2 OR SIGMA 2 SIMULATOR; BK OF SIGMA 2 CORE; CARD READER AND CARD OR 8 CHANNEL PAPER TAPE PUNCH. THE PROGRAM OCCUPIES 403 DECIMAL LOCATIONS. THE PROGRAM TO BE DUMPED MAY MOT EXCEED 4081(DECIMAL) LOCATIONS. THIS PROGRAM IS PROVIDED WITH ITS OWN LOADER.

704035 SIGMA 2 COMMAND SYS II, SECT 4-FSK TEST

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM IS ONE SEGMENT OF COMMAND SYSTEM II DESCRIBED IN APPLICATIONS PROGRAM MANUAL 980272 COMMENTS:

FSK TEST EXERCISER SECTION

SIGMA 2 704036

COMMAND SYS II.SECT 5-TONES DIGITAL TEST

AUTHOR: XEROX ABSTRACT:

THIS PROGRAM IS ONE SEGMENT OF COMMAND SYSTEM II DESCRIBED IN APPLICATIONS PROGRAM MANUAL 980272

TONES DIGITAL TEST EXERCISER SECTION

704139 SIGMA 2/3 AUTHOR: XEROX

REAL TIME CLOCK TEST

ABSTRACT:

TO PROVIDE A MEANS OF CHECKING THE REAL TIME CLOCKS AND COMPUTING THE TIME OF DAY OR ELAPSED TIME.

REQUIRED CONFIGURATION: SIGMA 2 WITH REAL TIME CLOCK OPTION.

704140

POHER FAIL-SAFE TEST

0 SIGMA 2/3 AUTHOR:XEROX CORPORATION

ABSTRACT:
TO PROVIDE A MEANS OF CHECKING THE POHER FAIL SAFE SYSTEM AND MACHINE FUNCTIONS WHEN POWER FAILURE

COMMENTS: REQUIRED CONFIGURATION: SIGMA 2 WITH POWER FAIL SAFE OPTION

704320

MASS STORAGE DISC FILE TEST PROGRAM

AUTHOR: XEROX

STRACT:
THE PROGRAM VERIFIES THE OPERATION OF THE MASS STORAGE DISC FILE, HODEL NUMBERS 7281/7282, 7283, 7284
AND THE HIDE INTERFACE OPTION, MODEL NUMBER 7286. THE TEST PROGRAM ALLOHS THE TESTING OF ANY PORTION OF
THE DISC FILE AND PROVIDES SUFFICIENT INFORMATION FOR ERROR ISOLATION. THE EXECUTION OF THE TEST PROGRAM
IS CONTROLLED BY THE DIAGNOSTIC CONTROL PROGRAM (DCP). COMMUNICATION BETHEEN USER AND THE PROGRAM IS VIA
A SYNTAX TEST LANGUAGE. ABSTRACT:

COMMENTS:

SIGMA 2

THE TEST PROGRAM REQUIRES A MINIMUM OF 12K OF MEMORY, A KEYBOARD/PRINTER, A CARD READER OR PAPER TAPE READER AS PROGRAM INPUT DEVICE, AND A MASS STORAGE DISC FILE.

704348

TAPE TEST PROGRAM

AUTHOR: XEROX

ABSTRACT: THE PROGRAM TESTS THE SURFACE OF A MAG TAPE BETHEEN LOAD MARK AND THE END-OF-TAPE MARK

TO OBTAIN AN ABSOLUTE VERSION, LOAD THE RELOCATABLE PROGRAM USING THE STAND ALONE SYSTEM 704958 AND

704348 CONTINUED ON FOLLOHING PAGE

PAGE 2 - 01/31/75

REPRINT 75.02

TAPE TEST PROGRAM

PUNCH FROM LOAD BIAS TO BIAS+26F, THEN PUNCH COMMLOH TO ABSL, THEN A TRANSFER TO BIAS. THE PROGRAM OCUPIES 623 CELLS AND USES THE NEXT 4096 AS BUFFER, IN ADDITION THE PROGRAM USES U:10CS (SEE XDS 704348 901047).

REMOTE BATCH TERMINAL TEST

AUTHOR: XEROX CORPORATION

BSTRACT:

EXERCISES A MODEL 7670 REMOTE BATCH TERMINAL CONNECTED THROUGH A COMMUNICATIONS LINK AND A MODEL 7801

DATA SET CONTROLLER TO A SIGMA 2 COMPUTER. OPERATES UNDER CONTROL OF THE SIGMA 2 DIAGNOSTIC CONTROL

PROGRAM. DIRECTIVES ARE PROVIDED FOR: (1) TRANSMISSION OF CONTROL CHARACTERS (2) PRINTING A STANDARD

PATTERN; (3) PUNCHING A STANDARD PATTERN; (4) ASSIGNING A SHORT OR FULL BLOCK, EBCDIC OR ASCII, PATTER

(5) TRANSMISSION OF SELECTED PATTERN; (6) READING TEST (STD) DECK AND COMPARING AGAINST STANDARD

PATTERN; (7) EXERCISE OF UNATTENDED OPERATION CAPABILITY.

JMMEN'S:
REQUIRED EQUIPMENT: SIGMA 2 COMPUTER HITH 8K MEMORY; KEYBOARD/PRINTER; COUNTER 1 REAL TIME CLOCK 2
MILLISEC; XDS MODEL 7601 DATA SET CONTROLLER HITH SYNCHRONOUS FORMAT; BELL 201 SERIES SYNCHRONOUS DATA
SETS OR EQUIVALENT; XDS MODEL 7670 REMOTE BATCH TERMINAL. OPTIONAL EQUIPMENT: LINE PRINTER FOR ERROR
REPORTING; CARD READER FOR DIRECTIVE INPUT; MODEL 7602 FULL DUPLEX OPTION; MODEL 7671 UNATTENDED ANSHER
OPTION; MODEL 7672 TRANSMIT/RECEIVE MONITOR OPTION; MODEL 7673 OFF-LINE LISTING OPTION; MODEL 7674
TELEPHONE ALERT OPTION.

SIGMA 2/3 DIAGNOSTIC LOADER-SYMBOL+EXTENDED SYMBOL

AUTHOR: XEROX ABSTRACT:

SSTRACT:

THIS LOADER LOADS THE OBJECT PROGRAM MEDIA GENERATED BY THE SIGMA 2 SYMBOL AND EXTENDED SYMBOL
ASSEMBLER. THE LOADER HILL NOT HANDLE THE FOLLOHING PROGRAM MEDIA LOAD ITEMS: 1.RELOCATED LOAD-COMMON
BASE 2. RELATIVE LOCATION POINTER 3. NAME AND ADDRESS DEFINITION. THE OBJECT PROGRAM MAY BE ORIGINED AT
LOCATION O. THE LOADER HILL BE AUTOMATICALLY RELOCATED TO THE LAST 255 MEMORY LOCATIONS UNLESS A
LOADER BASE ADDRESS IS SPECIFIED AT THE OPTIONAL DATA SHITCH 1 SELECTED HAIT. AT THIS HAIT, AN ALTERNATE
PROGRAM MEDIA INPUT DEVICE MAY BE SPECIFIED AS HELL AS A RELOCATION BIAS FOR THE OBJECT PROGRAM. A DATA
SHITCH 2 OPTION PERMITS A HAIT PRIOR TO START OF OBJECT PROGRAM COMMENTS:

COMPUTER CONFIGURATION: SIGMA 2 COMPUTER, 4K OR MORE OF MEMORY, CARD READER OR 8 LEVEL PAPER TAPE READER.

705356 SIGMA 2 HATCHDOG TIMER TEST

AUTHOR: XEROX

ABSTRACT:

PROVIDES A SEMI-AUTOMATIC TEST OF THE PROGRAMMABLE FEATURES OF THE MATCHDOG TIMER OPTION.

REQUIRES MINIMUM OF 4K OF CORE AND A CARD OR PAPER TAPE READER.

705357 SIGHA 2 CCS-20 DIAGNOSTIC PROGRAM WITH HANDLERS

AUTHOR: XEROX

ABSTRACT:
THE CCS-20 DIAGNOSTIC PROGRAM HILL TEST AND EXERCISE THE XDS MODEL CCS-20 COMPUTER TO COMPUTER HIGH SPEED DATA LINK. THIS PROGRAM IS RUN IN CONJUNCTION HITH THE SIGMA 5/7 CCS-20 DIAMOSTIC.

SIGNA 3 EXTENDED ARITHMETIC OPTION

AUTHOR: XEROX

TESTS EXTENDED ARITHMETIC INSTRUCTION SET TO DETECT MALFUNCTIONS HHEN EXECUTING THE VARIOUS INSTRUCTIONS AND TO INDICATE LIKELY FAILING MODULE(S) FOR MULTIPLY-DIVIDE INSTRUCTIONS, IF NO ERRORS ARE DETECTED DURING EXECUTION OF STANDARD TEST CASES, RANDOM NUMBER TESTS HILL BE GENERATED. IF ERROR IS DETECTED, A T-CHART HILL BE PRINTED ON KEYBESRO/PRINTER FOR POSSIBLE IDENTIFICATION OF PHASE(S) DURING HHICH THE INSTRUCTION IS FAILING. THIS PROGRAM ASSUMES SIGMA 3 AUTO DIAGNOSTIC PROGRAM HORKING SUCCESSFULLY ON THE SYSTEM BEING TESTED.

REQUIRES MINIMUM OF 8K OF CORE AND NEEDS A CARD READER OR A PAPER TAPE READER AS AN INPUT DEVICE.

705528 SIGNA 2/3 **HEMORY PROTECT PROGRAM**

AUTHOR: XEROX

ABSTRACT:

ISTRACT:
THIS PROGRAM PROTECTS THE MEMORY PROTECT FEATURE OF SIGMA 2/3 SYSTEM. THIS IS ACCOMPLISHED BY TESTING
EACH MEMORY BLOCK OF 256 HORDS UNDER 'PROTECTED' AND'UNPROTECTED' ENVIRONMENT. AFTER THIS TEST ON EACH
BLOCK IS COMPLETED, FURTHER TESTS ARE PERFORMED ON THE MEMORY PROTECT VIDLATION LOGIC TO CHECK THE
DIFFERENT OPERATIONAL CHARACTERISTICS OF THE PROTECT FEATURE. THE PROTECT FEATURE SHOULD NOT BE CHECKED
UNLESS CPU AUTO DIAGNOSTIC AND CPU INTERRUPT DIAGNOSTICS HAVE RUN SUCCESSFULLY ON THE SYSTEM COMMENTS:

REQUIRES MINIMUM OF 4K OF CORE. PROGRAM OCCUPIES 1245 DECIMAL LOCATION.AN INPUT DEVICE, SUCH AS CARD READER OR A PAPER TAPE READER IS NECESSARY.

705529 SIGMA 3 MEMORY DIAGNOSTIC-FAULT LOCATOR

AUTHOR: XEROX

ABSTRACT:
THE OBJECTIVE OF THE PROGRAM IS TO DETECT AND ISOLATE MALFUNCTIONS IN THE SIGMA 3 BASIC MEMORY UNIT.
ISOLATION IS TO THE LOGIC MODULE LEVEL.

COMMENTS:

THE PROGRAM REQUIRES THAT THE FIRST 4K OF MEMORY IS OPERATIONAL ASR/KSR OR LINE PRINTER ARE OPTIONAL BUT DESIRABLE.

SIGMA 3 705530

CPU DIAGNOSTIC - AUTO

AUTHOR: XEROX

BSTRACT:

DETECTS AND DIAGNOSES FAILURES OF THE SIGMA 3 CPU ASSOCIATED HITH THE INSTRUCTION REPERTOIRE, EXCEPT FOR THOSE INSTRUCTIONS RELATED TO THE EXTENDED ARITHMETIC OPTION. THIS DIAGNOSTIC PROGRAM CONSISTS OF THO GROUPS OF TESTS, A PRETEST AND MAIN BODY. THE PRETEST CONSISTS OF SIX RECORDS. FAILURE OF ANY TEST IN THE PRETESTS RESULTS IN A HALT AT THE LOADING OF THE ASSOCIATED RECORD. IF THE PRETEST IS SUCCESSFUL, THE MAIN BODY OF TESTS IS LOADED. THE MAIN BODY OF TESTS CONSISTS OF INDIVIDUAL TEST CASES AND A COMMON DRIVER. EACH TEST IS EXECUTED, CONTROL IS RETURNED TO THE DRIVER, AND, IF THE RESULTS ARE CORRECT, THE NEXT TEST IS ENTERED. FAILURE OF ANY TEST RESULTS IN AN ERROR HAIT HITH A REFERENCE TO FAILING SIGNALS AND MODULES IN THE LISTING. SUBORDINATE TESTS, SUCH AS 10 COMPATABILITY AND INSTRUCTION INTERRUPTABILITY ARE ALSO PROVIDED. ABSTRACT: ALSO PROVIDED.

COMMENTS:

REQUIRES BK OF CORE AND A CARD OR PAPER TAPE READER FOR PROGRAM INPUT. OPTIONAL EQUIPMENT MAY BE A KEYBOARD OR LINE PRINTER FOR MESSAGE OUTPUT. PROGRAM IS PROVIDED IN A SPECIAL BINARY FORMAT WITH A LOADER FOR THE FORMAT.

705672

SIGMA 3

MULTIPLE-PORT MEMORY RANDOM EXERCISOR

AUTHOR: XEROX

BSTRACT:

DETECTS AND DIAGNOSES FAILURES OF THE SIGMA 3 MULTIPLE-PORT MEMORY. THIS DIAGNOSTIC PROGRAM CONSISTS OF
3 TESTS. THE FIRST THO TESTS CHECK THE MPM ADDRESSING AND MPM DATA PATHS. THE THIRD TEST EXERCISES THE

MPM IN RANDOM FASHION. THE THIRD TEST OPERATES AS FOLLOWS: THE PROGRAM IS RANDOMLY RELOCATED IN MEMORY.

A IK DATA BLOCK IS RANDOMLY ESTABLISHED SOMEWHERE ELSE IN MEMORY, AND FILLED WITH RANDOM DATA. WHILE

THIS DATA IS CHECKSUMMED BY THE PROGRAM THROUGH THE CPU PORT, I/O OPERATIONS ON THE DATA (ALTERNATING

HRITE AND READ FUNCTIONS) ARE PERFORMED THROUGH THE EIOP PORT, IF AN ERROR OCCURS, THE PROGRAM ATTEMPTS

TO 'ZERO-IN' ON THE FUNCTIONS CAUSING THE ERROR. IF NO ERRORS OCCUR, TEST 3 IS RESTARTED WITH NEW

PARAMETERS

DMMENTS: ABSTRACT:

COMMENTS:

REQUIRES 8K OF CORE AND A CARD OR PAPER TAPE READER FOR PROGRAM INPUT. AN OPTIONAL KEYBOARD OR LINE
PRINTER PROVIDES MESSAGE OUTPUT. EITHER A MAGNETIC TAPE UNIT OR RAD UNIT CONNECTED TO THE ELOP IS
REQUIRED. (PROGRAM SEARCHES FOR OUTPUT DEVICE ON ELOP, STARTING WITH ADDRESS X'80'.)

705879

SIGMA 3

EXTERNAL IOP TEST PROGRAM

AUTHOR: XEROX

ABSTRACT: THIS PROGRAM HILL PROVIDE THE USER HITH A MEANS OF TESTING AN XDS MODEL 8171/8102 EXTERNAL INPUT/OUTPUT PROCESSOR (E10P). COMMUNICATION HITH THIS PROGRAM VIA THE DIAGNOSTIC PROGRAM MONITOR CAN BEST BE PERFORMED BY A KEYBOARD/PRINTER.

REQUIRED EQUIPMENT:SIGMA 3 WITH 8K MINIMUM MEMORY. MODEL 8171/8102 EXTERNAL 1/0 PROCESSOR, MODEL 720X/723X RAD OR MODEL 732X 9-TRACK MAG TAPE, CARD-READER, PAPER-TAPE READER, OR MAG TAPE FOR PROGRAM INPUT, AND KEYBOARD-PRINTER FOR PROGRAM COMMUNICATION. OPTIONAL EQUIPMENT:LINE-PRINTER FOR HI-SPEED MESSAGE OUTPUT.

705690

SIGMA 3

INTERGRAL IOP TEST

AUTHOR: XEROX CORPORATION

AUTHOR: XEROX CORPORATION
ABSTRACT:
THE TEST ASSURES THE INTEGRITY OF THE SIGMA 3 110P OR DETECTS ANY ERRORS THEREIN. THE PROGRAM OPERATES
EXCLUSIVELY HITH THE SIGMA 3 DIAGNOSTIC PROGRAM MONITOR AND REQUIRES THE USE OF A EXTENDED SUBCONTROLLER
OF AN ASSOCIATIVE DEVICE OF THE 110P. THE PROGRAM EXCLUSIVELY USES THE TEST MODE FEATURE OF THE
SUBCONTROLLER, AND FOR COMPLETE TESTING, REQUIRES KEYBOARD INPUT. THE PROGRAM CONSISTS OF EIGHT BASIC
TESTS AND ARE CONTROLLABLE FROM THE PROCESSOR CONTROL PANEL. NO DIRECTIVES ARE REQUIRED THE PROGRAM
OTHER THAN THE BASIC LOAD DIRECTIVE. THE PRINT DEVICE IS NOT USED IN THIS PROGRAM FOR ERROR REPORTING.
THE PROGRAM REPORTS ERROR FAULTS BY MEANS OF PROGRAM HAITS.

705718

SIGMA 2/3

DIAGNOSTIC - SYSTEM EXERCISER

AUTHOR: XEROX

THIS PROGRAM WILL EXERCISE THE SIGMA 2/3 AS A SYSTEM AND DETECT PORT PROBLEMS AND 1/0 DEVICE PROBLEMS. IT PERFORMS 100 PERCENT DATA CHECKING AND 1/0 DEVICE CHECKING AT THE COMPLETION OF EVERY OPERATION AND MAXIMUM DATA TRANSFER RATES ON ALL DEVICES. ABSTRACT:

COMMENTS:

THE PROGRAM REQUIRES A SIGMA 2 OR 3 HITH MINIMUM 8K OF MEMORY, A KSR/ASR, A CARD READER OR PAPER TAPE READER, MAGNETIC TAPE UNIT (OPTIONAL), MEDIUM SPEED RAD (OPTIONAL), AND LINE PRINTER (OPTIONAL).

705720 SIGMA 3 MANUFACTURING TEST PROGRAM AUTHOR: XERGX

ABSTRACT:

THIS PROGRAM IS A SIGMA 3 MANUFACTURING TEST PROGRAM FOR THE FOLLOHING TESTS, SINGLE CLOCK STEP TEST, SINGLE CLOCK EIOP TEST, CLOCK TIMING TEST AND INTERFACE TIMER TEST. THIS PROGRAM IS TO BE USED ONLY FOR SIGMA 3 MANUFACTURING TEST.

SIGMA 3 WITH 8K OF MEMORY, CARD READER OR PAPER TAPE READER.

33 SIGMA 3 819 AUTHOR:XDS - DATA SYSTEMS DIVISION 705893 8150 MINI TEST

ABSTRACT:

THE PROGRAM PROVIDES A MEANS OF PRE-CHECKING THE MAJOR FUNCTIONS OF THE 8150 EXTERNAL MEMORY ADAPTER HITHOUT THE USE OF AN EXTERNAL SIGMA 5/7 MEMORY. THE TEST IS INTENDED PRIMARILY FOR ENGINEERING AND MANUFACTURING USE. COMMENTS

REQUIRED HARDWARE: 8K ONLY OF SIGMA 3 MEMORY, A PAPER TAPE READER OR CARD READER, AN 8150 EXTERNAL MEMORY ADAPTER AND A SPECIAL TEST CABLE.

SIGMA 3 ME AUTHOR:XDS - DATA SYSTEM DIVISION 705894 MEDIC 8150 (MEMORY DIAGNOSTIC FOR 8150)

ABSTRACT:
THE PROGRAM PROVIDES A MEANS OF CHECKING THE OPERATION OF THE 8150 EXTERNAL MEMORY ADAPTER AND THE ATTACHED SIGNA 5/7 MEMORY.

REQUIRED HARDHARE: 8K TO 48K OF SIGMA 3 MEMORY, 4K TO 128K OF SIGMA 5/7 MEMORY, 8170 EXTERNAL INTERFACE FEATURE, A PAPER TAPE OR CARD READER AND 8150 EXTERNAL MEMORY ADAPTER. A KEYBOARD/PRINTER IS OPTIONAL.

SIGMA 2/3 XPS-97 DIAGNOSTICS FOR SIGMA & 706109

AUTHOR: XDS - DATA SYSTEMS DIVISION

ABSTRACT:

THIS PROGRAM CHECKS THE FUNCTIONS OF MODEL XPS-97. THE TEST AREAS INCLUDE ABORT INTERRUPT, STATUS CHECK, AND GENERAL DIRECT INPUT/OUTPUT OF THE XPS-97.

HARDWARE REQUIREMENTS: SIGMA 2/3 COMPUTER WITH TELETYPE AND 18K OF MEMORY, MODEL XPS-97.

4 SIGMA 3 CE AUTHOR:XDS, DATA SYSTEMS DIVISION 706114 CES-34 DIAGNOSTIC PROGRAM

ABSTRACT:
THIS PROGRAM TEST AND EXERCISE THE MODEL CES-34 COMMUNICATION CONTROLLERS BY MEANS OF A CLOSED-LOOP
TURNAROUND TEST. THE PURPOSE OF THIS PROGRAM IS TO PROVIDE HARDHARE CHECKOUT AID AND DEMONSTRATE THE
UNIT HHEN IT OPERATES HITH A SIGMA 3 COMPUTER. THIS PROGRAM OPERATES UNDER SIGMA 2/3 BASIC CONTROL MONITOR. COMMENTS:

HARDWARE CONFIGURATION: SIGMA 3 COMPUTER, KEYBOARD PRINTER, EITHER CARD READER OR PAPER TAPE READER AS PROGRAM INPUT DEVICE, COUNTER I REAL-TIME CLOCK, AND MODEL CES-34 COMMUNICATION CONTROLLERS WITH FULL DUPLEX FEATURE.

SIGMA 3 SIGMA 3 - CF16 INTERCOMMUNICATION DEMO

AUTHOR: XDS, MESTERN TECHNOLOGY CENTER

THE PURPOSE OF THIS PROGRAM IS TO DEMONSTRATE MESSAGE TRANSMISSION FROM SIGMA 3 TO CF18 OR VICE VERSA.
THIS PROGRAM INCLUDES THE DIAGNOSTIC PROGRAM MONITOR (DPM). THE SIGMA 3 - CF18 INTERCOMMUNICATION DEMO
PROGRAM FOR CF16 COMPUTER, PROGRAM NO. 880089 MUST BE USED CONCURRENTLY. COMMENTS:

HARDWARE CONFIGURATION: SIGMA 3 WITH TELETYPE, MODEL 7908 MINI-COMPUTER INTERFACE UNIT, CF18 WITH TELETYPE AND MODEL OE15 COUPLER.

706172 7902 EXTENDED DEVICE SUBCONTROLLER DIAG. SI3MA 2/3

AUTHOR: XEROX, DATA SYSTEMS DIVISION

ABSTRACT:

THE PROGRAM PROVIDES A MEANS FOR FINAL ACCEPTANCE TESTING OF THE 7902 EXTENDED DEVICE SUBCONTROLLER.
TESTS CONSIST OF EXECUTING THE 1/0 INSTRUCTIONS (SIO,TIO,TDV,AIO,HIO) AND LISTING ALL RESULTANT STATUS
INFORMATION. LOOPING CAPABILITY IS PROVIDED TO ALLOH FOR MONITORING OF SIGNALS BY THE TEST ENGINEER. COMMENTS:

MINIMUM HARDHARE CONFIGURATION IS AN 8K SIGMA 2/3, 7902 EDSC, TELETYPE, AND A CARD READER OR PAPER TAPE READER. A LINE PRINTER IS OPTIONAL. PROGRAM RUNS UNDER THE DIAGNOSTIC PROGRAM MONITOR (DPM).

706238 SIGMA 2/3 SIGMA 3 - CFIS INTERCOMMUNICATION DEMO

AUTHOR: XDS. HESTERN TECHNOLOGY CENTER

ABSTRACT:

THIS PROGRAM GIVES A DEMO OF MESSAGE TRANSMISSION BETHEEN A SIGMA 3 AND A CF18.

COMMENTS:

THERMIS: HARDWARE REQUIREMENTS - SIGMA 2/3 HITH TELETYPE, MODEL 7930 OR 7935 SIU, CF16 HITH TELETYPE, MODEL 0E15. THIS PROGRAM MUST OPERATE IN CONJUNCTION HITH THE SIGMA 3-CF18 INTERCOMMUNICATION DEMO PROGRAM FOR CF16.

706447 SIGMA 2/3 PARAMETER PREPARATION ROUTINE (PPR)

AUTHOR: XEROX CORPORATION, HESTERN TECHNOLOGY CENTER

ABSTRACT:

CONVERTS SCU MODULE TEST INPUT PARAMETERS TO FORMATTED PAPER TAPE.

COMMENTS:

THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.
REQUIRES SIGMA 2/3 CAPABLE OF SUPPORTING RBM HITH AT LEAST ONE PAPER TAPE READER AND PUNCH.

PAPER TAPE DUPLICATOR/VERIFIER 706449 SIGMA 2/3

AUTHOR: XEROX, HESTERN TECHNOLOGY CENTER

ABSTRACT:
THE PROGRAM HILL INPUT SOURCE DATA FROM EITHER CARDS OR PAPER TAPE AND DUPLICATE IT ON PAPER TAPE. IT
ALSO HILL VERIFY PAPER TAPE BY COMPARISON AGAINST THE SOURCE DATA. THE PROGRAM OPERATES UNDER RBM (FROM
BACKGROUND) AND REQUIRES OPERATOR KEY-INS TO DIRECT ITS' FUNCTIONS.

THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN SYMBOL.
PROGRAM REQUIRES MINIMUM RBM SYSTEM PLUS PAPER TAPE READER/PUNCH.

THS09R/XPS97 DIAGNOSTIC 706951 SIGMA 2/3

AUTHOR: XEROX, HESTERN TECHNOLOGY CENTER

ABSTRACT:

THIS DIAGNOSTIC IS USEFUL FOR FINAL ACCEPTANCE TESTING OF THE TMS09B ANALOG CONTROLLER WITH XPS97 DIRECT MEMORY INTERFACE, DUE TO ITS STATISTICAL ANALYSIS CAPABILITIES IN ADDITION TO ITS DIAGNOSTIC CAPABILITIES. THE DIAGNOSTIC PROGRAM HONITOR (OPM), AND THE DIAGNOSTIC PROGRAM LOADER (DPL), WHICH ARE NECESSARY TO ITS OPERATION.

COMMENTS:

THIS PROGRAM WILL RUN UNDER DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN

PROGRAM IS HRITTEN IN SYMBOL.

HARDHARE CONFIGURATION:SIGMA 2/3 HITH MINIMUM 20K HORDS OF MAIN MEMORY, KEYBOARD/PRINTER, PROGRAM INPUT
DEVICE (CARD OR PAPER TAPE READER), XPS97 DIRECT MEMORY INTERFACE THS09B ANALOG CONTROLLER, OPTIONAL
LINE PRINTER. 10P MUST ACCESS X'0'-X'3FFF', XPS97 MUST ACCESS X'4000'-END OF USEABLE CORE. ACCESS

OVERLAP IS ALLOHABLE. CORE AVAILABLE BEYOND XPS97 ACCESS MUST BE DISABLED.

POTTER 3000/3300 PRINTER DIAGNOSTIC SIGMA 2/3-530 706462

AUTHOR: XEROX CORPORATION, WESTERN TECHNOLOGY CENTER

ABSTRACT:

INTERACT:
THIS TEST PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURES TO
THE SMALLEST POSSIBLE LOGIC ELEMENT IN THE LINE PRINTER (POTTER MODELS 3000 AND 3300). THE RANDOM
EXERCISER AND SOME UTILITY TEST FUNCTIONS ARE INCLUDED IN THE TEST PROGRAM. THE TEST PROGRAM IS
INTERFACED TO THE DIAGNOSTIC PROGRAM MONITOR. LOADING PROCEDURE IS DESCRIBED IN XEROX MANUAL #901850.
INFORMATION RELEVANT TO OPERATION OF THE PROGRAM IS FOUND IN XEROX MANUAL #901755. COMMENTS

THIS PROGRAM HILL RUN UNDER DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XSYMBOL. HARDWARE REQUIREMENTS ARE: A SIGMA 2, SIGMA 3, OR 530 CPU MITH 16K OF CORE MEMORY; A PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE READER, OR MAGNETIC TAPE UNIT; A MESSAGE OUTPUT DEVICE: KSR, OR LINE PRINTER; AND THE POTTER LINE PRINTER (MODEL 3000 OR 3300) TO BE TESTED.

58 SIGMA 2/3 7907 CLOSED LOOP DIAGNOSTIC AUTHOR: XEROX CORPORATION, HESTERN TECHNOLOGY CENTER ARSTRACT.

ABSTRACT:

THE 7907 CLOSED LOOP DIAGNOSTIC TEST THO 7907'S SIMULTANEOUSLY BY TRANSMITTING TEST DATA FROM ONE 7907 TO THE OTHER. PROGRAM PARAMETERS ARE DEFINED VIA SOLICITED OPERATOR KEY-INS ON THE TELETYPE. HARDHARE AND DATA TRANSMISSION ERRORS ARE REPORTED VIA THE TELETYPE OR CAN BE INHIBITED TO ALLOH ERROR LOOPING.

THIS PROGRAM WILL RUN UNDER DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. PROGRAM REQUIRES A SIGMA 2/3 WITH 16K MEMORY, TELETYPE, CARD READER AND THO 7907'S.

O SIGMA 2/3 7908 CLOSED LOOP DIAGNOSTIC AUTHOR: XEROX CORPORATION, WESTERN TECHNOLOGY CENTER 706470

ABSTRACT:
THE 7908 CLOSED LOOP DIAGNOSTIC TESTS THO 7908'S SIMULTANEOUSLY BY TRANSMITTING TEST DATA FROM ONE 7908 TO THE OTHER. PROGRAM PARAMETERS ARE DEFINED VIA SOLICITED OPERATOR KEY-INS ON THE TELETYPE. HARDHAR AND DATA TRANSMISSION ERRORS ARE REPORTED VIA THE TELETYPE OR CAN BE INHIBITED TO ALLOH ERROR LOOPING. HARDHARE

COMMENTS:
THIS PROGRAM HILL RUN UNDER DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN XSYMBOL.
PROGRAM REQUIRES A SIGMA 2/3 HITH 16K MEMORY, TELETYPE, CARD READER AND THO 7908'S.

706476 2230/2440 LINE PRINTER SIGMA 2/3-530

AUTHOR: XEROX CORPORATION, HESTERN TECHNOLOGY CENTER

ABSTRACT:

THIS TEST PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURES TO THE SMALLEST POSSIBLE LOGIC SEGMENT IN THE LINE PRINTER (MODEL 2230 AND 2440). THE RANDOM EXERCISER AND SOME UTILITY TEST FUNCTIONS ARE INCLUDED IN THE TEST PROGRAM. THE TEST PROGRAM IS INTERFACED TO THE DIAGNOSTIC PROGRAM MONITOR. PROGRAMS 720000-84401 AND 705581-84003 ARE REQUIRED TO LOAD AND EXECUTE THE

708476 CONTINUED ON FOLLOWING PAGE

2230/2440 LINE PRINTER (CONTINUED)
DIAGNOSTIC AS PER INSTRUCTIONS IN DPM MANUAL 901850.

COMMENTS:
THIS PROGRAM HILL RUN UNDER DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN META-SYMBOL.

SIGMA 2/3 OR 530 HITH 16K OF CORE MEMORY; PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE READER, MAGNETIC TAPE UNIT; MESSAGE OUTPUT DEVICE: KSR, LINE PRINTER; LINE PRINTER TO BE TESTED.

REAL-TIME BATCH MONITOR (RBM)

SYSTEM CATALOG NUMBER

705732

DESCRIPTION

RBM is a RAD-oriented monitor system providing concurrent real time and batch processing capabilities on a Sigma 5/7/9 hardware configuration. RBM consists of two assemblers - XEROX ASSEMBLY PROGRAM and MACRO-SYMBOL - as well as the Extended FORTRAN IV-H Compiler, SL-1 and the associated libraries and utilities. Also included is a System Generation routine which adapts RBM to a wide variety of Sigma 5/7/9 configurations.

ELEMENTS NECESSARY FOR NORMAL REQUIREMENTS

| Catalog No. | Description | | | |
|---------------------------|--|--|--|--|
| 7057 3 2 705776 | RBM Operating System Extended FORTRAN IV-H | | | |
| 705738 | Extended FORTRAN (IV/IV-H Library) | | | |
| 705835 | Extended Xerox FORTRAN IV | | | |
| 706459 | Xerox Assembly Program | | | |
| Manuals | Description | | | |
| 901581 | Xerox Sigma Real-Time Batch Monitor Reference Manual | | | |
| 901647 | Xerox Sigma Real-Time Batch Monitor Operations Manual | | | |
| 901653 | Xerox Sigma Real-Time Batch Monitor User's Guide | | | |
| 900966 | Xerox Sigma Extended FORTRAN IV-H Reference Manual | | | |
| 901144 | Xerox Sigma Extended FORTRAN IV-H Operations Manual | | | |
| 900956 | Xerox Sigma Extended FORTRAN IV Reference Manual | | | |
| 901143 | Xerox Sigma Extended FORTRAN IV Operations Manual | | | |
| 903000 | Xerox Assembly Prog Ref Manual | | | |

PROCESSORS AVAILABLE

| Catalog No. | Description |
|-------------|-------------|
| 706117 | SL-1 * |

^{*} Program Product

| <u>Manuals</u> | Description |
|----------------|---------------------------------|
| 901676 | Sigma 5/7 SL-1 Reference Manual |

CONTROL PROGRAM-V** (CP-V) OPERATING SYSTEM

SYSTEM CATALOG NUMBER

707000

DESCRIPTION

CP-V is an operating system that permits on-line time-sharing, remote and batch processing to operate efficiently. It is composed of the Monitor, control processors, language processors and utility subsystems. CP-V includes and makes available the familiar services of the Universal Timesharing System (UTS). Remote terminal users, while on-line to the system, can create, compile, execute and debug their individual programs concurrently with normal batch operations. The remote user is afforded access to all batch capabilities of the system via the capabilities of remote batch entry (through the remote batch terminal) or terminal batch entry (through on-line terminals). CP-V provides a real time capability for both mapped and unmapped programs. Mapped programs are known to the CP-V scheduler, have their interrupts connected (i.e., interrupts are received and initially processed by the monitor), and use monitor services in the same manner as the other programs. Unmapped real time programs are directly connected (i.e., interrupts go directly to the program and the monitor is unaware of the interrupt), and may use a set of monitor services by BAL linkage.

ELEMENTS NECESSARY FOR NORMAL REQUIREMENTS

| Catalog No. | Description |
|--|---|
| 707000 706101 706102 704428 705001 705820 705835 706226 704142 | CP-V Operating System BASIC Sort/Merge Metasymbol Extended FORTRAN IV/IV-H Library (Compressed) Extended FORTRAN IV/IV-H Library Extended Xerox FORTRAN IV Compiler VOLINIT Stand-Alone Loader for VOLINIT |
| Manuals | Description |
| 900907 901675 901692 901674 901764 901790 900956 901143 901677 901199 900952 901053 903060 903026 903056 | Xerox CP-V TS Reference Manual Xerox CP-V OPS Reference Manual Xerox CP-V User's Guide Xerox CP-V SM Reference Manual Xerox CP-V SM Reference Manual Xerox BASIC Reference Manual Xerox Symbol Reference Manual Xerox Extended FORTRAN IV Reference Manual Xerox Extended FORTRAN IV Operations Manual Xerox Extended FORTRAN IV Operations Manual Xerox FORTRAN Debug Package (FDP) Reference Manual Xerox Sort-Merge Reference Manual Xerox Sigma Meta-Symbol/Language, Operations Manual Xerox Sigma 5/7 S/A Systems/OPS Reference Manual Xerox ANS COBOL On-Line Debugger Reference Manual Xerox CP-V Remote Processing Manual Xerox Volume Initialization (VOLINIT) Technical Manual |

| Catalog No. | | Description |
|-------------|-----------|-------------|
| 705783 | Manage* | |
| 705888 | ANS COBOL | |
| 705900 | DMS* | |
| 706118 | SL-1* | |
| 705819 | FLAG | |
| 705865 | CIRC-DC* | |
| 706112 | CIRC-AC* | |
| 706253 | CIRC-TR* | |
| 706412 | TEXT | |
| 706434 | APL | |
| 706419 | RPG | |
| 706461 | EXT DMS* | |
| 706459 | AP | |

^{*}Program Product

| Manuals | Description |
|---------|--|
| 901500 | Xerox ANS COBOL Reference Manual |
| 901501 | Xerox ANS COBOL Operations Manual |
| 901610 | Xerox Manage Reference Manual |
| 903012 | Extended DMS Reference Manual |
| 901738 | Xerox Sigma Data Management System (DMS) |
| 903060 | Xerox ANS COBOL On-Line Debugger Reference Manual |
| | Reference Manual |
| 901676 | Xerox SL-1 Reference Manual |
| 901654 | Xerox Sigma FLAG (FORTRAN LOAD AND GO) |
| | Reference Manual |
| 901697 | Xerox Sigma CIRC-DC Reference Manual |
| 901698 | Xerox Sigma CIRC-AC Reference Manual |
| 901786 | Xerox Sigma CIRC-Transient Reference Manual and Users' Guide |
| 901851 | Xerox TEXT LN/OPS Reference Manual |
| 901873 | Xerox EASY LN/OPS Reference Manual |
| 901931 | Xerox APL LN/OPS Reference Manual |
| 901999 | Xerox 5/9 RPG Report Program Generator |
| 901995 | Reference Manual Xerox CP-V Data Base TEchnical Manual |

^{**}Requires installation by Xerox personnel and post-installation support by trained local personnel.

BPM/BTM OPERATING SYSTEM

SYSTEM CATALOG NUMBER

705000

DESCRIPTION

BPM provides users with a RAD-oriented operating system for efficient machine operation in a closed-shop, production environment. Provision is also made to accommodate priority real time processing on a concurrent basis, offering effective computer multi-usage. BPM controls all system resources and I/O activities for production jobs.

BTM operating system provides concurrent batch processing, time-sharing, and real time capabilities on Sigma 5/6/7/9. Composed of the Sigma 5/6/7/9 Batch Processing Monitor (BPM) plus a Terminal Executive program, language processors and utility subsystems, BTM allows multiple terminal users to operate concurrently with the batch processing service. These remote terminal users, while on-line to the system, can create, compile, execute and debug their individual programs concurrently with normal batch operations at the computer center. Using Terminal Batch Entry in conjunction with the symbiont version of BPM, the terminal user is afforded access to all capabilities of BPM.

Remote batch entry is available via the remote batch terminal.

ELEMENTS NECESSARY FOR NORMAL REQUIREMENTS:

| Catalog No. | Description |
|----------------------------|--|
| 705000 705001 704159 | BPM/BTM Operating System Extended FORTRAN IV-IVH Library (Compressed) Symbol |
| 704428 | Metasymbol TV IV IV |
| 705851 | Extended FORTRAN IV-H Extended FORTRAN IV-IVH Library |
| 705820 705835 | Extended FORTRAN IV |
| | BTM BASIC |
| 705396 706102 | Sort/Merge |
| 700102 | Soft, Morgo |
| Manuals | Description |
| 900954 | Xerox Sigma Batch Processing Monitor (BPM) .Reference Manual |
| 901577 | Xerox Sigma Batch Time-Sharing Monitor (BTM) Reference Manual |
| 901198 | Xerox Sigma BPM/BTM Operations Manual |
| 901783 | Xerox Sigma Batch Processing Monitor (BPM) User's Guide |
| 901679 | Xerox Sigma Batch Time-Sharing Monitor (BTM) User's Guide |
| 901790 | Xerox Sigma Symbol Reference Manual |
| 900956 | Xerox Sigma Extended FORTRAN IV Reference Manual |
| 901143 | Xerox Sigma Extended FORTRAN IV Operations Manual |
| 900966 | Xerox Sigma Extended FORTRAN IV-H Reference Manual |
| 901144 | Xerox Sigma Extended FORTRAN IV-H Operations Manual |
| 901677 | Xerox Sigma FORTRAN Debug Package (FDP) Reference Manual |
| 901546 | Xerox Sigma BASIC Reference Manual |
| 901199 | Xerox Sigma Sort/Merge Reference Manual |
| 900952 | Xerox Sigma Meta-Symbol/Language, Operations Manual |

PROCESSORS AVAILABLE

| Catalog No. | Description |
|-------------|-------------|
| 705783 | Manage * |
| 705819 | FLAG |
| 705831 | FMPS * |
| 705832 | GAMMA3 * |
| 705865 | CIRC-DC * |
| 705888 | ANS COBOL |
| 705900 | DMS * |
| 706112 | CIRC-AC * |
| 706118 | SL-1 * |
| 706130 | GPDS * |
| 706253 | CIRC-TR * |
| 706419 | RPG |

* Program Product

| Manuals | Description |
|---------|---|
| 901610 | Xerox Sigma Manage Reference Manual |
| 901654 | Xerox Sigma FLAG Reference Manual |
| 901609 | Xerox Sigma Functional Mathematical Programming |
| | System Reference Manual |
| 901705 | Xerox Sigma GAMMA3 Reference Manual |
| 901697 | Xerox Sigma CIRC-DC Reference Manual |
| 901500 | Xerox Sigma ANS COBOL Reference Manual |
| 901501 | Xerox Sigma ANS COBOL (BPM) Operations Manual |
| 901738 | Xerox Sigma Data Management System (DMS) Reference Manual |
| 901698 | Xerox Sigma CIRC-AC Reference Manual |
| 901676 | Xerox Sigma SL-1 Reference Manual |
| 901758 | Xerox Sigma General Purpose Discrete Simulator |
| | Reference Manual |
| 901786 | Xerox Sigma CIRC-Transient Reference Manual and |
| | User's Guide |
| 901999 | Xerox Sigma RPG Reference Manual |

CONTROL PROGRAM FOR REAL TIME (CP-R)

SYSTEM CATALOG NUMBER

708000

DESCRIPTION

CP-R is a disk-oriented operating system providing concurrent multi-programmed real-time and batch processing capabilities in a virtual/real memory environment on a Sigma 9 hardware configuration. CP-R consists of three assemblers -- SYMBOL, and AP -- as well as the Extended FORTRAN IV-H and FORTRAN IV Compilers, SL-1 and the associated libraries and utilities. Also included is a System Generation routine which adapts CP-R to a wide variety of Sigma 9 configurations.

ELEMENTS NECESSARY FOR NORMAL REQUIREMENTS

| Catalog No. | Description |
|-------------|---|
| 708000 · | CPR Operating System |
| 705776 | Extended FORTRAN IV-H |
| 705738 | Extended FORTRAN IV-H Library |
| 705835 | Extended Xerox FORTRAN IV |
| 706459 | Xerox Assembly Program |
| 706467 | Xerox Sigma 9 CP-R Error Lister |
| 706226 | Xerox Sigma 9 CP-R VOLINIT |
| Manuals | Description |
| 903085 | Xerox Sigma Real-Time Batch Monitor Reference Manual |
| 903086 | Xerox Sigma Real-Time Batch Monitor Operations Manual |
| 903087 | Xerox Sigma Real-Time Batch Monitor User's Guide |
| 903088 | Xerox Sigma 9 CP-R Technical Manual |
| 901790 | Xerox Sigma Symbol Reference Manual |
| 900966 | Xerox Sigma Extended FORTRAN IV-H Reference Manual |
| 901144 | Xerox Sigma Extended FORTRAN IV-H Operations Manual |
| 900956 | Xerox Sigma Extended FORTRAN IV-H Reference Manual |
| 901143 | Xerox Sigma Extended FORTRAN IV Operations Manual |
| 903000 | Xerox Assembly Prog Ref Manual |

PROCESSORS AVAILABLE

| Catalog No. | Description |
|-------------|-------------|
| | |

706117

SL-1 *

* Program Product

| Manuals | Description |
|---------|---------------------------------|
| 901676 | Sigma 5/7 SL-1 Reference Manual |

XEROX SIGMA 5/7 BASIC CONTROL MONITOR (BCM)

SYSTEM CATALOG NUMBER

704144

DESCRIPTION

BCM provides Sigma 5/7 users with a paper tape or card operating environment, accenting multi-use capability. Sigma 5/7 computer system can service real time foreground jobs concurrently with lower priority background tasks. Job assemblies, compilation, and execution run simultaneously while processing a real time foreground task. Paper tape version occupies 3.0K minimum resident core storage (residence includes I/O handlers for paper tape and teletype only). Card version occupies 3.5K core storage and allows magnetic tape I/O operations.

ELEMENTS NECESSARY FOR NORMAL REQUIREMENTS

| Catalog No | . Description |
|--------------------------------------|--|
| 704144 705850 705821 704158 | Basic Control Monitor Extended FORTRAN IVH Extended FORTRAN IVH Library Symbol |
| Manuals | Description |
| 900953 901790 900966 901144 | Xerox Sigma Basic Control Monitor Reference Manual Xerox Sigma Symbol Reference Manual Xerox Sigma Extended FORTRAN IV-H Reference Manual Xerox Sigma Extended FORTRAN IV-H Operations Manual |

EXTENDED XEROX FORTRAN IV

CATALOG NUMBER

705835 (RBM/BPM/BTM/CP-V)

DESCRIPTION

Extended Xerox FORTRAN IV reads the Xerox FORTRAN IV source language and produces standard Xerox binary output. It has real-time capability (generation of reentrant code), some code optimization and a conversational FORTRAN debug package (FDP).

| Manuals | Description |
|---------|--|
| 900956 | Sigma Extended FORTRAN IV Reference Manual |
| 901143 | Sigma Extended FORTRAN IV Operations Manual |
| 901677 | Xerox Sigma FORTRAN Debug Package (FDP) Reference Manual |

ASSOCIATED LIBRARY

EXTENDED FORTRAN IV/IV-H LIBRARY

The Sigma 5/6/7 Extended FORTRAN library is used by Xerox Extended FORTRAN IV and Extended FORTRAN IV-H programs running under several operating systems. The salient catalog numbers are listed below. All libraries are created from one set of compressed ROMS.

Catalog No.

| 1. | Basic Control Monitor (BCM) | 705821 |
|----|----------------------------------|--------|
| 2. | Batch Processing Monitor (BPM) | 705820 |
| 3. | Batch Time-Sharing Monitor (BTM) | 705820 |
| 4. | Real-Time Batch Monitor (RBM) | 705738 |
| 5. | Control Program V (CP-V) | 705820 |
| | Extended Fortran IV/IVH | 705001 |
| | Combined Compressed Tape | |

Special real-time versions of the library are available for use with the BPM and RBM monitors when real-time processing is required.

One version of the library is provided for use with BPM and BTM in the batch and on-line environments respectively and for use with CP-V. This library contains the FORTRAN Debug Package (FDP) for use in debugging FORTRAN IV and IV-H on-line and batch programs.

All versions are contained in the release issued by the operating system.

| Manuals | | | Description | | | |
|---------|--------|-----------------------|---|--|--|--|
| | 901524 | Xerox Sigma Manual | 5/9 Extended FORTRAN Library Technical | | | |
| | 900906 | Xerox Sigma | 5/9 Mathematical Routines Technical Manual | | | |
| | 903114 | Xerox Sigma | 5/9 Extended FORTRAN IV Compiler Technical Manual | | | |

Technical manuals are only available by special order through Publications.

EXTENDED FORTRAN IV-H

CATALOG NUMBER

705776 (RBM) 705850 (BCM) 705851 (BPM/BTM)

DESCRIPTION

FORTRAN IV-H is a one-pass compiler that is designed for maximum compatibility with both ASA Standard FORTRAN and IBM 360 H-Level FORTRAN IV. It reads the source program only once and simultaneously generates the object program in a form acceptable to the object module loader under BCM, RBM, BPM or BTM.

| Manuals | Description |
|---------|--|
| 901144 | Sigma Extended FORTRAN IV-H Operations Manual |
| 900966 | Sigma Extended FORTRAN IV-H Reference Manual |
| 901677 | Xerox FORTRAN Debug Package (FDP) Reference Manual |

ASSOCIATED LIBRARY

EXTENDED FORTRAN IV/IV-H

The Sigma 5/6/7 Extended FORTRAN library is used by Xerox Extended FORTRAN IV and Extended FORTRAN IV-H programs running under several operating systems. The salient catalog numbers are listed below. All libraries are created from one set of compressed ROMS.

| | | Catalog No. |
|----|----------------------------------|-------------|
| 1. | | 705821 |
| 2. | Batch Processing Monitor (BPM) | 705820 |
| 3. | | 705820 |
| 4. | Real-Time Batch Monitor (RBM) | 705738 |
| 5. | Extended FORTRAN IV/IV-H Library | 705001 |
| : | Combined Compressed Tane | , 55501 |

Special real-time versions of the library are available for use with the BPM and RBM monitors when real-time processing is required.

One version of the library is provided for use with BPM and BTM in the batch and on-line environments respectively. This library contains the FORTRAN Debug Package (FDP) for use in debugging FORTRAN IV and IV-H on-line and batch programs.

| Manuals | Description |
|---------|---|
| 901524 | Xerox Sigma Extended FORTRAN Library Technical Manual |
| 900906 | Xerox Sigma Mathematical Routines Technical Manual |

Technical manuals are only available by special order through Publications.

SIGMA 5/7 STAND ALONE

SYSTEM CATALOG NUMBER

704142

DESCRIPTION

The S/A Monitor assists users in exercising control of a Sigma 5/7 minimum hardware configuration. It provides centralized I/O services for symbolic data files. The user will find an absolute bootstrap loader generator, an assembler, an I/O package, a trap handler, instruction simulators, two loaders, various utility routines and a powerful debugging package available to him.

ELEMENTS NECESSARY FOR NORMAL REQUIREMENTS

| Catalog No. | Description | | | |
|--|---|--|--|--|
| 704160 704142 704155 704397 704357 | Sigma 5/7 Stand-Alone Symbol Assembler Sigma 5/7 Stand-Alone Loader With I/O Handlers Sigma 5/7 Stand-Alone ABS Dumping Loader With I/O Handlers Sigma 5/7 Utility Routines Basic Source Tape (Includes: 704145 - ABS - Bootstrap Loader Generator 704127 - BCM/SA Common Software Package) | | | |
| Manuals | Description | | | |
| 901053 901790 900953 | Xerox Sigma 5/7 Stand-Alone Systems Operations Manual Xerox Sigma 5/7 Symbol Reference Manual Xerox Sigma 5/7 Basic Control Monitor Reference Manual | | | |

FLAG

CATALOG NUMBER

705819

DESCRIPTION

FLAG (FORTRAN LOAD AND GO) is a one-pass, in core FORTRAN compiler, compatible with FORTRAN IV-H that uses the FORTRAN IV library. FLAG has the FORTRAN IV capabilities of FORMAT statements and specifications, extended input/output and most of the function sub-programs that are available to FORTRAN IV users.

It may be used in preference to standard FORTRAN compilers when users are in the debugging phase of developing programs. It will yield a significant reduction of total processing time when used with small to medium sized programs.

Manuals

Description

901654

Sigma 5/9 FLAG Reference Manual

ASSOCIATED LIBRARY

EXTENDED FORTRAN IV/IV-H LIBRARY

The Sigma 5/6/7 Extended FORTRAN library is used by FLAG program running under BPM and CP-V. The FLAG library is actually an intergral part of the FLAG compiler. The customer need order only catalog No. 705819.

Catalog

| Batch Processing Monitor Control Program V (CP-V) | (BPM) | 705820 705820 |
|--|-------|------------------|

GPDS

CATALOG NO

706130

DESCRIPTION

General Purpose Discrete Simulator system is a transaction-oriented simulation language which uses commands selected to enable the user to build models directly from logical flowcharts of the system to be modeled. GPDS is fully compatible with IBM GPSS/360. Enhancements include the ability to store blocks, parameters and matrices on a RAD and automatically swap them in as needed. GPDS also has direct Fortran and Cobol interfaces and an expended ability to indirectly reference all system entities.

Manuals

Description

901758

Xerox Sigma General Purpose Discrete Simulator Reference Manual

ANS COBOL

CATALOG NUMBER

705888 (BPM/BTM, CP-V)

DESCRIPTION

Xerox ANS COBOL Compiler is a full implementation (DOD Subset D) of the COBOL language as defined by the ANS COBOL Standard. The modules defined by the standard and implemented in this compiler are: Nucleus, Table Handling, Sequent Access, Random Access, Sort, Report, Writer, Segmentation and Library. In addition, the following features and modules have been implemented from the proposed 1973 ANS Standard. In Nucleus, Inspect String, Unstring, all of the debug module and level 1 of the Inter-program Communication Module (Linkage Section, Call, Using, Procedure Devision Using).

| Manuals | Description | | | | |
|---------|-----------------------------------|--|--|--|--|
| 901500 | Sigma ANS COBOL Reference Manual | | | | |
| 901501 | Sigma ANS COBOL Operations Manual | | | | |

CATALOG NUMBER

706102 (BPM/BTM)

DESCRIPTION

These programs provide the user with generalized file sorting and merging capability.

Files may be ANS, Xerox Monitor or user formatted and may be fixed or variable length, blocked or unblocked. Up to sixteen key fields can be used for sorting and merging in ascending and/or descending sequence. Sort can efficiently utilize Tape, Disk or a mixture of both for storage of intermediate work files. A replacement selection tournament technique is used for sorting. The merging algorithm (of the Sort) varies according to the type of intermediate storage. If all intermediate storage is assigned to random storage, the random technique is invoked.

| <u>Manuals</u> | | Descripiton | | | | |
|----------------|-------|-------------|-----------|--------|--|--|
| 901199 | Sigma | Sort/Merge | Reference | Manual | | |

XEROX ASSEMBLY PROGRAM (AP)

Catalog Number

706459 (RBM)

Description

Xerox Assembly Program is a high speed low core, Assembler with capability between the obsolete Macro-Symbol and Meta-Symbol Assemblers.

Manuals

Description

903000

Xerox Assembly Program Reference Manual

XEROX APL

CATALOG NO.

706434 (CP-V)

DESCRIPTION

Xerox APL is an implementation of the programming language invented by Kenneth Iverson and most familiar in the form of APL/360. The Xerox implementation is a compatible superset of APL/360 and incorporates improvements not generally found in other implementations. APL is an interpretive, time-sharing, problem-solving language. It includes an extended character set and a powerful set of operators which allow APL programming to be very concise as compared with other languages. APL is finding rapidly increasing acceptance by a wide range of user types, including universities, engineering establishments, and business operations.

Enhancements of Xerox APL over APL/360 are extensive and are summarized in the Introduction section of the Xerox APL Reference Manual.

Manuals

Description

901931

Xerox APL Language and Operations Reference Manual

TEXT

CATALOG NUMBER

706412

DESCRIPTION

Xerox TEXT is an on-line document creation and editing system that provides the capability to create, edit, store, and print documents through remote terminals operating under control of the CP-V Operating System. The TEXT command language is logical and simple, and is oriented towards the non-programmer. Secretaries, the technical writers, and others not familiar with computers can learn to use TEXT in a short period of time.

TEXT runs as a shared processor in the on-line mode under the CP-V Operating System.

Manuals

Description

901851

Xerox TEXT Language and Operating Reference Manual

EXTENDED DATA MANAGEMENT SYSTEM (EDMS)

CATALOG NUMBER

706461

DESCRIPTION

Xerox EDMS is a generalized Data Management System for Sigma computers. It provides for the integration of data from separate areas of a business into a common database. A database may be subdivided into as many as 64 segments thus potentiall reducing the computer resources required as only those segments that are to be accessed, need be available to EDMS. Programs that access the database may be written in COBOL, FORTRAN or METASYMBOL and need only contain a description of those portions of the database that they will access.

EDMS consists of a file definition processor, four utility processors and a run-time library. All may be executed in either batch or on-line mode. The run-time library may be structured as a shared library. Thus, reducing core requirements for application programs.

| <u>Manuals</u> | Description |
|----------------|--|
| 903012 | Xerox Extended Data Management System Reference Manual |

PROCESSORS AVAILABLE

| Catalog Nc. | | Description |
|---|---------|--|
| 706466 (CF-V) Interactive Database Processor (IDP) 706498 (CF-V) EDMS Restructuring Processor (DMSREST) | | · · · |
| | Manuals | Description |
| | 903066 | Xerox Interactive Database Processor Language and Operations Reference Manual |
| | 903012 | Xerox Extended Data Management System Reference Manual |

CIRC-AC

CATALOG NUMBER

706112

DESCRIPTION

CIRC-AC is a computer program for AC (frequency domain) analysis of electronic circuits. The program handles both passive and active components, and includes a stored transistor model. Tentative circuit designs can be evaluated over an automatically scanned frequency range. The program also performs open-loop analyses with proper loading handled automatically. The entire AC analysis can be iterated over various circuit parameter values. A flexible line printer plotting routine, which provides plotted as well as tabular output, is also provided.

Manuals

Description

901698

Xerox Sigma CIRC-AC Reference Manual

NOTE: This processor is a Program Product.

CIRC-DC

CATALOG NUMBER

705865

DESCRIPTION

CIRC-DC provides nominal, sensitivity and automatic worst case analysis for electronic circuits. The program is structured to operate in one of three basic modes: batch processing under BPM, BTM, or CP-V; terminal batch entry under BTM or CP-V; conversational under the CP-V or run subsystem of BTM. The salient features of CIRC-DC include a complete program-user interaction, stored models for all circuit elements, non-linear models for transistors and diodes and dynamic memory allocation to take advantage of various memory configurations.

Manuals

Description

901697

Xerox Sigma CIRC-DC Reference Manual

NOTE: This processor is a Program Product.

CIRC-TR

CATALOG NUMBER

706253

DESCRIPTION

CIRC-TR provides general purpose time-domain analysis of electronic circuits. The program runs in the Batch or Conversational modes under BTM or CP-V and in batch mode under BPM, BTM, or CP-V. It includes many advanced computer-aided design features such as sparse matrix and implicit integration numerical techniques, stored non-linear models for all circuit elements and highly conversational user program.

Manuals

Description

901786

Xerox Sigma CIRC-Transient Reference Manual and Users' Guide

NOTE: This processor is a Program Product.

MANAGE

CATALOG NUMBER

705783

DESCRIPTION

Manage is a generalized file management system expressly designed to aid corporate decision making. It provides a simplified method for using a computer to establish and maintain vital company records on magnetic tapes or mass storage devices, selectively retrieve data from those records and generate printed reports or files for additional computer processing. This catalog number includes both Manage and TOM (Terminal Oriented Manage).

Manuals

Description

901610

Sigma 5/6/7 Manage Reference Manual

NOTE: This processor is a no cost Program Product.

METASYMBOL

CATALOG NUMBER

704428 (BPM/BTM/CP-V)

DESCRIPTION

The META-SYMBOL assembler accepts symbol statements written in the META-SYMBOL language, assembles them, and generates an object program in Xerox SIGMA Standard Object Language and, optionally, a program listing. META-SYMBOL operates as a background processor under BPM/BTM or as a shared processor under the CP-V Operating System.

Manuals

Description

900952

Xerox META-SYMBOL/LN, OPS Reference Manual

SL-1

CATALOG NUMBER

706117 (RBM)

706118 (BPM/BTM/CP-V)

DESCRIPTION

SL-1 is a simplified, problem-oriented digital programming language designed specifically for digital or hybrid simulation. SL-1 is a superset of CSSL (Continuous System Simulation Language), the standard language specified by Simulation-Councils, Inc., for simulation of continuous systems. SL-1 exceeds CSSL capabilities and other existing simulation languages by providing hybrid and real time features, interactive debugging features and a powerful set of conditional translation features.

The SL-1 translator reads SL-1 source programs and converts them to FORTRAN programs for compilation under either the Xerox Extended FORTRAN IV or FORTRAN IV-H compiler. The program also includes a routine library which must be searched, along with the Extended FORTRAN library, to satisfy external references generated by the translator. The processor may be run in batch mode under RBM, BPM, CP-V or on-line from a time-sharing terminal under BTM or CP-V.

Manuals

Description

901676

Sigma SL-1 Reference Manual

NOTE: This processor is a Program Product.

FMPS

CATALOG NUMBER

705831 (BPM/BTM)

DESCRIPTION

FMPS is a mathematical technique designed to help management analyze the potentialities of alternate business activities and to choose those that permit the best use of resources in the pursuit of a desirable objective. It includes the following features: a simple, yet flexible control language, flexible I/O, combination FORTRAN/METASYMBOL for improved efficiency, along with other powerful features expected in a third generation linear programming system. These features include parametric procedures and separable programming. FMPS runs in the batch mode under BPM or BTM.

Manuals

Description

901609

Xerox Sigma 5/7 Functional Mathematical Programming System Reference Manual

NOTE: This processor is a Program Product.

GAMMA 3

CATALOG NUMBER

705832 (BPM/BTM)

DESCRIPTION

GAMMA 3 is a powerful matrix generator and report writer program to be used in conjunction with Xerox FMPS. GAMMA 3 provides the capability to construct a linear programming matrix (in the form required by FMPS) from problem oriented input statements and the preparation of management oriented reports on the solution to an FMPS problem with full titles. It is particularly usefull when the problem variables change frequently, requiring the generation of a new FMPS input matrix and LP solution for each change. GAMMA 3 allows for automatic changes to matrix data and LP solution for each change. GAMMA 3 allows for automatic changes to matrix data and report data as a consequence of altered input data. GAMMA 3 runs in the batch mode under BPM or BTM.

Manuals

Description

901705

Xerox Sigma 5/7 GAMMA 3 Reference Manual

NOTE: This processor is a Program Product.

BASIC

CATALOG NUMBER

705398 (BPM/BTM) 706101 (CP-V)

DESCRIPTION

The BASIC Compiler is a one pass compiler that reads Xerox BASIC statements, compiles them to core, and if no compilation errors were found, executes them. The BASIC compiler produces no binary output. Xerox BASIC is a superset of the original DARTMOUTH BASIC. In addition, an enhanced MATH LIBRARY is provided which includes MATRIX handling capability Also, implicit character string constants are permitted. SUBROUTINE capability is available, and a file I/O capability is provided.

| M | anı | ıa l | ١s |
|---|-----|------|----|
| | | | |

Description

901546

Sigma 5/7 BASIC Reference Manual

SYMBOL

CATALOG NUMBER

704158 (BCM) 704159 (BPM) 705399 (BTM) 705846 (RBM)

DESCRIPTION

The SYMBOL assembler is the one pass assembler which operates as a stand-alone assembler or under the BCM, RBM, BPM and BTM operating systems. It reads SYMBOL source language programs and converts them to machine language (object) programs. Its binary output may be loaded by any of the one pass relocatable loaders.

Manuals

Description

901790

Xerox Symbol/LN, OPS Reference Manual

| KEY | TITLE | CAT.NO | CL | KEY | TITLE | CAT.NO CL |
|--|---|----------------------|------------|----------------------|--|---|
| 'HELP'UTILITY PA | CKAGE YSIS ARIANCE | 890544 | | ANALOG | INPUT DIAGNOSTIC ARGONNE HI- | LEVEL 705868 83 |
| A+B+S ANALYSIS OF V | ARIANCE | 890435 890436 | 07 | ANALOG | INPUT DIAGNOSTICARGONNE LO-I INPUT SUBSYSTEMPURDUE SPECI | AL 704341 83 |
| A'S ANAL. OF VARIAN | CE HIGH SPEED ANOVA - | 990437 706112 | | | SIU DIAGNOSTIC PROGRAMADS-1(S (ELLA)CP-V/CP-R ERROR LOG | D 705887 8 1 |
| ACADEMIC STATISTICS | LISTINGSACST1 NON- R LTVPAM-PDM + ADC | 890646 705367 | B 3 | ANALYSI | S (PRINCIPLE COMPONENTS) FACT | TOR 890460 83 |
| ACCOUNTING SUMMARY. | UTS | 890787 | B 3 | ANALYSI | S - CPSACANONICAL S : HIERARCHICAL GROUPINGCLU | 890450 83 USTER 890472 83 |
| ACCOUNTS PAYABLE CH | UMMARY PROCRSIGMA ECK REGISTER (DP0118) | 705689 890624 | 83 83 | ANALYSI | S OF VARIANCEA+B+S S OF VARIANCEANOVA - GENERAL | 890436 B3 |
| ACCOUNTS PAYABLE CH ACCOUNTS PAYABLE SY | ECKS (DP0120) | 890625 890620 | B3 | ANALYSI | S OF VARIANCEINTERACTIVE | 890839 B3 |
| ACCOUNTS PAYABLE TO | TALS (DP0112)YEARLY | 890621 | B3 | ANALYSI | S OF VARIANCELINDQUIST TYPE S PROGRAM1620 ELECTRONIC CIF | IV 890444 83 RCUIT 890667 83 |
| ACCOUNTS RECEIVABLE | NDOR LABELS (DP0113) (DP0911)BOOKSTORE | 890630 | 83 | ANALYSI: | S HITH ROTATIONFACTOR SA+B+C - DESIGN | 890465 83 890435 83 |
| ACCOUNTS RECEIVABLE ACCOUNTS RECEIVABLE | BILLING-DP0721 SYSTEM (COVER) | 890628 | 83 83 | ANALYSI | SCROSS CLASSIFICATION | 890456 83 |
| ACCOUNTS RECEIVABLE | TRIAL BALANCE-DP0716 | 890627 | 83 | ANALYSI | SDISTRIBUTION SFRIEDMAN THO-HAY SINTERACTIVE MULTIPLE REGRES | 890457 8 3 89042 9 8 3 |
| ACQUISITION PROGRAM | P0115)DUE DATE | 705656 | B3 · | | SINTERACTIVE MULTIPLE REGRES SITEM | SSION 890868 83 890473 83 |
| ACSTI NON-ACADEMIC S | STATISTICS LISTINGS AVERAGE LISTINGS | 890646 890652 | B3 B3 | | SMULTIPLE CLASSIFICATION SMULTIPLE DISCRIMINANT | 890474 83 890475 83 |
| | | | | ANALYSI: | SMULTIPLE REGRESSION | 890476 83 |
| ACST3 CLASS ROSTERS | 5 | 890648 | 83 | ANALYZE | S, STEPHISEMULTIPLE REGRESSI R PROGRAM (EAP)EXECUTION | 890758 83 |
| ACST32 COURSE CONFL | FILE MAINTENANCE | 890654 890655 | 83 83 | ANOVA - | A*S ANAL. OF VARIANCE HIGH SPE CONVARIANCE | ED 890437 B3 |
| ACST34 LANGUAGE LAB | WEEKLY REPORT | 890656 | 83 87 | ANOVA - | GENERAL BALANCE DESIGNS | 890439 83 |
| ACSTS CLASS SCHEDUL | DISTRIBUTION SUMM BEPORTS LCTS FILE MAINTENANCE HEEKLY REPORT STUDENT MASTER ES ORDS | 890650 | B3 | ANOVA - | GENERALIZED ANALYSIS OF VARIAN LINDQUIST TYPE III EXTENDED | FR Fuunda |
| ACTIVITIES TOTALS | ADMISSI-APPLICANT | 890651 890692 | 83 83 | ANUVATE | LINDQUIST TYPE III INDQUIST TYPE I ANAL. OF VARIAN | NE GOUNT DE |
| ACTIVITY INTEREST AC | ADMIS21-APPLICANT DDRESSESADMIS22- DNTROL PROGRAM | 890693 890747 | 83 83 | ANS COBO | DL COMPILERXEROX EROX ASSEMBLY PROGRAM (| 705888 81 |
| ADC ACCEPTANCE TESTS | FOR LTVPAM-PDM + NES (ADCHIGH) | 705367 | 83 | AFAR LIE | SKAKIAN | 706459 B 1 890753 B 3 |
| ADC LOH LEVEL ROUTIN | IES (ADCLOH) | 706231 706232 | 83 83 | APEXTCLE APL COUF | SEAPL LEARNING AID - CLASS. | 890894 83 89092 9 83 |
| ADCHIGH)ADC HIGH ADCLOH)ADC LOH LE | LEVEL ROUTINES (| 706231 | 83 83 | APL FILE | CONVERTERIBM-XEROX RNING AID - CLASS, APL COURSE | 890832 83 |
| ADD SEQUENTIAL SUBRO | UTINE COBOL | 890604 | 83 | APL HORK | SPACE CONVERTERIBM-XEROX | 890831 83 |
| ADDRESSESADMIS22- | ACTIVITY INTEREST | 890693 | 83 83 | APLXE | | 890716 83 706434 8 1 |
| ADMISSION FILEADM ADMISSIONS SYSTEM FO | IES (ADCLOH) LEVEL ROUTINES (VYEL ROUTINES (UTINECOBOL HEAT TRANSFER ACTIVITY INTEREST IISS-LOAD AND UPDATE R SCHOOL ENROLLMENT | 890682 890677 | 83 83 | APLXE | ROX/COAST CAL/ HT ACTIVITIES TOTALSADMIS21- | 890813 B3 |
| ADMIST-RECEIPT FORM. | REN LIST OFILE SHEET | 890678 | 83 87 | APPLICAN | IT ENVELOPESADMIS3- | 890680 83 |
| ADMISTI-APPLICANT PR | REN LIST OFILE SHEET IBUTION LIST VELOPES/LABELS STINGS REPORTS Y STATE ABELS AT AND RANK TIVITIES TOTALS EREST ADDRESSES ED MATRICES E CHART HERESSED RECORDS ELOPES OUNSELOR ENVELOPE | 890684 | 83 83 | APS) SYS | IT PROFILE SHEETADMIS11- 5AUTOMATED PROCUREMENT STAT | 890684 83 US (890895 83 |
| ADMISIN-HIGH SCHOOL | LIST | 890685 890686 | 83 83 | APT3 (LE | VEL: 3) LATHE POSTPROCESSOR | 891000 B3 890749 B3 |
| ADMISIS-SELECTIVE EN | VELOPES/LABELS | 890687 | B3 | ARDS DIS | PLAY TEST | 706234 B3 |
| ADMIST7-SHORT WEEKLY | REPORTS | 890689 | B3 | ARGONNE: | HI-LEVEL ANALOG INPUT DIAGNOST LO-LEVEL ANALOG INPUT DIAGNOST | IC 705868 83 IC 705867 83 |
| ADMISS-FILE FOLDER L | ABELS | 890590 890679 | B3 B3 | ARRAY GE | NERATOR (TEXTAR)BASIC TEXT | 706111 93 |
| ADMISZO-PROFILE BY S | AT AND RANK TIVITIES TOTALS | 890691 | 83 87 | ASR/KSR) | KEYBOARD PRINTER TEST (| 705651 B1 |
| ADMISSE-ACTIVITY INT | EREST ADDRESSES | 890693 | B3 | ASSEMBLE | R (COVER) HETA-SYMBOL | 70442 8 B 1 |
| ADMISES-FAMILY INCOM | E CHART | 890694 | 83 83 | ASSEMBLE ASSEMBLE | R FOR BCMSYMBOL R FOR BPM/BTMSYMBOL | 704158 81 704159 81 |
| ADMISS-APPLICANT ENVI | MPRESSED RECORDS ELOPES | 890696 (890680 (| 93 93 | ASSEMBLE ASSEMBLE | R LIBRARY ROUTINESSCU | 980626 B3 |
| ADMISS-HIGH SCHOOL CO | OUNSELOR ENVELOPE TE ADMISSION FILE | 890681 | 93 | ASSEMBLE | RSIGMA 2 BASIC SYMBOL | 890672 B3 |
| ADS 10 DIAGNOSTIC | 7915/ | 706145 | 81 | ASSEMBLE | R/INTERPRETER SYSTEMMIX | 704150 B1 890715 83 |
| ADS-10 ANALOG SIU DI | AGNOSTIC PROGRAM | 705864 E | 93 91 | ASSEMBLY ASSEMBLY | OF SIGMA 2 PROGPROCEDURES PROGRAM (AP)XEROX | FOR 890615 B3 |
| AID - CLASS, APL COU | 15/ADS-10 RSEAPL LEARNING | 705864 8 | 33 | ATACK | .DEMAND PAGED FORTRANKEYBOARD PRINTER TEST (R (RBM VERSION)SYMBOL R (COVER)META-SYMBOL R FOR BPMSYMBOL R FOR BPM/BTMSYMBOL R LIBRARY ROUTINESSCU RRBM MACRO-SYMBOL RSIGMA 2 BASIC SYMBOL RSTAND-ALONE SYMBOL R.INTERPRETER SYSTEMMIX OF SIGMA 2 PROGPROCEDURES PROGRAM (AP)XEROX PRINT/COPY UTILITY - DATA RECORDING AND TIMING SYSTE | 706119 B3 |
| AID AND READINESS TES | ST (CART)CHECK OUT | 705668 | 33 | AUTO BOD | TSYSTEM DISC DUMP/RESTORE/ | 890734 83 |
| AID) AUTOMATIC INTE | ERACTION DETECTION (| 706205 E 890447 E | 33 | AUTO SCH | | 704074 B1 890954 B3 |
| AID-CHECKERCHECKOR ALGEBRAIC LANGUAGE | UT .CAL-CONVERSATIONAL | 704448 E | | | PU DIAGNOSTIC - NSTRUCTION DIAGNOSTIC - | 704287 B3 730000 B1 |
| ALGOL 60EXTENDED ALLOCATION DIAGNOSTIC | | 890750 E | 33 | AUTO) | CPU DIAGNOSTIC (| 706133 B1 |
| ALTRAN RUN-TIME ROUT | INES | 890846 E | 33 | AUTO-8 CI | CPU DIAGNOSTIC SYSTEM (ROSS-LAG INTERCORRELATION | 704044 83 890448 83 |
| ALUMNI CHILDREN LIST | | 890683 E | | AUTOMATE | D MEDICAL HISTORY PROGRAM D PROCUREMENT STATUS (APS) SYS. | 890724 B3 |
| ALUMNI UPDATING ALU ALUMNI ALUMY SELEC | CTIVE | 890635 E | | AUTOMATIC | C INTERACTION DETECTION (AID) LISTINGSACSTIO GRADE POINT | . 890447 83 |
| ALUMI ALUMNI UPDATIN | NG | 890635 E | 33 | AXB LEAS | ST SQUARES | 890652 83 |
| ALUM3 CLASS DIRECTOR | ₹Ү | 890638 E | 3 | BALANCE | ADER DIAGNOSTIC PROGRAM (DP0917)BOOKSTORE TRIAL | 705663 B3 890633 B3 |
| ALUMY SELECTIVE ALUMALUMS HEAT TRANSFER | ADDRESS TAPE | 890642 E | 3 | BALANCE (| DESIGNSANOVA - GENERAL DP0215DISTRIBUTION LEDGER TR | 890439 B3 |
| ANAL. OF VARIANCE HIC | GH SPEEDANOVA - A+S ANOVA-LINDQUIST TYPE I | 890437 8 | 17 | BALANCE- | DP0716ACCOUNTS RECEIVABLE TR | IAL 890627 83 |
| ANAL. OF VARIANCEL | INDQUIST TYPE EXT. | 890445 B | 13 | BALL HODE | EL XPS-95 DEMO PROGRAMNASA/ EL XPS-95 HANDLERNASA/ | 705843 83 705818 83 |
| ANALEX LINE PRINTER TANALIZER FOR BPMST | TAND-ALONE ERROR LOG | 705731 B | 11 11 | BASIC CON | 1 ABS DUMP LOADER 1PILERBPM/BTM | 704146 B1 705398 B1 |
| ANALOG DIGITAL SIMULA | ATION PROGRAM | 890561 B | | BASIC CON | NCORDANCE | 706292 83 |

| PROGRAM AVAILABILITY LIST | | | ANIC INDEX |
|---|--|---|--|
| KEY TITLE | CAT.NO CL | KEY | CAT.NO CL |
| BASIC SOFTHARE MAGNETIC TAPES BASIC SYMBOL ASSEMBLERSIGMA 2 BASIC TEXT ARRAY GENERATOR (TEXTAR) | 704357 8 1 890872 8 3 | CARD LISTERBATCH STREAM CARD PUNCH EXERCISER (CP-R)CARD READER/ | 890714 B3 708003 B1 890585 B3 |
| | 706111 B3 706101 B1 | CARD READER SYMB. STARTBPM SELF SCARE- CARD READER/CARD PUNCH EXERCISER (CP-R) | 708003 B1 |
| BATCH HONITOR (RBM)REAL-TIME BATCH HONITOR CROSS REFERENCE GENERATOR | 705732 B1 | CARD STORE/RETRIEVE (CSR) CARDUTILITIES,SINGLE | 705879 B1 890859 B3 |
| BATCH MONITOR CRUSS REFERENCE GENERATOR BATCH MONITOR1 (RBM-1)REAL-TIME | 705280 83 | CARD, PUT, MT) - UTIL S/A FILE CPY AND VER(CARDS FOR ILLEG. PUNCHES & SEQ EDIT DATA | 704782 B1 890458 B3 |
| BATCH QUEUE EXCHANGERBATQXCH - | 890928 B3 890714 B3 | CARDSEXTRACT PAYROLL 5 | 890570 B3 |
| BATCH TERMINAL TEST PROGRAMREMOTE | 704983 81 890928 83 | CARDSEXTRACT HAGE CARTPANAVIA | 890567 B3 706441 B3 |
| BATOXCH - BATCH QUEUE EXCHANGER BCD CONVERSIONCN704852 MODOFORTIV COMP | 890321 B3 | CART)CHECK OUT AID AND READINESS TEST (CART-3 CHECK-OUT AID READINESS | 705 668 83 706205 83 |
| BCD-EBCDIC CONVERSION SUBRFORTRAN IV BCD/EBCDIC TRANSLATION TABLE | 890324 B3 704855 B1 | CASPRE BPM | 890791 83 890818 83 |
| BCM ABS DUMP LOADERBASIC | 704146 Bi 704144 Bi | CATALOG PROCEDURES CC-32 DIAGNOSTIC PROGRAM | 705886 B1 |
| BCH OPERATING SYSTEM BCH VER.)DECIMAL INSTRUCTION SIMULATOR | 704364 B1 704365 B1 | CCOPY-PUNCHED CARD COPY/VERIFY PROGRAM CCSON-LINE COMPUTER CENTER SUBSYSTEM | 890727 B3 706438 B1 |
| BCM VER)BYTE-STRING INSTRUC. SIMULATOR BCM VER)FLOATING POINT INST. SIMULATOR | 704363 B1 | CCS-20 DIAGNOSTIC PROGRAM WITH MANDLERS | 705358 B3 708436 B1 |
| BCH VERSUNIMPLEMENTED INST. SIM. PCKG. BCM VERSION)EXTENDED FORTRAN IV-H (| 704362 B1 705850 B1 | CENTER SUBSYSTEM CCSON-LINE COMPUTER CFE-3 TEST | 704348 83 |
| BCMMONITOR FOR | 704133 81 704596 83 | CHANNEL INTERFACE UNIT TEST DIAGNOSTIC CHANNEL MAGNETIC TAPE TEST7 | 705 279 81 705 73 5 81 |
| BCHPOHER FAIL-SAFE UNDER BCHSYMBOL ASSEMBLER FOR | 704158 81 | CHANNEL MAGNETIC TAPE TEST9 CHANNEL TEST PROGRAMINTEGRAL IOP | 705542 81 70401 8 83 |
| BCM)CONVERT INSTRUCTION SIMULATOR (BCM)EXTENDED FORTRAN IV/IV-H LIBRARY (| 704366 B1 705821 B1 | CHAR POTTER LINE PRINTER TEST PROG192 | 705428 83 |
| BCM/STAND-ALONE COMMON SOFTWARE PACKAGE | 704127 B1 890606 B3 | CHARACTER ANALEX LINE PRINTER TEST98- CHARACTER MANIPULATION ROUTINESFORTRAN | 705731 81 890657 83 |
| BDPSPRTCOBOL SUBROUTINE BILLING-DP0721ACCOUNTS RECEIVABLE | 890628 B3 | CHARACTER ORIENTED COMMUNICATION TEST CHARACTER PRINTER TEST PROGRAMOPTICAL | 70401 6 81 706411 8 1 |
| BINOMIAL SIGNIFICANCE TEST BIOMEDICAL PROG REGULAR & X SERIES UCLA | 890449 B3 890890 B3 | CHARGES (DP0916)BOOKSTORE DEPARTMENT | 890632 B3 |
| BIOMEDICAL STATISTICAL PACKAGE-BMDUCLA | 890850 B3 890557 B3 | CHARTADMIS2B-FAMILY INCOME CHECK LISTING (DP0512)OUTSTANDING | 890597 83 |
| BIRD WHISTLING-SIMULATION BIT EDIT DIAGNOSTIC SYSTEM PROGRAM32- | 730014 B1 | CHECK OUT AID AND READINESS TEST (CART) CHECK REGISTER (DP0118)ACCOUNTS PAYABLE | 705 668 83 890624 83 |
| BIT I/O UTILITY PROGRAM32- BIT LIBRARY LOADERXEROX 32- | 730030 B1 730011 B1 | CHECKPAYROLL ERROR | 090565 83 706205 83 |
| BIT HORD TO 64 BITC36T64 CONVERT 38 BITC36T64 CONVERT 36 BIT HORD TO 64 | 890721 83 890721 83 | CHECK-OUT AID READINESSCART-3 CHECKERCHECKOUT AID- | 704448 83 |
| BLDCRSE-S-O-P COURSE NAME PROGRAM | 890582 B3 | CHECKOUT AID-CHECKER CHECKS (DP0120)ACCOUNTS PAYABLE | 704 448 83 8 90 625 83 |
| BLDNAME - S-O-P STUDENT NAME PROGAM BLOCKED AND OVERLAPPED 1/0 PACKAGE | 890583 83 890967 83 | CHECKSPAYROLL CHI-SQUARES, CONTING. COEFFCROSS TABS. | 890566 83 |
| BLOCKER-FILE BLOCKING/UNBLOCKING ROUTINE BLOCKING/UNBLOCKING ROUTINEBLOCKER-FILE | 890955 B3 890955 B3 | CUILDREN LIST ADMISID-ALUMNI | GRAGGS AS |
| BMDUCLA BIOMEDICAL STATISTICAL PACKAGE- | 890850 B3 704173 B1 | CHRONOLOGICAL/SORTED LIST MODCP-V/CP-R-CIRC-AC | 708008 81 706112 A1 |
| BOMTSTAND-ALONE 1/O HANDLER FOR BONOSTAND-ALONE 1/O HANDLER FOR | 704163 B1 | CIRC-DC | 705 86 5 A1 706253 A1 |
| BOOK BOOKSTORE ACCOUNTS RECEIVABLE (DP0911) | 706504 B3 890630 B3 | CIRC-TRANSIENT CIRCUIT ANALYSIS PROGRAM1820 ELECTRONIC | 890667 83 |
| BOOKSTORE DEPARTMENT CHARGES (DP0916) | 890632 B3 890631 B3 | CLASS DIRECTORYALUM3 CLASS ROSTERSACST3 | 890639 8 3 890648 8 3 |
| BOOKSTORE STATEMENTS (DP0913) BOOKSTORE SYSTEM (COVER) | 890629 83 | CLASS SCHEDULESACSTS CLASS, APL COURSEAPL LEARNING AID - | 890650 83 890929 83 |
| BOOKSTORE TRIAL BALANCE (DP0917) BOOLEAN FUNCTIONS FOR SIGMA 7INTEGER | 890633 B3 890327 B3 | CLASSIFICATION ANALYSISCROSS | 890456 B3 |
| BOOTSYSTEM DISC DUMP/RESTORE/AUTO | 890734 B3 704145 B1 | CLASSIFICATION ANALYSISMULTIPLE CLEBSCH-GORDAN SUBROUTINE | 890870 83 |
| BOOTSTRAP LOADERABSOLUTE BOPPSTAND-ALONE I/O HANDLER FOR | 704171 B1 | CLOCK TESTREAL-TIME | 704017 83 70 6227 83 |
| BOUNDARY MODULE FOR ELLACP-V/CP-R- BREAKDOHN TRANSLATOR (ROMBUST)ROM | 708009 B1 890143 B3 | CILICATED ANALYSIS ! HIFRARCHICAL UNUUPING | 890472 83 890321 83 |
| BROHSE - INTERACTIVE INDEXED TEXT SYSTEM BUDGET STATEMENTS (DP0222)MONTHLY | 890877 B3 890593 B3 | CN704852 HODDFORTIV COMP BCD CONVERSION COAST CAL/APLXEROX/ | 890813 83 |
| BUILDTRANSMOG- EBCDIC BINARY FILE | 706201 B3 | COBOL ADD SEQUENTIAL SUBROUTINE | 890604 83 70 5888 81 |
| BURSTERPAGE BUSINESS POLICY GAME | 890797 B3 890558 B3 | COROL KEYED-FILE UTILITY SUBROUTINES | 890590 83 890599 83 |
| BYTE INSTRUCTION DIAGNOSTIC PROGRAM BYTE HIOP TEST PROGRAM4 | 730023 B1 705292 B3 | COBOL RELEASE FILES (RELFILES) COBOL RESTART PROGRAM | 890717 83 |
| BYTE-STRING INSTRUC. SIMULATOR (BCM VER) | 704365 B1 704151 B1 | COBOL SUBROUTINE BIPSPRT COBOL SUBROUTINE BINARY SEARCH | 890606 83 890607 83 |
| BYTE-STRING INSTRUCTION SIMULATOR (S/A) BOCPSTAND-ALONE I/O HANDLER FOR | 704172 B1 | COBOL SUBROUTINE DELREC COBOL SUBROUTINE GETCOM | 890600 93 |
| CAGE SIGMA 7 CPU EXERCISERMARTIN- CAL-CONVERSATIONAL ALGEBRAIC LANGUAGE | 704965 83 890711 83 | COBOL SUBROUTINE GETKEY | 890602 B3 |
| CAL/APLXEROX/COAST | 890813 B3 | COBOL SUBROUTINE KEYSTART COBOL SUBROUTINE PAPERCHG | 890605 B3 |
| CALCFOCAL, FORTRAN-CALCULATOR, DESK CALCOMP PLOTTER LABELLING SUBR (LABEL) | 704061 B3 | COBOL TELETYPE INTERFACE SUBROUTINES | 890746 83 89070 9 83 |
| CALCOMP PLOTTER SUBROUTINE PACKAGE CALCOMP PLOTTERSYMBOL LAB. ROUTINE FOR | 890732 83 890388 83 | COC HANDLER FOR XEROX MESSAGE SHITCH SYS | 7057 26 93 89 0427 93 |
| CALCOMP PLOTTING PACKAGE CALCOMP PLOTTING SUBROUTINE (PLOT) | 890738 83 704060 83 | COCHRAN Q-TEST CODE SYSTEM HANDLER (TCSH)TIME | 706237 B3 706235 B3 |
| CALCULATIONRELIABILITY PREDICTION | 706455 93 890312 83 | CODE TRANSLATOR TESTTIME CODESIGMA 5/7 MFOR LINEAR PROGRAMMING | 890146 83 |
| CALCULATOR, DESK CALCFOCAL, FORTRAN- CALENDAR | 890788 83 | CODED DECIMALECD ENGLISH COEFFCROSS TABS, CHI-SQUARES, CONTINS. | 8907 36 83 89 0454 83 |
| CALS FOR FORTRAN USERS-MONITOR CALI'S CALI'SCALS FOR FORTRAN USERS-MONITOR | 890660 B3 | COEFFICIENT OF CONCORDANCEKENDALL | 890430 B3 890858 B3 |
| CANONICAL ANALYSIS - CPSA CARD COPY AND VERIFY PROGRAM - UTILITY | 890450 B3 704442 B1 | COL. BINARY)SUBROUTINE PUNCH (COLOR TRANSLATORTRISTIMULUS TO MUNSELL | 890878 B3 |
| CARD COPY/VERIFY PROGRAMCCOPY-PUNCHED | 890727 83 705750 83 | COMETMEMORY DIAGNOSTIC - COMMON SOFTWARE PACKAGEBCM/STAND-ALONE | 706140 B1 704127 B1 |
| CARD CORE DUMP - UTILITYONE CARD DECKJT-14 PET UNIT TEST PATTERN | 704427 B3 | COMMUNICATION TESTCHARACTER ORIENTED COMMUNICATIONS CONTROL PROGUNIVAC 1108 | 704016 B1 890743 B3 |
| CARD DUPLICATOR - USES 7160 PUNCH CARD EQUIPMENT TESTCOMPREHENSIVE | 890556 B3 706169 B1 | COMP CCD CONVERSIONCN704852 MODDFONTIV | 890321 B3 704785 B1 |
| CARD FILERCONTROL CARD LISTER USING SIG 5/7 (STAND-ALONE) | 890843 83 890554 83 | COMP/SOURCE UPDATE EDITOR - UTILITYS/A COMPARERMETASYMBOL SOURCE PROGRAM | 890876 B3 |
| CAMP FIGURE AGING GIG BALL (SINNE-VEGUELILI | | | |

```
CAT. NO CL
                                                                                                                                                                                                                                                                                                      KEY
                                                                                                                                                                                                                                                                                                                                                                                                             TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CAT.NO CL
          COMPARISON PROGRAM...SCOMPARE-SOURCE FILE COMPILER DIAGNOSTICS DEMO...FORTRAN IV
                                                                                                                                                                                                                                  890956 B3
                                                                                                                                                                                                                                                                                                    CPSA...CANONICAL ANALYSIS -
CPU DIAGNOSTIC (AUTO)...
CPU DIAGNOSTIC (DECIMAL)...
CPU DIAGNOSTIC (FLOAT)...
CPU DIAGNOSTIC (SUFFIX)...SIGMA 5
CPU DIAGNOSTIC - AUTO...
CPU DIAGNOSTIC - AUTO...
CPU DIAGNOSTIC SYSTEM (AUTO)...
CPU DIAGNOSTIC SYSTEM (FLOAT)...
CPU DIAGNOSTIC SYSTEM (FLOAT)...
CPU DIAGNOSTIC SYSTEM (FLOAT)...
CPU DIAGNOSTIC SYSTEM (FLOAT)...
CPU DIAGNOSTIC SYSTEM (PATTERN)...
CPU DIAGNOSTIC SYSTEM (SUFFIX)...
CPU DIAGNOSTIC SYSTEM (VERIFY)...
CPU DIAGNOSTIC SYSTEM (VERIFY)...
CPU EXERCISER...MARTIN-CAGE SIGMA
                                                                                                                                                                                                                                                                                                      CPSA...CANONICAL ANALYSIS -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                890450 B3
                                                                                                                                                                                                                                   705296 B3
705398 B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                706133 B1
706136 B1
         COMPILER...BPH/STH BASIC
COMPILER...EXTENDED FORTRAN IV
COMPILER...SSS-SAS PCM TELEMETRY
COMPILER...XEROX ANS COBOL
                                                                                                                                                                                                                                  705835 B1
705655 B3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                708135 BI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 708134 81
      COMPILER...XEROX ANS COBOL
COMPILER...XPL (GORDO) - XPL
COMPILER..XPL/S
COMPONENTS)...FACTOR ANALYSIS (PRINCIPLE
COMPREHENSIVE CARD EQUIPMENT TEST...
COMPREHENSIVE LINE PRINTER TEST...
COMPREHENSIVE RAD TEST...
COMPRESSED LIB...EXTENDED FORTRAN IV/IV-M
COMPRESSED LIB...EXTENDED FORTRAN IV/IV-M
COMPRESSED SOURCE MERGE PROGRAM...
COMPRESSION UTILITY PROGRAM...
COMPUTER CENTER SUBSYSTEM CCS...ON-LINE
COMIB...MEMORY DIAGNOSTIC -
CONCORDANCE...BASIC
                                                                                                                                                                                                                                  705888 B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                704174 B3
704287 B3
                                                                                                                                                                                                                                  890923 B3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                704044 83
                                                                                                                                                                                                                                  890460 B3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 704047 B3
                                                                                                                                                                                                                                  706169 B1
706167 B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                704046 83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 704048 83
                                                                                                                                                                                                                                   705730 B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                704043 B3
                                                                                                                                                                                                                                  705001 B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 704045 B3
                                                                                                                                                                                                                                 890696 83
890326 83
                                                                                                                                                                                                                                                                                                   CPU DIAGNOSTIC SYSTEM (VERIFY)...
CPU EXERCISER...MARTIN-CAGE SIGMA 7
CPU HARD CORE PREP (HCP)...
CPU LOADER DOC...FORMAT CONVERTER -
CPY AND VER(CARD, PUT, MT) - UTIL....S/A FILE
CREATE GUARTERLY REPORT RECORD...
CREATE/UPDATE...RELIABILITY PREDICTION
CRITICAL PATH...INTERACTIVE
CROSS CLASSIFICATION ANALYSIS...
CROSS REFERENCE GENERATOR...BATCH HONITOR
CROSS REFERENCE PROGRAM...FORTRAN
CROSS REFERENCE SYMBOL LISTING PROG...
CROSS TABULATION...INTERACTIVE
CROSS TABULATION...INTERACTIVE
CROSS TABULATION...INTERACTIVE
CROSS TABULATION...INTERACTIVE
CROSS - LOAD MODULE CRUSHER...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                704042 B3
704965 B3
COMPRESSION UTILITY PROGRAM...
COMPUTER CENTER SUBSYSTEM CCS...ON-LINE
COMPUTER CENTER
CONCORDANCE...RENDALL COEFFICIENT OF
CONCORDANCE...RENDALL COEFFICIENT OF
CONFICTS...ACST32 COURSE
CONSOLE DIAGNOSTIC PROG....SYSTEM CONTROL
CONSOLE EXAMINER (FACE)...FREESTANDING
CONSOLE TAPE HANDLER...MOTHER-OPERATOR
CONTACT CLOSURE HANDLER...
CONTACT CLOSURE HANDLER...
CONTINUOUS SIMULATION...INTERACTIVE
CONTINUOUS SIMULATION...INTERACTIVE
CONTINUOUS SIMULATION...INTERACTIVE
CONTINUOUS SIMULATION...INTERACTIVE
CONTING. COEFF...CROSS TABS, CHI-SQUARES,
CONTROLLER DIAGNOSTIC...DATA-SET
CONV. LANGUAGE)...BPH/BTM PCL (PERIPHERAL
CONVERSION AL ALGEBRAIC LANGUAGE...CAL-
CONVERSION (7/9 TRACK) - UTIL...MAG. TAPE
CONVERSION (7/9 TRACK) - UTIL...MAG. TAPE
CONVERSION NOB EDITOR ROUTN-UTIL...MEDIA
CONVERSION NUBROUTINE...DATE
CONVERSION SUBR...FORTRAN IV BCD-EBCDIC
CONVERSION SUBR...FORTRAN IV BCD-EBCDIC
CONVERSION SUBROUTINE...DATE
CONVERTION SUBROUTINE...DATE
CONVERTION SUBROUTINE...DATE
CONVERTION SUBROUTINE...DATE
CONVERTION SUBROUTINE...DATE
CONVERTER - CPU LOADER DOC...FORMAT
CONVERTER - CPU LOADER DOC...FORMAT
CONVERTER - CPU LOADER DOC...FORMAT
CONVERTER - IBM-XEROX APL FILE
COPY & VERIFY PROGRAM-UTILITY...PAPER TAPE
COPY & VERIFY PROGRAM-UTILITY...PAPER TAPE
COPY AND VERIFY (BPM) UTILITY...MAG TAPE
COPY AND VERIFY (BPM) UTILITY...MAG TAPE
COPY AND VERIFY (BPM) UTILITY...MAG TAPE
COPY PROCESSOR...MULTIPLE TAPE
COPY PROGRAM HAG TAPE TO DISK...
COPY PROGRAM HAGE TAPE TO DISK...
COPY PROGRAM HAG TAPE TO DISK...
COPY PROGRAM HAGE TAPE
COPY PROCESSOR... MULTIPLE TAPE
COPY PROGRAM HA
                                                                                                                                                                                                                                  706148 B3
706436 B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                706264 R1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 704029 B3
                                                                                                                                                                                                                                  706295 B1
706292 B3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               704782 81
890574 83
                                                                                                                                                                                                                                 890430 B3
890563 B3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                706454 83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                890834 83
                                                                                                                                                                                                                                 890654 B3
730029 B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                890456 B3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               890147 B3
                                                                                                                                                                                                                                704786 B3
890703 B3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               890545 B3
890157 B3
                                                                                                                                                                                                                                706227 B3
890706 B3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              890454 83
890841 83
                                                                                                                                                                                                                                                                                                 CROSS-LAG INTERCORRELATION...AUTO-8
CRSH - LOAD MODULE CRUSHER...
CRSH - LOAD MODULE
CSR)...CARD STORE/RETRIEVE (
CURVE FITTING...INTERACTIVE LEAST SQUARES
CURVE FITTING...POLYNOMIAL
COI...PORT TEST
C35164 CONVERT 35 BIT HORD TO 64 BIT...
DAC HANDLER...DMS-12
DARP)...DATA RETRIEVAL PACKAGE (
DATABASE PROCESSOR (IDP)...INTERACTIVE
DATABLEF SYSTEMS PROGRAMMING PROCEDURES...
DATAFORM GENERATOR BY PLOTTER...PHORMER -
DATE ACCRUED PAYABLES (DPOI15)...DUE
DATE CONVERSION SUBROUTINE...
DATE SUBROUTINE...TIME AND/OR
DATETIME...SUBROUTINE
DAYS SUBROUTINE - HORKDAYS...HORKING
DC...CIRC-
                                                                                                                                                                                                                                 890838 B3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              890448 B3
890745 B3
                                                                                                                                                                                                                                890454 83
                                                                                                                                                                                                                                704013 B1
706206 B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               890745 93
705879 91
                                                                                                                                                                                                                                890438 B3
890711 B3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              890865 83
890835 83
                                                                                                                                                                                                                                704783 B1
704784 B1
890324 B3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              706271 B1
890721 B3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                706229 83
705669 83
                                                                                                                                                                                                                                706105 83
890321 83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               706466 B1
705673 B1
                                                                                                                                                                                                                                 704366 B1
                                                                                                                                                                                                                                 704152 BI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                890534 83
                                                                                                                                                                                                                                890721 83
704029 83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               890623 83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                706105 83
                                                                                                                                                                                                                               890831 83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               890325 83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               890661 83
706104 83
                                                                                                                                                                                                                               704422 B1
705862 B3
                                                                                                                                                                                                                                                                                                  DC...CIRC-
DCB...PATCH
DCB...PATCH
DCB...DISPLAY SET
DCP)...DIAGNOSTIC CONTROL PROGRAM (
DEBUG PACKAGE...INTERACTIVE DMS
DEBUG ROUTINE...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                705865 A1
                                                                                                                                                                                                                                704396 B1
705366 B3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              890783 83
890858 83
                                                                                                                                                                                                                               704442 B1
706128 B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              704070 83
890778 83
                                                                                                                                                                                                                                                                                                 DEBUG ROUTINE...
DEBUG SUBROUTINE.O.-LINE...
DEBUG SUBROUTINE.O.SA GENERAL
DECIMAL INSTRUCTION SIMULATOR (BCM VER.)..
DECIMAL INSTRUCTION SIMULATOR (S/A VERS)..
DECIMAL...ECD ENGLISH CODED
DECIMAL)...CPU DIAGNOSTIC (
DECIMAL)...CPU DIAGNOSTIC SYSTEM (
DECLARE TEMPORARY FILES...
DECM DIAGNOSTIC PROGRAM...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               705658 B3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              704157 B1
704364 B1
                                                                                                                                                                                                                                705423 R3
                                                                                                                                                                                                                                  706443 BI
                                                                                                                                                                                                                                706119 83
705852 83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              704150 B1
890736 B3
                                                                                                                                                                                                                              705869 B3
890727 B3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               706136 B1
                                                                                                                                                                                                                               705751 B3
705750 B3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              704047 B3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              890816 83
                                                                                                                                                                                                                                                                                                  DECLARE TEMPORARY FILES...
DECM DIAGNOSTIC PROGRAM...
DEDUCTION REGISTER...
DEDUCTION REGISTER...SPECIAL
DELETE RAD FILE PROGRAM...
DELETE STANDARD...
DELREC...COBOL SUBROUTINE
DEMAND PAGED FORTRAN ARRAYS...
                                                                                                                                                                                                                              890737 B3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              730024 B1
                                                                                                                                                                                                                               706264 B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              890569 83
890571 83
 CORE PREP (HCP)...PU HARW

CORRELATIONS HITH HISSING DATA...

CORRELATIONS: PRODUCT MOMENT...

COUNSELOR ENVELOPE...ADMIS5-HIGH SCHOOL

COURSE CONFLICTS...ACST32

COURSE NAME PROGRAM...BLDCRSE-S-O-P

COURSE...APL LEARNING AID - CLASS, APL

CP-R ERROR LOG LIST/ANALYSIS (ELLA)...CP-V

CP-R...LINE PRINTER EXERCISER FOR

CP-R...MAGNETIC TAPE EXERCISER FOR

CP-R...ON-LINE EXERCISER SYSTEM FOR

CP-R)...CARD READER/CARD PUNCH EXERCISER (

CP-R)...CONTROL PROGRAM FOR REAL-TIME (

CP-R-BOUNDARY MODULE FOR ELLA...CP-V/

CP-R-CONTROL PROGRAM FOR ELLA...CP-V/

CP-R-CRAPPHICAL DISPLAY MODULE ELLA...CP-V/

CP-R-GRAPPHICAL DISPLAY MODULE ELLA...CP-V/
                                                                                                                                                                                                                              890453 B3
                                                                                                                                                                                                                              890428 83
                                                                                                                                                                                                                             890451 B3
890681 B3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              890768 83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               890600 23
                                                                                                                                                                                                                             890654 83
890582 83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGORAL AT
                                                                                                                                                                                                                                                                                                  DEPARTMENT CHARGES (DP0916)...BOOKSTORE
DEPARTMENT NUMBER...INSERT
DESIGN ANALYSIS...A-B-C -
DESIGNS...ANOVA - GENERAL BALANCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              890632
                                                                                                                                                                                                                              890929 B3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              890572 83
                                                                                                                                                                                                                              708006 B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              890435 83
                                                                                                                                                                                                                                                                                             DESIGN ANALYSIS...A*B*C -
DESIGNS...ANOVA - GENERAL BALANCE
DESK CALC...FOCAL, FORTRAN-CALCULATOR,
DETAB/65 PREPROCESSOR...
DETECTION (AID)...AUTOMATIC INTERACTION
DFAC...FACTORIAL FUNCTIONS FAC AND
DIAG...STANFORD DMS10 DIRECT TO MEMORY
DIAG-SUPI...SYS UNIT/PROCS INTRFACE UNIT
DIAGNOSTIC PROGRAM...7930/7931/7935 SIU
DIAGNOSTIC (AUTO)...CPU
DIAGNOSTIC (FLOAT)...CPU
DIAGNOSTIC (FLOAT)...CPU
DIAGNOSTIC (MEDIC 75)...MEMORY
DIAGNOSTIC (MEDIC 75)...MEMORY
DIAGNOSTIC (MS)...SIOP
DIAGNOSTIC (SUFFIX)...SIGMA 5 CPU
DIAGNOSTIC - AUTO...CPU
DIAGNOSTIC - COMET...MEMORY
                                                                                                                                                                                                                              708002 B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             890439 B3
                                                                                                                                                                                                                              708004 B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            890312 B3
                                                                                                                                                                                                                               708005 B1
                                                                                                                                                                                                                               708001 B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              890447 B3
                                                                                                                                                                                                                              708003 B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             890735 B3
                                                                                                                                                                                                                               708000 B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               705295 B3
                                                                                                                                                                                                                               708009 B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             730009 81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            704211 B1
706133 B1
706136 B1
                                                                                                                                                                                                                              708008 81
                                                                                                                                                                                                                              708007 BI
                                                                                                                                                                                                                             708010 B1
708011 B1
  CP-R-GRAPHICAL DISPLAY MODULE ELLA...CP-V/
CP-V BASIC...
CP-V FLAG...BPM/
CP-V...CONTROL PROGRAM FIVE
CP-V...FAST SAVE/RESTORE -
CP-V...FAST SAVE/RESTORE -
CP-V...SORT PERFORMANCE JOB STREAM FOR
CP-V/CP-R ERROR LOG LIST/ANALYSIS (ELLA)..
CP-V/CP-R-BOUNDARY MODULE FOR ELLA...
CP-V/CP-R-CHRONOLOGICAL/SORTED LIST MOD...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             706135 81
                                                                                                                                                                                                                              706101 81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            704143 B3
704067 B3
                                                                                                                                                                                                                              707000 B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              704057 B3
                                                                                                                                                                                                                              890809 83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             705722 B3
                                                                                                                                                                                                                              706495 B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            706134 B1
704174 B3
                                                                                                                                                                                                                              708006 B1
                                                                                                                                                                                                                              708009 B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              730010 B1
                                                                                                                                                                                                                              708008 B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             704287 B3
    CP-V/CP-R-CONTROL PROGRAM FOR ELLA...
CP-V/CP-R-ERROR SUMMARY MODULE FOR ELLA...
CP-V/CP-R-GRAPHICAL DISPLAY MODULE ELLA...
                                                                                                                                                                                                                               708007 BI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             730000 B1
                                                                                                                                                                                                                             708010 BI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             706140 B1
                                                                                                                                                                                                                           708011 B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             706295 BI
```

| PROURAM AVAILABILITY LIST | CAT NO CI | KEY TITLE | CAT.NO CL |
|--|--|---|---|
| KEY TITLE | CAT.NO CL | | |
| DIAGNOSTIC - FADSINSTRUCTION | 730002 B1 730001 B1 | DISPLAY LIBRARY (ODL)GRAPHIC DISPLAY MODULE ELLACP-V/CP-R-GRAPHICAL | 706129 83 708011 81 |
| DIAGNOSTIC - SUFFIXINSTRUCTION DIAGNOSTIC CONTROL PROGSTAND-ALONE OCP | 706472 9 1 | DISPLAY SET DCB'S | 890858 83 |
| DIAGNOSTIC CONTROL PROGRAM (DCP) | 704070 93 | DISPLAY STATION PROCEDURAL HANDLERXEROX | 706263 81 706234 83 |
| DIAGNOSTIC DEMOFORTRAN IV RUN-TIME DIAGNOSTIC FOR MDC MODIFIED 7580 | 705391.83 705774 81 | DISPLAY TESTARDS DISPLAY TO PLOTTER COPYGRAPHIC | 705852 93 |
| DIAGNOSTIC MONITORGUIDE | 706131 B1 | DISTRIBUTION ANALYSIS | 890457 83 |
| DIAGNOSTIC PROG. SYSLOAD-AND-60 (LAG) DIAGNOSTIC PROGSYSTEM CONTROL CONSOLE | 730013 81 730029 81 | DISTRIBUTION LEDGER TRIAL BALANCE DP0215 DISTRIBUTION SUMMACST12 GEOGRAPHICAL | 8905 92 83 890653 83 |
| DIAGNOSTIC PROGRAM LOADERRELOCATABLE | 704356 83 | DISTRIBUTIONADMISI3-HEEKLY | 890 685 B3 |
| DIAGNOSTIC PROGRAM MAG TAPE LIBRARY DIAGNOSTIC PROGRAM MAGNETIC TAPE LIBRARY | 706144 8 1 705692 8 1 | DISTRIBUTIONPAYROLL DITTO - SIGMA UTILITY FILE HANIPULATOR | 8905 88 83 890517 83 |
| DIAGNOSTIC PROGRAM MAGNETIC TAPE LIBRARY | 730025 81 | DMS - DATA MANAGEMENT SYSTEM (BPM) | 705900 A1 |
| DIAGNOSTIC PROGRAM MONITOR (DPM) DIAGNOSTIC PROGRAM SYSTEM MONITOR | 705682 8 1 730012 8 1 | DMS DEBUG PACKAGEINTERACTIVE DMS 12 DIAGNOSTIC PROGRAM | 890 778 93 706230 93 |
| DIAGNOSTIC PROGRAM WITH HANDLERSCCS-20 | 705358 B3 | DMS-12 DAC HANDLER | 706229 83 |
| DIAGNOSTIC PROGRAMADS-10 ANALOG SIU | 705887 B1 | DMSREST)EDMS RESTRUCTURING PROCESSOR (DMS10 DIRECT TO MEMORY DIAGSTANFORD | 706498 81 705295 83 |
| DIAGNOSTIC PROGRAMAUTO DIAL DIAGNOSTIC PROGRAMBADGE READER | 704074 B1 705663 B3 | DOCFORMAT CONVERTER - CPU LOADER | 704028 83 |
| DIAGNOSTIC PROGRAMBYTE INSTRUCTION | 730023 B1 | DPM)DIAGNOSTIC PROGRAM MONITOR (| 705682 81 |
| DIAGNOSTIC PROGRAMCC-32 DIAGNOSTIC PROGRAMDECM | 705886 B1 730024 B1 | DP0112)YEARLY ACCOUNTS PAYABLE TOTALS (DP0113)ACCOUNTS PAYABLE VENDOR LABELS (| 890822 83 |
| DIAGNOSTIC PROGRAMDMS 12 | 706230 B3 | DP0115)DUE DATE ACCRUED PAYABLES (| 890823 83 |
| DIAGNOSTIC PROGRAMINTERRUPT SYSTEM DIAGNOSTIC PROGRAMLINE PRINTER | 730006 B1 730017 B1 | DP0118)ACCOUNTS PAYABLE CHECK REGISTER DP0120)ACCOUNTS PAYABLE CHECKS (| 890624 83 |
| DIAGNOSTIC PROGRAMMAP | 730004 B1 | DP0215DISTRIBUTION LEDGER TRIAL BALANCE | 890592 83 |
| DIAGNOSTIC PROGRAMMAP AND HRITE LOCK- | 706138 B1 730003 B1 | DP0222)MONTHLY BUDGET STATEMENTS (DP0311)GENERAL LEDGER TOTALS (| 890593 83 8905 9 4 83 |
| DIAGNOSTIC PROGRAMMEMORY DIAGNOSTIC PROGRAMMIOP | 730005 B1 | DP0316GENERAL LEDGER MONTHLY STATEMENT | 890596 83 |
| DIAGNOSTIC PROGRAMPOWER FAIL-SAFE (PFS) | 730022 B1 | DP0512)OUTSTANDING CHECK LISTING (DP0716ACCOUNTS RECEIVABLE TRIAL BALANCE | 890597 93 890627 93 |
| DIAGNOSTIC PROGRAMTRAP DIAGNOSTIC PROGRAM7907 | 730021 B1 706469 B3 | DP0721ACCOUNTS RECEIVABLE BILLING- | 990629 83 |
| DIAGNOSTIC PROGRAM7910/14/15 SIU | 704236 B1 | DP0911)BOOKSTORE ACCOUNTS RECEIVABLE (| 890630 B3 |
| DIAGNOSTIC PROGRAM7922 SIU DIAGNOSTIC PROGRAM7923/28/29 SIU | 704214 81 705392 B1 | DP0913)BOOKSTORE STATEMENTS (DP0916)BOOKSTORE DEPARTMENT CHARGES (| 890632 83 |
| DIAGNOSTIC SYSTEM (AUTO)CPU | 704044 B3 | DP0917)BOOKSTORE TRIAL BALANCE (| 890633 93 |
| DIAGNOSTIC SYSTEM (DECIMAL)CPU DIAGNOSTIC SYSTEM (FLOAT)CPU | 704047 B3 704046 B3 | DREV APL DRIVER PACKAGEPLOT | 890716 83 890387 83 |
| DIAGNOSTIC SYSTEM (MAP)CPU | 704048 B3 | DUE DATE ACCRUED PAYABLES (DP0115) | 890853 B3 |
| DIAGNOSTIC SYSTEM (PATTERN)CPU | 704043 B3 704045 B3 | DUMP - UTILITYKEYED CORE OUMP - UTILITYONE CARD CORE | 705751 B3 |
| DIAGNOSTIC SYSTEM (SUFFIX)CPU DIAGNOSTIC SYSTEM (VERIFY)CPU | 704042 B3 | DUMP - UTILITYSTAND-ALONE SELECTIVE | 704779 B1 |
| DIAGNOSTIC SYSTEM PROGRAM32-BIT EDIT | 730014 81 | DUMP LOADER WITH I/O HANDLERSS/A ABS | 704155 B1 704146 B1 |
| DIAGNOSTIC UTILITYPANAVIA DIAGNOSTICARGONNE HI-LEVEL ANALOG INPUT | 706439 83 705868 83 | DUMP LOADERBASIC SCM ABS DUMP PROGRAMDISC | 890616 83 |
| DIAGNOSTICARGONNE LO-LEVEL ANALOG INPUT | 705867 B3 | DUMP SUBROUTINE - UTILITYMEMORY | 704778 B1 |
| DIAGNOSTICCHANNEL INTERFACE UNIT TEST DIAGNOSTICDATA-SET CONTROLLER | 705279 B1 704013 B1 | DUMPFILE | 890675 B3 890817 B3 |
| DIAGNOSTICDIRECT TO MEMORY SYSTEM | 705303 Bi | DUMPPRINT | 705757 83 |
| DIAGNOSTICINTERRUPT/TRAP DIAGNOSTICKEYBOARD DISPLAY | 706137 B1 704004 B3 | DUMP-UTILSTAND-ALONE MAG TAPE OR DISC DUMP/LIST PROGRAM - UTILITY | 704 780 B1 70542 6 B3 |
| DIAGNOSTIC MEDIUM SPEED MAGNETIC TAPE | 730016 B1 | DUMP/RESTORE/AUTO BOOTSYSTEM DISC | 890734 83 |
| DIAGNOSTICMEMORY PROTECT | 704062 83 706473 8 1 | DUPLICATOR - USES 7180 PUNCHCARD EAP)EXECUTION ANALYZER PROGRAM (| 890556 B3 890758 B3 |
| DIAGNOSTICNS LINE PRINTER DIAGNOSTICPANAVIA TMSUSA | 706442 83 | EASYXEROX UTS/ | 706433 B1 |
| DIAGNOSTICPERIPHERAL SHITCHING EQUIP. | 704314 B1 | EATERSOLE: SIGMA OBJECT LANGUAGE EBCDIC BINARY FILE BUILDTRANSMOG- | 890940 B3 706201 B3 |
| DIAGNOSTICPOHER FAIL SAFE DIAGNOSTICSOFTHARE HARDCORE (SHC) | 708142 B1 730008 B1 | EBCDIC CONVERSION SUBRFORTRAN IV BCD- | 890324 83 |
| DIAGNOSTICSYSTEM KEYBOARD DISPLAY (SKD) | 706236 B1 | EBCDIC INPUT ROUTINEFREE-FIELD | 890549 83 890550 83 |
| DIAGNOSTICTAPE MOTION - TIME CONTROL DIAGNOSTICVARIAN MULTISTYLUS | 706440 B3 706438 B3 | EBCDIC OUTPUT ROUTINEGENERALIZED EBCDIC TRANSLATION TABLEBCD/ | 704855 81 |
| DIAGNOSTIC2230/2470 LINE PRINTER | 706471 B3 | EBCDIC-HEXDUMP MAG TAPE / RAD FILE | 890587 83 890736 83 |
| DIAGNOSTIC7580 GRAPHIC DISPLAY DIAGNOSTIC7902 EDSC | 705387 B1 706173 B3 | ECD ENGLISH CODED DECIMAL EDIT DATA CARDS FOR ILLEG.PUNCHES & SEQ | 890458 B3 |
| DIAGNOSTIC7915/ADS 10 | 706145 B1 | EDIT DIAGNOSTIC SYSTEM PROGRAM 32-811 | 730014 B1 |
| DIAGNOSTIC-FAULT LOCATORMEMORY DIAGNOSTICS DEMOFORTRAN IV ALLOCATION | 705736 83 705762 83 | EDITOR (METAMEDIA)FILE EDITOR - UTILITYMAGNETIC TAPE | 890531 83 704375 8 1 |
| DIAGNOSTICS DEMOFORTRAN IV COMPILER | 705296 83 | EDITOR - UTILITYS/A COMP/SOURCE UPDATE | 7047 85 B1 |
| DIAL DIAGNOSTIC PROGRAMAUTO | 704074 B1 705861 B3 | EDITOR ROUTH-UTILHEDIA CONVERSION AND EDITORHIERARCHICAL TEXT | 704784 B1 890612 B3 |
| DIGITAL I/O UNITHANDLER FOR 7930/7931 DIGITAL SIMULATION PROGRAMANALOG | 890561 B3 | EDITORRBM RAD | 705734 BI |
| DIMENSION TRANSIENT HEAT TRANSFERTHREE | 890766 B3 | EDITORSTAND-ALONE RAD EDMS RESTRUCTURING PROCESSOR (DMSREST) | 090733 B3 1 706498 B1 |
| DIRECT TO MEMORY DIAGSTANFORD DMS10 DIRECT TO MEMORY SYSTEM DIAGNOSTIC | 705295 83 705303 8 1 | EDSC DIAGNOSTIC7902 | 706173 B3 |
| DIRECTORYALUM2 LONG FORM | 890638 83 | ELAPSED TIME SUBR FOR COBOLTIMER ELECTRONIC CIRCUIT ANALYSIS PROGRAM1820 | 890709 B3 |
| DIRECTORYALUM3 CLASS DISC DUMP PROGRAM | 890639 83 890616 83 | ELLACP-V/CP-R-BOUNDARY MODULE FOR | 708009 B1 |
| DISC DUMP-UTILSTAND-ALONE MAG TAPE OR | 704780 B1 | ELLACP-V/CP-R-CONTROL PROGRAM FOR ELLACP-V/CP-R-ERROR SUMMARY MODULE FOR | 708007 B1 708010 B1 |
| DISC DUMP/RESTORE/AUTO BOOTSYSTEM DISC SAVE-RESTORE ROUTINE-UTILSTD-ALONE | 890734 B3 704781 B1 | ELLACP-V/CP-R-GRAPHICAL DISPLAY MODULE | 708011 B1 |
| DISC STORAGE TESTREMOVABLE | 705534 B1 | ELLA)CP-V/CP-R ERROR LOG LIST/ANALYSIS ENGLISH CODED DECIMALECD | 708006 B1 : 890736 B3 |
| DISCFORTRAN RANDOM DISCPROCSUBROUTINE | 890759 83 890644 83 | ENROLLMENTADMISSIONS SYSTEM FOR SCHOOL | 890677 B3 |
| DISCRETE SIMULATION PACKAGE - SIMPAC | 890837 83 | ENTITY SELECTION | 890459 B3 890820 B3 |
| DISCRETE SIMULATOR-GPDSGENERAL PURPOSE DISCRIMINANT ANALYSISMULTIPLE | 708130 A1 890475 B3 | ENTRY PACKAGE - FORM PAKUTS FORM DATA ENTRYHASP REMOTE JOB | 890764 B3 |
| DISK STORAGE TESTREMOVABLE | 706424 B1 | ENVELOPEADMIS5-HIGH SCHOOL COUNSELOR | 890681 93 890680 83 |
| DISKCOPY PROGRAM MAG TAPE TO DISPLAY (SKD) DIAGNOSTICSYSTEM KEYBOARD | 706443 B1 706236 B1 | ENVELOPESADMIS3-APPLICANT ENVELOPES/LABELSADMIS15-SELECTIVE | 890587 93 |
| DISPLAY DIAGNOSTICKEYBOARD | 704004 B3 | EQUIP. DIAGNOSTICPERIPHERAL SHITCHING | 704314 8 1 70616 9 8 1 |
| DISPLAY DIAGNOSTIC7580 GRAPHIC | 705387 B1 | EQUIPMENT TESTCOMPREHENSIVE CARD | |

| PROGRAM AVAILABILITY LIST | | | KHIC INDEX |
|---|-------------------------------------|--|---|
| KEY TITLE | CAT.NO CL | KEY TITLE | CAT.NO CL |
| GENERATE PAYROLL TIME REPORTS GENERATOR (RPG)XEROX REPORT PROGRAM GENERATOR (TEXTAR)BASIC TEXT ARRAY | 890573 B3 706419 B1 706111 B3 | IBM-XEROX APL FILE CONVERTER IBM-XEROX APL HORKSPACE CONVERTER ID)INTERRUPT DIAGNOSTIC (| 890832 83 890831 83 704143 83 |
| GENERATOR (TEEN)TEST FILE GENERATOR BY PLOTTERPHORMER - DATAFORM | 706247 B1 890534 B3 | IDP)INTERACTIVE DATABASE PROCESSOR (ILLEG.PUNCHES & SEQEDIT DATA CARDS FOR | 706466 81 890458 83 |
| GENERATOR REPORT HRITERGAMMA 3 MATRIX- GENERATORBATCH MONITOR CROSS REFERENCE | 705832 A1 890147 83 | INCOME CHARTADMIS28-FAMILY INDEXED TEXT SYSTEMBROWSE - INTERACTIVE | 890 695 83 890 877 83 |
| GENERATORRELIABILITY PREDICTION REPORT GENERATORSTAND-ALONE REGISTER SAVE | 706456 B3 704444 B1 | INERTIA & RADIUS OF GYRATIONMOMENTS OF INITIALIZATIONSTAND-ALONE 1/0 | 890869 83 704853 81 |
| GEOGRAPHICAL DISTRIBUTION SUMMACST12 GETCOMCOBOL SUBROUTINE | 890653 B3 890601 B3 | INITIALIZER-VOLINITSTAND-ALONE VOLUME INPUT DIAGNOSTICARGONNE HI-LEVEL ANALOG | 706226 B1 705868 B3 |
| GETFILE GETKEYCOBOL SUBROUTINE | 890546 B3 890602 B3 | INPUT DIAGNOSTICARGONNE LO-LEVEL ANALOG INPUT FILESMULTSORT - SORT MULTIPLE | 705867 83 705881 83 |
| GETPUTGENERAL 1/O PACKAGE - GO (LAG) DIAGNOSTIC PROG. SYSLOAD-AND- | 890698 83 730013 81 | INPUT ROUTINEFREE-FIELD EBCDIC INPUT SUBROUTINEFREE FIELD FORTRAN IV | 890 322 83 |
| GORDAN SUBROUTINECLEBSCH- GORDO TIME SHARED GRAPHICS FACILITY | 890870 B3 890533 B3 | INPUT SUBSYSTEMPURDUE SPECIAL ANALOG INSERT DEPARTMENT NUMBER | 704341 83 890572 83 |
| GORDO) - XPL COMPILERXPL (GPDSGENERAL PURPOSE DISCRETE SIMULATOR- | 890799 B3 | INST. SIM. PCK (S/A VERS)UNIMPLEMENTED INST. SIM. PCKG. BCM VERSUNIMPLEMENTED | 704148 B1 704362 B1 |
| GRADE POINT AVERAGE LISTINGSACST10 | 890652 83 890647 83 | INST. SIMULATOR (BCM VER)FLOATING POINT INST. SIMULATOR (S/A VERSFLOATING POINT | 704 363 81 7041 49 8 1 |
| GRADE REPORTSACSTE FINAL GRADPACK | 890966 B3 890930 B3 | INST. TRAP HANDLER (S/A VERS)UNIMPL. INSTRUC. SIMULATOR (BCM VER)BYTE-STRING | 704153 9 1 704 365 9 1 |
| GRAN GRAPH PLOTTER TEST | 704050 B1 890804 B3 | INSTRUCTION DIAGNOSTIC - AUTO INSTRUCTION DIAGNOSTIC - FADS | 730 000 81 730 002 81 |
| GRAPHIC DISPLAY DIAGNOSTIC7580 | 705387 B1 706129 B3 | INSTRUCTION DIAGNOSTIC - SUFFIX INSTRUCTION DIAGNOSTIC PROGRAMBYTE | 730001 81 730023 81 |
| GRAPHIC DISPLAY LIBRARY (GDL) GRAPHIC DISPLAY TO PLOTTER COPY | 705852 B3 890872 B3 | INSTRUCTION SIMULATOR (BCM VER.)DECIMAL INSTRUCTION SIMULATOR (BCM)CONVERT | 704384 81 704388 8 1 |
| GRAPHIC VECTOR FILE GRAPHICAL DISPLAY MODULE ELLACP-V/CP-R- | 708011 B1 890533 B3 | INSTRUCTION SIMULATOR (S/A VERS)DECIMAL INSTRUCTION SIMULATOR (S/A)BYTE-STRING | 704150 81 704151 81 |
| GRAPHICS FACILITYGORDO TIME SHARED GRAPHICS SUBROUTINES | 890871 B3 | INSTRUCTION SIMULATOR (S/A)CONVERT INTEGER BOOLEAN FUNCTIONS FOR SIGMA 7 | 704152 B1 890327 B3 |
| GROUPINGCLUSTER ANALYSIS : HIERARCHICAL GUIDE DIAGNOSTIC MONITOR | ADIST BI | INTEGRAL 10P CHANNEL TEST PROGRAM INTERACTION DETECTION (AID)AUTOMATIC | 704018 B3 890447 B3 |
| GYRATION MOMENTS OF INERTIA & RADIUS OF | 706267 B1 890869 B3 | INTERACTIVE ANALYSIS OF VARIANCE INTERACTIVE CONTINUOUS SIMULATION | 890839 83 890838 83 |
| HANDLER (FORTRAN IV-H)7910 SIU HANDLER (S/A VERS)UNIMPL. INST. TRAP | 705891 B3 704153 B1 | INTERACTIVE CRITICAL PATH INTERACTIVE CROSS TABULATION | 890834 83 890841 83 |
| HANDLER (TCSH)TIME CODE SYSTEM HANDLER FOR BOMTSTAND-ALONE I/O | 706237 B3 704173 B1 | INTERACTIVE DATABASE PROCESSOR (IDP) | 706466 81 890778 83 |
| HANDLER FOR BONOSTAND-ALONE I/O HANDLER FOR BOPPSTAND-ALONE I/O | 704163 B1 704171 B1 | INTERACTIVE DMS DEBUG PACKAGE INTERACTIVE INDEXED TEXT SYSTEMBROWSE - | 890877 83 |
| HANDLER FOR BOCPSTAND-ALONE I/O HANDLER FOR LOLPSTAND-ALONE I/O | 704172 B1 704165 B1 | INTERACTIVE LEAST SQUARES CURVE FITTING INTERACTIVE MULTIPLE LINEAR REGRESSION | 890836 83 890866 83 |
| HANDLER FOR LONGSTAND-ALONE 1/0 | 704166 B1 704164 B1 | INTERACTIVE MULTIPLE REGRESSION ANALYSIS INTERACTIVE PLOTTING PROGRAM | 890840 B3 890673 B3 |
| HANDLER FOR LOTYSTAND-ALONE 1/0 HANDLER FOR MOCD'SRBM/BPM | 704167 B1 706259 B1 | INTERACTIVE SNOBOL4 INTERACTIVE STEPHISE REGRESSION PROGRAM | |
| HANDLER FOR SICRSTAND-ALONE I/O HANDLER FOR SIMTSTAND-ALONE I/O | 704168 B1 704169 B1 | INTERACTIVE TRANSGENERATION INTERCORRELATIONAUTO-8 CROSS-LAG | 890693 83 |
| HANDLER FOR SIPRSTAND-ALONE 1/0 HANDLER FOR TUNABLE OSCILLATOR (VCO) | 704170 B1 706228 B3 | INTEREST ADDRESSESADMIS22-ACTIVITY INTERFACE ROUTINESSPECIAL FORT-SYMBOL | 705896 83 |
| HANDLER FOR XEROX MESSAGE SWITCH SYSCOC | 705726 83 705864 83 | INTERFACE SUBROUTINESCOBOL TELETYPE INTERFACE UNIT TEST DIAGNOSTICCHANNEL | 890746 83 705279 81 |
| HANDLER FOR 7930/7931 DIGITAL I/O UNIT | 705861 B3 705860 B3 | INTERFACESORT INTERLEAVING TESTMEMORY | 090730 83 704121 93 |
| HANDLERCONTACT CLOSURE | 706227 B3 70622 9 B3 | INTERPRETER SYSTEMMIX ASSEMBLER/ INTERPRETERSCU | 690715 83 706437 83 |
| HANDLERMOTHER-OPERATOR CONSOLE TAPE HANDLERNASA/BALL MODEL XPS-85 | 890703 B3 705818 B3 | INTERRUPT DIAGNOSTIC (ID) INTERRUPT SYSTEM DIAGNOSTIC PROGRAM | 704143 83 730006 81 |
| HANDLERPLOTTER HANDLERRBM MOC | 890739 B3 706113 B3 | INTERRUPT/TRAP DIAGNOSTIC INTRFACE UNIT DIAG-SUPISYS UNIT/PROCS | 706137 81 730809 81 |
| HANDLERSIU 7923 HANDLERXEROX DISPLAY STATION PROCEDURAL | 705854 83 | IOP CHANNEL TEST PROGRAMINTEGRAL IOP DIAGNOSTIC (MIOP)MULTIPLEX | 704018 83 704057 83 |
| HANDLER7 TRACK MAGNETIC TAPE 1/0 HANDLER7929 AND 7935 SIU | 704851 B1 706143 B3 | 10P TEST PROGRAMSELECTOR | 704788 63 706139 8 1 |
| HANDLERSCCS-20 DIAGNOSTIC PROGRAM WITH HANDLERSS/A ABS DUMP LOADER WITH 1/0 | 705358 83 704155 81 | 10P TESTHIGH-SPEED RAD | 706200 81 890473 83 |
| HANDLERSSTAND-ALONE LOADER HITH 1/0 HAND CORE PREP (HCP)CPU | 704142 B1 706264 B1 | IVHFORTRAN PRECOMPILER FORT 11-FORT JANUS TIMESHARING SYSTEM | 890708 83 890532 83 |
| HARD CORE (SHC) DIAGNOSTICSOFTHARE HASP REMOTE JOB ENTRY | 730008 B1 890764 B3 | JOB ENTRYHASP REMOTE JOB STREAM FOR CP-VSORT PERFORMANCE | 890764 83 705495 81 |
| HASP REHUTE SOB ENTITION OF THE PROPERTY OF T | 706264 B1 890643 B3 | JT-14 PET UNIT TEST PATTERN CARD DECK KEEPER FOR CONTINUING TOURNAMENTSSCORE | 704427 83 890706 83 |
| HEAT TRANSFER STUDENT MASTERACSTH HEAT TRANSFERTHREE DIMENSION TRANSIENT | 890649 B3 890766 B3 | KENDALL COEFFICIENT OF CONCORDANCE KEYBOARD DISPLAY (SKD) DIAGNOSTICSYSTEM | 706236 8 1 |
| HEADUMP MAG TAPE / RAD FILEEBCDIC- HI-LEVEL ANALOG INPUT DIAGNOSTICARGONNE | 890587 B3 705868 B3 | KEYBOARD DISPLAY DIAGNOSTIC KEYBOARD PRINTER TEST (ASR/KSR) | 705651 B1 |
| HIERARCHICAL GROUPINGCLUSTER ANALYSIS : | 890472 83 890612 83 | KEYED CORE DUMP - UTILITY KEYED FILE I/O ROUTINESFORTRAN IV | 705751 83 890323 83 |
| HIERARCHICAL TEXT EDITOR HIERARCHICAL TRANSFORMATION HIGH LEVEL ROUTINES (ADCHIGH)ADC | 890461 B3 706231 B3 | KEYED-FILE UTILITY SUBROUTINESCOBOL KEYED/RANDOM FILES FOR FORTRAN IV | 890598 83 890757 83 |
| HIGH SCHOOL COUNSELOR ENVELOPE ADMISS- | 890681 B3 890686 B3 | KEYSTARTCOBOL SUBROUTINE KSR)KEYBOARD PRINTER TEST (ASR/ | 890603 83 705651 81 |
| HIGH SCHOOL LISTADMISI4- HIGH SPEEDANOVA - A*S ANAL. OF VARIANCE | 890437 83 706200 B1 | KHICPAL- LAR FILE MAINTENANCEACST33 LANGUAGE | 705126 83 890655 83 |
| HIGH-SPEED RAD 10P TEST HISTOGRAMSCATTERGRAM | 890433 B3 890724 B3 | LAB MEEKLY REPORTACST34 LANGUAGE | 890556 83 890388 83 |
| HISTORY PROGRAMAUTOMATED MEDICAL HYBRID EXECUTIVE LIBRARYMBB HYBRID EXECUTIVE LIBRARYHESTINGHOUSE | 705897 B3 705670 B3 | LABEL)CALCOMP PLOTTER LABELLING SUBR (LABELED SOFTHARE SUPPORT TAPE (SST) | 704081 93 880832 9 1 |
| HYBRID EXECUTIVE LIBRARYHESTINGHOUSE HYPOTHESIS TESTINGFACTOR | 890467 B3 | LABELED TAPEPRINT | 705878 91 |

| KEY | TITLE | CAT.NO | CL | KEY | | CAT.NO | CL |
|-------------|---|------------------|-------|---------|---|---------------------------|--------------|
| MODULE FOR | ELLACP-V/CP-R-ERROR SUMMARY | 708010 | 81 | PAYABLE | | 890625 | |
| MODOFORTIV | COMP BCD CONVERSIONCN704852 | 890321 | 83 | PAYABLE | TOTALS (DP0112) YEARLY ACCOUNTS | 890821 | 83 |
| MOMENT / 20 | | 890452 890451 | | PAYABLE | VENDOR LABELS (DP0113)ACCOUNTS | BANDES | 63 |
| MOMENTS OF | INERTIA & RADIUS OF GYRATION | 890869 | 83 | PAYABLE | S (DP0115)DUE DATE ACCRUED | 890952 | 63 |
| MONDUMP (CO | OVER) | 706150 | 81 | | | 890566 890568 | |
| MONITOR (DI | PM)DIAGNOSTIC PROGRAM BM)REAL-TIME BATCH | 705682 705732 | | | DISTRIBUTION ERROR CHECK PROOF TEST | 890565 | 83 |
| MONITOR CAL | 1'SCALS FOR FORTRAN USERS- | 890660 | B3 | PAYROLL | PROOF TEST | 890577 | 83 |
| MONITOR CR | SS REFERENCE GENERATOR BATCH | 890147 | 83 | PAYROLL | QUARTERLY PROOF AND LOCAL TAX | 8 90 57 5 | 93 87 |
| MONITOR FO | R BCM | 704133 | | PAYROLL | | 890562 | |
| | DIAGNOSTIC PROGRAM SYSTEM GUIDE DIAGNOSTIC | 706131 | | PAYROLL | TIME REPORTSGENERATE | 890573 | 83 |
| MONITOR1 | (RBM-1)REAL-TIME BATCH | 705280 | | PAYROLL | | 890563 890570 | |
| MONTHLY BU | DGET STATEMENTS (DP0222) | 890593 | | PAYROLL | ELEMETRY SYSTEM | 706125 | 83 |
| MONTHLY STA | ATEMENT (DP0316GENERAL LEDGER RATOR CONSOLE TAPE HANDLER | 890703 | 83 | PCK (S/ | A VERS) UNIMPLEMENTED INST. SIM. | 704148 | B1 |
| | IME CONTROL DIAGNOSTIC TAPE | 706440 | B3 | PCKG. E | CH VERS UNIMPLEMENTED INST. SIM. | 704362 | 81 |
| | DIAGNOSTIC (| 705722 | | PCL (PE | RIPHERAL CONV. LANGUAGE)BPH/BTM A ACQUISITION PROGRAM | 705858 | 83 |
| MSP | S/A FILE CPY AND VER(CARD, PUT, | 890933 704782 | 81 | PCM TEL | EMETRY COMPILERSSS-SAS | 705655 | 83 |
| MULTI TAPE | COPY) SMUT - (SIGMA 5/6/7 | 705869 | 83 | PCM TES | ST0S0 | 706204 | |
| MULTI-PROCE | ESSOR EXERCISER | 705390 | | PCM TES | STRADIATION ADC ACCEPTANCE TESTS FOR LTVPAM- | 706203 705367 | |
| MULTIPLE CI | LASSIFICATION ANALYSIS | 890474 890475 | 83 | PDUMP. | TO NOOD THE STATE OF THE STATE | 890613 | |
| MULTIPLE U | LASSIFICATION ANALYSIS ISCRIMINANT ANALYSIS NPUT FILESMULTSORT - SORT INEAR REGRESSIONINTERACTIVE EGRESSION ANALYSIS | 705881 | B3 | PERFORM | MANCE JOB STREAM FOR CP-VSORT | 706495 | |
| MULTIPLE L | INEAR REGRESSION INTERACTIVE | 890836 | 83 | PERIPHE | RAL CONV. LANGUAGE)BPM/BTM PCL (| 706205 | D1 : |
| MULTIPLE RI | EGRESSION ANALYSIS EGRESSION ANALYSISINTERACTIVE | 890476 | 83 | PERIPHE | RAL SHITCHING EQUIP. DIAGNOSTIC | 890851 | 83 |
| MULTIPLE R | EGRESSION ANALYSIS, STEPHISE | 890477 | B3 | PERSPEC | TIVE PLOT | 890590 | |
| MULTIPLE T | APE COPY PROCESSOR | 705128 | 81 | PET UN | T TEST PATTERN CARD DECK JT-14 | 704427 | |
| | IOP DIAGNOSTIC (MIOP) | 704057 | | PFS) DI | AGNOSTIC PROGRAMPOHER FAIL-SAFE R - DATAFORM GENERATOR BY PLOTTER | 730022 | 83 |
| MULTISTYLU | S DIAGNOSTICVARIAN SORT MULTIPLE INPUT FILES | 706438 705881 | | PLANT S | SECURITY CONTROL PACKAGE | 706508 | 83 |
| | AD TRANSPATOR TRICTIMINUS TO | 991979 | 87 | PLOT DE | RIVER PACKAGE | 890307 | 83 |
| NAME PROGA | MBLDNAME - S-O-P STUDENT | 890583 | B3 | PLOT SI | STORE FACENCE JEROUTINELINE PLOTTER JEROUTINEPRINTER JEROUTINEPRINTER | 70576 | 83 |
| NAME PROGR | AMBLDCRSE-S-O-P COURSE | 705847 | 1 B 3 | PLOT SI | UBROUTINEPRINTER | 890713 | 93 |
| NASA/BALL | MODEL XPS-95 HANDLER | 705818 | B3 | PLOT | PERSPECTIVE | 890590 | 93 |
| NEED MATRI | CESADMIS25-FINANCIAL | 890694 | B3 | PLOT). | CALCOMP PLOTTING SUBROUTINE (| 704050 | 83 |
| NEH SYSTEM | MBLONAME - S-O-P STUDENT MBLOCRSE-S-O-P COURSE MODEL XPS-95 DEMO PROGRAM MODEL XPS-95 HANDLER CESADMIS25-FINANCIAL EXERCISER (SEX) C STATISTICS LISTINGSACSTI | 705888 | 81 | PLUTTE | PERSPECTIVE .CALCOMP PLOTTING SUBROUTINE (R COPYGRAPHIC DISPLAY TO R HANDLER | 890739 | 83 |
| NON-ACADEM | GRTM PLOTTING PACKAGE | 890707 | 83 | PLOTTE | R LABELLING SUBR (LABEL)CALCOMP | 704091 | y s |
| NS LINE PR | INTER DIAGNOSTIC | 706473 | 81 | PLOTTE | R PLOT SUBROUTINELINE | 890676 | |
| NUMBER | GBTM PLOTTING PACKAGE INTER DIAGNOSTIC NSERT DEPARTMENT CONTROL PROGRAMADAPT - | 890578 | B3 | | R SUBROUTINE PACKAGECALCOMP R TESTGRAPH | 890732 704050 | |
| NUMERICAL | CONTROL PROGRAMADAPT = SUBROUTINE PACKAGE (COVER)XDS | 890000 | B3 | PLOTTE | RPHORMER - DATAFORM GENERATOR BY | 890534 | 83 |
| OBJECT LAN | GUAGE EATERSOLE: SIGMA | 890940 | 83 | PLOTTE | RSYMBOL LAB. ROUTINE FOR CALCOMP | 890388 | 03 |
| OCP DIAGNO | STIC CONTROL PROGSTAND-ALONE | 706472 | 9 B1 | PLOTTI | NG PACKAGE NONLABELINGBIR | 890707 | 83 |
| OLMP)UT | S ON-LINE MAINTENANCE PACKAGE (REGISTRATION PROGSOP-STUDENT | 705884 | 83 | PLOTTI | NG PACKAGE7530/7531 | 705657 | 03 |
| OPERATING | SYSTEMBCM | 704144 | 81 | PLOTTI | NG PROGRAMINTERACTIVE | 890840 | 83 |
| OPERATING | SYSTEMBPM/BTM | 705000 | | PLOTTI | RSYMBOL LAB. ROUTINE FOR CALCOMP NG PACKAGE NONLABELINGBTM NG PACKAGECALCOMP NG PACKAGE7530/7531 NG PROGRAMINTERACTIVE NG SUBROUTINE (PLOT)CALCOMP GAMEBUSINESS MIAL CURVE FITTING EST COI ON TAPE PROGRAM (POST) ON TAPE PROGRAM FOR 7T/9TPOSITION TAPE PROGRAM (CLESSORAPT3 (LEVEL 3) LATHE LINE PRINTER TEST PROG192.CHAR | 704050 890558 | 03 |
| OPERATOR C | ONSOLE TAPE HANDLERMOTHER- ARACTER PRINTER TEST PROGRAM | 890703 706411 | | POLICY | MIAL CURVE FITTING | 890835 | 03 |
| ORIENTED C | OMMUNICATION TESTCHARACTER | 704016 | | PORT T | EST CO1 | 708271 | 01 |
| ORIENTED L | ANGUAGESOL-SIMULATION- | 890363 | | POSITIO | ON TAPE PROGRAM (POST) | 705425 | 0 U3 |
| | ANAGE MANAGE AND TERMINAL | 705783 890786 | | POSTI | POSITION TAPE PROGRAM (| 705425 | 03 |
| OSCILLATOR | ERGE & SORTTOMAS-TERMINAL (VCO)HANDLER FOR TUNABLE | 706226 | | POSTPR | OCESSORAPT3 (LEVEL 3) LATHE | 891000 | 03 |
| OSO PCH TE | ST | 706204 | | POTTER | LINE PRINTER TEST PROG192 CHAR | 705428 | |
| | D READINESS TEST (CART)CHECK | 705666 706205 | | POHER | FAIL SAFE DIAGNOSTIC FAIL SAFE TEST | 704122 | |
| OUTRAD | ADINESSCART-3 CHECK- Files in/ | 890614 | | POWER | FAIL-SAFE (PFS) DIAGNOSTIC PROGRAM | 730022 | |
| OUTSTANDIN | G CHECK LISTING (DP0512) | 89059 | 7 B3 | POWER | FAIL-SAFE UNDER BCM PILER FORT 11-FORT IVHFORTRAN | 704596 890708 | |
| OVER 32K). | SYMMETRIC LIST PROCESSOR (| 890145 | | PRECOM | TION CALCULATIONRELIABILITY | 708455 | |
| |) I/O PACKAGEBLOCKED AND NADERRBM | 70573 | | PREDIC | TION CREATE/UPDATERELIABILITY | 706454 | |
| PACKFO | RTIV-SCATTER READ/HRITE MAG TAPE | 890589 | 3 B3 | | TION REPORT GENERATOR RELIABILITY | 708456 | |
| PAGE BURST | ER | 69079 | | | HCP)CPU HARD CORÉ CESSORDETAB/65 | 706264 890702 | |
| | RAN ARRAYSDEMAND Form data entry package – form | 89088 | | PREREG | ISTRATION PROGSOP-STUDENT ONLINE | 890581 | 83 |
| PAL-KHIC. | | 706120 | 3 B3 | PRINCI | PLE COMPONENTS)FACTOR ANALYSIS (| 890460 705757 |) B3 |
| | ADC ACCEPTANCE TESTS FOR LTV | 70536 | | | DUMP Forms processor | 890815 | |
| PANAVIA CA | ART AGNOSTIC UTILITY | 70644 70643 | | PRINT | LABELED TAPE | 705876 | 01 |
| | SOSA DIAGNOSTIC | 70644 | S 83 | PRINT | UTILITYFLASH - TAPE TO | 890938 | |
| PAPER TAPE | COPY & VERIFY PROGRAM-UTILITY | 70442 | | PRINT. | SNEAK-ON MEMORY COPY UTILITY - ATACK | 705775 | |
| PAPER TAPE | READ PROGRAM - TRANSLT READER/PUNCH TEST | 89083 70406 | | PRINTE | R DIAGNOSTIC PROGRAMLINE | 730017 | 91 |
| | UTILITYGENERATE | 70549 | | PRINTE | R DIAGNOSTICNS LINE | 706473 | |
| PAPERCHG. | COBOL SUBROUTINE | 89060 | 5 83 | PRINTE | R DIAGNOSTIC2230/2470 LINE R EXERCISER FOR CP-RLINE | 708471 | |
| PAPLIST | DRRELATIONS | 89075 89042 | | PRINTE | R OR TYPEHRITER MESSAGE HRITER FOR | 890383 | B B 3 |
| | ORD MANIPULATION OR TEST | 89066 | | PRINTE | R PLOT SUBROUTINE | 890713 | |
| PASS AND E | EXECUTE (LOPE) BPMLOAD ONE | 70526 | | PRINTE | R PLOT SUBROUTINELINE R TEST (ASR/KSR)KEYBOARD | 705380 | |
| PATCH DCB | TERACTIVE CRITICAL | 89078 89083 | | PRINTE | R TEST PROG 192 CHAR POTTER LINE | 705426 | 93 : |
| PATTERN CA | ARD DECKJT-14 PET UNIT TEST | 70442 | | PRINTE | R TEST PROGRAMOPTICAL CHARACTER | 706411 | |
| PATTERN). | CPU DIAGNOSTIC SYSTEM (| 70404 | 3 B3 | PRINTE | R TESTCOMPREHENSIVE LINE R TEST98-CHARACTER ANALEX LINE | 706167 705 7 31 | |
| PAYABLE C | HECK REGISTER (DP0118) ACCOUNTS | 84025 | 7 85 | FRINIE | n issittes vinnaliti amagen sille | | |

| KEY | TITLE | CAT.NO CL | KEY | TITLE | CAT.NO CL |
|------|--|---|------------------------|--|--------------------------------------|
| | EDURAL HANDLER XEROX DISPLAY STATION | | | SYMBOL LISTING PROGCROSS | 890157 83 |
| | EDURE DECK FOR SCUMETA-SYMBOL EDURES - SYS"EM BPMBPM USER | 706450 B1 704768 B1 | | DP0118)ACCOUNTS PAYABLE CHECK SAVE GENERATORSTAND-ALONE | 890624 B3 704444 B1 |
| PRO | EDURES FOR ASSEMBLY OF SIGMA 2 PROG | 890615 B3 | REGISTER | DEDUCTION | 890569 83 |
| | EDURESCATALOG EDURESDATADEF SYSTEMS PROGRAMMING | 89081 8 83 70567 3 8 1 | REGISTER | .SPECIAL DEDUCTION | 890564 83 890571 83 |
| PRO | EDURESSYSTEM FORTCOMP | 705360 B1 | REGISIRAR | 3/3/En | 890645 83 |
| | ESSINGFILE ESSINGLISP 1.5-LANGUAGE FOR LIST | 890471 83 890366 83 | REGISTRATI | ON STATISTICS PACKAGE | 890319 83 |
| PRO | ESSOR (DMSREST)EDMS RESTRUCTURING | 706498 B1 | REGRESSION | ANALYSISMULTIPLE | 890476 B3 |
| | ESSOR (IDP)INTERACTIVE DATABASE ESSOR (OVER 32K)SYMMETRIC LIST | 706466 91 890145 83 | | I ANALYSIS, STEPHISEMULTIPLE I PROGRAMINTERACTIVE STEPHISE | 890477 83 890867 83 |
| PRO | ESSOR (32K)SYMMETRIC LIST | 890144 83 | REGRESSION | INTERACTIVE MULTIPLE LINEAR | 890836 83 |
| PRO | ESSOR EXERCISERMULTI- ESSOR WITH SHELL SORTMAP | 705390 83 890752 83 | | X SERIESUCLA BIOMEDICAL PROG. REFORMATTERRELABL-SOURCE DECK | 890890 83 890874 83 |
| PRO | ESSORCONTROL MESSAGE | 704124 B1 | RELABL-SOL | RCE DECK RELABELER&REFORMATTER | 890674 B3 |
| PROC | ESSOREXPAND ESSORFUNCTION TABLE | 890777 B3 890808 B3 | RELATING RELEASE FI | .FACTOR LES (RELFILES)COBOL | 8904 68 B3 890599 B3 |
| PROC | ESSOR EXERCISERMULTI- ESSOR HITH SHELL SORTMAP ESSORCONTROL MESSAGE ESSOREXPAND ESSORFUNCTION TABLE ESSORMULTIPLE TAPE COPY ESSORPRINT FORMS ESSORQUERY SCHEMA FSSORRRM COPY | 706128 81 | RELFILES). | COBOL RELEASE FILES (| 890599 B3 |
| PROC | ESSORQUERY SCHEMA | 090815 B3 890779 B3 | RELIABILIT | Y PREDICTION CALCULATION Y PREDICTION CREATE/UPDATE | 706455 B3 706454 B3 |
| PROC | ESSORRBM COPY ESSOR-TFMTAPE FILE MANAGE RSIGMA ACCOUNTING SYSTEM SUMMARY | 000,0.00 | RELIABILIT | Y PREDICTION REPORT GENERATOR | 706456 B3 |
| PROC | RSIGMA ACCOUNTING SYSTEM SUMMARY | 706122 83 705689 83 | | E DIAGNOSTIC PROGRAM LOADER CH TERMINAL TEST PROGRAM | 704356 B3 704983 B1 |
| PROC | S INTRFACE UNIT DIAG-SUPISYS UNIT/ | 730009 Bl | REMOTE GUI | DE | 706267 B1 |
| | UREMENT STATUS (APS) SYSAUTOMATED UCT MOMENT / 200-300 VARIABLES | 890895 B3 890452 B3 | REMOVABLE | DISC STORAGE TEST | 890764 B3 705534 B1 |
| | UCT MOMENTCORRELATIONS: | 890451 83 | MEHOTABLE | DISK STORAGE TEST | 706424 B1 |
| | ILE BY SAT AND RANKADMIS20- ILE SHEETADMIS11-APPLICANT | 890691 83 890684 83 | | ERATORRELIABILITY PREDICTION GRAM GENERATOR (RPG)XEROX | 706456 83 706419 81 |
| | AMBLDNAME - S-O-P STUDENT NAME | 890583 83 890146 83 | REPORT REC | ORDCREATE QUARTERLY | 890574 83 |
| | RAMMING CODESIGMA 5/7 MFOR LINEAR RAMMING PROCEDURESDATADEF SYSTEMS | 705673 B1 | | TERGAMMA 3 MATRIX-GENERATOR C\$T34 Language Lab Heekly | 705832 A1 890656 B3 |
| | RAMSBTM DEMO - GAMES RAMSXCORE - EXTRA CORE FOR FORTRAN | 890666 B3 | REPORTS | OCIAL SECURITY QUARTERLY | 890576 B3 |
| | ECT MANAGEMENT SYSTEM (SPMS)SIGMA | 890737 B3 890718 B3 | | ACST2 FINAL GRADE ADMIS17-SHORT HEEKLY | 890647 93 890689 83 |
| | F AND LOCAL TAXPAYROLL QUARTERLY F TESTPAYROLL | 890575 83 890577 83 | | GENERATE PAYROLL TIME | 890573 83 |
| | FGENERAL LEDGER | 890595 B3 | | DGRAMCOBOL BPMFAST F PURGE | 890717 83 890810 83 |
| | ECT DIAGNOSTICMEMORY HED CARD COPY/VERIFY PROGRAMCCOPY- | 704062 B3 890727 B3 | | CP-VFAST SAVE/ DOGRAMSYSTEM SAVE/ | 890809 83 |
| | UE SPECIAL ANALOG INPUT SUBSYSTEM | 704341 B3 | | BUTINE-UTILSTD-ALONE DISC SAVE | 706280 81 704781 81 |
| | EFILE DSE DISCRETE SIMULATOR-GPDSGENERAL | 705782 B1 706130 A1 | | ITO BOOTSYSTEM DISC DUMP/ ING PROCESSOR (DMSREST)EDMS | 890734 B3 706498 B1 |
| PUT, | MT)-UTILS/A FILE CPY AND VER(CARD, | 704782 B1 | | PACKAGE (DARP)DATA | 705669 B3 |
| | TERLY PROOF AND LOCAL TAXPAYROLL TERLY REPORT RECORDCREATE | 890575 83 890574 83 | | PROGRAMTAPE FILE SUBROUTINESDATA | 890796 B3 706233 B3 |
| QUAR | TERLY REPORTSOCIAL SECURITY | 890576 B3 | RETRIEVE (| CSR)CARD STORE/ | 705879 81 |
| | Y SCHEMA PROCESSOR E EXCHANGERBATQXCH - BATCH | 890779 B3 890928 B3 | | G TAPE COPY - VERIFY PROGRAM | 705862 B3 |
| RADI | ATION PCM TEST | 706203 B3 | RMCROTA | TING MEMORY TEST PROGRAM - | 706249 B1 |
| | US OF GYRATIONMOMENTS OF INERTIA & DM DISCFORTRAN | 890869 B3 890759 B3 | | OHN TRANSLATOR (ROMBUST) THE UPDATE PROGRAM - ROMUP | 890143 B3 890826 B3 |
| RAND | OH FILES FOR FORTRAN IVKEYED/ | 890757 B3 | ROMBUST) | ROM BREAKDOHN TRANSLATOR (| 890143 B3 |
| | DM DMIZEDSIMPLE | 705715 B3 890446 B3 | ROMLIB | M:TAPE FILE UPDATE PROGRAM - | 890826 B3 |
| RANK | ADMIS20-PROFILE BY SAT AND | 890691 B3 | ROSTERS | ACST3 CLASS | 890648 83 |
| RBM | D\$T-TESTS AND F- COPY PROCESSOR | 890481 B3 890794 B3 | ROTATING M | EMORY TEST PROGRAM - RMC .Factor | 706249 B1 890469 B3 |
| RBM | COPY PROCESSOR ERROR LOG LISTER MACRO-SYMBOL ASSEMBLER | 706467 83 | ROTATION | .FACTOR ANALYSIS HITH | 890465 B3 |
| RBM | TACKU-STRBUL ASSEMBLER | 705781 83 890812 83 | | ADCHIGH)ADC HIGH LEVEL ADCLOW)ADC LOW LEVEL | 706231 B3 706232 B3 |
| RBM | 10C HANDLER | 706113 B3 | ROUTINES | .ALTRAN RUN-TIME | 890846 B3 |
| RBM | DVERLAY LOADER RAD EDITOR | 705733 B1 705734 B1 | ROUTINES | .FORTRAN IV KEYED FILE 1/0 .SCU ASSEMBLER LIBRARY | 890323 B3 |
| | SORT /ERSION)EXTENDED FORTRAN IV-H (| 890793 83 | | .SPECIAL FORT-SYMBOL INTERFACE FORTRANCHARACTER MANIPULATION | 705896 83 |
| RBM | /ERSION)SL-1 TRANSLATOR (| 705776 B1 706117 A1 | ROUTN-UTIL | MEDIA CONVERSION AND EDITOR | 890657 B3 704784 B1 |
| | VERSION)SYMBOL ASSEMBLER (| 705846 81 890958 83 | | OX REPORT PROGRAM GENERATOR (IAGNOSTIC DEMOFORTRAN IV | 706419 B1 705391 B3 |
| RBM) | EXTENDED FORTRAN IV/IV-H LIB. (| 705738 B1 | RUN-TIME R | OUTINESALTRAN | 890846 B3 |
| | REAL-TIME BATCH MONITOR ()REAL-TIME BATCH MONITOR1 (| 705732 B1 705280 B3 | RUN-TIME T | RACE Diagnostic programPoher fail | 705784 83 730022 81 |
| RBM/ | BPM HANDLER FOR MOCD'S | 706259 BI | SAFE DIAGN | OSTICPOWER FAIL | 706142 B1 |
| | INT PROGRAM - TRANSLTPAPER TAPE | 890756 B3 890333 B3 | | POWER FAIL BCMPOWER FAIL- | 704122 B3 704596 B3 |
| READ | WRITE MAG TAPE PACK FORTIV-SCATTER | 890589 B3 | SAL10)S | TAND-ALONE I/O CONTROL PROGRAM (| 704387 B1 |
| READ | INESS TEST (CART)CHECK OUT AID AND INESSCART-3 CHECK-OUT AID | 705668 83 706205 83 | | LEMETRY COMPILERSSS- NKADMIS20-PROFILE BY | 705655 B3 890691 B3 |
| RECE | IPT FORMADMIS1- | 890678 B3 | SAVE GENER | ATORSTAND-ALONE REGISTER | 704444 81 |
| RECE | IVABLE (DP0911)BOOKSTORE ACCOUNTS IVABLE BILLING-DP0721ACCOUNTS | 890630 B3 890628 B3 | SAVEBPM SAVE-RESTO | /BTM FAST RE ROUTINE-UTILSTD-ALONE DISC | 708296 B1 704781 B1 |
| RECE | VABLE SYSTEM (COVER)ACCOUNTS | 890626 B3 | SAVE/RESTO | RE - CP-VFAST | 890809 83 |
| RECO | MENDED SPARES | 890627 83 706457 83 | SAVE/RESTO | RE PROGRAMSYSTEM M'MESSAGE | 706280 81 705773 83 |
| | RDCREATE QUARTERLY REPORT RDING AND TIMING SYSTEMATP FOR DATA | 890574 B3 705675 B1 | SCARE- CAR | D READER SYMB. STARTBPM SELF AD/HRITE MAG TAPE PACKFORTIV | 890585 B3 890589 B3 |
| RECO | RDSACST7 PERMANENT | 890651 B3 | SCATTERGRA | M HISTOGRAM | 890433 B3 |
| | RDSADMIS27-SELECTIVE COMPRESSED RENCE GENERATORBATCH MONITOR CROSS | 890696 83 890147 83 | SCHEDULE | .AUTO ACST5 CLASS | 890954 83 890650 83 |
| | RENCE PROGRAMFORTRAN CROSS | 890545 B3 | SCHEMA PRO | CESSORQUERY | 890779 83 |
| | | | | | |

| KEY | TITLE | CAT.NO | CL | KEY | TITLE | CAT.NO CL |
|-------------------|---|------------------------------|-----------|------|--|--|
| SCHOOL | COUNSELOR ENVELOPEADMISS-HIGH | 890581 | | | THE PROPERTY OF THE PARTY OF TH | 890752 83 890793 83 |
| SCHOOL | ENROLLMENT ADMISSIONS SYSTEM FOR | 890677 890686 | | SORT | | 890786 83 |
| SCOMPAR | LISTADMIS14-HIGH RE-SOURCE FILE COMPARISON PROGRAM | 890958 | 83 | SORT | T/MERGE FOR BPM/BTH | 704985 81 70800 8 81 |
| SCORE K | EEPER FOR CONTINUING TOURNAMENTS | 890706 890470 | | SORT | | 890674 83 |
| SCORING | BFACTOR BTEST | 890479 | B3 | SOUR | RCE FILE COMPARISON PROGRAMSCOMPARE- | 890956 83 |
| SCU ASS | SEMBLER LIBRARY ROUTINES | 980826 706437 | | SOUR | RCE PROGRAM COMPARER METASYMBOL | 8 90876 8 3 |
| SCU LIN | TERPRETER | 706489 | B3 | SOUR | RCE UPDATE EDITOR - UTILITYS/A COMP/ | 704785 81 704397 81 |
| SCU | META-SYMBOL PROCEDURE DECK FORCOBOL SUBROUTINE BINARY | 706450 890607 | | | RCE-LISTING MAG TAPEUTILITY RESRECOMMENDED | 706457 83 |
| SECURI1 | TY CONTROL PACKAGEPLANT | 706508 | 83 | SPLU | URGE FOR BPM | 890829 83 |
| | TY QUARTERLY REPORTSOCIAL | 890576 890459 | | SPMS | S)SIGHA PROJECT MANAGEMENT SYSTEM (| 890718 83 |
| SELECTI | IONENTITY IVE ALUMNIALUM4 | 890642 | 83 | SQUA | ARES CURVE FITTINGINTERACTIVE LEAST | 890865 83 890434 83 |
| SELECTI | IVE COMPRESSED RECORDSADMIS27- | 8906 98 704779 | | SQUA | ARESAXB LEAST ARES, CONTINB. COEFFCROSS TABS, CHI | 890454 83 |
| SELECTI | IVE ENVELOPES/LABELSADMIS15- | 890687 | 83 | SSS- | -SAS PCM TELEMETRY COMPILER | 705655 93 880832 91 |
| SELECTI | IVE LISTINGSADMIS16- DR IOP TEST PROGRAM | 890688 704788 | | SST) |)LABELED SOFTHARE SUPPORT TAPE (| 880830 81 |
| SELF SC | CARE- CARD READER SYMB. STARTBPM | 890585 | 83 | STAN | ND-ALONE COMMON SOFTHARE PACKAGEBCM/ | 704127 81 70 5677 81 |
| SELF-TE | STMAINTENANCE SUBCONTROLLER EDIT DATA CARDS FOR ILLEG.PUNCHES & | 705723 890458 | | STAN | ND-ALONE ERROR LOG ANALIZER FOR BPM ND-ALONE 1/0 CONTROL PROGRAM (SALIO) | 704367 81 |
| SEQUENC | E PROGRAM - UTILITYCOPY AND | 704398 | Bl | STAN | ND-ALONE I/O HANDLER FOR BOMT ND-ALONE I/O HANDLER FOR BONO | 7041 73 81 7041 63 8 1 |
| | TIAL SUBROUTINECOBOL ADD SIMULATOR1400 | 890604 705261 | | STAN | ND-ALONE 1/0 HANDLER FOR BOPP | 704171 91 |
| SERIES. | UCLA BIOMEDICAL PROG REGULAR & X | 890890 | 83 | | ND-ALONE I/O HANDLER FOR LOLP ND-ALONE I/O HANDLER FOR LOHT | 704165 B1 704166 B1 |
| SEX) | NEW SYSTEM EXERCISER (| 705889 890941 | | STAN | ND-ALONE I/O HANDLER FOR LONG | 704164 81 |
| SHARED | GRAPHICS FACILITYGORDO TIME | 890533 | 83 | STAN | | 7041 67 8 1 7041 66 8 1 |
| SHC) DI | IAGNOSTICSOFTHARE HARDCORE (ADMIS11-APPLICANT PROFILE | 730008 890684 | | STAN | ND-ALONE 1/0 HANDLER FOR SICR | 704169 91 |
| SHELL S | SORTMAP PROCESSOR WITH | 890752 | B3 | STAN | | 704179 81 704853 81 |
| SHORT H | √EEKLY REPORTSADMIS17- .STAND-ALONE I/O HANDLER FOR | 890689 704168 | | | | 704172 91 |
| SIG 5/7 | 7 (STAND-ALONE)CARD LISTER USING | 890554 | 83 | STAN | ND-ALONE LOADER WITH I/O HANDLERS | 704142 3 1 704 780 3 1 |
| SIGNIF | ICANCE TESTBINOMIAL CK (S/A VERS)UNIMPLEMENTED INST. | 890449 704148 | | STAR | ND-ALONE OCP DIAGNOSTIC CONTROL PROG | 70 6 472 B 1 |
| SIM. PO | CKG. BCM VERSUNIMPLEMENTED INST. | 704362 | 81 | STAN | ND-ALONE RAD EDITOR ND-ALONE REGISTER SAVE GENERATOR | 890733 B3 |
| | DISCRETE SIMULATION PACKAGE - RANDOMIZED | 890837 890446 | | STAR | ND-ALONE SELECTIVE DUMP - UTILITY | 704779 81 |
| SIMT | STAND-ALONE I/O HANDLER FOR | 704169 | BI | STAP | ND-ALONE SYMBOL ASSEMBLER | 704160 81 705680 83 |
| SIMULAT | TION PACKAGE - SIMPACDISCRETE TION PACKAGEBPM/3 GASP II | 890837 890560 | | STAP | ND-ALONE SYSTEM EXERCISER (SHAP 3.2) ND-ALONE SYSTEM LOADER | 704162 81 |
| SIMULAT | TION PROGRAMANALOG DIGITAL | 890561 | B3 | STAR | ND-ALONE VOLUME INITIALIZER-VOLIMIT ND-ALONE)CARD LISTER USING SIG 5/7 (| 70 6226 B1 89 0554 B3 |
| SIMULAT | TIONBIRD WHISTLING- TIONINTERACTIVE CONTINUOUS | 890557 890838 | | STAR | NDARDDELETE | 890768 B3 |
| SIMULA | TION-ORIENTED LANGUAGESOL- | 890363 | B3 | STAP | NFORD DMSIO DIRECT TO MEMORY DIAG RTBPM SELF SCARE- CARD READER SYMB. | 705295 83 890585 83 |
| SIMULA | TOR (BCM VER.)DECIMAL INSTRUCTION TOR (BCM VER)BYTE-STRING INSTRUC. | 704364 704365 | | STAT | TFADMISIG-STATISTICS BY | 890690 83 |
| SIMULA | TOR (BCM VER)FLOATING POINT INST. | 704363 | | STAT | TEMENT (DP0318GENERAL LEDGER MONTHLY TEMENTS (DP0222)MONTHLY BUDGET | 890596 83 890593 83 |
| SIMULA' | TOR (BCM)CONVERT INSTRUCTION TOR (S/A VERSFLOATING POINT INST. | 704366 | | STAT | TEMENTS (DP0913)BOOKSTORE | 890631 83 |
| SIMULA | TOR (S/A VERS)DECIMAL INSTRUCTION | 704150 | | STAT | TION PROCEDURAL HANDLERXEROX DISPLAY TISTICAL PACKAGEVULZ-VANDERBILT | 706263 91 890400 83 |
| SIMULA' | TOR (S/A)BYTE-STRING INSTRUCTION TOR (S/A)CONVERT INSTRUCTION | 704151 | | STA | TISTICAL PACKAGE-BMDUCLA BIOMEDICAL | 890850 83 |
| SIMULA | TOR FORMATTED TAPE FILESSORT 1400 | 705888 | | STAT | TISTICS BY STATEADMIS19- TISTICS LISTINGSACST1 NON-ACADEMIC | 090690 93 |
| SIMULA' | TORTIMESHARING TOR1400 SERIES | 705261 | | STA" | TISTICS PACKAGEREGISTRATION | 890319 83 |
| SIMULA | TOR-GPDSGENERAL PURPOSE DISCRETE | 706130 | | STA | TUS (APS) SYSAUTOMATED PROCUREMENT | 090095 B3 |
| SIMULTA SIM519 | ANEOUS LINEAR EQUATIONS | 890873 | | STFI | PHISE REGRESSION PROGRAMINTERACTIVE | 990967 B3 |
| SINGLE | CARDUTILITIES, | 890659 705728 | | STE | PHISEMULTIPLE REGRESSION ANALYSIS. RAGE TESTREMOVABLE DISC | 890477 83 705534 81 |
| | IAGNOSTIC (MS)STAND-ALONE I/O HANDLER FOR | 704170 | B1 | STO | RAGE TESTREMOVABLE DISK | 706424 81 705879 81 |
| SIU DI | AGNOSTIC PROGRAM7930/7931/7935 | 704211 | | STO | RE/RETRIEVE (CSR)CARD | 890714 83 |
| | AGNOSTIC PROGRAMADS-10 ANALOG AGNOSTIC PROGRAM7910/14/15 | 704238 | | STR | FAM FOR CP-VSORT PERFORMANCE JOB | 706495 B1 704385 B1 |
| | AGNOSTIC PROGRAM7922 AGNOSTIC PROGRAM7923/28/29 | 704214 | | STR | ING INSTRUC. SIMULATOR (BCM VER)BYTE- | 704151 81 |
| SIU HA | NDLER (FORTRAN IV-H)7910 | 70589 | 83 | STU | IDENT MASTERACST4 HEAT TRANSFER | 890649 83 |
| | NDLER7929 AND 7935 | 706143 | | STH | DENT NAME PROGAMBLDNAME - S-O-P | 890501 83 |
| SKD) D | 23 HANDLER IAGNOSTICSYSTEM KEYBOARD DISPLAY | 706230 | 8 B1 | SHE | CONTROLLER SELF-TESTMAINTENANCE | 705723 83 |
| SL-1 T | RANSLATOR (BPM/BTM/UTS VERSION) RANSLATOR (RBM VERSION) | 706116 70611 | | SUB | CONTROLLERHIOP HITH MAINTENANCE: | 704061 83 |
| SMUT - | (SIGHA 5/6/7 HULTI TAPE COPY) | 705869 | 83 | SHR | R FOR COBOLTIMER ELAPSED TIME SYSTEM CCSON-LINE COMPUTER CENTER | 890709 83 706436 81 |
| | RANSLATOR ON MEMORY PRINT | 89054° 70577! | | SUB | SYSTEMPURDUE SPECIAL ANALOG INPUT | 704341 83 |
| SNOBOL | 4 VERSION 3.7 | 89085 | 3 B3 | SUF | FIXINSTRUCTION DIAGNOSTIC - | 730001 DI 706134 DI |
| SNOBOL | 4INTERACTIVE | 890673 705848 | | SUF | FIX)CPU DIAGNOSTIC SYSTEM (| 704045 83 |
| SOCIAL | SECURITY QUARTERLY REPORT | 89057 | 8 B3 | SUF | FIX)SIGMA 5 CPU DIAGNOSTIC (| 704174 B3 890653 B3 |
| SOLE: | SIGMA OBJECT LANGUAGE EATER UDENT ONLINE PREREGISTRATION PROG | 89094 89058 | | SUM | MARY MODULE FOR ELLACP-V/CP-R-ERROR | 708010 91 |
| SORT A | IND MERGEXEROX | 70610 | 2 B1 | SUM | MARY PROCESIGMA ACCOUNTING SYSTEM MARYUTS ACCOUNTING | 7056 89 83 8907 87 83 |
| SORT I | NTERFACE ULTIPLE INPUT FILESHULTSORT - | 89073 70588 | | SHP | PER SMAP (102) | 706146 81 |
| SORT P | ERFORMANCE JOB STREAM FOR CP-V | 706499 70588 | | SUP | DILLSYS UNIT/PROCS INTRFACE UNIT DIAG- | 730009 B1 880832 B1 |
| SORT 1 | 400 SIMULATOR FORMATTED TAPE FILES | | | 301 | A SAN THE REPORT OF THE PERSON | |

PROGRAM AVAILABILITY LIST

| KEY | TITLE | | | KEY | TITLE | CAT.NO | CL | |
|---------------|---|------------------|------|-------------|--|--------|-------------|--|
| UEENI Y DEDOG | RTACST34 LANGUAGE LAB RTSADMIS17-SHORT THYBRID EXECUTIVE LIBRARY MULATIONBIRD SSTMANN- ATION OR TESTPARTIAL BITC36T64 CONVERT 36 BIT | 890656 | 83 | XSYMBOL | (REF- | 890795 | | |
| MEEKLY PEPOP | TE ADMISIT-SHORT | 890889 | B3 | YEARLY ACC | OUNTS PAYABLE TOTALS (DP0112) | 158068 | 93 | |
| WEEKLI KEPUN | HYDDID EVECUTIVE I INDARY | 705670 | R3 | 1.5-LANGUAC | E FOR LIST PROCESSING LISP | 890366 | 83 | |
| WEST INCHOUSE | MILL ATTON DION | 890557 | 83 | 1021 SUPE | D CHAP (| 708148 | 81 | |
| MHISILING-SI | CT MANN. | 890431 | 83 | LINE COMMUN | HICATIONS CONTROL PROGUNIVAC | 890743 | 83 | |
| MHIINET U-IE | ATION OF TEST BARTIAL | 000662 | . D3 | 1200 LISTER | | 890953 | 83 | |
| HURD MANIPUL | ATIUN UK TESTPAKTIAL | 000002 | 07 | | SIMULATOR | 705261 | Bi | |
| HORD TO 84 E | MONTHS DAYS SUPPONTINE | 706104 | D3 | 1400 SERIES | TOR FORMATTED TAPE FILES SORT | | | |
| WURKUATS | IURKING DATS SUBRUUTINE - | 706104 | 63 | | RONIC CIRCUIT ANALYSIS PROGRAM | 890667 | | |
| | SUBROUTINE - HORKDAYS | | | 1050 EFECT | TTER LINE PRINTER TEST PROG | 705428 | | |
| HORKSPACE CO | NVERTERIBM-XEROX APL | 890831 706138 | | 196 CHAR FO | RIABLESPRODUCT MOMENT / | 890452 | | |
| WRITE LOCK-D | DIAGNOSTIC PROGRAMMAP AND | | | 2070/2070 | THE POINTED DIAGNOSTIC | 706471 | | |
| WRITE MAG TA | PE PACK FORTIV-SCATTER READ | 890589 | | 2230/24/0 [| INE PRINTER DIAGNOSTIC | 706471 | | |
| | PRINTER OR TYPEHRITER MESSAGE | 890383 | | 2470 LINE ! | MINIER DIAGNOSTICEE30/ | 705680 | 97 | |
| | MA 3 MATRIX-GENERATOR REPORT | 705832 | | 3.2)SIA | ND-ALONE SYSTEM EXERCISER (SHAP | 00000 | - 53 | |
| XBASIC - BTM | | 890805 | | 3.7SNOB | JL4 VERSION | 030063 | 93 | |
| XCDRJE)XE | ROX TO CONTROL DATA RUE (| 890910 | 83 | 3DTIC T/ | AC TOE - | 890373 | 63 | |
| XCORE - EXTR | A CORE FOR FORTRAN PROGRAMS | 890737 | 83 | 300 VARIABI | .ESPRODUCT MOMENT / 200- | 890405 | B2 | |
| XEROX ANS CO | BOL COMPILER | 705888 | Вı | 32K)SYM | HETRIC LIST PROCESSOR (| 890144 | B3 | |
| XEROX APL FI | LE CONVERTERIBM- | 890832 | B3 | 32K)SYM | METRIC LIST PROCESSOR (OVER | 890145 | . 93 | |
| XEROX APL HO | RKSPACE CONVERTERIBM- | 890831 | B3 | 7T/9TP09 | SITION TAPE PROGRAM FOR | 890728 | B3 | |
| XEROX APL | BOL COMPILER ILE CONVERTERIBM- RKSPACE CONVERTERIBM- BLY PROGRAM (AP) | 706434 | Bı | 7160 PUNCH | ND-ALONE SYSTEM EXERCISER (SMAP) L4 VERSION AC TOE - LESPRODUCT MOMENT / 200- METRIC LIST PROCESSOR (METRIC LIST PROCESSOR (METRIC LIST PROCESSOR (METRIC LIST PROCESSOR (METRIC LIST PROGRAM FORCARD DUPLICATOR - USES PLOTTING PACKAGE NO PACKAGE PLOTTING PACKAGE SING PACKAGE DISPLAY DIAGNOSTIC DISPLAY DIAGNOSTIC DISTIC PROGRAM ANDLER (FORTRAN IV-H) SIU DIAGNOSTIC PROGRAM DIAGNOSTIC DIAGNOSTIC PROGRAM EXSIU SIU DIAGNOSTIC PROGRAM ERSIU SIU DIAGNOSTIC PROGRAM BISS SIU HANDLER DIGITAL I/O UNITHANDLER FOR | 890556 | 83 | |
| XFROX ASSEME | BLY PROGRAM (AP) | 706459 | 81 | 7530/7531 (| PLOTTING PACKAGE | 705657 | 83 | |
| YEROX DATA N | ANAGEMENT SYSTEM - EXTENDED | 706461 | A1 | 7531 PLOTT | ING PACKAGE7530/ | 705657 | 83 | |
| XEROX DISPLA | Y STATION PROCEDURAL HANDLER | 706263 | B1 | 7580 GRAPH | IC DISPLAY DIAGNOSTIC | 705387 | 81 | |
| YEROX MESSAG | SE SHITCH SYS COC HANDLER FOR | 705726 | 83 | 7580DIA | SNOSTIC FOR MDC MODIFIED | 705774 | B 1 | |
| YEROX REPORT | PROGRAM GENERATOR (RPG) | 706419 | B1 | 7902 EDSC (| DIAGNOSTIC | 706173 | 83 | |
| YERRY SORT | ND MERGE | 706102 | B1 | 7907 DIAGNO | OSTIC PROGRAM | 708469 | 83 | |
| VEROX TO COM | TROI DATA RUE (XCDRUE) | 890910 | B3 | 7910 SIU H | ANDLER (FORTRAN IV-H) | 705891 | 83 | |
| VEROX 10 CO | NEA | 706433 | 81 | 7910/14/15 | SIU DIAGNOSTIC PROGRAM | 704236 | 81 | |
| VCDOV 33-011 | T I IDDADY I MANCE | 730011 | Ai | 7915/ADS 1 | DIAGNOSTIC | 706145 | 81 | |
| AERUA SE-BII | CAL /ADI | 890813 | 83 | 7915/ADS-1 | D ATCHANDLER FOR | 705864 | 83 | |
| XERUX/CUASI | CAL/AFL | 890770 | B3 | 7922 SIU D | IAGNOSTIC PROGRAM | 704214 | 81 | |
| XOSDEBE | VDI COMBILER | 990770 | 87 | 7023 HANDI | FR SIII | 705854 | 83 | |
| XPL (GURDU) | - APL COMPILER | 990799 | 83 | 7027/20/20 | SILL DIAGNOSTIC PROGRAM | 705392 | BI | |
| XPL COMPILER | RXPL (GURDU) - | 000001 | 03 | 7020 AND 7 | OTE CILL HANDLED | 706143 | RI | |
| XPL | | 090001 | 03 | 7070/7071 | DIGITAL 1/0 UNITHANDLER FOR | 705861 | RZ | |
| XPL/S COMPIL | .ER | 890963 | 63 | 7930/7931 | 7935 SIU DIAGNOSTIC PROGRAM | 704211 | 21 | |
| XPL/SSYST | ren | 890959 | 83 | 79307 79317 | AL I/O UNITHANDLER FOR 7930/ | 705861 | | |
| XPLSFMT | | 890935 | 83 | 7931 01011 | AL I/U UNIIHANDLER FOR 79307 | 704211 | | |
| XPLSREF | T PROGRAM GENERATOR (RPG) AND MERGE AND MERGE ASY T LIBRARY LOADER CAL/APL XPL COMPILER RXPL (GORDO) - LER FEM PROGRAMNASA/BALL MODEL LERNASA/BALL MODEL | 890934 | B3 | 7931/7935 | SIU DIAGNOSTIC PROGRAM7930/ | 704211 | | |
| XPS-95 DEMO | PROGRAMNASA/BALL MODEL | 705843 | B3 | 7935 51U D | IAGNOSTIC PROGRAM7930/7931/ | 708143 | | |
| XPS-95 HANDL | ERNASA/BALL MODEL | 705818 | 83 | | ANDLER7929 AND | 705860 | | |
| XREF | | 890751 | B3 | | ENCY CONTROL UNIT HANDLER FOR | | | |
| XREF-XSYMBOL | | 890795 | 83 | 9TPOSIT | ION TAPE PROGRAM FOR 7T/ | 890728 | 83 | |

705783

SIGMA 5/6/7

MANAGE AND TERMINAL ORIENTED MANAGE

AUTHOR: XEROX ABSTRACT:

SSTRACT:
XDS SIGMA 5/7 MANAGE IS A GENERALIZED FILE MANAGEMENT SYSTEM EXPRESSLY DESIGNED TO AID CORPORATE
DECISION MAKING. IT PROVIDES A SIMPLIFIED METHOD FOR USING A COMPUTER TO ESTABLISH AND MAINTAIN VITAL
COMPANY RECORDS ON RADS OR MAGNETIC TAPES, SELECTIVELY RETRIEVE DATA FROM THOSE RECORDS, AND GENERATE
PRINTED REPORTS OR FILES FOR ADDITIONAL COMPUTER PROCESSING. TERMINAL ORIENTED MANAGE RETRIEVES AND
REPORTS MANAGE FORMATTED DATA BASES VIA A KEYBOARD TERMINAL UNDER BTM OR UTS. THE USER IS QUERIED AS TO
THE RETRIEVAL AND REPORT SPECIFICATIONS AND THE REQUEST IS ENTERED INTO THE BACKGROUND BATCH STREAM.
MAMMENTS.

THE RETRIEVAL AND REPORT SPECIFICATIONS AND THE REQUEST IS ENTERED INTO THE BACKGROUND BATCH STREAM. DIGHENTS:

THIS SYSTEM INCLUDES THE FOLLOHING PROGRAMS: DICTIONARY GENERATOR, FILE CREATION AND MAINTENANCE, RETRIEVAL PROCESSOR AND REPORT GENERATOR. COMPUTER CONFIGURATION:SIGMA 5/8/7 BTM/UTS SYSTEM HITH 19K HORDS OF MEMORY AVAILABLE TO MANAGE, ALL MANAGE PROCESSORS MAKE USE OF THE STANDARD SIGMA 5/8/7 SORT. DICTIONARY GENERATOR CREATES AND MAINTAINS MANAGE FILE DICTIONARIES. DATA DEFINING THE FORMAT AND CONTENT OF DATA BASE FILES IS VALIDATED AND SAVED ON A RAD FOR USE BY OTHER MANAGE PROCESSORS. A CATALOG OF DICTIONARY DEFINITIONS MAY BE GENERATED HHICH SHOWS THE CURRENT STATUS OF ONE OR MORE FILE DICTIONARIES. FILE CREATION AND MAINTENANCE CREATES AND MAINTAINS DATA FILES DEFINED BY MANAGE DICTIONARIES. FILES MAY CONTAIN EITHER FIXED OR VARIABLE LENGTH RECORDS. THE FORMAT OF THE NEW DATA TO BE ENTERED (THE TRANSACTION FILE) DOES NOT HAVE TO CONFORM TO THE FORMAT OF THE MASTER FILE DATA. FOR INSTANCE, EBCDIC DATA CAN BE AUTOMATICALLY CONVERTED TO BINARY OR PACKED DECIMAL VALUES BEFORE UPDATING INSTANCE, EBCDIC DATA CAN BE AUTOMATICALLY CONVERTED TO BINARY OR PACKED DECIMAL VALUES BEFORE UPDATING INSTANCE, SHILLARLY, CONVERSIONS FROM BINARY TO PACKED DECIMAL, PACKED TO EBCDIC, ETC. ARE POSSIBLE. RETRIEVAL PROCESSOR SELECTIVELY RETRIEVES DATA FROM ANY FILE DEFINED BY A MANAGE DICTIONARY. UP TO 127 REQUESTS MAY BE PROCESSED SIMULTANEOUSLY DURING 1 PASS THROUGH THE DATA BASE. A RETRIEVED DATA FILE IS CREATED FOR INPUT TO THE MANAGE REPORT GENERATOR. ONE ADDITIONAL FILE MAY ALSO BE CREATED FOR USE BY OTHER NON-MANAGE PROCESSORS. THE RETRIEVAL PROGRAM PROCESSORS. THE RETRIEVAL PROGRAM DYNAMICALLY COMPILES AND EXECUTES THE LOGIC SPECIFIED IN THE BATCH OF REQUISES BEING PROCESSED. REPORT GENERATOR AUTOMATICALLY FORMATS AND PRINTS ONE OF PAPER FORM REQUIRED AND ARE LISTED CONSECUTIVELY HITH A MINIMUM OF OPERATOR INTERVENTION. HERE TYPE OF PAPER FORM REQUIRED AND ARE LISTED CONSECUTIVELY HITH A MINIMUM OF OPERATOR INT IDENTIFICATION.

SIGMA 5-9

FUNCTIONAL MATHEMATICAL PROG SYS (FMPS)

AUTHOR: XEROX ABSTRACT:

FMPS IS A MATHEMATICAL TECHNIQUE DESIGNED TO HELP MANAGEMENT ANALYZE THE POTENTIALITIES OF ALTERNATE
BUSINESS ACTIVITIES AND TO CHOOSE THOSE THAT PERMIT THE BEST USE OF RESOURCES IN THE PURSUIT OF A DESIGNABLE OBJECTIVE. IT INCLUDES THE FOLLOWING FEATURES: A SIMPLE, YET FLEXIBLE CONTROL LANGUAGE, FLEXIBLE
1/O, COMBINATION FORTRAN/METASYMBOL FOR IMPROVED EFFICIENCY, ALONG WITH OTHER POHERFUL FEATURES EXPECTED
THIRD GENERATION LINEAR PROGRAMMING SYSTEM. THESE FEATURES INCLUDE PARAMETRIC PROCEDURES AND SEPARABLE PROGRAMMING. COMMENTS:

FIRENTS:
FHPS REQUIRES THE FOLLOHING HINIHUM HARDHARE CONFIGURATION: 1. SIGMA 5/7 HITH FLOATING POINT HARDMARE,
2. AT LEAST 40K HORDS OF CORE MEMORY, 3. A 9 TRACK HAG TAPE DRIVE, 4. A CARD READER, 5. A LINE PRINTER,
5. A MINIHUM OF 740 GRANULES OF USER RAD. THE FOLLOHING SOFTHARE IS ALSO REQUIRED: 1. BPH MITH AT LEAST
FOUR PAGES FOR THE ABS AREA ON THE RAD 2. OVERLAY LOADER (OLAY IN PARTICULAR) HITH THE BREF OPTION OR
EQUIVALENT FOR BPM VERSION PRIOR TO DOD 3. THE FORTRAN IV COMPILER AND RUNTIME LIBRARY.
NOTE: THE EXECUTABLE LOAD MODULE OF FMPS REQUIRES APPROXIMATELY 260 GRANULES OF USER RAD.

705832

SIGMA 5-9

GAMMA 3 MATRIX-GENERATOR REPORT WRITER

AUTHOR: XEROX ABSTRACT:

ISTRACT:

GAMMA 3 IS A POMERFUL MATRIX GENERATOR AND REPORT MRITER PROGRAM TO BE USED IN CONJUNCTION MITH XDS FMPS

GAMMA 3 PROVIDES THE CAPABILITY TO CONSTRUCT A LINEAR PROGRAMMING MATRIX (IN THE FORM REQUIRED BY FMPS)

FROM PROBLEM ORIENTED INPUT STATEMENTS AND THE PREPARATION OF MANAGEMENT ORIENTED REPORTS ON THE SOLU
TION TO AN FMPS PROBLEM HITH FULL TITLES. IT IS PARTICULARLY USEFUL MHEN THE PROBLEM YARIABLES CHANGE

FREQUENTLY, REQUIRING THE GENERATION OF A NEW FMPS INPUT MATRIX AND LP SOLUTION FOR EACH CHANGE, GAMMA 3

ALLOMS FOR AUTOMATIC CHANGES TO MATRIX DATA AND REPORT DATA AS A CONSEQUENCE OF ALTERED INPUT DATA.

IMPETED. COMMENTS:

OMMENTS:

GAMMA 3 REQUIRES THE FOLLOHING MINIMUM HARDHARE CONFIGURATION: 1. SIGMA 5/7 HITH FLOATING POINT MARDHARE

2. AT LEAST 48K MORDS OF CORE MEMORY, 3. THO 9 TRACK MAG TAPE DRIVES, 4. A CARD READER.5. A LINE PRINTER

6. A MINIMUM OF 740 GRANULES OF USER RAD. THE FOLLOHING SOFTHARE IS ALSO REQUIRED: 1. BPM HITH AT LEAST

4 PAGES FOR THE ABS AREA ON THE RAD 2. OVERLAY LOADER (OLAY IN PARTICULAR) HITH THE BREF OPTION OR EQUI
VALENT FOR BPM PRIOR TO DOO 3. FORTRAN IV COMPILER AND RUN TIME LIBRARY 4. SIGMA 9/7 SORT-MERGE.

NOTE: THE EXECUTABLE LOAD MODULES OF GAMMA 3 REQUIRE APPROXIMATELY 200 GRANULES OF USER RAD.

705865

SIGMA 5/6/7

CIRC-DC

AUTHOR: XEROX **ABSTRACT:**

ISTRACT:

CIRC-DC PROVIDES NOMINAL, SENSITIVITY, AND AUTOMATIC HORST CASE ANALYSES FOR ELECTRONIC CIRCUITS. THE

PROGRAM OPERATES IN BATCH OR CONVERSATIONAL MODE UNDER BPM/BTM OR UTS. THE SALIENT FEATURES OF CIRC-DC

INCUDE COMPLETE USER-PROGRAM INTERACTION, STORED MODELS FOR ALL CIRCUIT ELEMENTS, NON-LINEAR MODELS FOR

TRANSISTORS AND DIODES, AND DYNAMIC MEMORY ALLOCATION TO TAKE ADVANTAGE OF VARIOUS MEMORY SIZES.

THE PROGRAM REQUIRES THE BPM/BTM OR UTS MONITOR SYSTEMS WITH AT LEAST 16K OF USER MEMORY EXCLUSIVE OF THE MONITOR. THERE ARE THREE CONTROL CARD DECKS SUPPLIED WITH ELEMENT 705865-74. DECK #1 WILL LOAD CIRC-DC FROM THE BINARY TAPE (705865-26). DECK #2 WILL COMPILE AND LOAD CIRC-DC FROM THE SOURCE TAPE (705865-36). DECK #3 CONTAINS SEVERAL TEST CASES. FILE 7EQ ON THE SOURCE TAPE IS THE SPECIAL EQUATIONS SUBROUTINE. FOR SPECIAL EQUATIONS USAGE, THIS FILE SHOULD BE STORED ON THE DISK OR PUNCHED ON CARDS FROM THE RELEASE TAPE.

SIGMA 5-9 705900

DMS - DATA MANAGEMENT SYSTEM (BPM)

AUTHOR: XEROX

ABSTRACT:

DMS 1S A GENERALIZED DATA MANAGEMENT SYSTEM FOR SIGMA COMPUTERS. IT IS A FLEXIBLE ECONOMIC AND EFFICIENT APPROACH TO THE STORAGE MAINTENANCE AND RETRIEVAL OF INFORMATION. DMS ALLOHS COMMON DATA FROM SEPARATE OPERATING AREAS OF A BUSINESS TO BE INTEGRATED IN A MANNER THAT BEST SUITS THE COMPANY'S TOTAL PROCESSING REQUIREMENTS - MINIMIZING REDUNDANT DATA STORAGE, REDUCING TRADITIONAL SORTING AND MERGING REQUIREMENTS, AND SIMPLIFYING FILE MAINTENANCE PROBLEMS.

OMMENTS:

DMS IS COMPOSED OF A FILE DEFINITION PROCESSOR, THREE UTILITY PROCESSORS AND A RUNTIME LIBRARY. THE FILE

DMS IS COMPOSED OF A FILE DEFINITION PROCESSOR, THREE UTILITY PROCESSORS AND A RUNTIME LIBRARY. THE FILE

DEFINITION PROCESSOR INCLUDES A USER LANGUAGE HHICH PROVIDES THE CAPABILITY TO STRUCTURE THE CONTENTS OF

A CENTRALIZED DATABASE IN A MANNER THAT REFLECTS THE DATA RELATIONSHIPS THAT ACTUALLY EXIST HITHIN A

BUSINESS. THE THREE UTILITY PROCESSORS ALLOW THE USER TO SAVE A DATABASE ON MAGNETIC TAPE AND TO RESTORE

THE DATABASE FROM THE BEACKUP DUMP TAPE OR, IN THE EVENT OF HARDWARE OR SOFTMARE FAILURE, FROM AN AUDIT

JOURNAL CREATED BY THE RUNTIME LIBRARY ROUTINES. THE UTILITY PROCESSORS ALSO PROVIDE THE CAPABILITY OF

PRINTING ALL OR SELECTED PARTS OF THE DATABASE OR THE DUMP TAPE. THE DMS RUNTIME LIBRARY IS DESIGNED TO

OPERATE HITHIN A HOST PROCEDURAL LANGUAGE SUCH AS COBOL. METASYMBOL OR FORTRAN. IN THIS ENVIRONMENT THE

HOST LANGUAGE PERFORMS THE DATA VALIDATION, MANIPULATION AND REPORTING FUNCTIONS AND CALLS UPON DMS TO

MANAGE THE TASKS OF STORAGE, RETRIEVAL AND UPDATING OF CENTRALIZED DATABASE. COMMENTS:

706112 SIGMA 5/8/7 CIRC-AC

AUTHOR: XEROX

AUTHOR: XEROX
ABSTRACT:
CIRC-AC PROVIDES FREQUENCY DOMAIN ANALYSIS OF ELECTRONIC CIRCUITS. THE PROGRAM HANDLES BOTH PASSIVE AND
ACTIVE COMPONENTS AND INCLUDES STORED MODELS FOR TRANSISTORS AND CONTROLLED VOLTAGE AND CURRENT SOURCES.
FREQUENCY RANGES ARE SCANNED AUTOMATICALLY, AND OPEN-LOOP ANALYSES AND PARAMETER ITERATIONS CAN BE
AUTOMATICALLY PERFORMED. A FLEXIBLE LINE PRINTER PLOTTING ROUTINE PROVIDES TABULAR AS HELL AS PLOTTED
OUTPUT. THE CIRC PACKAGE FEATURES HIGHLY CONVERSATIONAL USER-PROGRAM INTERACTION, SPARSE MATRIX
NUMERICAL TECHNIQUES, AND DYNAHIC MEMORY ALLOCATION TO ADJUST FOR LARGER CIRCUITS OR USER MEMORY
ENVIRONMENT.

CONTROL CARD DECKS ARE SUPPLIED HITH ELEMENT 708112-74. DECK #1 HILL LOAD CIRC-AC FROM THE BINARY TAPE CONTROL CARD DECKS ARE SUPPLIED HITH ELEMENT 708112-74. DECK #1 HILL LOAD CIRC-AC FROM THE BINARY TAPE (708112-28). DECK #2 HILL COMPILE AND LOAD CIRC-AC FROM THE SOURCE TAPE (708112-38). DECK #3 CONTAINS A CIRC-AC TEST CASE. SPECIAL EQUATIONS USAGE REQUIRES THE SOURCE FOR SUBROUTINE EQ, WHICH IS CONTAINED IN FILE 7EQ-P ON THE SOURCE TAPE.

SIGMA 5/6/7 706117

SL-1 TRANSLATOR (RBM VERSION)

AUTHOR: XEROX ABSTRACT:

STRACT:
THIS PROGRAM IS THE RBM VERSION OF THE SL-1 REAL-TIME/HYBRID CONTINUOUS SYSTEM SIMULATION LANGUAGE
TRANSLATOR. IT READS SL-1 SOURCE PROGRAMS AND CONVERTS THEM TO FORTRAN PROGRAMS FOR COMPILATION UNDER
THE XDS EXTENDED FORTRAN IV OR FORTRAN 1V-M COMPILER. THE PROGRAM ALSO INCLUDES A RUNTIME LIBRARY MMICH
MUST BE SEARCHED, ALONG WITH THE EXTENDED FORTRAN LIBRARY, TO SATISFY EXTERNAL REFERENCES GENERATED BY
THE TRANSLATOR. SL-1 IS EQUALLY SUITABLE FOR ALL-DIGITAL SIMULATION IN THE BATCH PROCESSING HODE AND FOR
REALTIME OR HYBRID SIMULATION.

COMMENTS:

SL-1 RUNS ON A SIGMA 5/8/7 COMPUTER HITH THE REAL-TIME BATCH MONITOR (RBM-COO) AND THE EXTENDED FORTRAM
IV-H COMPILER. MAXIMUM CORE REQUIREMENT FOR THE TRANSLATOR IS 13K HORDS EXCLUSIVE OF THE MONITOR AND
REGARDLESS OF THE SIZE OF THE SOURCE PROGRAM. IMPLEMENTATION OF THE REAL-TIME/HYBRID FEATURES OF SL-1
REQUIRES SEVERAL ROUTINES CUSTOM-HRITTEN FOR THE USER'S PARTICULAR HARDHARE CONFIGURATION, INCLUDING A
VERSION OF THE HYBRID EXECUTIVE LIBRARY (HEL). THESE ROUTINES ARE NOT INCLUDED IN THE COST OF THE SL-1
TRANSLATOR AND RUNTIME LIBRARY. THE SOURCE IS INCLUDED ON THE SL-1(BPM/UTS) RELEASE TAPE, CN708118-28. COMMENTS:

706118

SIGMA 5-9

SL-1 TRANSLATOR (BPH/BTH/UTS VERSION)

AUTHOR: XEROX ABSTRACT:

STRACT:
THIS PROGRAM IS THE BPM/BTM/UTS VERSION OF THE SL-1 REALTIME/HYBRID CONTINUOUS SYSTEM SIMULATION
LANGUAGE TRANSLATOR. IT READS SL-1 SOURCE PROGRAMS AND CONVERTS THEM TO FORTRAN PROGRAMS FOR COMPILATION
UNDER THE XDS EXTENDED FORTRAN IV OR FORTRAN IV-H COMPILER. THE PROGRAM ALSO INCLUDES A RUNTIME LIBRARY
TO SATISFY EXTERNAL REFERENCES GENERATED BY THE TRANSLATOR. SL-1 CAN BE RUN IN THE BATCH HODE OR ON-LINE
UNDER BTM OR UTS. IT IS EQUALLY SUITABLE FOR NON-REAL TIME ALL-DIGITAL SIMULATION AND FOR REAL-TIME OR
HYBRID SIMULATION.

HYBRID SIMULATION.

COMMENTS:
SL-1 RUNS ON A SIGMA 5-9 COMPUTER HITH BPM/BTM(VERSION FOO) OR UTS(VERSION AOO) AND THE EXTENDED FORTRAM IV(VERSION BOO) OR FORTRAM IV-M COMPILER. MAXIMUM CORE REQUIREMENT FOR THE TRANSLATOR IS 15K MORDS EXCLUSIVE OF THE HONITOR AND REGARDLESS OF THE SIZE OF THE SOURCE PROGRAM. IMPLEMENTATION OF THE REALTIME/HYBRID FEATURES OF SL-1 REQUIRES SEVERAL ROUTINES CUSTOM-HRITTEN FOR THE USER'S PARTICULAR HARDHARE CONFIGURATION. THESE ROUTINES ARE NOT INCUDED IN THE COST OF THE SL-1 TRANSLATOR AND RUNTIME LIBRARY. THE SOURCE CODE FOR SL-1 IS INCLUDED ON ELEMENT 708118-28 (MHICH ALSO INCLUDES THE RBM SOURCE).

706130 SIGMA 5-9 GENERAL PURPOSE DISCRETE SIMULATOR-GPDS

AUTHOR: XEROX ABSTRACT:

STRACT:

OPDS IS A TRANSACTION-ORIENTED DISCRETE SIMULATOR LANGUAGE HHICH USES COMMANDS SELECTED TO ENABLE THE
USER TO BUILD MODELS DIRECTLY FROM LOGICAL FLOW CHARTS OF THE SYSTEM HHICM HE IS MODELING. GPDS-COO IS
FULLY COMPATIBLE HITH IBM GPSS/360. ENHANCEMENTS INCLUDE THE ABILITY TO STORE BLOCKS, PARAMETERS, AND
MATRICES ON A RAD AND AUTOMATICALLY SHAP THEM IN AS NEEDED, THIS MINIMIZING CORE REQUIREMENTS. GPDS
ALLOWS THE USERS TO REFERENCE ALL ENTITIES INDIRECTLY AND HAS DIRECT INTERFACES FOR COBOL AND FORTRAN
SUBROUTINES. GPDS CAN BE SET TO RUN UNTIL A PRE-SELECTED ENTITY REACHES A STEADY-STATE CONDITION. THE
COO RELEASE INCLUDES NEW INTERACTIVE FEATURES HHICH ALLOW THE USER TO INTERRUPT A SIMULATION, EXAMINE
ANY STATISTIC, HODIFY THE MODEL IF NECESSARY, AND THEN CONTINUE.

708130 CONTINUED ON FOLLOHING PAGE

706130

GENERAL PURPOSE DISCRETE SIMULATOR-GPDS

(CONTINUED)

COMMENTS UMMENTS:
THIS VERSION IS COMPATIBLE HITH GPDS-800 (708130-800). GPDS-C00 HILL RUN AS A BATCH OR TIME-SHARED
PROCESSOR UNDER EITHER BPM/BTM OR UTS, ALTHOUGH AS NOTED IN THE GPDS REFERENCE MANUAL, THERE ARE CERTAIN
LIMITATIONS UNDER BTM. GPDS REQUIRES A USER PARTITION OF 9.5K PLUS SUFFICIENT DYNAMIC CORE TO CONTAIN
THE MODEL. THIS CAN RANGE FROM 6.5K FOR A SMALL MODEL TO 50K FOR A LARGE SIMULATION.

706253 SIGMA 5/6/7 AUTHOR: XEROX CIRC-TRANSIENT

AUTHOR: XENDA
ABSTRACT:
CIRC-TRANSIENT PROVIDES GENERAL PURPOSE TIME-DOMAIN ANALYSIS OF ELECTRONIC CIRCUITS. THE PROGRAM RUNS IN
THE BATCH OR CONVERSATIONAL MODES UNDER BTM AND UTS, AND IN THE BATCH MODE UNDER BPM. IT INCLUDES MANY
ADVANCED COMPUTER-AIDED DESIGN FEATURES SUCH AS SPARSE MATRIX AND IMPLICIT INTEGRATION NUMERICAL
TECHNIQUES, STORED NON-LINEAR MODELS FOR ALL CIRCUIT ELEMENTS, AND HIGHLY CONVERSATIONAL USER-PROGRAM
INTERACTION.

DMMENTS:
CIRC-TRANSIENT REQUIRES THE BPM, BTM, OR UTS MONITOR WITH AT LEAST 18K WORDS OF USER MEMORY AVAILABLE.
LARGER CIRCUITS HILL REQUIRE ADDITIONAL DYNAMIC MEMORY. THERE ARE THREE CONTROL CARD DECKS SUPPLIED WITH
ELEMENT 706253-74. DECK #1 HILL LOAD CIRCTE FROM THE BINARY TAPE (706253-28). DECK #2 HILL COMPILE AND
LOAD CIRCTE FROM THE SOURCE TAPE (706253-36). DECK #3 CONTAINS SEVERAL TEST CASES. SPECIAL EQUATIONS
USAGE REQUIRES THE SOURCE FOR SUBROUTINE EQ, WHICH IS CONTAINED IN FILE 7EQP ON THE SOURCE TAPE.

706461

SI SIGMA 6-9/550/560 AUTHOR: XEROX

XEROX DATA MANAGEMENT SYSTEM - EXTENDED

AUTHOR: XEROX
ABSTRACT:

EXTENDED DMS IS A GENERALIZED DATA MANAGEMENT SYSTEM FOR SIGMA COMPUTERS. IT PROVIDES FOR THE
INTEGRATION OF DATA FROM SEPARATE AREAS OF A BUSINESS INTO A COMMON DATABASE. A DATABASE MAY BE
SUBDIVIDED INTO AS MANY AS 64 SEGMENTS THUS POTENTIALLY REDUCING THE COMPUTER RESOURCES REQUIRED. AS
ONLY THOSE SEGMENTS THAT ARE TO BE ACCESSED AT ANY ONE TIME NEED BE AVAILABLE TO DMS. PROGRAMS THAT
ACCESS THE DATABASE MAY BE HRITTEN IN COBOL, FORTRAN OR METASYMBOL AND NEED ONLY CONTAIN A DESCRIPTION
OF THOSE PORTIONS OF THE DATABASE THAT THEY HILL ACCESS.

COMMENTS:

THIS PROGRAM HILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS COMMERCIAL PROCESSOR. BASE LANGUAGE
MAIN PROGRAM IS HRITTEN IN SYMBOL.
EXTENDED DMS CONSISTS OF A FILE DEFINITION PROCESSOR, A RUN-TIME LIBRARY, AND FOUR UTILITY PROCESSORS.
ALL MAY BE EXECUTED IN THE BATCH MODE OR FROM A TERMINAL UNDER THE UTS OPERATING SYSTEM. THE DMS
RUN-TIME LIBRARY MAY BE STRUCTURED AS A SHARED LIBRARY THUS REDUCING THE CORE REQUIREMENTS FOR
APPLICATION PROGRAMS.

APPLICATION PROGRAMS.

704124

SIGMA 5/7

CONTROL MESSAGE PROCESSOR

AUTHOR: XEROX ABSTRACT:

THIS PROGRAM ANALYSES ALL THE INPUT AND OUTPUT ASSIGNMENTS AND OTHER SPECIAL PROCESSOR INDICATORS FOR THE STAND-ALONE SYMBOL ASSEMBLER.

THIS PROGRAM IS PART OF CATALOG NUMBER 704180. SEE THE ABOVE MENTIONED CATALOG NUMBERS FOR CONFIGURATION REQUIREMENTS. THE CORE RESIDENCY IS APPROXIMATELY 734 DECIMAL HORDS.

704127

SIGMA 5/7

BCM/STAND-ALONE COMMON SOFTHARE PACKAGE

AUTHOR: XEROX

ABSTRACT:

THIS PACKAGE CONTAINS THE COMMON AND INTERDEPENDENT RELOCATABLE BINARY MODULES THAT ARE REQUIRED TO GENERATE THE ABSOLUTE BINARY FOR THE BASIC CONTROL MONITOR(BCM), 704144; THE STANDALONE LOADER HITH I/O HANDLER, 704142; THE STAND-ALONE ABS DUMP LOADER HITH I/O HANDLERS, 704155; AND THE STAND-ALONE I/O PACKAGE. THE BCM AND STAND-ALONE UNIMPLEMENTED INSTRUCTION SIMULATION PACKAGES ARE ALSO INCLUDED.

THIS CATALOG NUMBER INCLUDES THE RELOCATABLE BINARY(ON PAPER TAPE AND CARDS) FOR CATALOG NUMBERS 704131, 704133, 704141, 704149-704154, 704363-704374, AND 704961-704654, NOTE: THE PROGRAM
DESCRIPTION(704127-11) DESCRIBES THE PROCEDURE FOR GENERATING THE ABS VERSIONS OF THE BCM AND LOADERS
MENTIONED ABOVE. THE STAND-ALONE ABS DUMP LOADER HITH 1/0 HANDLERS(704155-83 OR -84), THE STAND ALONE
LOADER HITH 1/0 HANDLERS(704142-83 OR -84), THE ABSOLUTE BOOTSTRAP LOADER (704145-23 OR -24), AND THE
STAND-ALONE SYMBOL ASSEMBLER (704160-83 OR -84) ARE USED IN THIS PROCEDURE.

704133

SIGMA 5/7

MONITOR FOR BCH

AUTHOR: XEROX

ABSTRACT:

THIS IS THE MONITOR PART OF THE BASIC CONTROL MONITOR.

THIS PROGRAM IS PART OF CATALOG NUMBER 704144. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127. THE CORE RESIDENCY IS APPROXIMATELY 3160 DECIMAL LOCATIONS.

704142

SIGMA 5/7

STAND-ALONE LOADER HITH 1/0 HANDLERS

AUTHOR: XEROX

COMMENTS:

THIS PROGRAM INCLUDES CATALOG NOS. 704141, 704367-704374, AND 704851-704854 (AVAILABLE ONLY AS PART OF THIS PROGRAM INCLUDES CATALOG NOS. 704142). THE SELF-LOADING BINARY VERSIONS ARE THE ABSOLUTE BINARY CARDS AND ABSOLUTE BINARY PAPER TAPE (MODEL NOS. 704141-84 AND 704141-83). THE MINIMUM CONFIGURATION REQUIRED IS: 4K SIGMA, CARD READER OR PAPER TAPE READER, AND TYPEHRITER. THE CORE RESIDENCY IS APPROXIMATELY 3870 DECIMAL LOCATIONS. SEE TMISSIGMA 7 STAND ALONE SYSTEM OPERATIONS MANUAL, 901053. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127. SEE THE

704144

SIGHA 5/7

BCH OPERATING SYSTEM

AUTHOR: XEROX ABSTRACT:

THE BASIC CONTROL MONITOR (BCM) IS A SOFTHARE MECHANISM FOR CONTROLLED MULTIPLE-USE OF THE SIGMA COMPUTER ON A MINIMAL BASIS. IN PARTICULAR, IT ENABLES A SIGMA MACHINE TO SERVICE REAL-TIME FOREGROUND PRODUCTION ASK (E.G., COMPILATION OR ASSEMBLY) BY CENTRALIZING ALL I/O, INTERRUPT AND TRAP FUNCTIONS. THE BCM INTERFACES ARE COMPATIBLE HITH THE STANDARD XDS BASIC FORTRAN IV-H. THE BASIC ASSEMBLER, AND OTHER UTILITY PROGRAMS (LOADER). IN ADDITION, THE COMMON FUNCTIONAL ELEMENTS OF THE BCM ARE COMPATIBLE HITH THE BATCH PROCESSING MONITOR, IN TERMS OF COMMON INTERFACES. THIS VERSION OF BCM INCLUDES THE I/O HANDLER'S FOR CARD I/O, PAPER TAPE I/O, TYPEHRITER, LINE PRINTER AND MAGNETIC TAPE.

SEE THE SIGMA 7 BCM REFERENCE MANUAL, 900953. THIS COVER NUMBER INCLUDES THE FOLLOWING ROUTINES WHICH ARE LISTED IN THE PROGRAM DESCRIPTION OF 704357:INITIALIZATION, MANDLERS, BCD CONVERSION, AND SIMULATION ROUTINES.

704145

SIGMA 5/7

ABSOLUTE BOOTSTRAP LOADER

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM LOADS ITSELF IN BY STANDARD FILL FROM THE CARD READER OR PAPER TAPE READER AND AUTOMATICALLY LOADS THE FOLLOHING ABSOLUTE BINARY DECK OR ABSOLUTE PAPER TAPE.. COMMENTS:

MMDEL NO. 784145-84 OF THIS PROGRAM IS THE EXECUTABLE DECK USED FOR BOOTSTRAPPING ABSOLUTE BINARY DECKS.

IT CONSISTS OF 3 CARDS. WHEN THE RELOCATABLE BINARY DECK (704145-24) S EXECUTED IT PRODUCES THE ABSOLUTE
BINARY DECK (704145-84). THE ABOVE PROCEDURE IS ALSO APPLICABLE FOR PAPER TAPE. CONFIGURATION REQUIRED:

ANY SIGMA COMPUTER WITH A CARD READER OR PAPER TAPE READER. THE CORE RESIDENCY IS APPROXIMATELY 81 DECIMAL LOCATIONS.

704146

510MA 5/7

BASIC BCH ABS DUMP LOADER

AUTHOR: XEROX ABSTRACT:

THIS PROGRAM LOADS RELOCATABLE BINARY PROGRAMS AND PUNCHES THEM OUT ON CARDS OR PAPER TAPE. THE LOADER MUST BE EXECUTED UNDER CONTROL OF THE BASIC CONTROL MONITOR. COMMENTS:

HTTERIS: THE MINIMUM CONFIGURATION REQUIRED IS: BK SIGMA, CARD READER/ PUNCH OR PAPER TAPE I/O, AND TYPEHRITER. The core residency is approximately 2234 decimal locations. To obtain an absolute version, load the

704146 CONTINUED ON FOLLOHING PAGE

BASIC BCM ABS DUMP LOADER

RELOCATABLE BINARY AND DUMP IT USING THE SIGMA F.S. ABS DUMP LOADER HITH I/O HANDLERS, CATALOG NO. 704155. SEE THE SIGMA 7 BCM REFERENCE MANUAL,900953, FOR THE OPERATING PROCEDURES. NOTE: FOR SOURCE, SEE PAL COMMENTS UNDER 704357. 704146

UNIMPLEMENTED INST. SIM. PCK (S/A VERS) SIGMA 5/7 704148 AUTHOR: XEROX

ABSTRACT: THIS PACKAGE CONTAINS ROUTINES HHICH SIMULATE OPTIONAL SIGMA INSTRUCTIONS (FLOATING POINT, DECIMAL, SYTE STRING, AND CONVERT INSTRUCTIONS) HHICH ARE NOT IMPLEMENTED IN THE HARDHARE. THE PACKAGE ALSO INCLUDES A TRAP HANDLER HHICH PROVIDES AUTOMATIC LINKAGE TO THE SIMULATION ROUTINES

THIS PROGRAM COVERS THE FOLLOHING CATALOG NUMBERS: 704149, 704150, 704151, 704152, 704153.

CONFIGURATION REQUIRED: ANY SIGMA 5/7 COMPUTER. THE TOTAL CORE RESIDENCY IS APPROXIMATELY 1350 DECIMAL HORDS. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127. FOR SOURCE, SEE PAL COMMENTS UNDER 704382.

FLOATING POINT INST. SIMULATOR (S/A VERS 9 SIGMA 5/7 AUTHOR: XEROX 704149

ABSTRACT: THIS ROUTINE SIMULATES THE FOLLOHING INSTRUCTIONS: FAS. FAL. FSS. FSL. FMS. FML. FDS AND FDL.

COMMENTS: THIS PROGRAM IS PART OF 704148. ITS DESCRIPTION IS INCLUDED IN 704148-11. THE APPROXIMATE CORE RESIDENCY IS 452 DECIMAL HORDS. CONFIGURATION REQUIRED IS: ANY SIGMA COMPUTER. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127. NOTE: FOR SOURCE, SEE PAL COMMENTS UNDER 704382.

DECIMAL INSTRUCTION SIMULATOR (S/A VERS) SIGMA 5/7 704150 AUTHOR: XEROX

ABSTRACT: THIS ROUTINE SIMULATES THE FOLLOHING INSTRUCTIONS:DL.DST,DA, DS,DM,DD,DSA,DC,PACK,UMPK AND EBS.

THIS PROGRAM IS PART OF 704148. ITS DESCRIPTION IS INCLUDED IN 704148-11. THE APPROXIMATE CORE RESIDENCY IS 572 DECIMAL HORDS. CONFIGURATION REQUIRED IS: ANY SIGMA COMPUTER. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127. NOTE: FOR SOURCE, SEE PAL COMMENTS UNDER 704382.

BYTE-STRING INSTRUCTION SIMULATOR (S/A) 704151 SIGMA 5 AUTHOR: XEROX

ABSTRACT

THIS ROUTINE SIMULATES THE FOLLOWING INSTRUCTIONS: MBS, CBS, TBS AND TTBS.

COMMENTS: THIS PROGRAM IS PART OF 704148. ITS DESCRIPTION IS INCLUDED IN 704148-11. THE APPROXIMATE CORE RESIDENCY IS 130 Hords. The configuration required is: any sigma computer. Note: the relocatable binary is Available under catalog number 704127. Note: for source, see pal comments under 764382.

CONVERT INSTRUCTION SIMULATOR (S/A) SIGMA 5 704152

AUTHOR: XEROX

ABSTRACT: THIS ROUTINE SIMULATES THE INSTRUCTIONS CVA AND CVS

COMMENTS: THIS PROGRAM IS PART OF 704148. ITS DESCRIPTION IS INCLUDED IN 704148-11. THE APPROXIMATE CORE RESIDENCY IS 72 DECIMAL HORDS. THE CONFIGURATION REQUIRED IS: ANY SIGMA COMPUTER. NOTE: THE RELOCATABLE SIMARY IS AVAILABLE UNDER CATALOG NUMBER 784127. NOTE: FOR SOURCE, SEE PAL COMMENTS UNDER 704382.

UNIMPL. INST. TRAP HANDLER (S/A VERS) 704153 SIGMA 5/7

AUTHOR: XEROX ABSTRACT:

THIS ROUTINE RESPONDS TO TRAPS INITIATED BY ATTEMPTS TO EXECUTE UNIMPLEMENTED INSTRUCTIONS. IT THEM CALLS ON THE APPROPRIATE INSTRUCTION SIMULATOR ROUTINES.

THIS PROGRAM IS PART OF 704148. ITS DESCRIPTION IS INCLUDED IN 704148-11. THE APPROXIMATE CORE RESIDENCY IS 110 DECIMAL HORDS. THE CONFIGURATION REQUIRED IS: ANY SIGMA COMPUTER. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127. COMMENTS:

S/A ABS DUMP LOADER HITH I/O HANDLERS SIGMA 5/7 704155

AUTHOR: XEROX

THIS PROGRAM LOADS RELOCATABLE BINARY PROGRAMS AND PUNCHES THEM OUT ON CARDS OF PAPER TAPE.

OMMENTS:
THIS PROGRAM INCLUDES CATALOG NUMBERS 704154, 704367-704374, AND 704851-704854. THE MINIMUM
CONFIGURATION REQUIRED IS: 4K SIGMA, CARD I/O OR PAPER TAPE I/O, AND TYPEWRITER. THE CORE RESIDENCY 18
APPROXIMATELY 3918 DECIMAL LOCATIONS. SEE THE SIGMA 7 STAND ALONE SYSTEM OPERATIONS MANUAL, 901053.
NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 784127.

704157 SIGMA 5/7 S/A GENERAL DEBUG SUBROUTINE

AUTHOR: XEROX

ABSTRACT:

DEBUG IS A RELOCATABLE SUBROUTINE HHICH ALLOWS A PROGRAMMER TO DEFINE A DEBUGGING ENVIRONMENT FOR PROGRAM CHECKOUT HITHOUT HAVING TO BE PRESENT DURING THE RUNNING OF THE PROGRAM. DEBUG STATEMENTS MAY BE ENTERED THRU THE KEYBOARD (TYPEWRITER)OR THE CARD READER. COMMENTS:

THE APPROXIMATE CORE RESIDENCY IS 3684 DECIMAL LOCATIONS. THE CONFIGURATION REQUIRED IS: ANY SIGMA COMPUTER.

70415R

SIGMA 5/8/7

SYMBOL ASSEMBLER FOR BCH

AUTHOR: XEROX

ABSTRACT:
THIS IS THE BCM VERSION OF THE ONE-PASS ASSEMBLER FOR THE SIGMA 5/6/7. IT TRANSLATES SYMBOLIC SOURCE STATEMENTS INTO RELOCATABLE OBJECT MODULES.

THE MINIMUM CONFIGURATION IS THAT NEEDED FOR RUNNING BCM. CORE-SIZE IS APPROXIMATELY 3800 (DECIMAL)

704159 SIGMA 5/6/7 SYMBOL ASSEMBLER FOR BPM/BTM

AUTHOR: XEROX

ABSTRACT:

THESE ARE THE BPM AND BTM VERSIONS OF THE ONE-PASS ASSEMBLER FOR THE SIGMA 5/8/7. THEY TRANSLATE SYMBOLIC SOURCE STATEMENTS INTO RELOCATABLE OBJECT MODULES. COMMENTS:

FOR BPM SYMBOL, THE MINIMUM CONFIGURATION IS THAT REQUIRED FOR BPM AND THE CORE-SIZE IS APPROXIMATELY 3800 (DECIMAL) HORDS. FOR BTM SYMBOL, THE MINIMUM CONFIGURATION IS THAT REQUIRED FOR BTM AND THE CORE-SIZE IS APPROXIMATELY 4100 (DECIMAL) HORDS.

704160 510MA 5/7 AUTHOR: XEROX

STAND-ALONE SYMBOL ASSEMBLER

ABSTRACT:

THIS PROGRAM IS THE STAND-ALONE VERSION OF THE ONE PASS ASSEMBLER. IT READS SYMBOLIC SOURCE LANGUAGE, PROGRAMS AND CONVERTS THEM TO MACHINE LANGUAGE (OBJECT) PROGRAMS. ITS BINARY OUTPUT MAY BE LOADED BY ANY OF THE ONE PASS RELOCATABLE LOADERS.

COMMENTS:

THIS PROGRAM INCLUDES CATALOG NUMBERS 704162,704124,704163, 704164,704165,704166,704167,704168,704169, 704170, 704171, 704172, AND 704173. SEE THE SIGMA SYMBOL REFERENCE MANUAL, 901790, AND THE SIGMA 7 STAND-ALONE SYSTEMS OPERATIONS MANUAL, 901053. THE CORE RESIDENCY IS APPROXIMATELY 3159 DECIMAL HORDS PLUS THE SELECTED I/O MANDLERS. THE REMAINING AVAILABLE MEMORY IS USED AS SCRATCH STORAGE. MODEL NO.704160-84 (704160-83) INCLUDES THE ABSOLUTE BINARY OF 704162 AND THE RELOCATABLE BINARY OF THE REMAINING CATALOG NOS. LISTED ABOVE. THE MINUMUM CONFIGURATION REQUIRED IS: 4K SIGMA, CARD I/O OR PAPER TAPE I/O, AND TYPEHRITER.

704162

SIGMA 5/7

STAND-ALONE SYSTEM LOADER

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM IS USED TO LOAD THE SIGMA FREE-STANDING (ONE-PASS) SYMBOL ASSEMBLER. IT SELECTIVELY LOADS THE 1/0 MANDLERS THAT ARE NEEDED. COMMENTS:

THIS PROGRAM IS PART OF CATALOG NUMBER 704160. SEE THE PREVIOUSLY MENTIONED CATALOG NUMBERS FOR CONFIGURATION REQUIREMENTS AND MANUAL REFERENCES. THE CORE RESIDENCY IS APPROXIMATELY 496 DECIMAL LOCATIONS.

704163

SIGMA 5/7

STAND-ALONE 1/0 HANDLER FOR BOND

AUTHOR: XEROX ABSTRACT:

THIS PROGRAM HANDLES THE BINARY OUTPUT FOR THE FREE STANDING ONE PASS ASSEMBLER WHEN BO IS ASSIGNED TO NO.

COMMENTS THIS PROGRAM IS PART OF CATALOG NUMBER 704180. SEE THE THE PREVIOUSLY MENTIONED CATALOG NUMBERS FOR CONFIGURATION REQUIREMENTS AND MANUAL REFERENCES. THE CORE RESIDENCY IS APPROXIMATELY 1 DECIMAL HORD.

704164

SIGMA 5/7

SIGNA 5/7

STAND-ALONE I/O HANDLER FOR LONG

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM HANDLER THE LISTING OUTPUT FOR THE FREE STANDING ONE PASS SYMBOL ASSEMBLER WHEN LO IS ASSIGNED TO NO. COMMENTS:

THIS PROGRAM IS PART OF CATALOG NUMBER 704160. SEE THE THE PREVIOUSLY MENTIONED CATALOG NUMBERS FOR CONFIGURATION EQUIREMENTS AND MANUAL REFERENCES. THE CORE RESIDENCY IS APPROXIMATELY 1 DECIMAL MORD.

704165

STAND-ALONE 1/0 HANDLER FOR LOLP

AUTHOR: XEROX ABSTRACT:

THIS PROGRAM HANDLES THE LISTING OUTPUT FOR THE FREE STANDING ONE PASS SYMBOL ASSEMBLER WHEN LO 18

704165 CONTINUED ON FOLLOHING PAGE

STAND-ALONE I/O HANDLER FOR LOLP

(CONTINUED)

704165 ASSIGNED TO LP(LINE PRINTER).

COMMENTS:
THIS PROGRAM IS PART OF CATALOG NUMBER 704180. SEE THE THE PREVIOUSLY MENTIONED CATALOG NUMBERS FOR CONFIGURATION REQUIREMENTS AND MANUAL REFERENCES. THE CORE RESIDENCY IS APPROXIMATELY 40 DECIMAL MORDS.

SE SIGMA 5/7 704166

STAND-ALONE 1/0 HANDLER FOR LOHT

THIS PROGRAM HANDLES THE LISTING OUTPUT FOR THE FREE STANDING ONE PASS SYMBOL ASSEMBLER WHEN LO IS ASSIGNED TO HT (MAGNETIC TAPE).

COMMENTS:

THIS PROGRAM IS PART OF CATALOG NUMBER 704180. SEE THE THE PREVIOUSLY MENTIONED CATAL**og numbers for** configuration requirements and manual references. The core residency is approximately 82 decimal mords.

704167

SIGMA 5/7

STAND-ALONE I/O HANDLER FOR LOTY

AUTHOR: XEROX

ABSTRACT:
THIS PROGRAM HANDLES THE LISTING OUTPUT FOR THE FREE STANDING ONE PASS SYMBOL ASSEMBLER WHEN LG IS

ASSIGNED TO TY (TYPEHRITER).

COMMENTS:

THIS PROGRAM IS PART OF CATALOG NUMBER 704180. SEE THE THE PREVIOUSLY MENTIONED CATA**log numbers for** configuration requirements and manual references. The core residency is approximately **37 decimal mords.**

704168

SIGMA 5/7

STAND-ALONE 1/0 HANDLER FOR SICR

AUTHOR: XEROX

ABSTRACT:
THIS PROGRAM HANDLES THE SYMBOLIC INPUT FOR THE FREE STANDING (ONE PASS) SYMBOL ASSEMBLER WHEN SI IS
ASSIGNED TO CR (CARD READER).

COMMENTS:

THIS PROGRAM IS PART OF CATALOG NUMBER 704180. SEE THE THE PREVIOUSLY MENTIONED CATAL**og Numbers for** configuration requirements and manual references. The core residency is approximately 44 **decimal mords**.

704169

SIGMA 5/7

STAND-ALONE 1/0 HANDLER FOR SIHT

AUTHOR: XEROX

ABSTRACT:
THIS PROGRAM MANDLES THE SYMBOLIC INPUT FOR THE FREE STANDING ONE PASS SYMBOL ASSEMBLER WHEN \$1 18
ASSIGNED TO MT (MAGNETIC TAPE).

COMMENTS:

THIS PROGRAM IS PART OF CATALOG NUMBER 704180. SEE THE THE PREVIOUSLY MENTIONED CATALOG NUMBERS FOR CONFIGURATION REQUIREMENTS AND MANUAL REFERENCES. THE CORE RESIDENCY IS APPROXIMATELY 73 DECIMAL MORDS.

704170

SIGHA 5/7

STAND-ALONE 1/0 HANDLER FOR SIPR

AUTHOR: XEROX

ABSTRACT:
THIS PROGRAM HANDLES THE SYMBOLIC INPUT FOR THE FREE STANDING ONE PASS SYMBOL ASSEMBLER WHEN SI 18

ASSIGNED TO PR (PAPER TAPE READER).

COMMENTS:

THIS PROGRAM IS PART OF CATALOG NUMBER 704180. SEE THE THE PREVIOUSLY MENTIONED CATALOG NUMBERS FOR CONFIGURATION REQUIREMENTS AND MANUAL REFERENCES. THE CORE RESIDENCY IS APPROXIMATELY 80 DECIMAL MOROS.

704171

SIGMA 5/7

STAND-ALONE I/O HANDLER FOR BOPP

AUTHOR: XEROX

ABSTRACT:
THIS PROGRAM HANDLES THE BINARY OUTPUT FOR THE FREE STANDING ONE PASS SYMBOL ASSEMBLER WHEN SO IS
ASSIGNED TO PP (PAPER TAPE PUNCH).

COMMENTS:

THIS PROGRAM IS PART OF CATALOG NUMBER 704160. SEE THE THE PREVIOUSLY MENTIONED CATALOG NUMBERS FOR CONFIGURATION REQUIREMENTS AND MANUAL REFERENCES. THE CORE RESIDENCY IS APPROXIMATELY 42 DECIMAL MOROS.

704172

SIGHA 5/7

STAND-ALONE I/O HANDLER FOR BOCP

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM HANDLES THE BINARY OUTPUT FOR THE FREE STANDING ONE PASS SYMBOL ASSEMBLER WHEN BO 18 ASSIGNED TO THE CP (CARD PUNCH)

THIS PROGRAM IS PART OF CATALOG NUMBER 704180. SEE THE THE PREVIOUSLY MENTIONED CATAL**og numbers for** configuration requirements and manual references. The core residency is approximately 108 Decimal Mords.

704173

STAND-ALONE 1/0 HANDLER FOR BOMT

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM MANDLES THE BINARY OUTPUT FOR THE FREE STANDING ONE PASS SYMBOL ASSEMBLER WHEN 80 18 ASSIGNED TO MT (MAGNETIC TAPE).

704173 CONTINUED ON FOLLOWING PAGE

STAND-ALONE I/O HANDLER FOR BOMT

(CONTINUED)

COMMENTS: THIS PROGRAM IS PART OF CATALOG NUMBER 704180. SEE THE THE PREVIOUSLY MENTIONED CATALOG NUMBERS FOR CONFIGURATION REQUIREMENTS AND MANUAL REFERENCES. THE CORE RESIDENCY IS APPROXIMATELY BB DECIMAL WORDS.

704357 SIGMA 5/7 BASIC SOFTHARE MAGNETIC TAPES

AUTHOR: XEROX

ABSTRACT:
THIS COVER NUMBER HAS BEEN DESIGNED TO CONVENIENTLY DISTRIBUTE PROGRAM SOURCE AND RELOCATABLE BINARY
DECKS ON MAGNETIC TAPES HITH ALL RELATED SOFTHARE (EXCEPT FORTRAN IV-H + LIBRARIES) FOR: STAND-ALONE
SYSTEMS BCH (BASIC CONTROL MONITOR) RBH-1 (REAL-TIME BATCH MONITOR)

THIS CATALOG NO. COVERS CATALOG NOS: 704145, 704127, 704180, 704144, AND 705280.

704362 SIGMA 5/7 UNIMPLEMENTED INST. SIM. PCKG. BCH VERS.

AUTHOR: XEROX

ABSTRACT:

THIS PACKAGE CONTAINS ROUTINES WHICH SIMULATE OPTIONAL SIGNA INSTRUCTIONS (FLOATING POINT, DECIMAL, BYTE STRING, AND CONVERT INSTRUCTIONS) WHICH ARE NOT IMPLEMENTED IN THE HARDWARE. COMMENTS

THIS PROGRAM COVERS THE SIMULATION ROUTINES LISTED IN THE PROGRAM DESCRIPTION OF 704357. CONFIGURATION REQUIRED: ANY SIGMA 5/7 COMPUTER; THE TOTAL CORE RESIDENCY IS APPROXIMATELY 1228 DECIMAL HORDS. (NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127. ALSO TO OBTAIN SOURCE FOR THE STAND ALONE VERSIONS OF THE FOUR INSTRUCTION SIMULATORS, ASSEMBLY PARAMETERS MUST BE CHANGED AS DESCRIBED IN THE PROGRAM DESCRIPTION OF 704357.

704363 SIGMA 5/7 FLOATING POINT INST. SIMULATOR (RCM VER)

AUTHOR: XEROX ABSTRACT:

THIS ROUTINE SIMULATES THE FOLLOHING INSTRUCTIONS: FAS, FAL, FSS, FSL, FMS, FML, FDS, AND FDL.

COMMENTS:

INTERIS: THIS PROGRAM IS PART OF 704362. ITS DESCRIPTION IS INCLUDED IN 704362-11. THE APPROXIMATE CORE RESIDENCY IS 452 DECIMAL WORDS. CONFIGURATION REQUIRED IS: ANY SIGMA COMPUTER. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127.

704364

SIGMA 5/7

DECIMAL INSTRUCTION SIMULATOR (BCM VER.)

AUTHOR: XEROX

ABSTRACT:

THIS ROUTINE SIMULATES THE FOLLOHING INSTRUCTIONS: DL. DST, DA, DS, DM, DD, DSA, DC, PACK, UNPK AND EBS.

THIS PROGRAM IS PART OF 704362. ITS DESCRIPTION IS INCLUDED IN 704362-11. THE APPROXIMATE CORE RESIDENCY IS 572 DECIMAL HORDS. CONFIGURATION REQUIRED IS: ANY SIGMA COMPUTER. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127

704365 SIGMA 5 BYTE-STRING INSTRUC. SIMULATOR (BCM VER)

AUTHOR: XEROX ABSTRACT:

THIS ROUTINE SIMULATES THE FOLLOWING INSTRUCTIONS: MBS, CBS, TBS AND TTBS.

THIS PROGRAM IS PART OF 704362. ITS DESCRIPTION IS INCLUDED IN 704362-11. THE APPROXIMATE CORE RESIDENCY IS 130 DECIMAL HORDS. THE CONFIGURATION REQUIRED IS: ANY SIGMA COMPUTER, NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127.

704366

SIGMA 5

CONVERT INSTRUCTION SIMULATOR (BCH)

AUTHOR: XEROX

ABSTRACT:

THIS ROUTINE SIMULATES THE INSTRUCTIONS CVA AND CVS.

COMMENTS:

THIS PROGRAM IS PART OF 704362. ITS DESCRIPTION IS INCLUDED IN 704362-11. THE APPROXIMATE CORE RESIDENCY IS 072 DECIMAL HORDS. THE CONFIGURATION REQUIRED IS: ANY SIGMA COMPUTER. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127.

704367

SIGHA 5/7 AUTHOR: XEROX

STAND-ALONE I/O CONTROL PROGRAM (SALIO)

ABSTRACT:

THIS PROGRAM CONTROLS ALL ASPECTS OF THE OPERATION OF THE 1/0 HANDLERS IN A STAND-ALONE CONFIGURATION. THE FUNCTIONS AVAILABLE ARE: OPEN; CLOSE; READ; HRITE; CHECK 1/0 COMPLETE; VERTICAL FORMAT CONTROL (VFC); MODE (BCD OR BIN); DIRECT (RECORD FORMATTING); PRINT; TYPE; REHIND H.T.; HRITE END OF FILE; POSITION FILE; AND POSITION RECORD. DEVICES MAY BE ASSIGNED TO FUNCTIONAL ROLES AS DESIRED. UNSOLICITED KEYIN VIA THE INTERRUPT BUTTON MAY BE USED AS IN THE BASIC CONTROL MONITOR.

THIS PROGRAM IS PART OF CATALOG NUMBERS 704142 AND 704155. SEE THESE CATALOG NUMBERS FOR CONFIGURATION REQUIREMENTS AND MANUAL REFERENCES. THE CORE RESIDENCY IS APPROXIMATELY 1126 DECIMAL LOCATIONS. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127.

SIGMA 5/7 704375 AUTHOR: XEROX

MAGNETIC TAPE EDITOR - UTILITY

ABSTRACT:

THIS PROGRAM PROVIDES A MEANS WHEREBY SYMBOLIC SOURCE PROGRAMS ON MAGNETIC TAPE MAY BE EASILY MODIFIED AND MAINTAINED. IT IS DESIGNED TO OPERATE UNDER CONTROL OF THE XDS SIGMA MONITOR. THEREFORE, OTHER MEDIA AND DEVICES MAY BE ASSIGNED AND USED WHERE APPLICABLE.

COMMENTS:
THE PROGRAM IS ORIENTED TOWARD A COMPUTER SYSTEM CONSISTING OF A SIGMA 5/7 WITH SK MEMORY, TYPEWRITER,
CARD READER, LINE PRINTER AND THO MAGNETIC TAPE UNITS, PROGRAM SIZE IS APPROXIMATELY 1109 DECIMAL MORDS.

704396 SIGMA 5/7 COPY AND SEQUENCE PROGRAM - UTILITY

AUTHOR: XEROX ABSTRACT:

STRACT:
THIS PROGRAM HILL COPY VARIABLE LENGTH RECORDS (EITHER BINARY OR EBCDIC). IT HILL READ FROM ANY SI
DEVICE AND HRITE ON ANY PO DEVICE USING BASIC CONTROL MONITOR I/O. AN IDENTIFICATION NUMBER CAN BE
INSERTED INTO COLUMNS 73-75 OF THE SOURCE IMAGE AND COLUMNS 76-80 HILL BE SEQUENCED IN INCREMENTS OF
TEN. EITHER DIRECT OR FORMATTED INFORMATION CAN BE COPIED.

COMPUTER: CONFIGURATION REQUIRED: ANY SIGMA 5/7 COMPUTER. THIS PROGRAM REQUIRES APPROXIMATELY 528 DECIMAL LOCATIONS.

SIGMA 5/7 704397

UTILITY SOURCE-LISTING HAG TAPE

AUTHOR: XEROX

ABSTRACT:
THIS CATALOG NUMBER HAS ESTABLISHED IN ORDER TO CONVENIENTLY DISTRIBUTE PROGRAM SOURCE DECKS AND LISTINGS ON A HINIHUM NUMBER OF MAGNETIC TAPES.

THIS CATALOG NUMBER INCLUDES THE SOURCE AND LISTINGS FOR CATALOG NUMBERS 704375,704396,784390,784422.
704442,704444, 04778 THRU 704785, 704855 AND 704448.

SIGMA 5/7 704398 AUTHOR: XEROX

TAPE LIST PROGRAM - UTILITY

ABSTRACT:

THIS PROGRAM HILL LIST ANY LO TAPE OR PRINT ANY MULTI-FILED SOURCE TAPE. IT USES MONITOR 1/0 PROCEDURES AND REQUESTS NUMBER OF FILES TO BE LISTED AND TYPE OF MAG TAPE FROM THE OPERATOR'S COMSOLE.

COMPUTER CONFIGURATION REQUIRED: ANY SIGMA 5/7 COMPUTER WITH A LINE PRINTER. THIS PROGRAM REQUIRES APPROXIMATELY 196 DECIMAL LOCATIONS.

SIGMA 5/7 AUTHOR: XEROX

PAPER TAPE COPY & VERIFY PROGRAM-UTILITY

ABSTRACT:

ISTRACT:
THIS PROGRAM COPIES AND VERIFIES BINARY RECORDS IN EITHER THE DIRECT OR FORMATTED MODE USING BASIC
CONTROL MONITOR 1/0. IT HILL READ FROM ANY HISI DEVICE AND WRITE ON HIPO OR HIBO. THE PROGRAM WILL
TERMINATE ON EITHER ONE OR THO EOD'S. A REQUEST FOR MORE FILES TO COPY IS MADE AFTER TERMINATION AND IF NO MORE ARE DESIRED, CONTROL IS RETURNED TO THE MONITOR.

COMPUTER CONFIGURATION REQUIREMENTS ARE: ANY SIGMA 5/7 COMPUTER HITH PAPER TAPE READER AND PUNCH. (ON HAG TAPE UNIT IS REQUIRED IN ORDER TO USE THE VERIFY OPTION.) THE PROGRAM REQUIRES APPROXIMATELY 886 DECIMAL LOCATIONS.

704428

META-SYMBOL ASSEMBLER (COVER)

AUTHOR: XEROX ARSTRACT:

STRAUT:
META-SYMBOL IS A THO-PASS META-ASSEMBLER WHICH OPERATES AS A BACKGROUND PROCESSOR UNDER THE BATCH
MONITOR OR AS A SHARED PROCESSOR UNDER THE UNIVERSAL TIME SHARING MONITOR. IT ACCEPTS PROGRAMS IN
SYMBOLIC, COMPRESSED, OR COMPRESSED WITH SYMBOLIC CHANGES, AND CONVERTS THEM TO MACHINE LANGUAGE
(OBJECT) AND/OR COMPRESSED OUTPUT, WITH AN OPTIONAL PROGRAM LISTING.

MMENTS:
COMPUTER CONFIGURATION IS DICTATED BY THE OPERATING SYSTEM UNDER MMICH META-SYMBOL IS TO OPERATE.
APPLICABLE PUBLICATIONS ARE THE BATCH PROCESSING MONITOR REFERENCE MANUAL (900954), THE UNIVERSAL TIME—
SHARING MONITOR REFERENCE MANUAL (900907), AND THE META-SYMBOL REFERENCE MANUAL (900952), META- SYMBOL
IS DISTRIBUTED ON A SINGLE TAPE CONTAINING BOTH COMPRESSED AND RELOCATABLE BINARY ELEMENTS.

704442

SIGMA 5/7

SIGMA 5-9

CARD COPY AND VERIFY PROGRAM - UTILITY

AUTHOR: XEROX ABSTRACT:

THIS PROGRAM COPIES BINARY CARD IMAGES ONTO MAGNETIC TAPE, PUNCHES MULTIPLE COPIES FROM MAGNETIC TAPE. AND VERIFIES THE PUNCHED CARDS AGAINST THE MAG TAPE. REQUESTS TO PERFORM THESE OPTIONS CAN SE MADE IN ANY ORDER. STANDARD MONITOR 1/0 PROCEDURES ARE USED. ALL OF THE THREE OPTIONS TERMINATE ON THO SUCCESSIVE EOD'S.

COMPUTER CONFIGURATION REQUIRED: ANY SIGNA 5/7 COMPUTER WITH CARD READER, CARD PUNCH AND ONE MAGNETIC TAPE UNIT. THIS PROGRAM REQUIRES APPROXIMATELY 247 DECIMAL LOCATIONS.

SIGMA 5/7 AUTHOR: XEROX

STAND-ALONE REGISTER SAVE GENERATOR

ABSTRACT:

THIS PROGRAM PROVIDES A MEANS FOR SAVING THE GENERAL REGISTERS DURING AN INITIAL LOAD PROCEDURE FROM CARDS. HHEN EXECUTED, THIS PROGRAM PUNCHES AN ABSOLUTE CARD TO BE USED AS THE FIRST CARD OF THE LOAD PROCEDURE. THE EFFECT OF THE CARD HHEN LOADED, IS TO SAVE THE GENERAL REGISTERS IN HEXADECIMAL LOCATIONS 60 THROUGH 6F, AND BRINGS IN THE NEXT CARD FOR EXECUTION. THE LOAD COMMENTS:

PROGRAM SIZE IS APPROXIMATELY 39 DECIMAL LOCATIONS. IT HILL EXECUTE ON ANY SIGMA 5/7 HITH CARD READER AND PUNCH.

SIGMA 5/6/7 704768

BPH USER PROCEDURES - SYSTEM BPM

AUTHOR: XEROX

ABSTRACT:
THESE PROCEDURES ENABLE THE USER TO REQUEST CERTAIN MONITOR FUNCTIONS THROUGH META-SYMBOL. FUNCTIONCE AREAS SUCH AS MEMORY MANAGEMENT, LOADING, INPUT/OUTPUT, FORGROUND CONTROL, AND DEBUGGING. **FUNCTIONS** COMMENTS:

THIS PROGRAM IS USED BY CATALOG NO. 704428. SEE THIS CATALOG NO. FOR CONFIGURATI**on requirements and** Related manuals. Also see sigma 5/7 BPM reference manual, 900954.

704778 SIGMA 5/7 MEMORY DUMP SUBROUTINE - UTILITY

AUTHOR: XEROX

AUTHOR: XERUX
ABSTRACT:
THIS MEMORY DUMP SUBROUTINE HAS FOUR ENTRY POINTS, FOR DISPLAYING AREAS OF MEMORY, OR USER-SUPPLIED
HESSAGES ON PRINTER OR TELETYPE. THE ENTRY POINTS ARE: U:DCP - PRINTER DUMP (LL DEVICE), U:DCTTELETYPE DUMP (OC DEVICE), U:PRIMSG - PRINT MESSAGE (LL DEVICE), U:TYPMSG - TYPE MESSAGE (OC DEVICE) ON
ENTRY, FOR DUMPS, REGISTER 6 IS START ADDRESS, AND REGISTER 7 IS END ADDRESS. FOR MESSAGES, REGISTER 6
CONTAINS ADDRESS OF A MESSAGE STRING IN SYMBOL TEXTC FORMAT. THE GENERAL REGISTERS ARE SAVED AND COMMENTS:

THE SUBROUTINE USES APPROXIMATELY 270 DECIMAL LOCATIONS. IT USES STAND-ALONE 1/0, OR MONITOR PRINT AND TYPE FUNCTIONS, AND HILL THUS OPERATE ON ANY SIGMA 5/7 WHICH HILL ACCOMODATE THESE SYSTEMS.

704779 SIGMA 5/7 STAND-ALONE SELECTIVE DUMP - UTILITY

AUTHOR: XEROX

ABSTRACT:
THIS PROGRAM IS A SELF-CONTAINED SELECTIVE DUMP PROGRAM FOR DISPLAYING THE CONTENTS OF MEMORY ON THE
PRINTER OR TELETYPE THE OUTPUT DEVICE AND DUMP LIMITS ARE OBTAINED FROM TELETYPE COMMANDS AT EXECUTION TIME.

THE PROGRAM REQUIRES APPROXIMATELY 350 DECIMAL LOCATIONS, AND CONTAINS ITS ONN 1/0. THE ABS DUMPING LOADER IS USED TO MAKE AN ABSOLUTE VERSION HHICH LOADS INTO THE DESIRED AREA OF MEMORY. THIS VERSION OF THE LOADER IS CATALOG NO. 704155. THE ABSOLUTE VERSION MUST BE USED HITH A LOADER WHICH SAVES THE GENERAL REGISTERS IN HEXADECIMAL LOCATIONS 60 THROUGH 6F. PRIOR TO EXECUTION. THIS MAY BE CONSTRUCTED USING THE REGISTER SAVE GENERATOR (CAT. NO. 704145) AND THE STANDARD ABS LOADER (CAT. NO. 704145)

704780

SIGMA 5/7

STAND-ALONE HAG TAPE OR DISC DUMP-UTIL.

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM PROVIDES THE CAPABILITY FOR DUMPING FILES, RECORDS, OR INDIVIDUAL HORDS FROM A MAGNETIC TAPE, OR TRACKS, SECTORS, OR HORDS FROM A DISC FILE. THESE DUMPS MAY BE IN EITHER EBCDIC OR HEXADECIMAL, AND ALL MODELS OF 7 AND 9 TRACK DRIVES ARE PROVIDED FOR. IN THE CASE OF MAGNETIC TAPE A COUNT OF THE NUMBER OF FILES MAY BE REQUESTED, AS MAY A COUNT OF THE NUMBER OF RECORDS, AND HORDS IN EACH RECORD, HITHIN ANY FILE. COMMENTS:

THIS PROGRAM REQUIRES APPROXIMATELY 2350 DECIMAL LOCATIONS AND IS LOADED BY THE STAND ALONE LOADER AND 1/0 HANDLERS. IT HILL OPERATE ON A SIGMA 5/7 HITH TELETYPE, AND EITHER TAPE OR DISC FOR IMPUT INFORMATION, AND A DEVICE FOR LISTING OUTPUT.

704781

SIGNA 5/7 AUTHOR: XEROX

STD-ALONE DISC SAVE-RESTORE ROUTINE-UTIL

ABSTRACT: THIS PROGRAM PROVIDES FOR THE TRANSFER OF INFORMATION FROM DISC TO CARDS, PAPER TAPE OR MAGNETIC TAPE.
FOR STORAGE. THE PROGRAM HILL ALSO ACCEPT SUCH STORED INFORMATION FOR TRANSFER BACK TO THE DISC. A
VERIFY PASS IS OPTIONAL WHEN SAVING OR RESTORING. THE INFORMATION TRANFERRED MAY BE DISPLAYED ON THE LO
DEVICE. THE PROGRAM USES ITS OWN ABSOLUTE FORMAT FOR STORING THE INFORMATION ON THE EXTERNAL MEDIUM. COMMENTS:

IMMENTS:
THE PROGRAM REQUIRES APPROXIMATELY 1500 DECIMAL LOCATIONS AND UTILIZES THE STAND-ALONE LOADER AND 1/0
HANDLER PACKAGE. THE SI DEVICE IS USED FOR CONTROL INFORMATION, OUTPUT IS ON 80, IMPU) ON 81. LIST
OUTPUT IS ON THE LO DEVICE. THE PROGRAM HILL OPERATE ON A SIGMA 5/7 HITH DISC AND ONE MAGNETIC TAPE,
CARD READER/PUNCH, OR PAPER TAPE READER/PUNCH.

704782

SIGNA 5/7

S/A FILE CPY AND VER(CARD, PUT, MT)-UTIL.

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM PRODUCES SINGLE OR MULTIPLE COPIES OF AN INPUT FILE USING MAGNETIC TAPE OR MEMORY FOR INTERMEDIATE STORAGE. VERIFICATION OF COPIES IS OPTIONAL. THE PROGRAM HILL ALSO PRODUCE MULTIPLE COPIES OF LIST TAPES ON A LINE PRINTER. INPUT FILES MAY BE FIXED OR VARIABLE LENGTH RECORDS, AND THE CAPABILITY

704782 CONTINUED ON FOLLOWING PAGE

704784

(CONTINUED)

S/A FILE CPY AND VER(CARD, PUT, MT)-UTIL. TO POSITION TO A DESIRED INPUT FILE IS PROVIDED.

COMMENTS: THE PROGRAM REQUIRES APPROXIMATELY 875 DECIMAL LOCATIONS, AND USES THE STAND-ALONE I/O HANDLERS. IT MAY ALSO BE USED HITH THE BASIC CONTROL MONITOR (CAT. NO. 704144). THE ROUTINE HILL OPERATE ON ANY SIGMA 5/7 HITH TELETYPE AND THE NECESSARY PERIPHERALS FOR THE OPERATION DESIRED. THE PROGRAM USES OPERATIONAL LABELS TO ACCESS PHYSICAL DEVICES.

SIGMA 5/7 704783 AUTHOR: XEROX

MAG. TAPE CONVERSION (7/9 TRACK) - UTIL

MEDIA CONVERSION AND EDITOR ROUTH-UTIL

SIGMA 5/7 AUTHOR: XEROX

ABSTRACT: STRACT:
THIS PROGRAM PROVIDES A VARIETY OF UTILITY FUNCTIONS RELATIVE TO BCD(EBCDIC) AND BINARY CARD IMAGE
FILES. THESE INCLUDE SEQUENCING, RE-SEQUENCING, SEQUENCE CHECKING, COMPRESSION, RECONSTRUCTION, AND BCD
TO EBCDIC CONVERSIONS. THE COMMERCIAL BCD/EBCDIC TRANSFORMATION IS ACCOMPLISHED THROUGH AN EXTERNAL
TABLE (CAT. NO. 704855). THE USER MAY PROVIDE HIS OWN TABLE IN ORDER TO SPECIFY AN ARBITRARY BCD/EBCDIC
CONVERSION SCHEME. THE PROGRAM CONTAINS A GENERAL, FILE-ORIENTED. EDITING SCHEME WHERE ENTIRE FILES OR
RECORDS HITHIN FILES MAY BE INSERTED OR DELETED. RECORD POSITIONING MAY BE DONE ON A KEYMORD BASIS. THE
PROGRAM PROVIDES A BLOCKING CAPABILITY FOR MAGNETIC TAPE.

COMMENTS: THE PROGRAM REQUIRES APPROXIMATELY 3500 DECIMAL LOCATIONS, AND IS USED UNDER BASIC CONTROL MONITOR OPERATING CONVENTIONS, AND CONFIGURATION.

SIGMA 5/7 704785

S/A COMP/SOURCE UPDATE EDITOR - UTILITY

AUTHOR: XEROX **ABSTRACT:**

BSTRACT:
THIS PROGRAM PROVIDES THE CAPABILITY FOR TRANSLATING SYMBOLIC PROGRAMS INTO SIGMA STANDARD COMPRESSED
LANGUAGE FORMAT. THE ROUTINE HILL ALSO UPDATE, LIST, OR RECONSTRUCT PROGRAMS ALREADY IN COMPRESSED
FORMAT, AS HELL AS UPDATE OR LIST SYMBOLIC FILES. THE UPDATE NOTATION IS THAT USED BY META-SYMBOL.
UPDATE AND DATA FILES MAY BE ON THE SAME OR DIFFERENT DEVICES, AND AS THE UPDATES ARE READ TO MEMORY, NO
EXTERNAL INTERMEDIATE STORAGE IS REQUIRED HHEN THEY ARE ON THE SAME DEVICE UPDATE INFORMATION IS TAKE
FROM THE SI DEVICE, THE INPUT DATA FILE IS ON THE LI DEVICE. THE OUTPUT FILE IS ON THE BO DEVICE, MITH
THE LISTING ON THE LO DEVICE.

THIS PROGRAM REQUIRES APPROXIMATELY 1500 DECIMAL LOCATIONS, AND MAY BE USED WITH EITHER THE STAND-ALONE LOADER WITH 1/0 MANDLER (CAT. NO. 704142), OR WITH THE BASIC CONTROL MONITOR (CAT. NO. 704144). THE ROUTING WILL OPERATE ON ANY SIGMA 5/7 EQUIPPED WITH TELETYPE AND APPROPRIATE INPUT-OUTPUT DEVICES FOR THE TYPE FUNCTION TO BE PERFORMED. COMMENTS:

SIGMA 5/7 704851

7 TRACK MAGNETIC TAPE I/O HANDLER

AUTHOR: XEROX ABSTRACT:

THIS HANDLER PROVIDES THE USE OF ALL THE 7 TRACK OPTIONS IN CONJUNCTION HITH THE MAGNETIC TAPE 1/0 HANDLER, CATALOG NUMBER 704369. IN ADDITION, IT PROVIDES A SIMULATED READ REVERSE CAPABILITY.

COMMENTS: THIS PROGRAM IS PART OF CATALOG NUMBERS 704142, 704144, 704155, AND 705280. SEE THESE CATALOG NUMBER FOR CONFIGURATION REQUIREMENTS AND MANUAL REFERENCES. THE CORE RESIDENCY IS APPROXIMATELY 26 DECIMAL LOCATIONS. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBERS 705280 AND 704127.

704853

STAND-ALONE I/O INITIALIZATION

AUTHOR: XEROX ABSTRACT:

THIS ROUTINE PROVIDES INITIALIZATION REQUIRED BY STAND ALONE 1/0 PACKAGE AFTER THE SYSTEM IS LOADED.

COMMENTS:

THIS PROGRAM IS PART OF CATALOG NUMBERS 704142 AND 704155. SEE THESE CATALOG NUMBERS FOR CONFIGURATION REQUIREMENTS AND MANUAL REFERENCES. THE CORE RESIDENCY IS APPROXIMATELY IS DECIMAL LOCATIONS. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127.

704855

SIGMA 5/7

SIGNA 5/7

BCD/EBCDIC TRANSLATION TABLE

AUTHOR: XEROX

ABSTRACT:
THIS PROGRAM PROVIDES THE STANDARD COMMERCIAL BCD/EBCDIC TRANSLATION TABLE FOR USE WITH THE MAGNETIC
TABE CONVERSION ROUTINE (CAT. NO. 704783), AND THE MEDIA CONVERSION AND EDITOR PROGRAM (CAT. NO. 704784). THE USER MAY PROVIDE HIS OWN TRANSLATION TABLE, IN ORDER TO IMPLEMENT AN ARBITRARY BCD/EBCDIC CONVERSION.

COMMENTS: THIS PROGRAM REQUIRES APPROXIMATELY 5 DECIMAL HORDS, AND IS NON-EXECUTABLE.

704**98**5

SIGMA 5-9 AUTHOR: XEROX

SORT/HERGE FOR BPH/BTH

ABSTRACT:
THESE PROGRAMS PROVIDE GENERALIZED FILE SORTING AND HERGING CAPABILITY FOR THE SIGMA 5-9. FILES MAY
CONSIST OF FIXED OR VARIABLE LENGTH RECORDS AND MAY RESIDE ON ANY COMBINATION OF INPUT DEVICES. THE SORT
UTILIZES A POLYPHASE MERGING ALGORITHM AND CAN USE ANY COMBINATION OF SEVEN TRACK MAGNETIC TAPE, NINE

704985 CONTINUED ON FOLLOWING PAGE

SORT/MERGE FOR BPM/BTM (CONTINUED)
TRACK MAGNETIC TAPE, AND RAD AS INTERNEDIATE STORAGE. THE SORT MAY BE CALLED AS A BATCH JOB PROCESSOR OR AS A DYNAMIC LINKED SUBROUTINE. THE MERGE PROGRAM ALLOHS THE MERGING OF UP TO EIGHT IDENTICALLY FORMATTED AND ORDERED FILES. BOTH SORT AND MERGE PROVIDE SIX OHN-CODE EXITS. COMMENTS:

REQUIRED CONFIGURATION IS ANY SIGMA 5-9 WITH BATCH PROCESSING MONITOR. AT LEAST 7K OF AVAILABLE MEMORY AND EITHER THREE TAPE DRIVES OR RAD STORAGE EQUAL TO THREE TIMES MAXIMUM INPUT FILE SIZE ARE REQUIRED. THE BINARY ROMS AND COMPRESSED FILES ARE NOW ON ONE TAPE.

705000

704985

SIGMA 5-9

BPH/BTH OPERATING SYSTEM

AUTHOR: XEROX CORPORATION ABSTRACT:

THE BASE COMPRESSED ELEMENTS FOR THESE ASSEMBLIES ARE PART OF LABELED TAPE 705000-46H00. SOURCE UPDATES HHICH HAVE BEEN APPLIED TO THAT BASE TO MAKE THE BINARY ELEMENTS ON TAPE 705000-86H01 ARE ALSO AVAILABLE ON TAPE 705000-86H01. IT IS ALSO AVAILABLE ON PACK (CUSTOMER SUPPLIED). COMMENTS:

THIS PROGRAM HILL RUN UNDER BPM/BTM OPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

705001

SIGMA 5-9

EXTENDED FORTRAN IV/IV-H COMPRESSED LIB.

AUTHOR: XEROX

ABSTRACT:

SSTRACT:
THE COMPRESSED TAPE CONTAINS SYSTEM FLIBMODE, SYSTEM XOS AND ALL THE MATH AND RUNTIME ROUTINES ADDED TO
CREATE THE FORTRAN LIBRARY FOR BPM/BTM/UTS, BPM REALTIME, RBM, RBM REALTIME OR BCM. IN ADDITION, FLAG
LIBRARIES FOR BPM AND UTS MAY BE ASSEMBLED. BINARY TAPES ARE ALSO AVAILABLE UNDER CATALOG NUMBERS
705738 (RBM), 705821 (BCM), 705820 (BPM/BTM/UTS), AND 705819 (FLAG).

THIS PROGRAM HILL RUN UNDER BPM/BTM/UTS OPERATING SYSTEMS. PROGRAM TYPE IS LIBRARY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL. THIS LABELED TAPE MUST BE USED UNDER THE BPM/BTM/UTS MONITORS. AN UNLABELED COPY EXISTS ON 70573B FOR MACROSYMBOL (RBM AND BCM). THE FILES FLIBHODE AND XOS MUST BE PLACED IN AN ACCOUNT AND REFERENCED AS A SYSTEM PROC ON THE METASYM OR MACRSYM CARD AS EACH LIBRARY ROUTINE REFERENCES ONE OR BOTH OF THESE SYSTEMS.

705260

SIGNA 5/7

LOAD ONE PASS AND EXECUTE (LOPE) BPH

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM IS THE BCM STANDARD LOADER INTERFACED WITH BPM. IT IS PRIMARILY FOR USE WITH FORTRAN-COMPILED PROGRAMS. THE SYSTEM ACCEPTS ENTIRE OBJECT LANGUAGE WITH ONE EXCEPTION: DUMMY SECTIONS MUST FIRST BE DECLARED AT MAXIMUM SIZE

705261

SIGMA 5-9

1400 SERIES SIMULATOR

AUTHOR: XEROX

THE 1400 SERIES SIMULATOR HILL EXECUTE 1400 SERIES OBJECT PROGRAMS AUTOMATICALLY AS IF THEY HERE RUN ON A 1401, 1460, OR 1440. VIRTUALLY ANY OBJECT PROGRAM CAN BE SIMULATED INCLUDING OBJECT CODE PRODUCED BY SPS, AUTOCODER, RPG, ETC., AS HELL AS UTILITY ROUTINES. ALMOST ALL 1400 OPERATIONS CAN BE SIMULATED. THE FEM EXCEPTIONS ARE THOSE INPUT/OUTPUT AREAS HHERE HARDHARE DIFFERENCES MAKE TOTAL SIMULATION IMPOSSIBLE. THE 1400 SERIES SIMULATOR OPERATES UNDER THE BATCH PROCESSING MONITOR AND THE UTS MONITOR. COMMENTS:

THE SIMULATOR REQUIRES APPROXIMATELY 11500 DECIMAL HORDS. IT CONSISTS OF 10 PROGRAMS THAT ARE NOT OVERLAID. THEY ARE: SIMI, TAPE DATAI, DATAZ, DATAZ, SIMZ, SIMZ, MCE, SIM4 AND DISC. TAPECON IS AN INDEPENDENT PROGRAM THAT IS INCLUDED ON THE PROCESSOR TAPE. ALL TAPES GOING INTO A SIMULATOR RUN, MUST FIRST BE CONVERTED TO SIMULATOR FORMAT BY USING THE TAPECON PROGRAM. THE BINARY ROMS AND COMPRESSED FILES ARE NOW ON ONE TAPE.

705360

SIGMA 5/7

SYSTEM FORTCOMP PROCEDURES

AUTHOR: XEROX

SYSTEM FORTCOMP IS A METASYMBOL SYSTEM (LIKE SIG7FDP) THAT IS CALLED FORTH BY ALMOST EVERY ASSEMBLY IN THE XDS SIGMA 5/7 FORTRAN IV COMPILER (NOT THE LIBRARY). ITS MAIN PURPOSE IS TO DEFINE THE 'POP' OP-CODES USED IN THE COMPILER'S INTERPRETIVE LANGUAGE. IT ALSO DEFINES REGISTER VALUES, TYPE CODES, CHARACTER VALUES, AND SOME OTHER SPECIAL PARAMETERS. FINALLY, IT REF'S A NUMBER OF COMMONLY USED SYMBOLS IN THE INTERPRETER

705361

SIGMA 5-9 AUTHOR:XEROX CORPORATION

SYSTEM FORTLIB

ABSTRACT:

SYSTEM FORTLIB DEFINES SYMBOLIC PARAMETER VALUES, CALLING/RECEIVING SEQUENCE OP-CODES, AND

FORTRAN STATEMENT PROCS FOR USE IN INTERFACING ASSEMBLY LANGUAGE PROGRAMS WITH EXTENDED FORTRAN IV.

SYSTEM FORTLIB WILL RUN ON ANY SYSTEM THAT SUPPORTS METASYMBOL AND EXTENDED FORTRAN IV.

705398

SIGHA 5-9

BPH/BTH BASIC COMPILER

AUTHOR: XEROX

ABSTRACT:
BTM/BPM BASIC COMPILER. SEE REFERENCE MANUAL 90-14-46

OPERATES ON ANY BTM/BPM CONFIGURATION. CONSISTS OF THO VERSIONS,ON-LINE(BTM) AND BATCH(BPM)

SIGMA 5/8/7 705415

BTM-EXEC (EXECUTIVE PROGRAM)

AUTHOR: XEROX ABSTRACT:

STRACT:
THIS PROGRAM, ALONG HITH THE BTM INITIALIZATION ROUTINE, COMPRISES THE TIME SMARING EXECUTIVE FOR THE
BTM SYSTEM. THIS PROGRAM MANDLES THE SCHEDULING OF ON-LINE PROGRAMS, THE BUFFERING OF CONSOLE 1/0, AND
THE INTERFACE OF ON-LINE RAD I/O REQUESTS TO THE BPM FILE MANAGEMENT SYSTEM. IT ALSO PERFORMS THE
CONSOLE EXECUTIVE FUNCTIONS OF LOGGING ON AND OFF, FILE ASSIGNMENT, AND SETTING CONSOLE TAB STOPS.

THE PROGRAM IS CODED IN META-SYMBOL AND OCCUPIES APPROXIMATELY BOIS DECIMAL HORDS.

SIGMA 5-9 705673

DATADEF SYSTEMS PROGRAMMING PROCEDURES

AUTHOR: XEROX

ABSTRACT:

DATADEF IS A META-SYMBOL PROCEDURE SYSTEM. IT PROVIDES A POHERFUL SYSTEM PARAMETERIZATION AND MACROINSTRUCTION CAPABILITY, THEREBY AIDING MAINTAINABILITY AND SELF-DOCUMENTATION OF PROGRAMS. IT IS A
SYSTEM PROGRAMMING LANGUAGE THAT IMPLEMENTS A SIMPLE MEANS FOR ACCESSING PACKED DATA STRUCTURES BY
ESTABLISHING CENTRALIZED DEFINITIONS OF DATA ITEMS IN A DICTIONARY, WHICH IS THEN USED BY THE PROCS. TO
GENERATE SEQUENCES OF MACHINE INSTRUCTIONS THAT ALLOH ACCESS AND MANIPULATION OF DATA ITEMS BY NAME. BY
THIS MEANS, HARD-CODING OF DATA ITEM ADDRESSES, LENGTHS, SHIFTS, MASKS, ETC. CAN BE ELIMINATED.

COMMENTS:
THIS LANGUAGE CAN BE USED TO IMPROVE EXISTING PROGRAMS. HOMEVER, THE GREATEST BENEFIT IS OBTAINED IN CODING NEW PROGRAMS, SINCE THAT IS THE TIME WHEN USE OF DISCIPLINE HAS THE GREATEST EFFECT ON SUCCESSFUL SYSTEM IMPLEMENTATION. HHENEVER DATADEF IS USED, IT REQUIRES CONSISTANT REFERENCE TO DATA BY NAME, ENMANCING SELF-DOCUMENTATION. ITS MACROS PROVIDE ACCESS TO THE NAMED DATA IN TERMS OF A TASK-ORIENTED LANGUAGE, WHICH TYPICALLY REDUCES THE NUMBER OF STATEMENTS REQUIRED.

705677

SIGNA 5/7

STAND-ALONE ERROR LOG ANALIZER FOR BPM

AUTHOR: XEROX ABSTRACT:

THIS PROGRAM LISTS THE ERRORS LOGGED BY THE BPM ERROR LOG FEATURE (AVAILABLE BEGINNING IN DOG BPM). THE PROGRAM RUNS AS A STAND-ALONE PROGRAM IN UPPER MEMORY TO PRESERVE THE INTEGRITY OF THE RESIDENT MONITOR.

SEE THE PRINTED DESCRIPTION FOR DETAILS.

705732 SIGMA 5-9 REAL-TIME BATCH MONITOR (RSH)

AUTHOR: XEROX

ABSTRACT: STHACT:

RBHIS AN OPERATING SYSTEM WHICH FEATURES CONCURRENT BACKGROUND-FOREGROUND PROCESSING, QUEUING OF 1/O

REQUESTS, PERMANENT FILES ON RAD OR DISK PACK, AND RAPID RESPONSE TO EXTERNAL INTERRUPTS. IT ALLOWS RAD

OR DISK PACK SYSTEM RESIDENCY WHILE SUPPORTING ANY COMBINATION OF RADS AND PACKS. THIS OPERATING SYSTEM
INCLUDES A FULL REPERTOIRE OF SERVICE FUNCTIONS AND SUPPORTS SYMBOL, MACROSYMBOL, REAL-TIME FORTRAN IV-H. AND SL-1.

TOTAL AND SETT.

COMMENTS:
SIGMA 5/7 HITH MINIMUM OF 16K MEMORY, MINIMUM OF .75 MEGABYTE SECONDARY RAD STORAGE, KEYBOARD PRINTER,
PAPER TAPE UNIT OR CARD READER, AND MEMORY PROTECT. ALSO SUPPORTED ARE MAGNETIC TAPE UNITS (SEVEN AND
NINE TRACK) LINE PRINTERS (7440,7445,7450) CARD PUNCHES (7160,7165) AND DISK PACKS (7242,7246).
COMPRESSED ENCODED CARDS, 705732-44, MAY BE ORDERED BY SPECIAL REQUEST. 705732-44 CONTAINS: SYSGEN
LOADER, SYSGEN, INSTRUCTION SIMULATORS, RESIDENT RBM, RBM OVERLAYS, AND JOB CONTROL PROCESSOR.

705733

SIGMA 5/7

RBH OVERLAY LOADER

AUTHOR: XEROX ABSTRACT:

SSTRACT:
THE OVERLAY LOADER CREATES ABSOLUTE LOAD MODULES FROM OBJECT MODULES CODED IN THE STANDARD SIGMA 6/7
OBJECT LANGUAGE. THE LOADER'S MAIN FUNCTIONS ARE: (1) TO SATISFY DEF/REF LINKAGES BETHEEN OBJECT MODULES
IN THE SAME OVERLAY PATH, (2) TO LINK EXTERNAL REFERENCES TO ROUTINES IN SPECIFIED PUBLIC LIBRARIES, (3)
TO INCLUDE REFERENCED ROUTINES FROM THE SYSTEM AND/OR USER LIBRARY, (4) TO ALLOCATE PROGRAM CONTROL AND
DUMMY SECTIONS, AND (5) TO CREATE THE PROGRAMS ABSOLUTE CORE IMAGE AND SUPPLY THE NECESSARY ROM
INTERFACE.

COMMENTS:
SIGMA 5/7 RBM-2 CONFIGURATION, COMPRESSED ENCODED CARDS, 705733-44, MAY BE ORDERED BY SPECIAL REQUEST.

705734

SIGMA 5/7 AUTHOR: XEROX

RRM RAD EDITOR

ABSTRACT:

STRACT:
THE SIGHA 5/7 RAD EDITOR IS A BACKGROUND PROCESSOR WHICH OPERATES IN AN RBM SYSTEM, IT PROVIDES THE
CAPABILITY TO CREATE, DELETE, COPY, MAP, AND DUMP FILES ON RAD/DISK, CREATE AND MAINTAIN LIBRARIES FOR
USE BY THE RBM OVERLAY LOADER, SAVE THE CONTENTS OF A RAD/DISK IN SELF-RELOADABLE FORM, RESTORE RAD
AREAS SAVED, AND INHIBIT USE OF BAD TRACKS.

SIGHA 5/7 RBM CONFIGURATION. COMPRESSED ENCODED CARDS,705734-44, MAY BE ORDERED BY SPECIAL REQUEST.

705738

SIGHA 5-9

EXTENDED FORTRAN IV/IV-H LIB. (RSM)

AUTHOR: XEROX ABSTRACT:

THE RELEASE INCLUDES THE THIS PROGRAM IS THE LIBRARY FOR THE REALTIME AND STANDARD AREAS OF RBM. THE RELEASE INCLUDES THE COMPRESSED OF ALL THE LIBRARY ROUTINES. THE COMPRESSED MAY BE ASSEMBLED USING MACROSYMBOL UNDER RBM. THE LIBRARY MAY BE USED WITH EITHER FORTRAN IV OR FORTRAN IV-H AND THE OLOAD LOADER.

COMMENTS:

THIS PROGRAM WILL RUN UNDER ROM OPERATING SYSTEM. PROGRAM TYPE IS LIBRARY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

REPRINT 75.02

PAGE 10 - 01/31/75

705778 SIGMA 5/7 EXTENDED FORTRAN IV-H (RRM VERSION)

AUTHOR: XEROX

ARSTRACT:

THIS PROGRAM IS THE EXTENDED FORTRAN 19-H COMPILER HHICH OPERATES UNDER THE CONTROL OF THE RBM MONITOR.

IT READS FORTRAN 19-H SOURCE STATEMENTS AND CONVERTS THEM TO MACHINE LANGUAGE OBJECT PROGRAMS. THE
COMPILE TIME OPTION 'RT' ALLOHS THE USER TO OBTAIN RE-ENTRANT OBJECT PROGRAMS WHICH CAN BE RUN IN A REAL-TIME ENVIRONMENT.

705782 SIGNA 5/7 FILE PURGE

AUTHOR: XEROX

ABSTRACT:

BSTRACT:
THE FILE PURGE PROGRAM RUNS UNDER BPM/BTM. THE FILE PURGE (FPURGE) PROCESSOR HILL PERFORM THE FOLLOWING
FUNCTIONS: 1. PURGE (RELEASE) ALL UNMANTED USER'S FILES FROM THE RAD(S). 2. SAVE (COPY) ALL MANTED
USER'S FILES ONTO MAGNETIC TAPE. 3. RESTORE BACK ONTO THE RAD(S) FILES PREVIOUSLY SAVED ONTO TAPE. 4.
LOG (LIST) THE NAMES OF ALL RAD FILES BY ACCOUNT NUMBERS ONTO THE LINE PRINTER.

USAGE DETAILS MAY BE OBTAINED FROM THE DESCRIPTION PRINTED.

705819 SIGMA 5-9 BPM/CP-V FLAG

AUTHOR: XEROX

ABSTRACT:
THIS IS A ONE-PASS IN-CORE FORTRAN COMPILER PROVIDING EXTREMELY FAST COMPILATION SPEED, EXTENSIVE ERROR
CHECKING, AND EFFICIENT OBJECT PROGRAMS HITH OPTIONAL RUN-TIME DIAGNOSTIC CHECKS. FLAG IS AVAILABLE FOR COMMENTS.

FLAG TAPE CONTAINS BPM AND CP-V BINARY AS HELL AS COMPRESSED SOURCE.

705820 SIGHA 5-9 EXT. FORTRAN IV/IV-H LIBS. (BPM/BTM)

AUTHOR: XEROX

ABSTRACT:

ISTRACT:
THE RELEASE CONTAINS LIBRARIES FOR BPM/BTM AND BPM REAL-TIME. ALL THE NECESSARY ROMS FOR THESE LIBRARIES
AS HELL AS STANDARD FILES ARE ON THE TAPE IN ALPHABETICAL ORDER. THE LOCCT FILES FOR THE BPM STANDARD
GROUPS, BPM REALTIME GROUPS, AND CORE RESIDENT LIBRARIES ARE ON THE TAPE. THE LIBRARIES MAY BE USED BY
THE LOAD, LOPE AND LINK LOADERS HITH THE FORTRAN IV OR FORTRAN IV-H (BPM ONLY) COMPILERS.

THIS PROGRAM HILL RUN UNGER BPM/BTM OPERATING SYSTEMS. PROGRAM TYPE IS LIBRARY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL. THE COMPRESSED FOR THIS SYSTEM IS CONTAINED ON 705001-46.

705821

51GMA 5-9

EXTENDED FORTRAN IV/IV-H LIBRARY (BCM)

AUTHOR: XEROX

ABSTRACT:

THE RELEASE CONTAINS THE ROMS IN THE PROPER ORDER FOR A ONE PASS LOAD. THE ROMS ARE THOSE USED WITH OUTPUT FROM THE FORTRAN IV-H COMPILER.

THE COMPRESSED FOR THIS RELEASE IS OBTAINABLE FROM 705001 (FOR METASYM) OR 705738 (FOR MACROSYM).

705835

SIGNA 5-9

EXTENDED FORTRAN IV COMPILER

AUTHOR: XEROX CORPORATION

ABSTRACT:

THE EXTENDED IV COMPILER HILL COMPILE FORTRAN IV SOURCE INPUT CODE AND GENERATE STANDARD SIGMA OBJECT CODE FOR IT. THE OBJECT CODE CAN THEN BE LINKED AND EXECUTED UNDER ANY STANDARD SIGMA 5/6/7/9 BPH/BTM OR SIGMA 6/7/9 UTS OR SIGMA 5/8 RBM OPERATING SYSTEM. CODE FOR IT COMMENTS:

THIS PROGRAM WILL RUN UNDER BPM/BTM, RBM AND UTS OPERATING SYSTEMS, PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL AND POPS. POPS (PROGRAMMED OPERATORS), IS THE MAIN LANGUAGE OF THE COMPILER.

705836

S16MA 5/7

SYSTEM FORTCOMP FOR EXTENDED F-1V

AUTHOR: XEROX ABSTRACT:

THESE PROCEDURES PERFORM A SIMILIAR FUNCTION AS CAT. NO. 705380. HOHEVER THESE PROCEDURES MUST BE UNIQUELY USED WITH EXTENDED FORTRAN IV AND ONLY WITH EXTENDED FORTRAN IV.

705846

SIGMA 5/7

SYMBOL ASSEMBLER (RBM VERSION)

AUTHOR: XEROX CORPORATION

ABSTRACT:

THIS PROGRAM IS THE ONE PASS ASSEMBLER HHICH OPERATES UNDER CONTROL OF THE RBM. IT READS SYMBOLIC SOURCE LANGUAGE PROGRAMS AND CONVERTS THEM TO MACHINE LANGUAGE (OBJECT) PROGRAMS. ITS BINARY OUTPUT MAY BE LOADED BY THE OVERLAY LOADER.

COMMENTS:

THIS ASSEMBLER HILL OPERATE IN A MINIMUM RBM CONFIGURATION.
TABLE SPACE) IS APPROXIMATELY 3.7K HORDS DECIMAL. THE CORE RESIDENCY (EXCLUSIVE OF DYNAMIC 705850 SIGMA 5/7 AUTHOR: XEROX

EXTENDED FORTRAN IV-H (BCH VERSION)

ABSTRACT:

THIS PROGRAM IS THE EXTENDED FORTRAN IN-H COMPILER WHICH OPERATES UNDER THE CONTROL OF THE BCM MONITOR. IT READS FORTRAN IN-H SOURCE STATEMENTS AND CONVERTS THEM TO MACHINE LANGUAGE OBJECT PROGRAMS.

SIGMA 5/6/7

EXTENDED FORTRAN IV-H (BPH,BTH)

AUTHOR: XEROX ABSTRACT:

ISTRACT:
THO VERSIONS OF THE EXTENDED FORTRAN IV-H COMPILER ARE NOW COVERED UNDER THIS CATALOG NO. THE BPH
VERSION OPERATES AS A BACKGROUND PROCESSOR UNDER THE BPM MONITOR. THE BTM VERSION IS DESIGNED FOR
ON-LINE USAGE, AND ALLONS USERS TO INPUT, COMPILE, AND EXECUTE PROGRAMS WHILE CONTROLLING THE PROCESS
FROM THEIR TERMINALS. BOTH VERSIONS READ FORTRAN IV-H SOURCE INPUT AND CONVERT IT TO OJECT PROGRAMS TO
BE LOADED BY THE LOADER. THE OPTION 'RT' ALLONS USERS TO CREATE RE-ENTRANT OBJECT PROGRAMS THAT MAY BE RUN IN A REAL-TIME ENVIRONMENT.

705878

SIGMA 5/8/7

PRINT LABELED TAPE

AUTHOR: XEROX ABSTRACT:

THE PRINT LABELED TAPE PROCESSOR (PLAB) ENABLES THE USER TO PRINT FILES FROM LABELED TAPE. THE OPTIONS ARE PROVIDED TO PRINT: ALL FILES, SPECIFIC FILES, ALL FILES AFTER A SPECIFIED FILE, AND ALL FILES BETHEEN AND INCLUDING A SPECIFIED STARTING AND A SPECIFIC ENDING FILE.

705879

SIGMA 5/6/7

CARD STORE/RETRIEVE (CSR)

AUTHOR: XEROX

ABSTRACT:

A UTILITY PROGRAM WHICH HILL STORE CARD IMAGES TO LABLED TAPE AND SEQUENCE, GANGPUNCH OR UPDATE THESE FILES. HILL RUN UNDER BPM.

705888

SIGMA 5-9

XEROX ANS COBOL COMPILER

AUTHOR: XEROX CORPORATION

ARSTRACT:

ISTRACT:

XEROX ANS COBOL COMPILER IS A FULL IMPLEMENTATION (DOD SUBSET D) OF THE COBOL LANGUAGE AS DEFINED BY THE
1968 ANS COBOL STANDARD. THE MODULES DEFINED BY THE STANDARD AND IMPLEMENTED IN THIS COMPILER ARE:
NUCLEUS, TABLE HANDLING, SEQUENT ACCESS, RANDOM ACCESS, SORT, REPORT, HRITER, SEGMENTATION AND LIBRARY.
IN ADDITION, THE FOLLOHING FEATURES AND MODULES HAVE BEEN IMPLEMENTED FROM THE PROPOSED 1973 AND
STANDARD. IN NUCLEUS, INSPECT STRING, UNSTRING, ALL OF THE DEBUG HODULE AND LEVEL 1 OF THE
INTER-PROGRAM COMMUNICATION MODULE (LINKAGE SECTION, CALL, USING, PROCEDURE DIVISION USING). COMMENTS:

THIS PROGRAM HILL RUN UNDER BPM/BTM, UTS AND CP-V OPERATING SYSTEMS. PROGRAM TYPE IS COMMERCIAL PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL. PROGRAMMING AIDS INCLUDE: ON-LINE OPERATIONS INCLUDING PROMPTING AND SOURCE PROGRAM EDIT FILE CREATING. AND AN ON-LINE DEBUGGER. ALSO, A BATCH DEBUG MODULE, DATA AND PROCEDURE MAPS, CROSS-REFERENCE LISTING AND SUB-COMPILATION. FILE ORGANIZATION MAY BE SEQUENTIAL, INDEXED (KEYED) OR RANDOM (DIRECT). THE SORTING FUNCTION IS PROVIDED BY XEROX SORT; COBOL IS UTILIZED WITH THE XEROX DATA MANAGEMENT SYSTEM (DMS). THE MASTER RELEASE TAPE ALSO CONTAINS THE COBOL ON-LINE DEBUG SYSTEM FOR USE UNDER CP-V ONLY. A HINIMUM OF 17K HORDS OF CORE ARE REQUIRED FOR THE COMPILATION OF USER PROGRAMS.

706101

SIGMA 6-9

CP-V BASIC

AUTHOR: XEROX

ABSTRACT:

BASIC, OPERATING UNDER XEROX MONITORS, PROVIDES FOR THE CONSTRUCTION OF PROGRAMS HRITTEN IN THE BASIC LANGUAGE, EDITING AND COMPILING OF SUCH PROGRAMS, AND COMPLETE RUN-TIME SUPPORT FOR THE EXECUTION OF SUCH PROGRAMS.

THIS PROGRAM WILL RUN UNDER CP-V OPERATION SYSTEM. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.

706102

SIGMA 5-9 AUTHOR: XEROX CORPORATION XEROX SORT AND MERGE

STRACT:
THESE PROGRAMS PROVIDE THE USER WITH GENERALIZED FILE SORTING AND MERGING CAPABILITY. FILES MAY BE
ANSI, XEROX MONITOR OR USER FORMATTED AND MAY BE FIXED OR VARIABLE LENGTH, BLOCKED OR UNBLOCKED. UP TO
SIXTEEN KEY FIELDS CAN BE USED FOR SORTING AND MERGING IN ASCENDING AND/OR DESCENDING SEQUENCE. SORT
CAN EFFICIENTLY UTILIZE TAPE, DISK OR A MIXTURE OF BOTH FOR STORAGE OF INTERNEDIATE MORK FILES A
REPLACEMENT SELECTION TOURNAMENT TECHNIQUE IS USED FOR SORTING. THE MERGING ALGORITHM (OF THE SORT)
VARIES ACCORDING TO THE TYPE OF INTERMEDIATE STORAGE. IF ALL INTERMEDIATE STORAGE IS ASSIGNED TO RANDOM
STORAGE, THE RANDOM TECHNIQUE HILL BE USED; OTHERNISE THE SEQUENTIAL TECHNIQUE IS INVOKED.
THERE IS ALSO AVAILABLE A SORT PERFORMANCE JOB STREAM, ITS CATALOG NUMBER IS 708495. ABSTRACT:

THIS PROGRAM HILL RUN UNDER BPM/BTM/UTS/CP-V OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYBMBOL. XEROX SORT AND MERGE OPERATE AS BACKGROUND BATCH PROCESSORS. SORT CAN OPERATE AS A STAND-ALONE PROCESSOR OR CAN BE LINKED TO FROM ANOTHER PROGRAM (SUCH AS A COBOL PROGRAM) OR CAN RUN CO-RESIDENT WITH COBOL PROGRAMS. MERGE OPERATES AS A STAND-ALONE PROCESSOR. SORT REQUIRES ABOUT 7K OF CORE PLUS WORK SPACE FOR EXECUTION; MERGE ABOUT 5K PLUS WORK SPACE.

708128 SIGMA 5/6/7 MULTIPLE TAPE COPY PROCESSOR

AUTHOR: XEROX

ABSTRACT:
A UTILITY PROGRAM HHICH CREATES MULTIPLE COPIES OF A LABELED OR UNLABELED TAPE, VERIFIES THE TAPE COPIES
OR PERFORMS A VERIFY ONLY FUNCTION.

REQUIRES MINIMUM HARDHARE CONFIGURATION FOR A BPM OPERATING SYSTEM WITH 1-8 MAGNETIC TAPE UNITS.

706150 SIGHA 5/6/7 MONDUMP (COVER)

AUTHOR: XEROX

ABSTRACT:
MONDUMP IS THE ROUTINE HHICH ANALIZES A CRASH DUMP AND PRINTS AN INTERPRETED LISTING OF THAT DUMP.
MONDUMP IS COMPRISED OF MOSYSTEM (THE SYSTEM PROCEDURES FOR MONDUMP) AND THE ELEMENT FILES MOSUPER,
MOFORMAT, MOSYMBOL, MOPSDREG, MOTRAPS, MODORS, MODOLAY, MOSNAPH, AND MOSNAPB. MONDUMP OPERATES EITHER ONLINE OR IN BATCH FOR BPM/BTM.

706206

SIGNA 5-9

BPM/BTM PCL (PERIPHERAL CONV. LANGUAGE)

AUTHOR: XEROX

ABSTRACT:

PERIPHERAL CONVERSION LANGUAGE (PCL) IS A UTILITY SUBSYSTEM PROVIDING FOR INFORMATION TRANSFER BETHEEN SYSTEM I/O AND FILE DEVICES. COMMENTS:

THIS IS THE COVER FOR THE PCL INCLUDED WITH THE BPM/BTM SYSTEM. THE CATALOG NUMBERS 708207-708225 COMPRISE THE COMPLETE PROCESSOR.

706226

SIGMA 5-9

STAND-ALONE VOLUME INITIALIZER-VOLINIT

AUTHOR: XEROX CORPORATION ABSTRACT:

PROVIDES A STAND-ALONE DISK INITIALIZATION FACILITY FOR PRIVATE VOLUMES OR PUBLIC DEVICES. THIS CAN BE USED TO INITIALIZE DISK PACKS FOR RBM, CP-V, OR OTHER SYSTEMS. VOLINIT IS EXECUTED WITH THE STAND-ALONE LOADER - CATALOG NUMBER 704142. THIS PROGRAM

706247

516MA 5-9

TEST FILE GENERATOR (TGEN)

AUTHOR: XEROX ABSTRACT:

PRINTAL!

TGEN HILL ENABLE THE USER TO CREATE TEST FILES HITH INPUT ACCEPTED FROM THE CARD READER (H:SI) OR FROM MAGNETIC TAPE OR RAD (H:EI) AND HITH OUTPUT GENERATED ON RAD OR MAGNETIC TAPE (H:EO). SPECIFIED FIELDS FROM THE INPUT CAN BE REDEFINED (I.E., PACKED DECIMAL CONVERTED TO FLOATING POINT, ETC.): INCREMENTED BY A GIVEN VALUE; TOTALED; SEQUENCE CHECKED; AND USED AS A PORTION OF A KEY IF A KEYED FILE IS TO BE GENERATED. THE USER MAY SET CRITERIA FOR SELECTION OF INPUT RECORDS TO BE PROCESSED. MULTIPLE OUTPUT RECORDS MAY BE PRODUCED FROM A SINGLE INPUT RECORD. COMMENTS

ALTHOUGH TGEN HAS WRITTEN TO FACILITATE THE GENERATION OF TEST FILES, IT COULD BE USED EFFECTIVELY FOR ALTHOUGH TGEN HAS WRITTEN TO FACILITATE THE GENERAL FOR BATCH; USE TO EXTRACT CERTAIN FIELDS FROM AN EXISTING MASTER FILE TO GENERATE A SPECIAL PUPPOSE FILE. DUE TO THE NUMBER OF BYTE STRING AND POSSIBLE DECIMAL OPERATIONS USED, PERFORMANCE MAY DETERIORATE IF RUN ON A SIGMA 5.

RBM/BPM HANDLER FOR MOCD'S

AUTHOR: XDS, HESTERN TECHNOLOGY CENTER

THE MOCD HANDLER IS A RESIDENT FOREGROUND TASK TO BE USED BY FOREGROUND ASSEMBLY LANGUAGE PROGRAMS FOR COMMUNICATING HITH ANY DEVICE CONNECTED TO THE CPU THROUGH ANY OF THE XEROX MESSAGE ORIENTED COMMUNICATIONS DEVICES (CC32A,CC32B,CC11,7601-7604). IT PROVIDES QUEUING OF 1/0 REQUESTS, DYNAMIC MEMORY ALLOCATION FOR DATA BUFFERS, TIME INTERVAL SCHEDULING OF USER'S ROUTINES, I/O HITHOUT HAIT-FOR-COMPLETE, SIMULTANEOUS SERVICE FOR MULTIPLE USERS. IT OPERATES UNDER EITHER RBM OR BPM.

IMMENTS:
LOADED IN THE RBM OR BPM SYSTEMS AS A RESIDENT FOREGROUND PROGAM. PROGRAM SIZE IS 1200 HORDS PLUS A
DATA BUFFER AREA HHICH IS INSTALLATION DEPENDENT AND HILL USUALLY BE ABOUT 500 TO 1500 HORDS. SOURCE
LANGUAGE IS SIGMA 5-9 MACRO-SYMBOL. MODE OF OPERATION IS REENTRANT. A NUMBER OF PARAMETERS ARE
INSTALLATION DEPENDENT AND THE HANDLER HILL PROBABLY HAVE TO BE RE-ASSEMBLED TO ADJUST THOSE PARAMETERS
TO THE SPECIFIC SYSTEM CONFIGURATION.

SIGHA 5-9 XEROX D AUTHOR:XEROX, HESTERN TECHNOLOGY CENTER 706263 XEROX DISPLAY STATION PROCEDURAL HANDLER

ABSTRACT: ISTRACT:
THIS MANDLER IS INTENDED FOR FOREGROUND USERS OF FORTRAN OR ASSEMBLY LANGUAGE, OPERATING UNDER EITHER
SIGMA 5-9 BPM OR RBM OPERATING SYSTEM. TO COMMUNICATE WITH XEROX DISPLAY STATIONS CONNECTED TO CC328'S.
THIS MANDLER IS USED TOGETHER WITH THE MESSAGE-ORIENTED COMMUNICATIONS DEVICES (MOCD) MANDLER, CATALOG
NO. 706259, TO SUPPORT MULTIPLE FOREGROUND PROGRAMS COMMUNICATING WITH MULTIPLE DISPLAY STATIONS
CONNECTED TO ONE OR MORE CC328 CONTROLLERS.

COMMENTS:

COMPUTER CONFIGURATION: SIGMA 5-9 COMPUTER, CC32B PROCEDURAL-ORIENTED COMMUNICATIONS CONTROLLER, XEROX DISPLAY STATION - MODEL BC100 OR BC200, ONE REAL-TIME CLOCK COUNTER AND THO EXTERNAL INTERRUPTS NHOSE PRIORITY LEVELS ARE HIGHER THAN ANY OF THE USERS OF THE HANDLER (CLOCK AND EXTERNAL INTERRUPTS ARE USED BY MOCD HANDLER).

706280 SIGMA 6/7/9 SYSTEM SAVE/RESTORE PROGRAM

AUTHOR: XEROX

ABSTRACT:

SYSTEM SAVE/RESTORE PROGRAM IS A STAND-ALONE UTILITY PROGRAM DESIGNED TO DUMP ENTIRE RAD OR DISK PACK STORAGE DEVICES TO MAGNETIC TAPE(S) FOR RESTORATION AT A LATER TIME. RESTORATION MAY ONLY BE ACCOMPLISHED TO AN IDENTICAL STORAGE UNIT.

COMMENTS:

INITIAL LOADING OF THE PROGRAM IS VIA THE DIAGNOSTIC PROGRAM LOADER CATALOG NO. 704356.

706295 SIGMA 8/9 MEMORY DIAGNOSTIC - COMIS

AUTHOR: XEROX

ABSTRACT: A SCALED DOWN VERSION OF COMET (708140), MEMORY DIAGNOSTIC. IT HAS BEEN MODIFIED TO FIT IN AN SK AREA OF Core and is capable of testing the first Sk (LESS LOC.0-X'140') OF A 18K MACHINE.

SIGMA 5-9 706296

BPH/BTH FAST SAVE

AUTHOR: XEROX

ABSTRACT:

PROVIDES THE BPM-BTM USER WITH A TAPE SPEED FILE SAVING CAPABILITY. PRODUCT IS DESIGNED TO REPLACE FPURGE FILE SAVE OPTIONS.

PRODUCT WILL BE RELEASED UNDER GOD VERSION OF BPM-BTM.

706410

SIGMA 5-9

MAGNETIC TAPE LIBRARY LOADER

AUTHOR: XEROX

AUTHOR: MENDA
ABSTRACT:

THE MAG TAPE LIBRARY LOADER PROGRAM IS DESIGNED TO LOAD IN THE SIGMA 5-7 AND 8-9 MAG TAPE LIBRARY. IT
IS ALSO ACCESSED BY THE MAG TAPE CONTROL PROGRAM AS A SUBROUTINE. THE PROGRAM PROVIDES THE CAPABILITY
TO DETECT SEQUENCE, CHECKSUM AND MANY INPUT ERRORS. THE LOADER ALSO PROTECTS ITSELF FROM SELF
DESTRUCTION. IT MAY BE USED AS A SUBROUTINE TO LOAD ADDITIONAL PROGRAMS.

COMMENTS: MINIORIS: MHEN UPDATING THIS LOADER IN THE MAG TAPE LIBRARY, A MAG TAPE LIBRARY BIAS PROGRAM (DESCRIBED IN THE DOCUMENTATION SECTION OF THE LISTING) IS TO BE INCLUDED HITH THE LOADER DECK. THIS BIAS PROGRAM SETS THE RELOCATION BIAS FOR THE MAG TAPE LIBRARY CONTROL PROGRAM AND LEAVES THE RELOCATION BIAS FOR THE DIAGNOSTIC PROGRAM MONITOR (DPM) AT LOCATION HEXADECITAL 200.

TEXT

2 **UNDEFINED**
AUTHOR:XEROX CORPORATION

AUTHOR: XERUX CURPORATION

ABSTRACT:
TEXT IS AN ON-LINE HORD PROCESSING SYSTEM THAT PROVIDES THE CAPABILITY TO CREATE, EDIT AND PRINT

DOCUMENTS THROUGH REMOTE TERMINALS OPERATING UNDER CONTROL PROGRAM-FIVE (CP-Y). THE TEXT COMMAND

LANGUAGE IS LOGICAL AND SIMPLE, AND IS ORIENTED TOHARDS THE NON-PROGRAMMER. SECRETARIES, TECHNICAL

HRITERS, AND OTHERS NOT FAMILIAR HITH COMPUTERS CAN LEARN TO USE TEXT IN A SHORT PERIOD OF TIME.

APPLICATIONS INCLUDE TECHNICAL SPECIFICATIONS, REFERENCE MANUALS, FORM LETTERS, AND PROPOSALS.

THIS PROGRAM HILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS APPLICATION. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

TEXT RUNS AS A SHARED PROCESSOR UNDER CP-V. THE PROCEDURE AREA REQUIRES 13K OF MEMORY, AND DATA AREA REQUIRES 2.5K HORDS. TEXT HILL OPERATE HITH 2741 TYPE TERMINALS OR TELETYPE COMPATIBLE TERMINALS.

706419

SIGMA 5-9

XEROX REPORT PROGRAM GENERATOR (RPG)

AUTHOR: XEROX CORPORATION **ABSTRACT:**

SSTRACT:
THE XEROX REPORT PROGRAM GENERATOR (RPG) COMPILER OFFERS SIGMA 5-9 USERS A POHERFUL AND CONVENIENT
PROBLEM ORIENTED LANGUAGE FOR THE IMPLEMENTATION OF A HIDE VARIETY OF CONMERCIAL DATA PROCESSING
APPLICATIONS. RPG IS EASY TO USE AND REQUIRES NO KNOHLEDGE OF SIGMA 5-9 ASSEMBLY LANGUAGE. THE USER IS
PROVIDED HITH THE ABILITY TO SELECTIVELY EXECUTE SUBROUTINES HITHIN HIS PROGRAM. EXTERNAL SUBROUTINES
MAY ALSO BE INCLUDED AND SELECTIVELY EXECUTED. THE EXCPT CODE ALLOHS OUTPUT DURING TOTAL OR DETAIL
CALCULATIONS. CALCULATIONS RESUME HHERE INTERRUPTED. THE CHAIN CODE PERMITS ACCESSING OF DISK FILE
RECORDS DURING THE CALCULATION CYCLE. SPECIAL EDIT CODES AID REPORT FORMATTING. THE USER MAY ADD TO OR
UPDATE RECORDS ON KEYED FILES.

COMMENTS:

OMMENTS:
THIS PROGRAM HILL RUN UNDER BPM/BTH OR CP-V OPERATING SYSTEMS. PROGRAM TYPE IS COMMERCIAL PROCESSOR.
BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.
SIGMA 5-9 RPG, HITH A FEH EXCEPTIONS, IS COMPATIBLE HITH THE 1800, 1130, DOS AND OS RPG PROCESSORS. ANY
HARDHARE DIFFERENCES ARE DIAGNOSED FOR THE USER AT COMPILE TIME. XEROX RPG OPERATES AS A BACKGROUND
BATCH PROCESSOR ON THE HINIMUM SYSTEM CONFIGURATIONS FOR THE BPM, UTS AND CP-V OPERATING SYSTEMS ON ANY
SIGMA 5, 6, 7, 8 OR 9 COMPUTER. IT REQUIRES 12K HORDS OF CORE FOR COMPILATION OF USER PROGRAMS. USER
PROGRAMS HRITTEN IN THE RPG II LANGUAGE MAY NOT COMPILE ON THIS PROCESSOR DEPENDING ON THE LANGUAGE FORMS USED.

706433

SIGMA 6/7/9

YEROX UTS/EASY

AUTHOR: XEROX

ABSTRACT:

EASY CONTAINS A SUBSET OF THE EXECUTIVE-LEVEL TERMINAL PROTOCOL AVAILABLE UNDER THE GE MARK 11 SYSTEM.

IT PROVIDES AN EASY TO LEARN AND SIMPLE INTERFACE BETHEEN UTS AND BASIC OR FLAG.

INTERIES: THIS PROGRAM HILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE Hain program is Hritten in Symbol. Easy operates as a command processor under UTS. It requires flag and BASIC TO BE PRESENT.

REPRINT 75.02

PAGE 14 - 01/31/75

SIGMA 6-9 AUTHOR: OX CORPORATION 706434 XEROX APL

ABSTRACT:
XEROX'S IMPLEMENTATION OF IVERSON'S IA PROGRAMMING LANGUAGE, A COMPATIBLE SUPERSET OF APL/3801.

COMMENTS: NORMAL OPERATION IS AS AN ON-LINE PROCESSOR VIA AN APL (IBM 2741, DATEL 30, ECT.) TERMINAL. MAY ALSO B OPERATED VIA MODEL 33 TELETYPE OR IN BATCH MODE USING MNEMONIC SUBSTITUTES FOR SPECIAL APL CHARACTERS.

706436 SIGMA 6-9 ON-LINE COMPUTER CENTER SUBSYSTEM CCS

AUTHOR: XEROX ABSTRACT:

CCS IS AN INFORMATION MANAGEMENT SYSTEM WHICH PROVIDES EASILY ACCESSED AND MAINTAINED DATA ON ALL MAJOR PHASE OF COMPUTER CENTER UTILIZATION FOR THE CENTERS PERSONNEL, AS HELL AS ITS USERS.

THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS APPLICATIONS PROGRAM (SYSTEM). I LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL. THIS SYSTEM IS AVAILABLE ON A CONTROLLED RELEASE BASIS. DISTRIBUTION BY THE SOFTMARE LIBRARY REQUIRES AN APPROVED FIELD REQUEST.

706443 SIGMA 5-9 COPY PROGRAM HAG TAPE TO DISK .

AUTHOR: XEROX ABSTRACT:

PROGRAM COPIES THE MAG TAPE LIBRARY FROM 9 TRACK MAG TAPE TO A DISK DRIVE. NOT FOR USE WITH RAD. AFTER COPYING, A VERIFY PASS IS MADE. THE LIBRARY LOADS AND EXECUTES FROM THEE DISK EXACTLY AS FROM THE MAG TAPE.

THIS PROGRAM HILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN SYMBOL, XSYMBOL AND METASYMBOL. SAME RESTRICTIONS AS OPERATING THE MAG TAPE LIBRARY FROM TAPE.

SIGMA 5-9 HETA-SYMBOL PROCEDURE DECK FOR SCU 706450

AUTHOR: XEROX, M.T.C. ABSTRACT:

THE PROCEDURE DECK FOR THE SYSTEM CONTROL UNIT (SCU) PROVIDES AN ASSEMBLER FACILITY FOR THE SCU Programmer the functions and features of meta-symbol are thus available to the scu programmer.

THE PROCEDURES ARE USED HITH META-SYMBOL AND THEREFORE REQUIRE A BPM OR UTS SYSTEM.

706459 SIOMA 5-9 XEROX ASSEMBLY PROGRAM (AP)

AUTHOR: XEROX CORPORATION

ABSTRACT:

XEROX ASSEMBLY PROGRAM (AP) IS A HIGH SPEED, LOH CORE ASSEMBLER HITH MOST OF THE FEATURES OF META-SYMBOL.

COMMENTS:

THIS PROGRAM WILL RUN UNDER ROM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE

MAIN PROGRAM IS HRITTEN IN AP.

RELEASE BOD CONTAINS MAJOR ENHANCEMENTS TO NEARLY MATCH CAPABILITIES OF META-SYMBOL IN LESS CORE AND GREATER SPEED. THIS VERSION IS SLIGHTLY LARGER THAN AP-A01, BUT STILL RUNS IN MINIMUM RBM CONFIGURATION. AP-BOO SPEED IS THE SAME AS AP-A01.

SIGHA 6/7/9 INTERACTIVE DATABASE PROCESSOR (IDP) 706466

AUTHOR: XEROX CORPORATION ABSTRACT:

BSIMACT:

IDP IS AN INTERACTIVE SHARED PROCESSOR WHICH PROVIDES A CONVENIENT AND POMERFUL TOOL FOR ACCESSING

EXTENDED DATA MANAGEMENT SYSTEM (EDMS) DATABASES. IT PROVIDES BOTH QUERY AND REPORT GENERATION

CAPABILITIES. THE IDP LANGUAGE CONSISTS OF A SET OF SIMPLE BUT POMERFUL COMMANDS WHICH RESULT IN THE

EFFICIENT RETRIEVAL OF DATA AND FORMATTING OF REPORTS. CAPABILITY IS ALSO PROVIDED FOR THE SORTING OF

REPORTS AND THE ACCUMULATION OF COUNTS AND TOTALS. COMMENTS:

THIS PROGRAM HILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS COMMERCIAL PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS MRITTEN IN METASYMBOL.

1DP IS AN (N-LINE PROCESSOR. NO PROVISIONS HAVE BEEN MADE FOR BATCH PROCESSING. 1DP QUERIES A
SUBSCHEMA BUILT HITH A FILE DEFINITION PROCESSOR (FDP) HITH ALL TECHNICAL BULLETINS TO DATE. SUCH AN
FDP IS INCLUDED IN THIS RELEASE TAPE. THE DATA BASE MANAGER (DBM) LIBRARIES MUST BE UPDATED.

SIGMA 6-9/550/560 SORT PERFORMANCE JOB STREAM FOR CP-V 706495

AUTHOR: XEROX CORPORATION ABSTRACT:

THIS IS A SELF CONTAINED SERIES OF 13 JOBS THAT CREATES A FILE TO BE USED BY SIX RANDOM SORTS AND THEN BY SIX SEQUENTIAL SORTS. THIS JOB STREAM ALLOWS USERS TO ACQUAINT THEMSELVES WITH THE RANDOM SORT.

THIS PROGRAM HILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS GROUP OF JOB DECKS. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN JCL. This product references 708102-E00.

SIGMA 6-9/550/560 EDMS RESTRUCTURING PROCESSOR (DMSREST) 706498 AUTHOR: XEROX CORPORATION

AUTHORIZENUE COMPONENTS.

AUSTRACT:

DMSREST IS A SELF-MODIFYING SYSTEM HHICH PROVIDES A SOLUTION TO THE PROBLEM OF DATABASE SPACE ALLOCATION
BY PERMITTING A USER TO EXPAND, OR CONTRACT, AN EXISTING DATABASE AS HIS REQUIREMENTS CHANGE. THROUGH
THIS HECHANISM, A DATABASE MAY BE BUILT HITH MINOR CONCERN FOR EXPANSION. ONLY THAT AMOUNT OF SPACE
NEEDED IN THE SHORT TERM MUST BE ALLOCATED. HHEN THE DATABASE FILLS UP, IT MAY AUTOMATICALLY BE
EXPANDED BY DMSREST. THE PROCESSOR HILL ADDITIONALLY PERMIT CHANGES TO SOME ACCESS MONITORING AND
CONTROL ATTRIBUTES OF THE EXISTING DATABASE.

THIS PROGRAM WILL RUN UNDER CP-Y OPERATING SYSTEM. PROGRAM TYPE IS COMMERCIAL PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

00 SIGMA 6-9/550/560 AUTHOR:XEROX CORPORATION CONTROL PROGRAM FIVE CP-V

SIGNA B-97/300/300 CONTROL PROGRAM FIVE CP-V
AUTHOR:XEROX CORPORATION
ABSTRACT:

CP-V IS A MULTI-USE O/S THAT PERMITS ON-LINE T.S., MULTI-PROGRAMMED B.P., REAL-TIME PROCESSING, REMOTE PROCESSING (RBT, IRBT, 2780, CP-V TO CP-V) AND TERM JOB ENTRY. IT HAS FILE MGT FACILITIES FOR SEQ, KEY INDEXED, AND DIRECT (RANDOM) FILES ON RAD, DISK OR MAG TAPE. FILES ARE PROTECTED BY PASSMORD AND/OR ACCESS DESIGNATION. CP-V IS INTEGRATED SO THAT FILES CREATED BY PROGRAMS RUNNING ON-LINE MAY BE ACCESSED BY THE SAME OR OTHER PROGRAMS RUNNING IN BATCH. SYMBIONT SPOOLING BUFFERS ON RAD OR PACK THE I/O PERIPHERAL CARD EQUIPMENT, PRINTERS, RBTS, AND IRBTS. TERMINAL USERS MAY CREATE, MODIFY, COMPILE, EXECUTE, AND SYMBOLICALLY DEBUG PROGRAMS ON-LINE AND MAY SUBMIT TASKS TO BATCH. ANY PROGRAM MAY BE RUN IN EITHER ON-LINE, BATCH OR GHOST MODE. HEMORY MAPPING ALLOHS REENTRANT PROCESSORS TO BE SHARED ANDMO ON-LINE AND BATCH USERS. SHARED PROCESSORS MAY BE EASILY ADDED. MAP ACCESS CONTROLS AND HRITE LOCKS PROTECT THE SYSTEM FROM THE USERS AND THE USER FROM ONE ANOTHER. THROUGH THE MAP, THE FULL VIRTUAL ADDRESS RANGE IS ACCESSIBLE FOR THE EXECUTIVE, I/O BUFFERING, SHARED LIB AND PROCESSORS, AND USER PROGRAMS ON MACHINES HITH LESS THAN MAX MEMORY AND PROVIDES FOR MULTIPLE USER PROGRAMS IN CORE. MULTIPLE VISE PROGRAMS IN CORE.

MULTI-LEVEL QUEUE SCHEDULING FOR EXECUTION AND SHAPPING ASSURES RAPID RESPONSE AND OVERLAP OF COMPUTATION WITH FILE AND SHAP I/O. INSTALLATION MOT FACILITIES INCLUDE PERFORMANCE INSTRUMENTATION AND CONTROLS FOR TUNING THE SYSTEM TO MOST EFFICIENT OPERATION. CONTINUOUS OPERATION IS MAINTAINED BY AUTOMATIC DEVICE ERROR DETECTION, RÉPORTING, AND RECOVERY. SYSTEM RECOVERY INCLUDES AUTO FAILUME ANALYSIS AND MAINTAINS INTEGRITY OF USER FILES.

COMMENTS: COMMENTS:

- CP-V IS DELIVERED IN A PACKAGE WHICH INCLUDES:
 1. 2 SYSTEMS TAPES (-86) FOR A STD CONFIG, ONE FOR 7272/7270, THE OTHER FOR 7280/7275 SHAP DEVICE.
 2. A FULL SET OF USER AND OPERATIONS MANUALS FOR THE SYSTEM AND ITS PROCESSORS.
 3. A THO VOLUME TAPE SET (-28/48/88) CONTAINING SOURCE AND BINARY FILES FOR ALL CP-V MODULES, ALL STANDARD RELEASE LANGUAGE PROCESSORS AND THEIR LIBRARIES, AND A SET OF NON-STANDARD UTILITY PROGRAMS NEEDED TO GENERATE A CP-V OPERATING SYSTEM.
 4. A COMPRESSED LISTING TAPE SET (-58), IN THREE VOLUMES, FOR ALL CP-V MODULES.
 5. A TAPE (-78) CONTAINING A SET OF TEST CASES TO EXERCISE THE SYSTEM AND VERIFY PROPER OPERATIONS.

CONTROL PROGRAM FOR REAL-TIME (CP-R) . . UNDEFINED.

AUTHOR: XEROX CORPORATION

AUTHOR:XEROX CORPORATION

ABSTRACT:

THE XEROX CONTROL PROGRAM FOR REAL-TIME (CP-R) IS A MULTI-USE OPERATING SYSTEM HITH MULTI-PROGRAMMING REAL-TIME FOREGROUND SUPPORT CONCURRENT HITH REMOTE TERMINAL OPERATIONS AND BATCH BACKGROUND PROCESSING. CP-R IS A RAD/DISK-ORIENTED OPERATING SYSTEM THAT UTILIZES THE MEMORY MAP FEATURE OF XEROX 32-BIT COMPUTERS TO PROVIDE AN OPTIMUM MEMORY MANAGEMENT SCHEME FOR THE REAL-TIME AND BATCH USER. FOUR MODES OF PROCESSING ARE PROVIDED:

. MULTIPLE PRIMARY REAL-TIME TASKS (RESIDENT, UNMAPPED, HARDMARE SCHEDULED)

. MULTIPLE SECONDARY REAL-TIME TASKS (RESIDENT, UNMAPPED, HARDMARE SCHEDULED)

. MULTIPLE ON-LINE REMOTE TERMINAL OPERATIONS

. BACKGROUND BATCH PROCESSING (FROM A SINGLE, SERIAL BATCH STREAM).

CP-R MONITOR SERVICES OPERATE EITHER MAPPED ON UNMAPPED, DEPENDING ON THE MODE OF THE CALLING TASK. ALL SERVICES ARE COMPLETELY INTERRUPT REENTRANT HITH A RESPONSE TIME OF ABOUT 100 MICROSECONDS, AND ALL SERVICES. CARD READER AND LINE PRIMARY OR SECONDARY TASKS. BACKGROUND IS LIMITED TO NON-PRIVILEGED SERVICES. CARD READER AND LINE PRIMARY OR SECONDARY TASKS. BACKGROUND IS LIMITED TO NON-PRIVILEGED SERVICES. CARD READER AND LINE PRIMARY OR SECONDARY TASKS. BACKGROUND IS LIMITED TO NON-PRIVILEGED SERVICES. CARD READER AND LINE PRIMARY OR SECONDARY TASKS. BACKGROUND IS LIMITED TO RON-PRIVILEGED SERVICES. CARD READER AND LINE PRIMARY SYSTEM, HITH BOTH TEMPORARY AND PERMANENT FILES, OFFERS A CHOICE OF RANDOM OR SEQUENTIAL ACCESS. FILE ACCESSES ARE VERY FAST, SINCE ALL FILE POINTERS ARE CORE RESIDENT ON OPEN FILES. EXTENSIVE UTILITY SERVICES ARE AVAILABLE UNDER CP-R. ERROR LOGGING AND OTHER RELIABILITY FEATURES ARE PROVIDED. CP-R IS BASED ON THE SUCCESSFUL RBM OPERATING SYSTEM.

THIS PROGRAM HILL RUN UNDER CP-R OPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BASE LANGUAGE THIS PROGRAM HILL RUN UNDER CP-R OPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BY MAIN PROGRAM IS HRITTEN IN AP.

CP-R IS HRITTEN IN AP AND IS DELIVERED IN THE FOLLOHING PACKAGE:

A BINARY TAPE (-85/88) CAPABLE OF SYSGENING ON ANY EQUIPMENT CONFIGURATION.

A BINARY TAPE INCLUDES AP, SYSTEM CPR, AND A TEST PROGRAM (-78).

A COMPRESSED TAPE (-45/48) INCLUDING ALL CP-R MODULES AND MAY BE ASSEMBLED WITH AP.

A DESCRIPTION OF CP-R (-11) AND HOW TO TAILOR IT TO USER'S SPECIFIC NEEDS.

A FULL SET OF USER, REFERENCE, AND OPERATION MANUALS.

SIGMA 5-9/550/560 AUTHOR:XEROX CORPORATION UNLABELED SOFTHARE SUPPORT TAPE (SST)

ABSTRACT:
THE SST TAPE CONTAINS MAINTENANCE RELEASES OF 16 AND 32 BIT RBM, CP-R AND THEIR ASSOCIATED LANGUAGE
PROCESSORS. FOR EACH SUCH PRODUCT, THERE IS A CORRESPONDING INFORMATION FILE THAT CONTAINS A LIST OF
ALL SIDRS CLOSED SUBSEQUENT TO THE LAST MAJOR RELEASE AS HELL AS OTHER INFORMATION PERTINENT TO THAT
PRODUCT. WHERE APPROPRIATE, THERE IS A TEST CASE THAT CAN BE USED TO INSURE A SUCCESSFUL LOAD.
PRODUCTS WHOSE SOURCE IS INCLUDED AS AN ELEMENT IN THE MAJOR RELEASE WILL HAVE AN ADDITIONAL FILE

CONTAINING SI UPDATES.
THE SST TAPE IS MAINTAINED BY FIELD ENGINEERING SOFTHARE SUPPORT. THE SST DISTRIBUTION 18 NORMALLY LIMITED TO XEROX FIELD ENGINEERING OFFICES.

880830 CONTINUED ON FOLLOWING PAGE

UNLABELED SOFTHARE SUPPORT TAPE (SST)

(CONTINUED)

COMMENTS:

THIS PROGRAM HILL RUN UNDER RBM AND CP-R OPERATING SYSTEMS. PROGRAM TYPE IS MISC.
THIS PRODUCT IS CURRENTLY PART OF THE 16-BIT SST. THE SST CONTAINS MONITOR MODULES FOR 32-BIT RBM AND
CP-R AS HELL AS SOME OF THEIR LANGUAGE PROCESSORS.

880832 SIGMA 5-8/550/560 LABELED SOFTHARE SUPPORT TAPE (SST)
AUTHOR:XEROX CORPORATION
ABSTRACT:
THE SST TAPE CONTAINS PATCHES TO BPM/BTM AND CP-V AS HELL AS MAINTENANCE RELEASES OF SOME LANGUAGE
PROCESSORS. THESE PATCHES MAY BE IN THE FORM OF GENMDS, SI UPDATES, OR PATCH CORRECTIONS AS NECESSARY.
ADDITIONAL FILES MAY BE MADE AVAILABLE AS NEEDED IN ORDER TO PROVIDE ADEQUATE SYSTEM SUPPORT.
THE SST TAPE IS MAINTAINED BY FIELD ENGINEERING SOFTHARE SUPPORT. THE SST DISTRIBUTION IS LIMITED TO
XEROX FIELD ENGINEERING OFFICES.

COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTM AND CP-V OPERATING SYSTEMS. PROGRAM TYPE IS HISC.
THE FILE INFO.SNIX CONTAINS INFORMATION RELATIVE TO THE TAPES CONTENTS AND UPDATES. THE FILE FILES.SNIX CONTAINS NAMES OF ALL FILES ON THE SST AS HELL AS A BRIEF DESCRIPTION OF EACH.

704060 SIGMA 5/7 CALCOMP PLOTTING SUBROUTINE (PLOT)

AUTHOR: XEROX ABSTRACT:

TO PROVIDE A MEANS OF DRIVING THE CALCOMP PLOTTER FROM ITS CURRENT PEN POSITION TO THE SPECIFIED INPUT POSITION.

704081 SIGMA 5/7 CALCOMP PLOTTER LABELLING SUBR (LABEL)

AUTHOR: XEROX

ABSTRACT:

THIS ROUTINE IS USED TO ANNOTATE PLOTS ON THE CALCOMP PLOTTER. IT HAS 28 ALPHABETIC, 10 NUMERIC AND 10 SPECIAL CHARACTERS. IT ALLOHS PLACING OF THE ANNOTATION AT ANY POSITION ON THE PLOT AND AT ANY ROTATION. IT ALLOHS PLOTTING OF CHARACTERS OF ANY SIZE FROM .07 INCHES UP.

704341 SIGMA 5/7 AUTHOR: XEROK

PURDUE SPECIAL ANALOG INPUT SUBSYSTEM

ABSTRACT:

THIS PROGRAM WILL DEMONSTRATE THE CAPABILITIES OF THE PURDUE SIGMA 5 SPECIAL ANALOG INPUT SUBSYSTEM FOR MASS SPECTROMETER ANALYSIS.

COMMENTS:

REQUIRES XOS SIGMA 5/7 STAND-ALONE LOADER WITH I/O HANDLERS CAT. NO. 704142-C FOR LOADING AND OPERATOR COMMUNICATION

704448

B SIGHA 5/7 AUTHOR: XEROX

CHECKOUT AID-CHECKER

ABSTRACT:

CORRECTIONS 2) DUMPS 3) SNAPSHOTS 4) TRACE BRANCH COMMENTS:

THE APPROXIMATE SIZE OF CHECKER IS 900 HORDS. CHECKER HILL OPERATE HITH THE FREE STANDING I/O PACKAGE, THE BASIC CONTROL MONITOR, AND THE BATCH PROCESSING MONITOR.

704596

SIGNA 5/7

POHER FAIL-SAFE UNDER BCM

AUTHOR: XEROX

ARSTRACT:

ASTRACT:

POHER FAIL-SAFE RESPONDS TO THE POHER OFF, POHER-ON INTERRUPTS AND IS DESIGNED TO RECOVER THE MONITOR

SHOULD A POHER FAILURE OCCUR. WHEN POHER IS TURNED OFF, THE CURRENT REGISTER BLOCK IS SAVED, ACTIVE I/O
IS HALTED AND A BRANCH TO USER CODE IS MADE (IF PRESENT). WHEN POHER RETURNS, MESSAGES ARE TYPED
INFORMING THE OPERATOR OF THE POHER FAILURE AND THE STATE OF THE DEVICES. THE WRITE LOCKS ARE RESTORED.

RECOVERY FOR THE DISC IS INITIATED. A BRANCH TO USER CODE IS MADE (IF PRESENT). THE REGISTERS AND PROGRAM STATUS DOUBLEHORD ARE RESTORED.

704965

SIGHA 7

MARTIN-CAGE SIGMA 7 CPU EXERCISER

AUTHOR: XEROX

ABSTRACT:

TO EXERCISE, HITHIN A 50 MILLISECOND TIME INTERVAL, THE NON-PRIVILEGED SIGMA 7 INSTRUCTION SET. COMMENTS:

THE PROGRAM IS AVAILABLE, UNDER THE BATCH MONITOR, AS A SUBROUTINE CALLED AT LOAD TIME FROM BULK SECONDARY STORAGE. CORE RESIDENCY IS 2K DECIMAL HORDS. CONFIGURATION REQUIRED IS ANY SIGMA 7.

705280

SIGHA 5/7

REAL-TIME BATCH MONITOR--1 (RBH-1)

AUTHOR: XEROX ARSTRACT:

THIS SYSTEM IS A RAD-ORIENTED MODIFICATION OF THE SIGMA 5/7 BCM (BASIC CONTROL MONITOR), CATALOG NO. 704144. IT PROVIDES THE SAME SERVICES AS BCM, HOHEVER, IT CREATES AND OPERATES IN A RAD-ORIENTED ENVIRONMENT. SEE PAL DESCRIPTION OF BCM(704144) FOR DETAILS. COMMENTS:

CONFIGURATION: SIGMA 5/7 BCM CONFIGURATION PLUS ANY MODEL RAD. HINIMUM 16K MEMORY. THIS COVER CATALOG COVERS 705281,705283705287. THE SOURCE FOR CN 705286 AND 705287 IS AVAILABLE ONLY BY UPDATING ASSEMBLY PARAMETERS CONTAINED IN 704137 (BCM RELOCATING LOADER). SEE PAL COMMENTS UNDER 704137 FOR DETAILS.

705296

SIGHA 5/7

FORTRAN IV COMPILER DIAGNOSTICS DEMO

AUTHOR: XEROX

ABSTRACT:

THIS IS A FORTRAN IV SOURCE DECK THAT CONTAINS HANY DIFFERENT KINDS OF ERRORS THAT CAN BE DETECTED BY THE COMPILER. COMMENTS:

NSS MENO 69-24-03 INCLUDES A LISTING AND DESCRIPTION OF THIS PROGRAM, AS COMPILED BY THE SIGMA 5/7 FORTRAN IV COMPILER.

705366

SIGMA 5/7

MAG TAPE COPY AND VERIFY (BPM) UTILITY

AUTHOR: XEROX CORPORATION

ABSTRACT:

PROVIDES A MEANS OF COPYING AND VERIFYING ALL TYPES OF MAGNETIC TAPES, INCLUDING THE BPM SYSTEM TAPES. IT HILL COPY, VERIFY, COPY AND VERIFY LABELED OR UNLABELED MAGNETIC TAPE OR A COMBINATION THEREOF. IF LABELED TAPE IS BEING MANDLED, EACH LABEL HILL BE PRINTED OUT.

PAM-PDM + ADC ACCEPTANCE TESTS FOR LTV

AUTHOR: XEROX

ABSTRACT:
THESE PROGRAMS DEMONSTRATE THE PROPER OPERATION OF THE PAM-PDM AND ADC SUBSYSTEMS OF THE LTV FLIGHT TEST
DATA PROCESSING SYSTEM.

COMMENTS:

THESE PROGRAMS UTILIZE THE BPM IN THE NON-RESIDENT FOREGROUND MODE.

705380

LINE PRINTER PLOT SUBROUTINE

AUTHOR: XEROX

ABSTRACT:

PRINTAL!!
THIS PROGRAM IS A FORTRAN IV-H SUBROUTINE USED TO PLOT NUMERIC INFORMATION ON A STANDARD LINE PRINTER.
A PLOT OF ONE OR MORE SETS OF POINTS MAY BE OBTAINED ON A RECTANGULAR COORDINATE SYSTEM HITH THIS PROGRAM.

COMMENTS:

A COMPLETE AND A BRIEF HRITE-UP ON :LP PLOT: MAY BE OBTAINED FROM THE LIBRARY PROGRAM DESCRIPTION (705380-11).

705391

SIGHA 5/7

FORTRAN IV RUN-TIME DIAGNOSTIC DEMO

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM DEMONSTRATES SOME OF THE RUN-TIME DIAGNOSTICS GENERATED BY SIGMA 5/7 FORTRAN IV. IT CONSISTS OF A SOURCE PROGRAM AND THO DATA CARDS THAT ARE READ BY THE PROGRAM. THERE ARE NO COMPILE TIME

THE PROGRAM CAN BE BROKEN INTO THIRTEEN INDEPENDENT SECTIONS FOR RUNNING ON OTHER FORTRAN SYSTEMS. FOR FURTHER INFORMATION REFER TO THE PRINTED DESCRIPTION. COMMENTS:

SIGMA 5/7 705423

HAG TAPE/RAD COPY PROGRAM - UTILITY

AUTHOR: XEROX ABSTRACT:

STRACT:
THE COPY PROGRAM HILL COPY THE CONTENTS OF THE INPUT TAPE OR RAD ONTO THE SPECIFIED OUTPUT TAPE OR RAD.
COPY MAY BE USED TO REFORMAT A 9 OR 7 TRACK FREE FORM TAPE INTO A LABELED TAPE OR RAD FILE; OR TO
EXTRACT THE DATA PORTIONS OF LABEL TAPE OR RAD FILES AND PRODUCE A FREE FORM 9 OR 7 TRACK TAPE. COPY
ALSO HAS THE CAPABILITY TO COPY ONLY SPECIFIC RECORDS FROM THE INPUT FILES. COPY HILL NOT COMPACT INPUT
LABELED FILES INTO ONE OUTPUT LABELED FILE (I.E., A NAME PARAMETER CANNOT APPEAR IN BOTH THE INPUT AND
OUTPUT SPECIFICATIONS ON A REQUEST). HHEN COPYING A FREE FORM TAPE, COPY HILL TERMINATE UPON READING
THO CONSECUTIVE EOF'S IF THIS CONDITION OCCURS BEFORE THE NUMBER OF USER SPECIFIED FILES HAVE BEEN

COMMENTS: USAGE DETAILS MAY BE OBTAINED FROM THE DESCRIPTION PRINTED.

705425 AUTHOR: YEROX POSITION TAPE PROGRAM (POST)

STRACT:
THE POSITION TAPE PROGRAM (POST) HILL POSITION LABELED AND UNLABELED 7-TRACK AND 9-TRACK MAGNETIC TAPES
TO USER DESIGNATED LOCATIONS UNDER THE TAPE DRIVE READ/HRITE HEADS. IF THE REHIND OPTION (REM) 18
INDICATED, BOTH LABELED AND UNLABELED TAPES ARE REHOUND TO LOAD POINT AND ALL FURTHER POSITIONING 18
RELATIVE TO LOAD POINT. OTHERHISE, POSITIONING 18 RELATIVE TO THE POSITION OF THE TAPE AT EXECUTION.
LABELED TAPES MAY BE POSITIONED TO THE LABEL, THE BEGINNING OF FILE OR THE END OF FILE. UNLABELED TAPES
MAY BE POSITIONED A DESIGNATED NUMBER OF FILE MARKS FORMARD OR REVERSE AND THEN TO THE BEGINNING OR END
OF THE CURRENT FILE. BOTH LABELED AND UNLABELED TAPES MAY BE POSITIONED FORMARD OR REVERSE A DESIGNATED
NUMBER OF PHYSICAL RECORDS. ABSTRACT:

SIGMA 5/7

USAGE DETAILS MAY BE OBTAINED FROM THE DESCRIPTION PRINTED.

SIGMA 5/7 705426

DUMP/LIST PROGRAM - UTILITY

AUTHOR: XEROX ABSTRACT:

BSTRACT:
THE DUMP OPTION HILL DUMP IN HEXADECIMAL OR EBCDIC SELECTED HORDS OF SEQUENTIAL RECORDS OF RAD FILES.
LABELED AND UNLABELED 7 AND 9-TRACK MAGNETIC TAPES. ADDITIONALLY, FOR TAPES, DUMP HILL ATTEMPT TO
PROCESS :/O ERROR X'41' (IRRECOVERABLE READ ERROR) AND TO DETERMINE UNKNOWN ATTRIBUTES SUCH AS CORRECT
TAPE DRIVE AND FOR 7-TRACK TAPES, THE CORRECT DENSITY AND DATA HODE. THIS EFFORT IS ACCOMPLISHED MITH
THE ASSISTANCE OF THE OPERATOR VIA THE TYPEHRITER. UPON THE ESTABLISHMENT OF THE CORRECT ATTRIBUTES IF
NECESSARY, DUMP HILL PROCEED TO PERFORM THE SELECTED DUMP, INCLUDING IN THE LO DEVICE OUTPUT, ATTRIBUTE
INFORMATION AND HITH EACH DUMPED RECORD, A FILE AND RECORD COUNT AND THE NUMBER OF HORDS IN THE RECORD.
A SELECTED NUMBER OF SEQUENTIAL FILES MAY BE DUMPED. INCLUDED IN DUMP IS A LINE SPACING OPTION AND MORD
COUNT IN THE MARGIN OF THE OUTPUT. THE LIST OPTION HILL DEBLOCK TO USER FORMAT SPECIFICATIONS AND LIST
TAPES. ADDITIONALLY, FOR TAPES, LIST HILL ATTEMPT TO PROCESS I/O ERROR X'41' (IRRECOVERABLE READ ERROR)
AND TO DETERMINE UNKNOWN ATTRIBUTES SUCH AS CORRECT TAPE DRIVE AND FOR 7-TRACK TAPES, THE CORRECT
AND TO DETERMINE UNKNOWN ATTRIBUTES SUCH AS CORRECT TAPE DRIVE AND FOR 7-TRACK TAPES, THE CORRECT
DENSITY AND MODE. THIS EFFORT IS ACCOMPLISHED HITH THE ASSISTANCE OF THE OPERATOR VIA THE TYPEHRITER.

LIST HILL OUTPUT ON THE LO DEVICE ATTRIBUTE INFORMATION, AND HITH EACH LISTED RECORD, A FILE AND RECORD
COUNT AND THE NUMBER OF HORDS IN THE RECORD. A SELECTED NUMBER OF SEQUENTIAL FILES MAY BE LISTED.

INCLUDED IN LIST IS A LINE SPACING OPTION.

705531 SI SIGMA 5/7 AUTHOR: XDS, R PURDY GEM-1 GENERALIZED EVENT MEASUREMENT PROC AUTHOR: XUS, R FURLY
ABSTRACT:

THE GEM PROCESSOR IS A GENERALIZED DATA GATHERING SCEME DESIGNED TO ACCUMULATE AND DISPLAY SIGNA 5/7
SOFTHARE PERFORMANCE STATISTICS. IT PROVIDES THE CAPABILITY OF PERFORMING ANY TYPE OF SOFTHARE ANALYSIS
- SIMPLE OR COMPLEX. SEE THE PRINTED DESCRIPTION FOR FULL DETAILS. COMMENTS: GEM OPERATES UNDER BPM, BTM, UTS ENVIRONMENT. THE THE SMANNER FOR LAND AND ADDRESS. SIGMA 5/7 705655 SSS-SAS PCM TELEMETRY COMPILER AUTHOR: XEROX ABSTRACT: THE SSS-SAS PCM TELEMETRY COMPILER (STMC) IS A BACKGROUND PROGRAM OPERATING ON THE XDS SIGMA 5/7 UNDER THE BATCH PROCESSING MONITOR. STMC ALLOWS AN ENGINEER TO DESCRIBE A PCM FORMAT IN SYMBOLIC FORM WHICH HILL BE USED TO CONTROL DATA ACQUISITION AND DATA RETRIEVAL. STHE REQUIRES ABOM SYSTEM WITH ADEQUATE RAD STORAGE FOR THE TABLES IT GENERATE. IT ALSO REQUIRES THE SSS-BAS FOR TELEMETRY FRONT END AND THO MAGNETIC TAPES. 705656 SIGMA 5/7 PCH DATA ACQUISITION PROGRAM AUTHOR: SERVA
AUTHOR: SERVA
ABSTRACT:

THE PCH DATA ACQUISITION PROGRAM ACQUIRES DATA FROM THE PCH FRONT END AND OUTPUTS IT TO MAGNETIC TAPE.

THE ACQUISITION IS CONTROLLED BY INFORMATION GENERATED BY THE PCH TELEHETRY COMPILER. A BPM CONFIGURATION HITH THO MAGNETIC TAPES AND THE PCM FRONT, END IS REQUIRED. SIGMA 5/7 7530/7531-PLOTTING-PACKAGE 705657 AUTHOR: XEROX ABSTRACT: BSTRACT:
ENTRY POINTS FOR SYMBOL PROGRAMS ARE PROVIDED FOR MAXIMUM EFFICIENCY AND FLEXIBILITY. OTHER ENTRY
POINTS WHICH ARE COMPATIBLE HITH CALCOMP SOFTMARE, ARE PROVIDED FOR XDS FORTRAN IV AND COBOL PROGRAMS.
THIS GIVES SYMBOL, XDS FORTRAN IV AND COBOL PROGRAMS THE ABILITY TO DRAW LINES, MARK, POINTS (SCALED OR NGRAY, AND DRAW CHARACTERS).

DEBUG ROUTINE SIGMA 5/7 AUTHOR: XEROX

THE : CHAR: SUBROUTINE.

ABSTRACT:,

ABSTRACT:,

THIS ROUTINE ENABLES THE OPERATOR, VIA THE KEYBOARD PRINTER, TO DISPLAY AND/OR ENTER DATA INTO MEMORY

LOCATIONS, TO SEARCH MEMORY HITHIN DEFINED LIMITS FOR KNOHN DATA, TO ANALYZE AND EXECUTE INSTRUCTIONS AT

ANY MEMORY LOCATION, TO PATCH MEMORY FROM THE CARD READER, AND TO TRACE A PATH OF TRANSFER CONTROL. COMMENTS:

MORNI- MARE DRAW CHARACTERS 23 COMMEMORS STATE CHARACTER GENERATOR BY CODING A PATTERN AND REASSEMBLING SPECIAL CHARACTERS MAY BE ADDED TO THE GENERAL CHARACTER GENERATOR BY CODING A PATTERN AND REASSEMBLING

AT LOAD TIME, PROGRAM RELOCATES INTO LAST 348 DEC. LOCATIONS."

705669 SIGNA 5/7 DATA RETRIEVAL PACKAGE (DARP) AUTHOR: XEROX ABSTRACT:

THIS PROGRAM FUNCTIONS AS A FORTRAN-CALLABLE SUBROUTINE. IT PROVIDES A METHOD OF DATA RETRIEVAL FROM TAPES GENERATED BY THE ACQUISITION PROGRAM. THO ENTRY POINTS ARE PROVIDED: 1)SETUP 2)RETRIEVE. A SET OF UP TO 40 MEASUREMENTS MAY BE SPECIFIED IN THE CALL TO 'SETUP'. 'SETUP' THEN INITIALIZES RETRIEVE. A SUBSET OF THE MEASUREMENTS INCLUDED IN 'SETUP' IS THEN SPECIFIED IN 'RETRIEVE' AS HELL AS A BUFFER AREA AND TIME SLICE. MEASUREMENTS QUALIFYING HITHIN THE TIME SLICE ARE THEN PLACED IN THE USER'S BUFFER AREA BY THE SUBROUTINE. COMMENTS:

THE PROGRAM, INCLUDING INTERNAL BUFFERS OCCUPIES APPROXIMATELY 3K OF CORE AND OPERATES UNDER TIPM

705670 SIGMA 5 HESTINGHOUSE HYBRID EXECUTIVE LIBRARY

AUTHOR: XEROX

AUTHOR: XEROX
ABSTRACT:
THE, HYBRID EXECUTIVE CONSISTS OF A LARGE NUMBER OF SUBROUTINES WHICH PROVIDE THE USER CONTROL OF THE
HYBRID SYSTEM. THE SUBROUTINES ARE DESIGNED SO THAT THEY MAY BE CALLED FROM XDS FORTRAN IV PROGRAMS
UNDER BPM. THEY EXPECT A STANDARD XDS FORTRAN IV CALLING SEQUENCE.

THE HARDHARE REQUIREMENTS OF THIS SYSTEM ARE A 24K SIGMA 5 CONFIGURED TO RUN BPM AND A SPECIAL HYBRID Interface Hhich connects the sigma 5 to two adi ad/4 analog computers.

SIGMA 5/7 SIGNA ACCOUNTING SYSTEM SUMMARY PROCE. AUTHOR: XEROX CORPORATION ABSTRACT:

PSTRACT:

THE SIGMA ACCOUNTING SYSTEM PROCESSOR IS A PROGRAM DESIGNED TO EXECUTE AS A BACKGROUND PROCESSOR UNDER
CONTROL OF THE BATCH PROCESSING MONITOR (BPM)FOR SIGMA 5/7. THE PURPOSE OF THIS PROCESSOR IS TO ACCESS
THE BPM SYSTEM ACCOUNTING FILE(:LOG) AND GENERATE AN ORDERED LISTING OF BPM ACCOUNTING DATA. THE
PROCESSOR IS WRITTEN ENTIRELY IN XDS META-SYMBOL AND UTILIZES THE STANDARD BPM PROCEDURE CALLS FOR

705689 CONTINUED ON FOLLOHING PAGE

48" H.

705889

SIGNA ACCOUNTING SYSTEM SUMMARY PROCK. (CONTINUED)

HONITOR SERVICES. THE PROCESSOR CODE IS CONTAINED IN ONE CONTIQUOUS SEGMENT; THE BACKGROUND COME
RESIDENCY REQUIREMENT IS APPROXIMATELY 1857 (DECIMAL) HORDS OF MEMORY. THIS FIGURE INCLUDES ALL
NECESSARY DATA CONTROL BLOCKS AND RECORD BUFFER SPACE REQUIREMENTS.

OMMENTS:
THE PROCESSOR IS ASSEMBLED BY MBS META-SYMBOL INTO A RELOCATABLE OBJECT MODULE (ROM). THIS NOW IS THEN PROCESSED BY THE BPH OVERLAY LOADER TO PRODUCE THE EXECUTABLE LOAD MODULE. TYPICALLY THIS LOAD MODULE IS SAVED UNDER THE SYSTEM ACCOUNTING MECORD INPUT VIA THE FILOD DCB AND PRODUCES AN ORDERED ACCOUNTING MECORD INPUT VIA THE FILOD DCB AND PRODUCES AN ORDERED ACCOUNTING SHOWARD LISTING VIA MILD. ERROR COMMENTARY IS DISPLAYED VIA THE NICC AND MILD DCBS DEFAULT ASSIGNMENT OF THE IMPUT DCB IS TO THE BPH SYSTEM ACCOUNTING FILE (:LOO); MILD DEFAULTS TO THE LIME PRIMTER.

705715 SIGMA 5/7

RANDOH

AUTHOR: XEROX

BSTRACT:
SUBROUTINE RANDOM INTERFACES XOS FORTRAN-IV HITH THE KEVED-FILE CAPABILITY OF THE SPINSTN NOMETORS. THE
SUBROUTINE RANDOM INTERFACES XOS FORTRAN-IV HITH THE KEVED-FILE CAPABILITY OF THE SPINSTN NOMETORS. THE
KEYED FILES CREATED ARE HANDLED BY THE HONITOR IN EXACTLY THE SAME MAY AS ANY STHER KEVED FILES EMERY
THAT THE DCB'S ARE PRE-DEFINED SIN RANDOM) TO BEFIRAL TWOM FIRM AND DO NOT REQUIRE ASSIGN CONTROL CAMBO
BECAUSE OF THE FACT THAT THE DCB'S ARE USER DEFINED, THE SUBROUTINE RANDOM CANNOT BE LEASED INFO A
LIBRARY, BUT THIS RESTRICTION MAY BE REHOVED LATER. RANDOM MAY BE MAINTAINED, HONEVER, AS AN ELEMENT
FILE. RANDOM IS ENTIRELY COORD IN PROTECTION TYPE 1, AND USES A TEMP STORAGE AREA CALLED SAMED STYPE 62,

COMMENTS:
SEE NSS MEMO 89-24-118. FILES MAY BE OPENED IN SCRATCH OR IN UPDATE MODE, BUT TO UPDATE A FILE, IT MIST MAY BEEN CLOSED HITH THE SAVE OPTION (Q.V.)

705726 SIGHA 5/7

COC HANDLER FOR XEROX HESSAGE SHITCH SYS

AUTHOR: XEROX

ABSTRACT:
CHARACTER ORIENTED COMMUNICATION (COC) HANDLER. DEVELOPED BY XDS FOR MERCH TO PROVIDE COC SMETCH
INTERFACE TO REHOTE TERMINALS WIA A SINGLE 7811 COMMUNICATIONS CONTROLLER.

THE COC ROUTINES CONSIST OF THREE USER CALLABLE PROGRAMS TO PROVIDE THE FOLLOWING FUNCTIONS. A. INITIALIZE, B. READ, HRITE C. TERMINATE. THE INITIALIZE FUNCTION PERFORMS COC SYSTEM START-UP. THE READ, HRITE FUNCTION INITIATES CHAR INPUT FROM OR OUTPUT TO A USER SPECIFIED SWIFFER ON A WERR SPECIFIED SHIFFER ON A WERR SPECIFIED WHITE HERO PROVIDED BY THE USER CONSISTS OF LINE CONTROL INFO AND A SET OF THREE ISCO FORMATICS HORDS HAILON DEFINE THE ACTION YOU BE DONE. THE TERMINATE FUNCTION PERFORMS COC SYSTEM SHUF-BRAIN. INTERRUPT SERVICE ROUTINES PERFORM COC I/O INTERRUPT SERVICING, CHARACTER TRANSLATIONS. SPECIAL CHARACTER ACTIONS, HESSAGE ASSEMBLY, AND LINE CONTROL FUNCTIONS.

705736 \$19MA 5/7

MEMORY DIAGNOSTIC-FALLY LEGATOR

AUTHOR: XEROX

ABSTRACT:
THIS PROGRAM HILL LOCATE AND ISOLATE MALFUNCTIONS IN THE SIGNA 5/7 NEW MEMORY TO MODULE LEVEL. SHETCHES.
DRIVERS, AND BASIC MEMORY UNIT OF THE MEMORY SYSTEM ARE BIAGNOSED BY THIS PROGRAM.

COMMENTS:
THE PROGRAM HILL REQUIRE AN BK OF MEMORY FUNCTIONING CORRECTLY. BANKS A OF THE MEMORY MUST BE SET TO AND
EVEN NUMBERS HHILE THE CORRESPONDING BANK B OF A SIVE SHITTEN MUST BE SET TO THE MEXT HEGMER GOS NUMBER.
ASR/KSR OR LINE PRINTER IS OPTEONAL BUT DESIRABLE.

705750 SIGNA 5/7

ONE CARD CORE DUMP - UTILITY

AUTHOR: IXDS

ABSTRACT:
A ONE CARD STAND ALONE PROGRAM TO DUMP CORE ONTO MAGNETIC TAPE. THE LENGTH OF THE RECORDS IS 582 MORES.

705751 SIGHA 5/7

KEYED CORE DUMP - UTILITY

AUTHOR::XDS

CREATE A KEYED CORE DUMP FILE WITH THE KEY AS THE FIRST CORE LOCATION OF EACH PAGE OF COME.

705757 SIGHA 5/7

PRINT DUMP

AUTHOR: XEROX

ABSTRACT:
LIST A PREVIOUSLY CREATED FILE-MHICH CONTAINS A DUMP OF COME HENDRY. THE SIGNA 5/7 ONE CARD COME BUMP
PROGRAM CAN BE USED TO CREATE THE DUMP FILE.

705762

FORTRAN IV ALLOCATION DIAGNOSTICS DEMO

AUTHOR: XEROX

SIGHA 5/7

ABSTRACT:
THIS IS A FORTRAN IV SOURCE DECK THAT CONTAINS A VARIETY OF ERRORS IN THE USE OF COMMON AND EMPLYALENCE.

OWENTS:
NSS MEMO 69-20-33 INCLUDES A LISTING AND DESCRIPTION OF THIS PROGRAM, AS COMPILED BY THE SHAME 8/7
FORTRAN IV COMPILER.

705773 SIGMA 5/7

BIM MESSAGE SAVER

AUTHOR: XEROX ABSTRACT:

ISTRACT:

THE BTM MESSAGE SAVER PROCESSOR ALLOHS BTM OPERATORS TO CREATE OR ADD TO A DESIGNATED, FILE, MESSAGES OF IMPORTANCE TO ON-LINE USERS. THIS FILE CAN BE ACCESSED AND LISTED BY THE ON-LINE USER IN ORDER TO FIND OUT PERTINENT INFORMATION CONCERNING THE SYSTEM. THE MESSAGE SAVER RUNS IN THE BACKGROUND, REQUIRING THAT THE OPERATORS USE THE 'OC' TO INPUT DATA.

COMMENTS:
MINIMUM SYSTEM REQUIREMENTS: ANY BPM/BTM SYSTEM.

705775 SIGMA 5/7

SNEAK-ON MEMORY PRINT

AUTHOR: XEROX ABSTRACT:

THIS PROGRAM DUMPS MEMORY TO THE LINE PRINTER HITH A MINIMAL LOSS OF DATA DUE TO ITS OHN RESIDENCY. IT OPERATES AS MULTI-OVERLAYS FROM THE BOOTSTRAP AREA THEREFORE IT ONLY DESTROYS REGISTER ZERO AND CORE FROM HEX 2A-3F. THE PROGRAM HILL OPERATE IN ANY SIGMA 5/7 HITH CORE SIZES 2K-128K. AS SUPPLIED THE PROGRAM PRINTS 35 LINES PER PAGE ON PRINTER BOOZ THIS CAN BE CHANGED EASILY BY ALTERING I SOURCE STATEMENT FOR THE PRINTER ADDRESS AND ONE FOR LINES PER PAGE. REASSEMBLE HITH META-SYMBOL ONLY. COMMENTS:

THIS PROGRAM DOES NOT SUPPORT THE LOW SPEED PRINTER AS THERE IS NOT SUFFICIENT MEMORY SPACE IN THE OVERLAY AREA TO PERMIT THE REQUIRED DATA CHAINING.

705781 SIGNA 5-9 AUTHOR: XEROX CORPORATION

RBM MACRO-SYMBOL ASSEMBLER

ABSTRACT:

THIS TITLE COVERS THE FIVE ASSEMBLIES IN THE XEROX SIGMA 5-9 MACRO-SYMBOL ASSEMBLER. THE ASSEMBLIG GENERATE A RODT SEGMENT AND FOUR OVERLAY SEGMENTS. THE MACRO-SYMBOL ASSEMBLER READS SOURCE AND/OR COMPRESSED INPUT AND GENERATES SIGMA 5-9 STANDARD COMPRESSED AND/OR BINARY OUTPUT. THE ASSEMBLIES COMMENTS:

THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE HAIN PROGRAM IS HRITTEN IN MACRO-SYMBOL. THE SOURCE LANGUAGE OF THE ASSEMBLER, IS MACRO-SYMBOL. THE ASSEMBLER IN OVERLAY FORM, REQUIRES BK, WHICH INCLUDES ALL NECESSARY MONITOR CONTROL BLOCKS AND DOB'S. BASE LANGUAGE

705784

SIGMA 5/7 RUN-TIME TRACE

AUTHOR: XEROX

ABSTRACT:

THIS SUBROUTINE IS CALLED DURING EXECUTION OF A USER'S PROGRAM TO LIST (USING F:108 DCB) THE OPERATION OF THE USER'S PROGRAM AT THE HACHINE LANGUAGE LEVEL. CALLING SEQUENCES ARE COMPATABLE HITH FORTRAM, COBOL AND ASSEMBLY LANGUAGE. THE TRACE LISTING INCLUDES - INSTRUCTION LOCATION AND CONTENTS, MNEMONIC EFFECTIVE ADDRESS AND CONTENTS, CONDITION CODES AND GENERAL REGISTER CONTENTS. OPTIONAL CALLS ALLOW SUPPRESSING OR ALLOHING OF LISTING. 2 1 1 N COMMENTS:

UNITARIES UTILIZES STANDARD I/O SUBROUTINES IN THE FORTRAN IV RUNTIME LIBRARY AND SO THEY MUST BE RESIDENT.
FOR MON-FORTRAN PROGRAMS, BETHEEN 2-3 THOUSAND EXTRA HORDS HILL BE REQUIRED FOR THE TRACE PROGRAM AND
THE FORTRAN LIBRARY ROUTINES. FOR FORTRAN PROGRAMS, IT IS PROBABLE THAT ONLY THE EXTRA CORE FOR THE
TRÂCE PROGRAM HILL BE ADDED TO THE USER'S.
** NSS MEMO 69-20-30 REV B CONTAINS A DETAILED DESCRIPTION OF THE TRACE PROGRAM **

705785 SIGMA 5/7 AUTHOR: XEROX ABSTRACT:

MACE

48 834 IV MACE IS AN ON-LINE BTH PROGRAM HHOSE PURPOSE IS TO AID THE DIAGNOSIS OF SYSTEM FAILURES, IT DISPLAYS UNDER USER CONTROL THE CONTENTS OF SELECTED HORDS FROM A SPECIAL CORE DUMP FILE OR FROM THE CURRENT CORE STORAGE, AND PERFORMS SEVERAL RELATED UTILITY FUNCTIONS.

SIGHA'S 705818 SIGH

NASA/BALL HODEL XPS-95 HÁNDLER

THIS HANDLER ALLOWS USERS TO ADDRESS THE XPS-95 HITHOUT CONCERNING HIMSELF WITH THE FORMAT OF DIO DATA HORD, THE WRITE-DIRECT INSTRUCTION, OR THE SETTING UP OF INTERRUPT XPSD'S.

TOTALIS: CONFIGURATION REQUIREMENT: SIGMA 5 HITH MODEL XPS-95 CYCLIC INTERFACE UNIT, MODELS 7930/7931 DIGITAL 1/0 ADAPTOR, AND A FRONT END PCM DATA INPUT UNIT.

997 . N

705843 SIGMA 5 NASA/BALL MODEL XPS-95 DEMO PROGRAM

AUTHOR: XEROX ABSTRACT:

THE PURPOSE OF THIS PROGRAM IS TO DEHONSTRATE THE OPERATION OF HODEL XPS-95 IN A SIGNALS COMPUTER SYSTEM COMMENTS:

DHMENTS: THIS PROGRAM IS WRITTEN SPECIFICALLY FOR THE NASA/BALL SIGMA 5 SYSTEM WHICH INCLUDES A FRONT END PCM DATA INPUT UNIT. ITS MINIMUM CONFIGURATION REQUIRES A SIGMA 5 COMPUTER WITH TYPEWRITER; LINE-PRINTER, MODEL XPS-95 CYCLIC INTERLACE UNIT, DIGITAL I/O ADAPTOR MODELS 7930/7931, AND A FRONT END PCH SATA INPUT

20°7, 100

SIGMA 5/7

XDS SNOBOL4

AUTHOR: XEROX

ABSTRACT:

THIS TITLE AND COVER NUMBER COVERS ALL ELEMENTS OF THE XDS SMOBOLY LANGUAGE, NAMELY THE INTERPRETIVE COMINTERPRETIVE INSTRUCTIONS (SMOPROC), THE SYNTAX TABLES FOR THE LANGUAGE (SYNTAX), AND THE RUNTIME LIBRARY ROUTINES USED FOR 1/0 (SMOLIB).

THE DEFINITIVE LANGUAGE REFERENCE MANUAL IS ITHE SNOBOL'S PROGRAMMING LANGUAGE! BY GRISHOLD, POAGE AND POLONSKY, PUBLISHED BY PRENTICE-HALL.

705852

S10MA 5/7

GRAPHIC DISPLAY TO PLOTTER COPY

AUTHOR: XEROX

ARSTRACT:

THIS SUBROUTINE PRODUCES A PLOTTED COPY OF ANY DATA DISPLAYED ON A 7500 GRAPHIC DISPLAY UNIT. THIS PLOT IS PRODUCED ON A 7530 OR 7531 PLOTTER. IT WILL RUN UNDER EITHER SIGNA 5/7 RBH OR BPH.

THIS SUBROUTINE REQUIRES THE SIGHA 5/7 PLOTTING PACKAGE, CATALOS NO. 705657

705854

SIGNA 5/7

SIU 7923 HANDLER

AUTHOR: XEROX

ABSTRACT:

PROVIDES USER OF FORTRAN 19-H (UNDER RBH-2) ACCESS TO MODEL 7823 ANALOG INPUT/OUTPUT ADAPTER. FO CALLS PROVIDE THE USER HITH ABILITY TO SET UP SEQUENCES OF ONE OR MORE COMMANDS, AND TO CALL FOR EXECUTION OF THESE SEQUENCES AT A LATER TIME.

HANDLER IS REENTRANT, OPERATES IN THE FOREBROUND, GCCUPIES 190 LOCATIONS, AND SHOULD BE PLACED IN THE PUBLIC LIBRARY. SOURCE LANGUAGE IS MACRO-SYMBOL

705860

SIGNA 5/7

HANDLER FOR 7888 PRESMENCY CONTROL UNIT

AUTHOR: XEROX

ABSTRACT:

THIS HANDLER REQUIRES THE RBM OPERATING SYSTEM AND IS INTENDED FOR THE FORTRAM IV-H UBER. HOWEVER, IT HAY BE USED BY THE ASSEMBLY LANGUAGE USER. THE HANDLER NORMALLY RESIDES IN THE PUBLIC LIBRARY AND REQUIRES 87 HORDS OF HEMORY.

COMMENTS:

THIS MANDLER IS NORMALLY USED IN CONJUNCTION HITM OTHER SYSTEM INTERFACE UNITS TO PROVIDE EXTERNAL FREQUENCY CONTROL FOR THOSE SIU'S. AT LEAST ONE 7888/7871/7872 IS REQUIRED.

705861

SIGMA 5/7

HANDLER FOR 7830/7881 DIGITAL I/O UNIT

AUTHOR: XEROX

ABSTRACT:

THIS HANDLER IS INTENDED FOR USE HITH THE FORTRAM IV-H PROCESSOR AND THE REM OPERATING SYSTEM. HOMEVER. THE HANDLER DOES NOT USE ANY MONITOR SERVICE FUNCTIONS SO IT MAY BE USED IN A STAND-ALONE ENVIRONMENT. COMMENTS:

THE HANDLER NORMALLY RESIDES IN THE PUBLIC LIBRARY. IT REQUIRES 181 HORDS OF CORE.

705062

SIGMA 5-9

REVISED HAS TAPE COPY - VERIFY PROGRAM

AUTHOR: XEROX ABSTRACT:

ISTRACT:
THIS PROGRAM HILL COPY, VERIFY, OR COPY AND VERIFY LABELED OR UNLABELED MAGNETIC TAPES. THE PROGRAM IS A
REVISION OF 'MAGNETIC TAPE COPY AND VERIFY PROGRAM (BPH) - CATALOG NUMBER 703388, MNICH ADDS THE
FOLLOWING FEATURES: (1) THE PROGRAM HILL CALCULATE THE THEORETICAL LENGTH OF THE OUTPUT COPY, (2) THE
PROGRAM HILL EXECUTE A LOOP BETHEEN THE COPY AND VERIFY PHASES TO ALLOW THE OPERATOR TO CHANGE ORIVES
FOR VERIFICATION, (3) THE TOTAL NUMBER OF READS (TOTAL RECORDS VERIFIED) IS RETURNED DURING VERIFICATION
AND (4) SHOULD AN ERROR OR ABNORMAL CONDITION SE SENSED BY THE MONITOR, THE SPH CODE MILL SE RETURNED IN THE PROGRAM ERROR MESSAGE.
THIS PROGRAM HILL RETURN LABEL INFORMATION FOR MMS FORMATTED TAPES, MOMEYER, THE TAPE HILL BE COPIED

IN THE UNLABELED HODE.

COMMENTS:

THE PROGRAM IS HRITTEN IN META-SYMBOL. THE PROGRAM REQUESTS 18 PAGES OF CORE FOR A COPY OR 32 PAGES FOR A COPY AND VERIFY, BUT HILL RUN HITH LESS. IN THIS CASE, DATA MAY BE LOST.

IF SO, THE PROGRAM HILL BE ERRED, AND A MESSAGE MILL BE RETURNED TO THE USER.

705864

SIGHA 5/7

HANDLER FOR 7815/ADS-18 AIC

AUTHOR: XEROX

ABSTRACT:

THIS MANDLER REQUIRES THE RBM OPERATING SYSTEM AND IS INTENDED FOR THE FORTRAN IV-H USER. MOMEYER. IT HAY BE USED BY THE ASSEMBLY LANGUAGE USER. THE MANGLER NORMALLY RESIDES IN THE PUBLIC LIBRARY AND REQUIRES 331 HORDS OF MEMORY.

COMMENTS:

REQUIRED EQUIPMENT: SIGMA 5/7 COMPUTER HITH 7915/ADS-18 ANALOG INPUT CONTROLLER(S) PLUS THE NECESSARY Digitizers and Hultiplers.

```
SIGMA 5/6/7
AUTHOR:H. HATTS - XDS
                                                                                                                                 SMUT - (SIGMA 5/8/7 MULTI TAPE COPY)
  705889
    ABSTRACT:

TAPES FROM ONE INPUT TAPE. THE NUMBER OF

TAPES TO BE PRODUCED HILL DEPEND UPON THE VALUE RETURNED BY AN OPERATOR KEYIN REQUEST AT RUN-TIME. THE

PROGRAM HILL COPY OR COPY AND VERIFY LABELED ON UNLABELED TAPES; AND MAY, BY MODIFYING 1 CARD, BE MADE

TO COPY AND VERIFY THROUGH MULTIPLE SETS OF END-OF-FILES ON A TAPE. SEE THE -11 ELEMENT FOR FURTHER

COMMENTS.
                    COMMENTS:
                          DMMENTS:
WRITTEN IN META-SYMBOL, THE PROGRAM HILL RUN ON ANY SYSTEM WHICH SUPPORTS THE BATCH PROCESSING MONITOR.
THE PROGRAM REQUESTS 16K STORAGE FOR A COPY AND 32K FOR A VERIFY, BUT HILL EXECUTE A COPY CORRECTLY WITH
NO MORE THAN SUFFICIENT STORAGE TO HOLD THE LARGEST RECORD ENCOUNTERED. A VERIFY WILL REQUIRE THICE AS
MUCH STORAGE. THE LARGEST RECORD WHICH MAY NOW BE HANDLED IS 8K HORDS, DUE TO LIMITATIONS IN BPM. THE
PROGRAM REQUESTS THICE AS MUCH TO ALLOW FOR FUTURE EXPANSION OF BPM.
                                                                                                                                    MULTSORT - SORT MULTIPLE INPUT FILES
                   RI - SIGMA 5/6/7
AUTHOR:R. EVANS, XDS
  705881
                    ABSTRACT:
SORT EXIT TO ALLOH UP TO 37 SEPARATE FILES TO BE INPUT TO A STANDARD SIGMA SORT-THE FILES MAY BE ANY
MIXTURE OF DISC OR TAPE, MONITOR OR FOREIGN FORMAT, HITH OR HITHOUT LABELS.
                    COMMENTS:
                           MMENTS:
THE SORT EXIT MUST BE ASSEMBLED THEN LOADED WITH THE STANDARD SORY ROMS. THE SORT ROMS MUST BE AS OF T
VERSION DOO OR HAVE BEEN UPDATED WITH SIDR 1883 AS EXPLAINED IN APPLIED PROGRAMMING BULLETIN APTO-884
                           VERSION DOO UN TOTAL DATED JULY 20 1970
                                                                                                                                                                    1
                                                                                                                                    SORT 1400 SIMULATOR FORMATTED TAPE FILES
                    AUTHOR: R. EVANS, XDS
                    ABSTRACT:
                           SORT EXITS TO ALLOH UP TO 9 SEPARATE 1400 SIMULATOR FORMATTED TAPES TO BE SORTED BY THE STANDARD STOMA
                           5/7 SORT.
                   COMMENTS:
THE SORT EXITS MUST BE ASSEMBLED THEN LOADED HITH THE STANDARD SORT ROMS: THE SORT ROMS MUST BE AS OF VERSION DOO OR HAVE BEEN UPDATED HITH SIDR 1883 AS EXPLAINED IN APPLIED PROGRAMMING BULLETIN AP78-884 DATED JULY 20, 1970.
                                                                                                                                                                                                                                                                 の機
- 数数 (Maga) - 1、1 (Maga) - 1 (Maga)
                                                                                                                                       7910 SIU HANDLER (FORTRAM TV-H)
                                                      SIGMA 5/7
  705891
                    AUTHOR: XDS - DATA SYSTEMS DIVISION
               ABSTRACT:

FORCES TO THE 7910 ANALOG OUTPUT CONTROLLER FOR THE FORTRAN IV-H USER RUNNING IN THE REM

FOREGREUND. THO CALLS ARE AROUIDED TO THE 7918.
       CONHENISM

CONHENISM

SQUARE LANGUAGE IS SIGNAS /7 HACRO-SYMBOL AND STORAGE SIZE IS 150 CELLS. HODE OF OPERATION IS MEENTRANT AND THUS RUNS AS PUBLIC LIBRARY ROUTINE. TOEX IS USED FOR PERFORMING THE REQUIRED OUTPUT OPERATIONS.

AND THUS RUNS AS PUBLIC LIBRARY ROUTINE. TOEX IS USED FOR PERFORMING THE REQUIRED OUTPUT OPERATIONS.
                   16 SIGHA 5/7 SPECIAL FORT-SYMBOL INTERFACE ROUTINES
AUTHOR: XDS - DATA SYSTEMS DIVISION
  705896
ABSTRACT:
THESE ROUTINES PROVIDE FUNCTIONS THAT ARE REQUIRED TO ALLOH ASSEMBLY LANGUAGE ROUTINES TO COMMUNICATE
HITH FOREGROUND FORTRAN ROUTINES.

COMMENTS:
ROUTINES ARE PART OF USER'S LIBRARY UNDER RBM. THEY REQUIRE BY LOCATIONS.
                   705007 X 3
                     COMMENTS:
THE RESSERSCHMITT-BOLKON-BLOHM HYBRID EXECUTIVE LIBRARY HAS DERIVED FROM THE STANDARD XDS HYBRID
                            EXECUTIVE LIBRARY.
                                                                                                                                                                                                               -2001 613 OF 51
                                                                                                                                                                    6.54 AC. 10 E
                                                                                                                                      HORKING DAYS SUBROUTINE - HORKDAYS
                     SIGHA 5/6/7
AUTHOR:G. HOFFMAN, XDS
   706104
                     ABSTRACT:

                                                                                                                                                     ZABLESUBNO A KRE BE COME TO SE
                                                                                                                                                                    SEAST FOR SECTION OF S
                                                                                                                                       DATE CONVERSION SUBROUTINE
   706105
                                                        SIGMA 5/6/7
                     AUTHOR: R. DESARRA, XDS
                     ABSTRACT:
A COBOL CALLABLE SUBROUTINE TO CONVERT BETHEEN JULIAN DATE AND GREGORIAN DATE AND TO OBTAIN CURRENT
                             DATE AND TIME.
    * 15 · 5
  TO THE COLOR
```

BASIC TEXT ARRAY GENERATOR (TEXTAR)

AUTHOR: J.G. DAY, XDS

ABSTRACT:
THIS PROGRAM READS A SERIES OF 18-CHARACTER BCD RECORDS AND GENERATES A SERIES OF CORRESPONDING 'BASIC'
ASSIGNMENT STATEMENTS DEFINING AN ARRAY OF 8-CHARACTER SUBSTRINGS.

COMMENTS: THE PROGRAM RUNS UNDER BPM/BTM.

706113

REM HOC HANDLER

3 SIGMA 5/7 RI AUTHOR:XDS, DATA SYSTEMS DIVISION

AUTHORIZOS, DATA STREES DIVISION
ABSTRACT:
THE MOC HANDLER PERMITS A FOREGROUND USER PROGRAM TO COMMUNICATE WITH AN EXTERNAL DEVICE VIA A HODEL.
7801 MESSAGE ORIENTED COMMUNICATION (MOC) CONTROLLER. COMPUTER CONFIGURATION: SIGMA 5/7 COMPUTER,
1 EXTERNAL INTERRUPT LEVEL AND MOC CONTROLLER.
COMMENTS:

IMMENTS: This program is customized for each installation it i**s therefore necessary** to contact the applications Section of data systems division for installation charges.

706119

9 SIGHA 5/6/7 PRINT/COPY UTILITY - ATACK AUTHOR:R. DESARRA, XDS - R. HANSON, CSI

ABSTRACT:

A UTILITY PROGRAM TO PRINT OR COPY ALL, OR SELECTED PORTIONS OF A FILE. INPUT FILES MAY BE EITHER Labeled or Unlabeled (Device) sequential, files. Output files may be either keyed or sequential, labeled or unlabeled. Program Hill Handle XDS Standard Labels, 18M 380, 1401, and 7010 Labels in and Gut.

SIGMA 5-9

TAPE FILE MANAGE PROCESSOR-TEN

AUTHOR: XEROX

A UTILITY PROCESSOR TO DELETE, ADD, INSERT, REPLACE AND LOG FILES ON A LABELED TAPE.

SOURCE LANGUAGE: HETASYMBOL. SYSTEM: BPM.

706125 \$10MA 5/8/7 PEXII TELEMETRY SYSTEM

AUTHOR: XDS, DATA SYSTEMS DIVISION

ABSTRACT: SSTRACT:
THIS PACKAGE OPERATES IN A REAL TIME BPM ENVIRONMENT TO ACQUIRE DATA FROM ANALOG TAPE AND THRUPUT IT TO
DIGITAL TAPE. IT INCLUDES A TELEMETRY COMPILER FOR PROBLEM DEFINITION, A FOREGROUND ACQUISITION THRUPUT
PROCESSOR WHICH CREATES A DIGITAL TAPE FILE, A FORTRAN CALLABLE TAPE RETRIEVAL PROGRAM FOR SUBSEQUENT
BACKGROUND PROCESSING A PAM/PDM EXERCISER, AND AN FHYADC EXERCISER. THE PROGRAM REQUIRES ABOUT SK OF
RESIDENT BPM FOREGROUND AND CONSUMES ABOUT 5 PERCENT CPU TIME FOR ACQUISITION-THRUPUT WITH GOKE TAPES.

THIS PACKAGE IS CUSTOHIZED FOR EACH INSTALLATION BY THE APPLICATIONS PROGRAMMING SECTION, DATA SYSTEMS DIVISION. IT REQUIRES THE PBX11 TELEMETRY HARDHARE.

706126

SIGNA 5-9 AUTHOR:H. A. HATTS - XDS PAL-KHIC

ABSTRACT:

ISTRACT:
THIS PROGRAM IS USED TO PRODUCE THE KHIC (KEY HORD IN CONTEXT) INDEX USED IN THIS MANUAL. IT IS A MIGHLY
SPECIALIZED PROGRAM, BUT MAY BE READILY ADAPTED TO THE USER'S PURPOSES BY CHANGING THE APPROPRIATE
PARAMETERS IN THIS PROGRAM AND IN THE METASYMBOL SUB-PROGRAM 'METAKHIC'. THE OUTPUT IS DESIGNED TO PRINT
AT 100 LINES PER PAGE FOR LATER REDUCTION AND PRINTING.

COMMENTS: HRITTEN IN COBOL, THIS PROGRAM RUNS UNDER THE BATCH PROCESSING HONITOR. IT REQUIRES THE USE OF METAKNIC, A METASYMBOL SUB-PROGRAM (CATALOG NUMBER 706127) TO PERFORM LINE-SHIFTS, FORMATTING, AND 'DULLHORD' (A HORD IS CONSIDERED DULL IF IT IS RESTRICTED FROM PRINTING AS A KEY HORD) TESTING.

708127

METAKHIC

SIGHA 5-9 AUTHOR:N. A. HATTS - XDS ABSTRACT:

- THIS PROGRAM PERFORMS THE FOLLOWING FUNCTIONS:

 1. SHIFTS AND FOLDS EACH LINE TO MOVE EACH HORD TO THE LEFT POSITION.

 2. EXAMINES EACH HORD IN THE TITLE AGAINST A DULL (MORDS ON WHICH NO KEYING IS DESIRED) LIST.

 3. FORMATS OUTPUT. AND

 4. RETURNS OUTPUT TO PAL-KHIC MAIN PROGRAM (CATALOG NUMBER 708128).

COMMENTS:

HRITTEN IN METASYMBOL, THIS PROGRAM RUNS UNDER CONTROL OF PAL-KHIC (CATALOG NUMBER 708128), A COBOL Program. The main program takes the output from this program, sorts the data, and forms the khic index USED IN THIS MANUAL. (SEE THE KHIC INDEX OF YOUR PAL HANUAL FOR AN EXAMPLE).

706129

GRAPHIC DISPLAY LIRRARY (GOL) SIGHA' 5/7

AUTHOR: XEROX

AUTHOR: XEROX
ABSTRACT:

GDL IS A SET OF SUBROUTINES FOR CONTROLLING THE XDS 7580 GRAPHIC DISPLAY CONSOLE AND FOR CONSTRUCTING
AND MANIPULATING IMAGES TO BE DISPLAYED ON THE SCREEN. THE PRIMARY PURPOSE OF GDL IS TO PERMIT PROGRAMS
TO MAKE USE OF ALL THE FEATURES OF THE DEVICE. THE SUBROUTINES OF GDL MERE DESIGNED TO PROVIDE AS MUCH
DISPLAY-PROCESSING POHER AS POSSIBLE HITHOUT USING RESTRICTIVE METHODS AND HITHOUT OBSCURING FEATURES OF

706129 CONTINUED ON FOLLOWING PAGE

GRAPHIC DISPLAY LIBRARY (GDL)

THE DEVICE. FOR THIS REASON GDL IS USEFUL FOR DIRECT PROCESSING OF IMAGES OR FOR CONSTRUCTING HIGHERLEVEL DISPLAY-PROCESSING SYSTEM.
MMMENTS. 706129 " COMMENTS:

JUNEAU STATE OF THE PROGRAM UNDER ROM OR BPM. MEMORY REQUIREMENTS ARE APPROXIMATLY 2500 HORDS FOR GOL PLUS SPACE FOR GOL TO BUILD A DISPLAY LIST WHICH IS RECOMMENDED TO BE AT LEAST 1000 HORDS. . . 3.7

7929 AND 7935 SIU HANDLER 706143 SIGMA 5/7

AUTHOR: XDS, HESTERN TECHNOLOGY CENTER

ABSTRACT:
REENTRANT HANDLER TO PROVIDE ACCESS TO 7929 SIU AND ASSOCIATED 7923 AND 7930 SIU'S FOR FORTRAN AND
ASSEMBLY LANGUAGE USERS. HANDLER CONSISTS OF AN 1/0 TABLE CONSTRUCTION SECTION, AN 1/0 EXECUTION SECTION
AND AN 1/0 TEST SECTION. RBH. SERVICE ROUTINE IDEX IS USED FOR ALL HANDLER 1/0 OPERATIONS.

COMPUTER CONFIGURATION: SIGNA 5/7, RBM, 7929 SIU HITH 7923 AND/OR 7930 SIU. LOADING PROCEDURE: HANDLER INCORPORATED INTO USER'S FOREGOUND PROGRAM VIA OVERLAY LOADER OR LOADED AS PART OF RBM IN PUBLIC LIBRAY. RESTRICTIONS: HANDLER DOES NOT SAVE REGISTERS. THO HORDS OF STORAGE SUPPLIED BY USER PROGRAM MUST BE ON A DOUBLE HORD BOUNDARY.

8 SIGMA 5-9 COMPRESSION UTILITY PROGRAM AUTHOR:XDS, HESTERN TECHNOLOGY CENTER 706148

ABSTRACT:

THIS PROGRAM PROVIDES ALL THE FUNCTIONS AND ADVANTAGES OF COMPRESSED DECK USAGE TO THE RBM USER. SINCE
IT IS A SEPERATE PROCESSOR THE FEATURES ARE AVAILABLE FOR ANY TYPE OF SYMBOLIC DECK. THUS THE FORTRAN
USER MAY HAVE THE ADVANTAGES OF COMPRESSED DECKS AND CORRECTION PACKETS.

THIS PROGRAM HAS THE ABILITY TO PROCESS A COMPRESSED BECK THAT HAS BEEN DAMAGED OR IS OTHERWISE UNACCEPTABLE TO META-SYMBOL. THAT IS IT PRINTS AN ERROR MESSAGE AND CONTINUES TO PROCESS THE REMAINDER OF THE INPUT DECK WHEN AN ERROR OCCURS.

706201

AUTHOR:H.L. SMITH, XDS
ABSTRACT:
TRANSMOG - EBCDIC BINARY FILE BUILD

AUTHOR:H.L. SMITH, XDS
ABSTRACT:
TRANSMOG IS A BPM PROGRAM WHOSE PURPOSE IS TO BUILD A FILE FROM A DECK OF CARDS CONTAINING CONTROL CARDS. SINCE IN NORMAL BPM USAGE THE MONITOR INTERCEPTS CONTROL CARDS, A SPECIAL PROGRAM SUCH AS THIS IS REQUIRED.

SIGHA 5/7 CONTACT CLOSURE HANDLER AUTHOR: XDS, HESTERN TECHNOLOGY CENTER 706227

ABSTRACT: IS A HANDLER FOR 7930/31 DIGITAL MODULES. TABLE OF DIGITAL MODULE ADDRESSES IS ASSEMBLED INTO ROUTINE. CONTACT CLOSURE IS FORTRAN CALLABLE. James San Carlo Ca COMMENTS:

USES SUBROUTINES DESCRIBED IN 705898-11A00. THIS PROGRAMTIS CUSTOMIZED FOR EACH INSTALLATION. THEREFORE IT IS NECESSARY TO CONTACT THE APPLICATIONS SECTION OF DATA SYSTEMS FOR INSTALLATION CHARGES.

28 SIGMA 5/7 HANDLER FOR TUNABLE **3901(128776R**?(VCO) > Author:xds, Hestern Technology Center 706228

ABSTRACT:
PROVIDES AN INTERPAGE TO ANYEMR MODEL 4540 TOWABLE SUBBARRIER OSCILLATOR. VCO ACCEPTS INTERGER VALUES
AND CONVERTS THEM TO THE FORM REQUIRED BY THE WOOL VOO. 15 FORTBAN CALLABLE. COMMENTS:

THIS PROGRAM IS CUSTOMIZED FOR EACH INSTALATION. THEREFORE IT IS NECESSARY TO CONTACT THE APPLICATIONS SECTION OF DATA SYSTEMS FOR INSTALATION CHARGES. FOR FOREY FOR A SYSTEMS FOR INSTALATION CHARGES.

PS SIGHA 5/7 DMS-12 DAC HANDLER 《可不知识》 1 . . . AUTHOR:XDS, HESTERN TECHNOLOGY CENTER 706229

ABSTRACT.

ABSTRACT.

TO ENABLE A USERS PROOFER TO CONTROL A DACTEONNECTED TOTAL STATE DACOUT PERMITS A USER TO OUTPUT A SINGLE BUFFER ONCE OF THE STATE OF THE S

MMENTS: USES SUBROUTINES DESCRIBED IN 705896-11A00. THIS PROGRAM IS CUSTOMIZED FOR EACH INSTALLATION. THEREFORE IT IS NECESSARY TO CONTACT THE APPLICATIONS SECTION OF WATA SYSTEMS FOR INSTALLATION CHARGES.

AUTHOR:XDS, HESTERN TECHNOLOGY CENTER
ABSTRACT:

ABSTRACT: 706231

Digital 100 May 24 1

TO CONTROL THOSE FUNCTIONS ASSOCIATED WITH THE ACQUISITION OF DATA FROM A DMS-12.

COMMENTS:
THIS PROGRAM IS CUSTOMIZED FOR EACH INSTALLATION. THEREFORE IT IS NECESSARY TO CONTACT THE HESTERN 1) 1 A . .

7 55 4 16/5 51

PAGE 9 - 01/31/75

ADC LOH LEVEL ROUTINES (ADCLOH) 708232

AUTHOR: XDS, HESTERN TECHNOLOGY CENTER

ABSTRACT: PRINCE TO ALLOH A USER TO CONTROL THE DMS-12 ADC AND MUX CONTROLLERS. THIS ALLOHS THE USER TO INPUT HIGH SPEED ANALOGUE LEVEL. ADCLOH IS FORTRAN CALLABLE.

THIS PROGRAM IS CUSTOMIZED FOR EACH INSTALLATION. THEREFORE IT IS NECESSARY TO CONTACT THE MESTERN Technology center for installation information.

DATA RETRIEVAL SUBROUTINES 706233 SIGMA 5/7

AUTHOR: XDS, HESTERN TECHNOLOGY CENTER

AUTHORISUS, MESIERA IEU-MOGGOT SELECTION AUTHORISES CHANNEL INFORMATION FROM THE SPECIAL DATA BASE GENERATED BY ADCHIGH. DATA IS STORED RIGHT JUSTIFIED, SIGN EXTENDED IN A USER SUPPLIED BUFFER. DATA IS RETRIEVED ON A CHANNEL/INDEX BASIS. DATA RETRIEVAL CONSISTS OF THO SUBROUTINES, OPEN AND RETRIEVE. OPEN LOCATES AND OPENS THE INPUT FILE. RETRIEVE FETCHES DATA AND STORES IT IN THE USER BUFFER.

THIS PROGRAM IS CUSTOMIZED FOR EACH INSTALLATION. THEREFORE IT IS NECESSARY TO CONTACT THE APPLICATIONS SECTION OF DATA SYSTEMS FOR INSTALLATION CHARGES

SIGNA 5/7 TIME CODE SYSTEM MANGLER (TCSH) 706237

AUTHOR: XDS, HESTERN TECHNOLOGY CENTER

ABSTRACT:

JENIANIE TICSH PERFORMS ALL FUNCTIONS ASSOCIATED HITH CONTROLLING THE TIME CODE TRANSLATOR AND THE TAPE SEARCH Unit. Tosh also reads time from the TCT and converts time hords from and to TCT format.

INTERTION THE PROGRAM IS CUSTOMIZED FOR EACH INSTALLATION. THEREFORE IT IS NECESSARY TO CONTACT THE APPLICATIONS SECTION OF DATA SYSTEMS FOR INSTALLATION CHARGES

HETAFUHBLE 706242

AUTHOR: H. GARDNER ROHLEY, II ABSTRACT:

PRINCE STATES THE CONTROL-CARD SEQUENCE REQUIRED TO EXECUTE MULTIPLE METASYMBOL ASSEMBLIES INVOLVING A COMPRESSED INPUT (CI) MEDIUM.

THE PROCESSOR IS ESPECIALLY VALUABLE WHEN UPDATING AND ASSEMBLING THE BPH/BTH SYSTEM FROM 178 CI-TAPE.

IF THE DUTPUT INCLUDES LISTINGS TO BE COMPRESSED TO TAPE OR FILE, ORDER LIBRARY CATALOG 708843 (UTILIST).

S10MA 5-9 706243

AUTHOR: R. NAKEN

ARSTRACT:

PRIMALIST IS DESIGNED TO CREATE A FILE/LABEL-TAPE CONSISTING OF LISTING DATA OR TO LIST A FILE/TAPE UTILIST IS DESIGNED. THE FILE/TAPE OUTPUT HILL BE COMPRESSED (BLANKS REMOVED). IMPUT TO BE PRINTED CAN BE COMPRESSED OR NON-COMPRESSED.

SIGMA 5-9 BASIC CONCORDANCE 706292

AUTHOR: XEROX CORPORATION

ABSTRACT:

ABSTRACT:
THIS PROGRAM TAKES AN XEROX BASIC PROGRAM FOR INPUT AND PRODUCES A CONCORDANCE OF THAT PROGRAM, LISTING
LINE NUMBER REFERENCES, USER DEFINED FUNCTIONS, ARRAYS, STRINGS, AND SIMPLE VARIABLES ALONG MITH THOSE
LINE NUMBERS IN WHICH THEY ARE USED.
COMMENTS:

THE PROGRAM SOURCE LANGUAGE IS XEROX EXTENDED FORTMAN IV.

SCU INTERPRETER SIGHA 5-9 706437

AUTHOR: XEROX

ABSTRACT:
THE SCU INTERPRETER (SIN) ENABLES DEVELOPMENT OF SCU SOFTHARE ON SIGNA COMPUTERS. SCU INSTRUCTIONS CAN
BE TRACED HITH A, B, AND C BUS VALUES DISPLAYED. PSEUDO CONTROL MEMORY IMAGE CAN SE BUILT BY COMBININ
ASSEMBLIES. SIN HAS CAPABILITY OF PATCHING BOTH PSEUDO CONTROL AND MAIN MEMORIES. BUILT BY COMBINING

THE SCU INTERPRETER REQUIRES EITHER UTS OR A 8PH OPERATING SYSTEM AND SUFFICIENT MEMORY TO FIT A 13K HORD PROCESSOR.

RELIABILITY PREDICTION CREATE/UPDATE SIGMA 7/9

AUTHOR: XEROX CORPORATION

ABSTRACT:
THIS PROGRAM CREATES OR UPDATES A FILE OF ASSEMBLY, SUBASSEMBLY AND COMPONENT PART NUMBERS. THESE PARTS
ARE ORGANIZED INTO PART STRUCTURES; SOME TOP ASSEMBLIES HAVE AS HANY AS 8 LEVELS OF SUBASSEMBLIES. THIS
PROGRAM ACCEPTS TRANSACTIONS IN THE FORM OF CARDS TO ADD, DELETE, OR MODIFY A PART'S PARAMETERS OR THE
PARAMETERS OF THE RELATIONSHIP BETHEEN 2 PARTS. COMMENTS:

THIS PROGRAM HILL RUN UNDER BPM/BTM OR UTS OPERATING SYSTEMS. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
THE FILE OF PARTS AND PART STRUCTURES IS ORGANIZED USING XEROX'S DATA MANAGEMENT SYSTEM (DMS) THE PROGRAM USES DMS TO ACCESS THE FILE.

PAGE 10 - 01/31/75

708455 SIGHA 7/9 RELIABILITY PREDICTION CALCULATION

AUTHOR: XEROX CORPORATION ABSTRACT:

PSINAU!:
THIS PROGRAM CALCULATES THE FAILURE RATE OF THE VARIOUS SUBASSEMBLIES AND TOP ASSEMBLIES IN A FILE OF
PARTS AND PART STRUCTURES. AT THE COMPONENT LEVEL, THE FAILURE RATE IS GIVEN DEPENDING WHERE THE PART
IS USED. THE TOP ASSEMBLY OR SUBASSEMBLY FAILURE RATE IS THE SUM OF THE FAILURE RATE OF ITS PARTS
MODIFIED BY AN APPLICATION FACTOR OR DUTY CYCLE.

THIS PROGRAM WILL RUN UNDER BPM/BTM OR UTS OPERATING SYSTEMS. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN FORTRAN.
THE FILE OF PARTS AND PART STRUCTURE IS ORGAINIZED USING XEROX'S DATA MANAGEMENT SYSTEM (DMS). THE
PROGRAM USES DMS TO ACCESS THE FILE.

RELIABILITY PREDICTION REPORT GENERATOR

SE SIGMA 7/9
AUTHOR: XEROX CORPORATION

ABSTRACT:
THE PROGRAM LISTS OUT IN VARIOUS FORMATS THE DATA IN A FILE OF PARTS AND PART STRUCTURES. THIS INCLUDES
A LISTING OF TOP ASSEMBLIES AND ITS PARTS AND A PARTS EXPLOSION LISTING. THE USER SELECTS THE LISTINGS
HE NEEDS HITH TRANSACTION CARDS.

THE PROGRAM HILL RUN UNDER BPH/BTM OR UTS OPERATING SYSTEMS.

BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN FORTRAN.

THE FILE OF PARTS AND PART STRUCTURES IS ORGANIZED USING XEROX'S DATA MANAGEMENT SYSTEM (DMS). THE PROGRAM USES DMS TO ACCESS THE FILE.

706457

SIGMA 5-9

RECOMMENDED SPARES

57 SIGHA 7/9 AUTHOR:XEROX CORPORATION

ABSTRACT:

THIS PROGRAM PRODUCES A RECOMMENDED SPARES LIST FOR ANY COMBINATION OF 100 TOP ASSEMBLIES FROM A FILE OF PARTS AND THEIR FAILURE RATES.

COMMENTS: THIS PROGRAM HILL RUN UNDER BPM/BTM OR UTS OPERATING SYSTEMS. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN FORTRAN. THE FILE OF PARTS IS ORGANIZED USING XEROX'S DATA MANAGEMENT SYSTEM (DMS). THE PROGRAM USES DMS TO ACCESS THE FILE.

706467

RBM ERROR LOG LISTER

AUTHOR: XEROX

ABSTRACT:

THE RBM ERROR LOG LISTER PROGRAM READS AN ERROR LOG FILE AND FORMATS AND PRINTS THESE RECORDS ON AN OUTPUT FILE. COMMENTS:

THE RBM ERROR LOG LISTER RUNS AS A BACKGROUND PROGRAM. IT IS A TEMPORARY PRODUCT FOR USE WITH THE COS Release of RBM only. It will be replaced by another product for the Next Release of RBM.

706504

BOOK

SIGMA 6/7/9 AUTHOR:XEROX CORPORATION

THIS PROGRAM AND THREE ASSOCIATED EBCDIC DATA FILES ALLOH AN ON-LINE USER TO SELECT AND DISPLAY ANY PART OF THE CP-Y USER GUIDE. THE PROGRAM IS HRITTEN IN CP-Y BASIC AND OPERATES IN THE CP-Y TIMESHARING MODE HITH ANY TELETYPE-COMPATIBLE TERMINAL.

THIS PROGRAM HILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS APPLICATION. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN CP-V BASIC.

706508

SIGMA 6/7/9 AUTHOR: XEROX CORPORATION PLANT SECURITY CONTROL PACKAGE

ABSTRACT: STRACT:
THE PURPOSE OF THE PLANT SECURITY CONTROL PACKAGE IS TO: 1) PROVIDE CONTROL FOR KEYCARD READERS
INSTALLED AT CRITICAL ACCESS LOCATIONS, 2) BUILD AND MAINTAIN THE DATABASE ACCESSED BY THE
READER-CONTROL PROGRAMS, AND 3) DUMP SELECTED REPORTS ON THE STATUS OF THAT DATABASE.
THIS PACKAGE CONSISTS OF SEVEN PROGRAMS:
1. SECSCHEMA-THE SCHEMA FOR THE EDMS DATABASE.
2. SECCONTROL-THE CTRL MODULE HHICH DRIVES THE COC GHOST MODULE AND RECORDS ATTEMPT TO ACCESS.
3. SECCOC-THE COC GHOST MODULE HHICH CONTROLS THE DEDICATED COC CONTROLLER AND EVALUATES ENTRY REQUESTS.
4. SECUPDATE-A MODULE HHICH PROVIDES A MECHANISM FOR THE INSERTION, DELETION OR MODIFICATION OF RECORDS
IN THE FORM DATABASE

IN THE EDMS DATABASE.

IN THE EDMS DATABASE.

5. SECREPORT-A MODULE TO OUTPUT FORMATTED REPORTS FROM THE EDMS DATABASE.

6. SECSTATISTICS-A MODULE TO CALCULATE AND GRAPH ELAPSED RECORD HANDLING TIME BY THE COC MODULE.

7. SECLOADDB-A PROGRAM TO LOAD NEW EMPLOYEE RECORDS FROM PUNCHED CARDS.
AMONG THE FEATURES OF THIS SYSTEM IS THE ABILITY FOR A MANAGER TO CONTROL WHO HAS ACCESS PAST READERS
UNDER HIS RESPONSIBILITY, AND THE ABILITY TO QUERY THE DATABASE FOR SELECTED DATA FROM EITHER THE
CONTROL OR UPDATE MODULES.

THIS PROGRAM WILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM

THIS PROGRAM HILL RUN UNDER CP-V OPENATING STRIED.

IS HRITTEN IN METASYMBOL.
AND 1S DESIGNED AS REAL-TIME EXTENSIONS TO CP-V ARE REQUIRED. THIS PACKAGE
IS HRITTEN IN METASYMBOL, AND IS DESIGNED TO CONTROL KEYCARD READERS WHICH TRANSMIT SERIALLY. THE
DECODE FUNCTION IS BASED ON THE ALGORITHM UTILIZED BY READERS PROVIDED BY RUSCO INDUSTRIES, LOS ANGELES,
CA. ANY CHANGE IN SUPPLIERS HILL REQUIRE CODE MODIFICATIONS. A DEDICATED 7611 COC CONTROLLER HITH I-SM
LINES IS REQUIRED. CERTAIN PROGRAMS REQUIRE AN ED PRIVILEGE TO EXECUTE REAL-TIME CALS. THIS SYSTEM IS
AVAILABLE ON A CONTROLLED RELEASE BASIS. THIS PROGRAM IS RESTRICTED.

SIGMA 5/7 890000

XDS NUMERICAL SUBROUTINE PACKAGE (COVER)

AUTHOR: XEROX ABSTRACT:

STRACT:
THE XDS NUMERICAL SUBROUTINE PACKAGE CONSISTS OF 132 FORTRAN SUBROUTINES DIVIDED INTO 7 CLASSES: 1
MISCELLANEOUS ROUTINES 2. MATRICES 3. POLYNOMIALS 4. PROBABILITY AND STATISTICS 5. MATHEMATICAL ROUTINES
6. ANALYSIS 7. REGRESSION THESE SUBROUTINES ARE HRITTEN IN THE FORTRAN 1Y-H LANGUAGE AND HILL OPERATE IN
ANY CONFIGURATION HHICH HILL SUPPORT THE COMPILER AND RUN-TIME PACKAGES.

THIS PROGRAM INCLUDES CATALOG NUMBER 890001-890132. ALL PROGRAM DESCRIPTIONS ARE INCLUDED IN XDS MANUAL 901505. SOURCE IMAGES ARE AVAILABLE ON MAGNETIC ONLY.

SIGMA 5-9

ROM BREAKDOHN TRANSLATOR (ROMBUST)

AUTHOR: XEROX

ABSTRACT: RELOCATABLE OBJECT MODULE (ROM) RECORDS FROM SOURCE INPUT (SI) ARE ANALYZED AND INTERPRETED INTO PLAIN TEXT ON THE LO DEVICE. ALL RECORD CONTROL INFORMATION AND EACH ROM LOAD ITEM IS DISPLAYED AS A GROUP. ALL LOAD ITEM BYTES ARE ALSO DISPLAYED IN HEXADECIMAL FORM ABOVE EACH LOAD ITEM INTERPRETATION.

890144

SYMMETRIC LIST PROCESSOR (32K)

4 SIGMA 5/7 AUTHOR: VANDERBILT UNIV

AUTHOR: VANDERBILL UNIV
ABSTRACT:
SLIP-I IS THE XDS VERSION OF THE SYMMETRIC LIST PROCESSOR AS DESCRIBED IN COMMUNICATIONS OF ACM - VOLUME
BYNUMBER 9/SEPT-83. THE PACKAGE CONSISTS OF THO PARTS, ONE PART CONSISTS OF COMPILER LANGUAGE
SUBROUTINES, THE SECOND PART CONSISTS OF ASSEMBLY LANGUAGE PRINITIVES. THE PACKAGE IS DESIGNED AS A SET
OF LIBRARY ROUTINES TO BE LOADED HITH A USER'S PROGRAM OR INCLUDED AS PART OF A STANDARD LIBRARY SLIP-I
IS DESIGNED TO OPERATE IN A 32K MACHINE.

SOURCE LANGUAGE: FORTRAN IV-H AND SYMBOL

890145

SIGMA 5/7

SYMMETRIC LIST PROCESSOR (OVER 32K)

AUTHOR: VANDERBILT UNIV

AUTHOR: VANDERBILL UNITY

ABSTRACT:
SLIP-II IS THE XDS VERSION OF THE SYMMETRIC LIST PROCESSOR AS DESCRIBED IN COMMUNICATIONS OF ACM VOLUME 8/NUMBER 9/SEPT-63. THE PACKAGE CONSISTS OF THO PARTS, ONE PART CONSISTS OF COMPILER LANGUAGE
SUBROUTINES, THE SECOND PART CONSISTS OF ASSEMBLY LANGUAGE PRIMITIVES. THE PACKAGE IS DESIGNED AS A SET
OF LIBRARY ROUTINES TO BE LOADED HITH A USER'S PROGRAM OR INCLUDED AS PART OF A STANDARD LIBRARY.
SLIP-II IS DESIGNED TO OPERATE IN A MACHINE HITH OVER 32K.

COMMENTS: SOURCE LANGUAGE: FORTRAN IV-H AND SYMBOL.

890146

SIGMA 5/7 HFOR LINEAR PROGRAMMING CODE SIGMA 5/7

AUTHOR: XEROX ABSTRACT

SOLUTION TO LINEAR PROGRAMMING PROBLEMS USING THE PRODUCT FORM OF THE INVERSE METHOD. THE COMPUTATION IS DONE ALL-IN-CORE, AND THE PROGRAM HILL ATTEMPT TO SOLVE PROBLEMS HITM UP TO 511 ROMS, 2000 COLUMNS, AND BOOD MATRIX ENTRIES.

DMMENTS:
THIS PROGRAM REQUIRES 32K DECIMAL LOCATIONS AND OPERATES UNDER THE BASIC CONTROL MONITOR. THE
DISTRIBUTED SOURCE TAGE INCLUDES ALL NECESSARY CONTROL CARDS FOR RUNNING UNDER RAD-75 BCM. IN ORDER TO
RUN IT IS NECESSARY TO 1SYST C.9TXYZ (HHERE X. Y. AND Z ARE VALID 10P, CHANNEL, AND UNIT NOS
RESPECTIVELY). IN ORDER TO KEEP THIS PROGRAM FROM EXCEEDING 32K HEMORY, IT IS NECESSARY TO COMPILE IT
USING THE FORTRAN-H VERSION B COMPILER. INCLUDED ON THE DISTRIBUTED SOURCE TAPE ARE DATA FOR THE SAMPLE
PROBLEM SHOWN IN THE PROGRAM DESCRIPTION.

890147

BATCH MONITOR CROSS REFERENCE GENERATOR SIGMA 5/7

AUTHOR: JAMES R. GREENHOOD RUTGERS NUCLEAR PHYSICS LAB

ABSTRACT: THIS PROGRAM GENERATES A CROSS REFERENCE DICTIONARY OF DEFINITIONS AND REFERENCES HAICH APPEAR IN PROGRAMS IN THE SIGMA 5/7 BATCH MONITOR. THE MODIFICATION OF THE MONITOR THEN CAN BE ACCOMPLISHED. KNOHING EXACTLY HOW IT IS INTERCONNECTED.

890157

CROSS REFERENCE SYMBOL LISTING PROG.

AUTHOR: UC BERKELEY-SPACE SCIENCES LAB J. HC CONNEL

ABSTRACT: THIS PROGRAM LISTS ALL INTERNAL AND EXTERNAL SYMBOLS AND WHERE THEY ARE REFERENCED MITHIN A SYMBOL DECK. COMMENTS:

PROGRAM RUNS UNDER BCH.

DEBUG ROUTINE-ON-LINE

1 SIGMA 5/7 AUTHOR:R. FALZONE - XDS

ABSTRACT:
ASSISTS IN THE DEBUGGING OF LARGER PROGRAMS. IT ENABLES THE USER TO DISPLAY AND/OR ENTER DATA INTO
MEMORY, VIA KEYBOARD PRINTER, TO SEARCH MITHIN LIMITS FOR KNOHN DATA, TO ANALYZE AND EXECUTE
INSTRUCTIONS AT ANY MEMORY LOCATION, TO ALTER MEMORY, AND TO TRACE.

MMENTS: USES 350 LOCATIONS.

2 SIGHA 5/7 FOCAL, FORTRAN-CALCULATOR, DESK CALC. AUTHOR: J.D. LARSON, BROOKHAVEN NATIONAL LABORATORIES 890312

ABSTRACT:
PERFORMS ARITHMETIC COMPUTATIONS USING FORTRAN STATEMENTS ENTERED DIRECTLY FROM A KEYBOARD DEVICE. IN
ADDITION, FOCAL ASSIMULATES AND STORES CONTROL, BRANCHING, AND ARITHMETIC

890319 \$ SIGMA 5/7 AUTHOR:UNIVERSITY OF NEVADA REGISTRATION STATISTICS PACKAGE

ABSTRACT:
THIS REGISTRATION PACKAGE PERFORMS VARIOUS SORTS ON THE REGISTR ATION INFORMATION AND PRINTS SELECTIVE REPORTS. EACH PROGRAM IS STAND ALONE! COMMENTS:

APPENDIX A CONTAINS THE GLOSSARY OF PROGRAM TERMS. APPENDIX B CONTAINS THE FORMATS FOR VARIOUS DATA CARDS.

890321 SIGHA 5/7 CN704852 HODDFORTIV COMP BCD CONVERSION AUTHOR:P. C. ROGERS, BROOKHAVEN NATIONAL LABORATORY ABSTRACT:

PROVIDES PROPER FORTRAN BCD CONVERSION SO THAT OLD BCD DECKS MAY BE UPDATED WITH EBCDIC CARDS

890322 FREE FIELD FORTRAN IV INPUT SUBROUTINE SIGMA 5-9 AUTHOR: PC ROGERS BROOKHAVEN NATIONAL LABORATORY UPTON NEW YORK ABSTRACT:

FREEFLD FORTRAN PROVIDES A CONVENIENT MEANS OF READING ALPHANUMERIC DATA IN A FREE FIELD FORM AND ENCODING THE INPUT INTO CHARACTER STRINGS, INTEGERS AND DOUBLE PRECISION VALUES

FORTRAN IV KEYED FILE I/O ROUTINES AUTHOR: P.C. ROGERS BROOKHAVEN NATIONAL LABORATORY UPTON NEW YORK ABSTRACT: USED TO READ/HRITE KEYED FILES FROM RAD. MODIFIED FROM BUFFERIN/BUFFEROUT ROUTINES

SIGMA 5-9 FORTRAN IV BCD-EBCDIC CONVERSION SUBR. . . AUTHOR:PC ROGERS BROOKHAVEN NATIONAL LABORATORY UPTON NEWYORK 890324 ABSTRACT THIS ROUTINE CONVERTS BYTE STRINGS FROM BCD TO EBCDIC(BTOE) OR EBCDIC TO BCD(ETOB)

890325 SIGMA 5/7 TIME AND/OR DATE SUBROUTINE AUTHOR:S. HHEELER, UNIVERSITY OF TEXAS AT ARLINGTON ABSTRACT:

THIS THREE-ENTRY-POINT SUBROUTINE ALLOHS THE XDSFORTRAN IV CALLER TO OBTAIN THE CURRENT TIME, DATE, OR BOTH IN A PRINTABLE (I.E ALPHANUMERIC) FORM BY CALLING THE APPROPRIATE ENTRY POINT.

THE SUBROUTINE USES BPH SYSTEM PROCEDURES AND BYTE STRING INSTRUCTIONS.

890326 8 SIGMA 5/7 COMPRESSED SOUR AUTHOR:M. COBB, RCA INTERNATIONAL SERVICE CORP. COMPRESSED SOURCE HERGE PROGRAM

ABSTRACT: ISTRACT:
THIS PROGRAM MERGES THO SEPARATE COMPRESSED SOURCE VERSIONS OF A PROGRAM INTO A SINGLE OUT PUT. IT
GENERATES A LISTING OF THE MERGED OUTPUT AT THE SAME TIME, NUMBERS THE LINES, AND FLAGS THOSE LINES THAT
DIFFER BETHEEN THE THO INPUT SOURCES. IT IS USED WHERE ONE LARGE BPM-CONFIGURATION COMPUTER SYSTEM
SUPPORTS ANOTHER SMALLER BPM-CONFIGURATION AT A REMOTE SITE.

890327 SIGMA 7 INTEGER BOOLEAN FUNCTIONS FOR SIGMA 7 AUTHOR:DONALD V. HIRST, BROOKHAVEN NATIONAL LABORATORY.

ABSTRACT:
THESE FUNCTIONS MAY BE PLACED IN THE FORTRAN IV-H RUN TIME LIBRARY AND MAY BE CALLED UPON BY FORTRAN

33 SIGMA 5-9 SOL-SIMULATION-ORIENTED LANGUAGE AUTHOR:R.B. COOK, G.J. HANSEN, G.E. HAYNAM - VANDERBILT UNIVERSITY 890383 ABSTRACT:

INTERIOR OF THE SOL COMPILER, DOES AND LIBRARIES IS ELEMENT (-28).

NECESSARY TO FORM THE SOL COMPILER, DOES AND LIBRARIES IS ELEMENT (-28).

COMMENTS:
PROGRAM TYPE:PROCESSOR LANGUAGE:METASYMBOL SYSTEM: BPM/BTM STORAGE: DOCU.PAGES:26 SIGMA 5/7 LISP 1.5-LANGUAGE FOR LIST PROCESSING AUTHOR: 0. ROBERTSON, VANDERBILT UNIVERSITY

AUTHOR:G. ROBERTSON, VANDERBILT UNIVERSITY
ABSTRACT:
LISP 1.5 IS A PROGRAMMING LANGUAGE SUITABLE FOR LIST PROCESSING BASED ON LISP-A MATHEMATICAL LANGUAGE
DESIGNED FOR MEANINGFUL MANIPULATION OF LIST STRUCTURES. THE EXTENSIONS MITCH HAVE BEEN MADE, MAKE IT A
PROGRAMMING LANGUAGE, ALSO 1.5 IS AN INTERPRETIVE SYSTEM. THERE ARE NO RESTRICTIONS IN THIS VERSION.
THE PRIMARY USE HAS BEEN IN THE FIELD OF ARTIFICIAL INTELLIGENCE RESEARCH. IT IS USED FOR SYMBOLIC
CALCULATIONS IN CALCULUS, MATHEMATICAL LOGIC, GAME PLAYING, AND OTHER FIELDS. THE LISP TAPE (~46)
CONTAINS THE COMPLETE COMPRESSED SOURCE, THE ENTIRE SET OF RELOCATABLE OBJECT MODULES (~26) NECESSARY TO
FORM THE LISP COMPILER AS HELL AS THE COMPLETE LISP BINARY SYSTEM (~86).

DIMENTS:
MEMORY REQUIREMENT FOR LISP 1.5 MAY BE ADJUSTED, UP OR DOWN, BY REASSEMBLING LISP WITH A CHANGE TO THE
VALUE OF LISPSYS. ELEMENT 86 PRESENT OF LISP-BIAS 4A80. NOTE: FILE 1-DIRECTORY ELEMENT 18- CONTAINS
DIRECTORY OF THE USES DEBROM TO GENERATE ITS DATA CONTROL BLOCKS. INCLUDED IS INTERACTIVE LISP 1.5 (14K
BTM LISP). ELEMENT 86 PRESENT OF LISP: BIAS 10800.

MESSAGE HRITER FOR PRINTER OR TYPEHRITER SIGMA 5/7 AUTHOR:K. JAMERSON - XDS 890383

ABSTRACT: PRINTS ANY MESSAGE ENTERED IN LARGE LENGTHHISE LETTERS ON THE LO DEVICE. IF A LINE PRINTER IS USED THE CARRAIGE CONTROL TAPE SHOULD BE REMOVED. THE MESSAGE HILL BE FORMED BY ASTERISK CHARACTERS.

DOC.PAGES:10 DATE:12/13/89. PROGRAM TYPE:PROGRAM LANGUAGE:SYMBOL SYSTEM:BPM STORAGE:

PLOT DRIVER PACKAGE SIGMA 5/7 890387

AUTHOR: G. SIMON, SACRAMENTO PEAK OBSERVATORY

PLOT DRIVER PACKAGE FOR CALCOMP PLOTTER ON SIGMA 5/7. DRIVES THE PLOTTER FROM (X1,Y1) TO (X2,Y2) IN ANY OF 52 HODES. ALSO CONTAINS ENTRIES OF FSET, WHERE, CLRPLT, AND PEN. WRITTEN AS A FORTRAN IV-H CALLABLE SUBROUTINE FOR RBH MONITOR. ABSTRACT:

INCLUDED IS THE SOURCE DECK AND LISTING FOR THE FORTRAN IV-H PROGRAM WHICH PREPARED THE ATTACHED DATA SHEET TO ILLUSTRATE THE USE OF PLOT AND SYMBOL. THE LATER BEING A ROUTINE WHICH ANNOTATES CHARTS.

SYMBOL LAB. ROUTINE FOR CALCOMP PLOTTER 890388 98 SIGMA 5/7 SYMBOL LAB. R AUTHOR:0. SIMON - SACRAMENTO PEAK OBSERVATORY

ABSTRACT: LABELING ROUTINE FOR CALCOMP PLOTTER ON SIGNA 5/7. PLOTS VALUE OF ANY INTEGER OR REAL VARIABLE, OR ANY OF 150 SPECIFIED SYMBOLS, INCLUDING ENGLISH AND GREEK UPPER AND LOWER CASE ALPHABETIC, MATHEMATICAL, SCIENTIFIC, PUNCTUATION, AND COMMERCIAL CHARACTER. HRITTEN AS A FIV-H CALLABLE SUBROUTINE- REQUIRES SUB-ROUTINE PLOT

COMMENTS: LANGUAGE: SYMBOL STORAGE: 701 DOC.PAGES: 38 DATE: 1/7/78

00 SIGMA 5-9 YULZ-VANDERBILT STATISTICAL PACKAGE
AUTHOR:VANDERBILT UNVIERSITY COMPUTER CENTER 890400

ABSTRACT:
INCLUDED ARE THO SYSTEMS: THE COMPUTER PROGRAMS FOR STATISTICAL ANALYSIS PACKAGE, PROVIDING 50 PROGRAMS
AND ALLOHING THE USER A VERY COMPREHENSIVE CAPABILITY FOR ANALYSIS: AND THE MINISTAT SYSTEM, ALLOHING
BTM TIME-SHARING USERS 10 SUCH PROGRAMS FOR JOBS WHICH ARE SUFFICIENTLY SHALL SO THAT ALL INPUT AND
OUTPUT CAN OCCUR AT THE TELETYPE. A QUALITY ASSURANCE DECK IS PROVIDED (-74) WHICH PERMITS USERS TO
CHECK ANY OR ALL PROGRAMS AGAINST TEST DATA.
NOTE: BOO VERSION OF FLAG COMPILER IS REQUIRED TO RUN THIS PACKAGE.

SYSTEM: BPM/BTM DOCU. PAGES: 185 PROGRAM TYPE:PACKAGE LANGUAGE:FORTRAN IV

COCHRAN Q-TEST 890427

ABSTRACT: CALCULATES THE COCHRAN Q-TEST STATISTIC, GIVEN A MATRIX OF DICHOTOMOUS. RON AND COLUMN TOTALS ARE CALCULATED, THEN THE Q-STATISTIC IS COMPUTED.

ORDERABLE UNDER COVER NUMBER 890400.

PARTIAL CORRELATIONS 890428

ABSTRACT: COMPUTES PRODUCT MOMENT CORRELATIONS FOR UP TO 50 VARIABLES AND CALCULATES REGRESSION COEFFICIENTS, MULTIPLE CORRELATIONS AND PARTIAL CORRELATION COEFFICIENTS FOR ANY SPECIFIED COMBINATION OF THESE VARIABLES.

COMMENTS: ORDERABLE UNDER COVER NUMBER 890400.

FRIEDMAN THO-HAY ANALYSIS SIGNA 5-9

ABSTRACT: PROGRAM READS EITHER RANKED OR UNRANKED DATA AND COMPUTES THE FRIEDMAN THO-MAY ANALYSIS OF VARIANCE STATISTIC.

ORDERABLE UNDER COVER NUMBER 890400.

890430 SIGMA 5-9

KENDALL COEFFICIENT OF CONCORDANCE

ABSTRACT: PROGRAM READS EITHER RANKED OR UNRANKED DATA AND COMPUTES THE KENDALL COEFFICIENT OF CONCORDANCE.

ORDERABLE UNDER COVER NUMBER 890400.

890431

MANN-HHITNEY U-TEST

SIGMA 5-9
ABSTRACT: PROGRAM COMPUTES THE MANN-HHITNEY U STATISTIC TESTING WHETHER THO INDEPENDENT GROUPS ARE FROM THE SAME POPULATION.

ORDERARIE LINDER COVER NUMBER 890400.

890432 SIGMA 5-9 ABSTRACT:

MAXPLANE

PROGRAM ACCEPTS A FACTOR MATRIX OR A FACTOR MATRIX HITH A TRANSFORMATION MATRIX AND ROTATES IT TO AN OBLIQUE SOLUTION. UP TO 100 VARIABLES IN THE FACTOR MATRIX AND 25 FACTORS ARE ACCEPTED.

ORDERABLE UNDER COVER NUMBER 890400.

SIGMA 5-9 880433

SCATTERGRAM HISTOGRAM

ABSTRACT: PROGRAM HILL GENERATE BOTH SCATTERGRAMS FOR PAIRS OF VARIABLES AND HISTOGRAMS FOR SINGLE VARIABLES. THE NUMBER OF VARIABLES IS LIMITED TO 50 AND THE NUMBER OF VARIABLES THE NUMBER OF CASES MAY NOT EXCEED 20,000. THE PROGRAM HILL DO AS MANY AS 100 SCATTERGRAMS AND/OR HISTOGRAMS FROM ONE DATA SET.

ORDERARIE UNDER COVER NUMBER 890400.

890434 SIGNA 5/7 ABSTRACT:

AXB LEAST SQUARES

THIS PROGRAM PERFORMS A THO-MAYANALYSIS OF VARIANCE HITHOUT ASSUMPTIONS OF PROPORTIONACITY OR EQUALITY OF CELL FREQUENCY. THE METHOD OF LEAST SQUARES IS USED. EACH FACTOR MAY HAVE UP TO 50 LEVELS. THE MAXIMUM NUMBER OF ENTITIES PER ANALYSIS IS 1000. UP TO 5 DEPENDENT VARIABLES MAY BE PROCESSED AT THE SAME TIME. COM

CPSAGI-890434 - ORDERABLE UNDER COVER NUMBER 890400.

890435 SIGHA 5/7 ABSTRACT:

A+B+C - DESIGN ANALYSIS

THIS PROGRAM ANALYZES DESIGNS HAVING THO OR THREE ISUBJECTS! FACTORS. IT ACCEPTS UNEQUAL CELL Frequencies and makes adjustments by the method of unneighted means. This method is appropriate if the Loss of observations is essentially random and not directly related to the experimental variables (CF. Hiner, P. 1995). Each of the factors may have up to 25 levels. The maximum number of dependent VARIABLES TO BE ANALYZED IS 100. CONMENTS:

CPSA05-890435 - ORDERABLE UNDER COVER NUMBER 890400.

890436

SIGNA 5/7

A.B.S ANALYSIS OF VARIANCE

ABSTRACT: A+8+S ANALYSIS OF VARIANCE

SIGMA 5/7

CPSA03-890436 - ORDERABLE UNDER COVER NUMBER 890400.

890437 ABSTRACT: ANOVA - A.S ANAL. OF VARIANCE HIGH SPEED

THE PROGRAM CALCULATES AN ANALYSIS OF VARIANCE HITH ONE REPEATED MEASURE CONSISTING OF UP TO 10000 VALUES PER ENTITY. THE PROGRAM TAKES LESS RUNNING TIME THAN THE USUAL PROGRAM.

CPSA04-890437 - ORDERABLE UNDER COVER NUMBER 890400.

890438

SIGMA 5/7

SIGMA 5/7

ANOVA - CONVARIANCE

ABSTRACT: THE PROGRAM TAKES UP TO EIGHT CONVARIATES AND PERFORMS AN ANALY SIS OF VARIANCE MITH UP TO 8 FACT**ORS ON** THE SINGLE DEPENDENT MEASURE FOR UP TO 1500 ENTITIES PER CELL. THE PROGRAM TAKES THO MINUTES FOR A SMALL PROBLEM AND 3 TO 4 FOR A MODERATE SIZE PROBLEM.

CPSA05-890438 - ORDERABLE UNDER COVER NUMBER 890400.

890439

ANOVA - GENERAL BALANCE DESIGNS

ABSTRACT: THIS PROGRAM PERFORMS AN ANALYSIS OF VARIANCE ACCORDING TO A BALANCED DESIGN SUPPLIED BY THE USER. IT WILL NOT HANDLE INCOMPLETE DESIGNS (E.G., LATIN SQUARES). THE PROGRAM REQUIRES AN EQUAL N**umber of**

890439 CONTINUED ON FOLLOWING PAGE

REPRINT 75.02

ANDVA - GENERAL BALANCE DESIGNS (CONTINUED)

ENTITIES IN EACH OF THE SMALLEST CELL. THE TOTAL NUMBER OF 'BETHEEN SUBJECTS' FACTORS AND 'HITMIN SUBJECTS' FACTORS MUST NOT EXCEED EIGHT. SEVERAL SETS OF DEPENDENT VARIABLES INVOLVING THE SAME ENTITIES AND THE SAME DESIGN MAY BE PROCESSED ON THE SAME JOB. 890439 COMMENTS:

CPSA08-890439 - ORDERABLE UNDER COVER NUMBER 890400.

ANOVA - GENERALIZED ANALYSIS OF VARIANCE 890440

SIGMA 5/7
ABSTRACT: THIS IS A GENERALIZED ANALYSIS OF VARIANCE PROGRAM THAT HILL ANALYZE INCOMPLETE DESIGNS (LATIN OR GRECO-LATIN SQUARES) AND ANY FACTORIAL OR SINGLY NESTED DESIGN. AN EQUAL NUMBER OF SUBJECTS PER CELL IS REQUIRED. TO DESCRIBE A DESIGN, THE USER SUPPLIES AN APPROPRIATE MATRIX OF COEFFICIENTS FOR ORTHOGOMAL COMPARISONS (MENCEFORTH REFERRED TO AS TREATMENT COEFFICIENTS) COVERING EVERY DEGREE OF FREEDOM FOR MAIN EFFECTS AS HELL AS INTERACTION TERMS IN THE DESIGN. COMMENTS:

CPSA07-890440 - ORDERABLE UNDER COVER NUMBER 890400.

890441 SIGMA 5/7 ANOVA-LINDQUIST TYPE I ANAL. OF VARIANCE

ABSTRACT: THIS PROGRAM ANALYZES UP TO 250 SCORES FOR EACH ENTITY IN UP TO 250 GROUPS.

CPSAG8-890441 - ORDERABLE UNDER COVER NUMBER 890400.

ANOVA - LINDQUIST TYPE III SIGHA 5/7 890442

ABSTRACT: THE PROGRAM ANALYZES UP TO 100 SCORES FOR THE ENTITIES IN EACH OF BC GROUPS. THE A-DIMENSION IS A NITHIN SUBJECTS DIMENSION AND THE B AND C DIMENSIONS ARE BETHEEN SUBJECTS. UP TO 20 LEVELS OF B AND 50 LEVELS OF C ARE ALLOWED. THE NUMBERS OF ENTITIES PER CELL ARE ASSUMED TO BE PROPORTIONAL.

CPSA09-890442 - ORDERABLE UNDER COVER NUMBER 890400.

ANOVA - LINDQUIST TYPE III EXTENDED 890443 SIGNA 5/7

ABSTRACT: THE PROGRAM ANALYZES UP TO 20 SCORES PER ENTITY IN EACH BCD GROUP. THE A DIMENTION IS A HITHIN ENTITIES (SUBJECTS) DIMENSION AND THE B, C, AND D DIMENSIONS ARE BETHEEN ENTITIES (SUBJECTS). THE PROGRAM PERMITS UP TO 20 LEVELS OF A, 10 LEVELS OF B, 8 LEVELS OF C, AND 50 LEVELS OF D. THE NUMBER OF ENTITIES IN EACH BCD GROUP IS UNLIMITED. THE NUMBER OF ENTITIES IN EACH CELL IS ASSUMED TO BE PROPORTI ONAL. THE PROGRAM TAKES THO MINUTES FOR A MODERATE SIZE PROBLEM.

COMMENTS: CPSA10-890443 - ORDERABLE UNDER COVER NUMBER 890400.

LINDQUIST TYPE IV ANALYSIS OF VARIANCE S1GMA 5/7

ABSTRACT: THE TYPE VI DESIGN INVOLVES C INDEPENDENT REPLICATIONS OF THE AXBXS DESIGN. EACH OF THE ENTITIES AT A GIVEN LEVEL OF THE C DIMENSION HAS A SCORE OF EACH AB COMBINATION OF THE A AND B DIMENSIONS. THE PROBLEM PERMITS UP TO 50 LEVELS OF A, 20 LEVELS OF B, AND 50 LEVELS OF C. NUMBER OF ENTITIES IS UNRESTRICTED. EACH OF THE ENTITIES AT A

CPSA11-890444 - ORDERABLE UNDER COVER NUMBER 890400.

LINDQUIST TYPE EXT. ANAL. OF VARIANCE 890445 SIGMA 5/7

ABSTRACT: THIS DESIGN HAS 2 HITHIN MEASURES (A,B) AND 2 BETHEEN MEASURES (C,D). THE PROGRAM ACCEPTS UP TO 28 LEVELS OF A, 10 LEVELS OF B, 8 LEVELS OF C AND 50 LEVELS OF D. THE NUMBER OF SUBJECTS IN EACH OF THE CO GROUPS IS ASSUMED TO BE PROPORTIONAL. NUMBER OF ENTITIES IS UNRESTRICTED. THE PROGRAM TAKES THO HIMUTES FOR A MODERATE SIZED PROBLEM.

CPSA12-890445 - ORDERABLE UNDER COVER NUMBER 890400.

890446

ABSTRACT:

MAY CONSIST OF UP TO 150 GROUPS HITH UP TO 2400 SCORES PER GROUP. THE NUMBER OF ENTITIES HAY BE UNEGRAND.

ACROSS GROUPS. UP TO FIVE DEPENDENT VARIABLES HAY BE READ FROM THE SAME ENTITY CARD. RUNNING TIME IS

ABOUT HALF THAT GIVEN FOR THE AVERAGE PROGRAM.

CPSA13-890446 - ORDERABLE UNDER COVER NUMBER 890400.

AUTOMATIC INTERACTION DETECTION (AID) SIGHA 5/7 890447

ABSTRACT: THE PROGRAM SELECTS THE OPTIMALCOMBINATION OF CATEGORIES OF INDEPENDENT VARIABLES TO PREDICT OME DEPENDENT VARIABLE. COMMENTS:

CPSA14-890447 - ORDERABLE UNDER COVER NUMBER 690400.

AUTO-B CROSS-LAG INTERCORRELATION

ABSTRACT: THIS PROGRAM COMPUTES INTERCORRELATION MATRICES FROM UP TO 400 REPEATED MEASUREMENTS ON UP TO 75 VARIABLES. IT COMPUTES INTERCORRELATIONS FOR EACH DEGREE OF LAG FROM ZERO TO A LIMIT SPECIFIED BY THE USER. COMMENTS:

CPSA15-890448 - ORDERABLE UNDER COVER NUMBER 890400.

890449 SIGMA 5/7 ABSTRACT:

BINOMIAL SIGNIFICANCE TEST

THE PROGRAM COMPUTES THE PROBABILITY THAT THE OBSERVED NUMBER (OR LESS) OF ENTITIES COULD HAVE FALLEN IN THIS ONE OF THO POS SIBLE CATEGORIES BY CHANCE.

CPSA18-890449 - ORDERABLE UNDER COVER NUMBER 890400.

890450

SIGMA 5/7

SIGMA 5/7

CANONICAL ANALYSIS - CPSA

ABSTRACT: THIS PROGRAM ACCEPTS THO ENTITY-BY-VARIABLE MATRICES (SET A AND SET B) WHERE THE ENTITIES ARE HE SAME FOR EACH SET. AFTER COMPUTING CORRELATION MATRICES FOR EACH SET, THE PROGRAM CROSS-COR RELATES THE THO SETS OF VARIABLES. THE PROGRAM THEN CALCULATES THE SETS OF HEIGHTS WHICH WILL VIELD THO COMPOSITE VARIABLES (ONE FOR EACH SET OF ORIGINAL VARIABLES) WHICH WILL CORRELATE MAXIMALLY. THE MAXIMUM NUMBER OF VARIABLES FOR EACH SET CANNOT EXCEDE 60. THE NUMBER OF ENTITIES IS NOT RESTRICTED.

COMMENTS: CPSA17-890450 - ORDERABLE UNDER COVER NUMBER 890400.

890451

SIGNA 5-9

CORRELATIONS: PRODUCT MOMENT

ABSTRACT: THE PROGRAM COMPUTES THE MEANS,STANDARD DEVIATIONS, AND THE PRODUCT-MOMENT CORRELATION MATRIX FOR UP TO 200 VARIABLES. N IS USED IN COMPUTING THE STANDARD DEVIATIONS RATHER THAN N-1. RANK,PHI, AND POINT-BISERIAL COEFFICIENTS RESULT IF THE DATA ARE RANKS, DICHATOMOUS-DICHOTOMOUS, OR DICHOTOMOUS, RESPECTIVELY. THE NUMBER OF ENTITIES IS UNLIMITED.

CPSA18-890451 - ORDERABLE UNDER COVER NUMBER 890400.

890452

SIGMA 5-9

PRODUCT MOMENT / 200-300 VARIABLES

ABSTRACT: THIS PROGRAM IS IDENTICAL TO CORRELATION: PRODUCT MOMENT EXCEPT THAT IT TAKES UP TO 300 VARIABLES, AND REQUIRES APPROXIMATELY 50K HORDS OF STORAGE. A 277-VARIABLE, 341-ENTITY PROBLEM TOOK 25 MINUTES MHEREAS A 277-VARIABLE, 4-ENTITY PROBLEM TOOK 6 1/2 MINUTES. COMMENTS:

CPSA19-890452 - ORDERABLE UNDER COVER NUMBER 890400.

890453

51GMA 5/7

CORRELATIONS WITH MISSING DATA

ABSTRACT: PSIMACI: THIS PROGRAM CALCULATES MEANS, STANDARD DEVIATIONS, AND PRODUCT MOMENT CORRELATION COEFFICIENTS FOR ALL ENTITIES HHICH HAVE THE DATA NEEDED FOR THAT CALCULATION. THE NUMBER OF ENTITIES UPON HHICH EACH STATISTIC IS BASED IS REPORTED. THE PROGRAM ACCEPTS A MAXIMUM OF 70 VARIABLES. THE NUMBER OF ENTITIES 18 UNRESTRICTED COMMENTS:

CPSA20-890453 - ORDERABLE UNDER COVER NUMBER 890400.

890454 ABSTRACT:

S10HA 5/7

CROSS TABS, CHI-SQUARES, CONTING. COEFF.

THIS PROGRAM DETERMINES THE CHI-SQUARE, CONTINGENCY COEFFICIENTS AND THE TOTAL NUMBER OF SUBJECTS PER CATEGORY FOR UP TO 180 VARIABLES. FOR EACH DESIGNATED PAIR OF VARIABLES, A CROSSTABULATION TABLE 18
PRINTED. THE TABLE'S DEGREES OF FREEDOM AND CONTINGENCY COEFFICIENT ARE ALSO PRINTED IF A MEANINGFUL
CHISQUARE EXISTS (CF. SIEGEL, P. 110). COMMENTS:

CPSA21-890454 - ORDERABLE UNDER COVER NUMBER 890400.

890456

CROSS CLASSIFICATION ANALYSIS

ABSTRACT: PRINTED IN THIS PROGRAM PRODUCES UP TO 72 CROSS-CLASSIFICATION TABLES IN THO, THREE, OR FOUR DIMENSIONS.
PERCENTAGES, CHI-SQUARES AND SEVERAL CORRELATION COEFFICIENTS (SEE OUTPUT) ARE REPORTED FOR ALL TABLES

CPSA22-890456 - ORDERABLE UNDER COVER NUMBER 890400.

890457

SIGHA 5/7

DISTRIBUTION ANALYSIS

ABSTRACT: THIS PROGRAM PROVIDES DESCRIPTIVE STATISTICAL INFORMATION ABOUT EACH OF UP TO 120 VARIABLES. THE NUMBER OF ENTITIES IS UNRESTRICTED.

COMMENTS:

CPSA23-890457 - ORDERABLE UNDER COVER NUMBER 890400.

SIGMA 5/7

EDIT DATA CARDS FOR ILLEG. PUNCHES & SEQ.

ABSTRACT: THIS PROGRAM CHECKS DATA CARDS FOR NON-NUMERIC PUNCH CODES AND FOR CORRECT CARD SEQUENCE.

CPSA24-890458 - ORDERABLE UNDER COVER NUMBER 890400.

890459

SIGMA 5/7

ENTITY SELECTION

ABSTRACT: THO METHODS FOR SELECTING ENTITIES FROM A TOTAL ENTITY POOL ARE PROVIDED. THE USER SPECIFIES EITHER THE PROPORTION OF ENTITIES TO BE RANDOMLY SELECTED OR THE CRITERIA BY WHICH TO INCLUDE OR EXCLUDE AN ENTITY BY UP TO 1000 CRITERIA.

CPSA25-890459 - ORDERABLE UNDER COVER NUMBER 890400.

890460

SIGMA 5/7

FACTOR ANALYSIS (PRINCIPLE COMPONENTS)

ABSTRACT: DESIGNAL:

UP TO 50 PRINCIPAL COMPONENTS AND LATENT ROOTS ARE EXTRACTED FROM A CORRELATION MATRIX HITH UP TO 2889
VARIABLES. THE USER MAY SPECIFY THE NUMBER OF FACTORS HE DESIRES OR HAVE THE PROGRAM USE GUTTMAN'S
CRITERION TO DETERMINE THE NUMBER TO EXTRACT

CPSA26-890460 - ORDERABLE UNDER COVER NUMBER 890400.

890461

HIERARCHICAL TRANSFORMATION

SIGMA 5/7 DETRACTI THE HIERARCHICAL TRANSFORMATION PROGRAM UTILIZES THE RESULTS FROM FACTOR ANALYSIS AND ROTATI**on programs** To compute the relationship of each variable in the first order analysis to each h**igher order factor.**

CPSA27-890461 - ORDERABLE UNDER COVER NUMBER 890400.

890465

FACTOR ANALYSIS WITH ROTATION

SIGMA 5/7
ABSTRACT: BEGINNING WITH THE RAW DATA OR THE CORRELATION MATRIX, THE PRO GRAM EXTRACTS THE PRINCIPAL COMPONENTS, Principal axis factors using estimated communalities improved by Iteration, or Image Amalysis factors. COMMENTS:

CPSA28-890465 - ORDERABLE UNDER COVER NUMBER 890400.

890466

SIGMA 5/7

FACTOR EXTENSION

ABSTRACT: THE LOADINGS OF UP TO 100 VARIABLES NOT IN THE ORIGINAL FACTOR ANALYSIS ARE COMPUTED FROM THE CORRELATIONS OF THESE NEW, EXTEN SION VARIABLES HITH THE VARIABLES IN THE INITIAL FACTOR ANALYSIS. THE ORIGINAL FACTOR ANALYSIS HAY CONTAIN UP TO 300 VARIABLES AND 50 FACTORS. A SHALL PROBLEM TOOK LESS THAN 1/2 HINUTE TO RUN.

COMMENTS: CPSA29-890486. - ORDERABLE UNDER COVER NUMBER 890400.

890467

SIGNA 5/7

FACTOR HYPOTHESIS TESTING

ABSTRACT: STRACT:
GIVEN A HYPOTHESIZED REFERENCE VECTOR STRUCTURE, THE TRANSFORMA TION MATRIX NECESSARY TO ROTATE THE
ORTHOGONAL FACTOR MATRIX TO THE CLOSEST POSITION TO THE HYPOTHESIZED STRUCTURE IS FOUND. THE ERROR
BETHEEN THIS CLOSEST FIT IS COMPARED TO THE ERROR FROM A SET OF RANDOM 'HYPOTHESIS' MATRICES. IF THE
ACTUAL HYPOTHESIS STRUCTURE FITS THE FACTOR MATRIX SIGNIFICANTLY BETTER THAN THE RANDOM STRUCTURES, IT IS CONSIDERED TO BE CONFIRMED. COMMENTS:

CPSA30-890467 - ORDERABLE UNDER COVER NUMBER 890400.

890468

FACTOR RELATING

ABSTRACT: ISTRACT:
THE PROGRAM ROTATES UP TO 200 VARIABLE VECTORS OF ONE STUDY AS CLOSELY AS POSSIBLE TO THE SAME VARIABLE
VECTORS FROM ANOTHER STUDY AND THEN COMPUTES THE CORRELATIONS BETHEEN THO SETS OF UP TO 30 PRIMARY
FACTORS. IT ALSO COMPUTES THE CORRELATIONS BETHEEN THE PAIRED VARIABLE VECTORS. THE PROGRAM ACCEPTS
OBLIQUE FACTORS AS HELL AS ORTHOGONAL FACTORS. COMMENTS:

CPSA31-890468 - ORDERABLE UNDER COVER NUMBER 890400.

890469

SIGMA 5/7

FACTOR ROTATION

ABSTRACT: ISTRACT:
THIS PROGRAM READS AN ORTHOGONAL FACTOR MATRIX AND ROTATES THE FACTORS FIRST TO THE NORMALIZED
ORTHOGONAL VARIHAX CRITERION, AND THEN, USING THE VARIHAX RESULTS AS A TARGET MATRIX, IT COMPUTES AN
OBLIQUE SOLUTION USING THE PROMAX PROCEDURE. THE PROGRAM WILL ACCEPT UP TO 300 VARIABLES AND UP TO 38
FACTORS. A 277 VARIABLE BY 30 FACTOR PROBLEM TOOK 11-1/2 MINUTES WHILE A 24 VARIABLE, 4 FACTOR PROBLEM
TOOK ONE MINUTE.

COMMENTS: CPSA32-890469 - ORDERABLE UNDER COVER NUMBER 890400.

PAGE 18 - 01/31/75

ABSTRACT:
THIS PROGRAM COMPUTES FACTOR SCORES BY CALCULATING A HEIGHT FROM THE FACTOR STRUCTURE AND APPLYING IT TO A SET OF RAW SCORES. THE HEIGHT HATRIX IS CALCULATED ACCORDING TO ONE OF THREE PROCEDURES.

(1) LEASTSQUARES (MULTIPLE CORRELATION) PROCED URE, (2) SALIENT VARIABLE PROCEDURE (ALL VARIABLES CORRELATING HITH THE FACTOR ABOVE THE USER SPECIFIED LEVEL ARE HEIGHTED 1.0 AND ALL OTHERS 0.0), OR, (3) HIGHEST SALIENT VARIABLE PROCEDURE (THE HIGHEST FACTOR STRUCTURE LOADING FOR EACH VARIABLE IS GIVEN A HEIGHT OF 1.0, WHILE ALL OTHER LOADINGS FOR THAT VARIABLE ARE SET TO 0.0). THE PROGRAM ACCEPTS A MAXIMUM OF 100 VARIABLES AND 50 FACTORS.

COMMENTS:
CPSATZ-0009774 CACCOLORS

CPSA33-890470 - ORDERABLE UNDER COVER NUMBER 890400.

890471

FILE PROCESSING

SIGMA 5/7 SSTRACT:
THE FILE PROCESSING PROGRAM IS AN AID TO THE HANDLING OF NONCARD DATA FILES (E.G., TAPES). IT PLACES DATA
FROM CARDS INTO A FILE, UPDATES, PRINTS, COPIES A SET OF FILES FROM ONE DEVICE TO ANOTHER, MERGES THO
FILES, MERGES THO FILES WHILE CHECKING FOR INAPPROPRIATE ENTITY ID'S IN THE SECOND FILE, AND ORDERS THE
RECORDS OF A FILE CONTAINING UP TO 1200 RECORDS ACCORDING TO THE FIRST ID CHARACTERS IN EACH RECORD. ALL
RECORDS ARE ASSUMED TO BE UNBLOCKED, 80-COLUMN EBCDIC CARD IMAGES.

COMMENTS: CPSA34-890471 - ORDERABLE UNDER COVER NUMBER 890400.

890472 SIGMA 5-9 CLUSTER ANALYSIS : HIERARCHICAL GROUPING

ABSTRACT: THIS PROGRAM CLUSTERS A SET OF ENTITIES INTO SUCCESSIVELY FEHER GROUPS ON THE BASIS OF A LEAST SQUARES CRITERION HHICH COMBINES THOSE ENTITIES SEPARATED BY THE LEAST DISTANCE. DISTANCE IS DEFINED INITIALLY BY SUMMING THE SQUARED DIFFERENCES BETHEEN THO ENTITIES FOR EACH VARIABLE.

CPSA35-890472 - ORDERABLE UNDER COVER NUMBER 890400.

890473

SIGMA 5/7

ITEM ANALYSIS

ABSTRACT: THIS PROGRAM SCORES TESTS CONSISTING OF UP TO 500 CATEGORICAL (ONE CORRECT ANSHER, AS IN MULTIPLE CHOICE QUIZZES) OR INTERVAL (RANGE OF 'CORRECT' ANSHERS, AS IN RATING SCALES) ITEMS. IT ALSO CALCULATES ITEM AND TEST STATISTICS AND HILL CORRELATE EACH ITEM HITH UP TO 5 ADDITIONAL CRITERIA.

CPSA36-890473 - ORDERABLE UNDER COVER NUMBER 890400.

890474

MULTIPLE CLASSIFICATION ANALYSIS

SIGMA 5/7
ABSTRACT: MULTIPLE CLASSIFICATION ANALYITS IS A TECHNIQUE FOR EXAMINING THE INTER-RELATIONSHIPS BETHEEN SEVERAL PREDICTOR VARIABLES AND A DEPENDENT VARIABLE HITHIN THE CONTEXT OF AN ADDITIVE MODEL.

CPSA37-890474 - ORDERABLE UNDER COVER NUMBER 890400.

890475

SIGMA 5/7

MULTIPLE DISCRIMINANT ANALYSIS

ABSTRACT: A MULTIPLE DISCRIMINANT ANALYSIS IS CALCULATED ON A SET OF UP TO 85 VARIABLES FOR THO TO 50 PREVIOUSLY DEFINED GROUPS. RUNNING TIME IS SLIGHTLY LONGER THAN THAT OF THE USUAL PROGRAM.

CPSA38-890475 - ORDERABLE UNDER COVER NUMBER 890400.

890476

SIGMA 5/7

MULTIPLE REGRESSION ANALYSIS

ABSTRACT: THIS PROGRAM READS EITHER RAH SCORES OF A CORRELATION MATRIX AND PERFORMS ONE OR MORE MULTIPLE
REGRESSION ANALYSES USING SUBSETS OF VARIABLES SPECIFIED BY THE USER. F-TESTS BETWEEN THE DIFFERENT
REGRESSION MODELS MAY ALSO BE COMPUTED.

CPSA39-890476 - ORDERABLE UNDER COVER NUMBER 890400.

890477

SIGMA 5/7

MULTIPLE REGRESSION ANALYSIS, STEPHISE

ABSTRACT: INDEPENDENT VARIABLES ARE ADDED INTO OR DELETED FROM THE REGRES SION EQUATION ACCORDING TO THEIR RELATIVE IMPORTANCE AS JUDGED BY THEIR INCREMENTAL EFFECT ON THE MULTIPLE CORRELATION COEFFI CIENT. OPTIONS ARE PROVIDED TO TRANSFORM VARIABLES, TO CREATE NEW VARIABLES, AND TO OMIT THE CONSTANT TERM FROM THE EQUATION. COMMENTS:

CPSA40-890477 - ORDERABLE UNDER COVER NUMBER 890400.

SIMULTANEOUS LINEAR EQUATIONS

ABSTRACT: THE PROGRAM READS SYSTEMS OF UP TO 40 LINEAR EQUATIONS IN MATRIX FORM AND COMPUTES THE UNKNOWNS. CROUT'S VARIATION OF THE 0 AUSSIAN ELIMINATION METHOD ISUSED.

CPSA41-890478 - ORDERABLE UNDER COVER NUMBER 890400.

TEST SCORING 890479 SIGMA 5/7

ABSTRACT: INIMAGE: THE PROGRAM READS UP TO 600 ITEM RESPONSES PER ENTITY, SCORES THEM FOR UP TO 50 SCALES, AND CALCULATES A SCORE FOR EACH ENTIT Y ON EACH SCALE. TOTAL NUMBER OF ITEMS MULTIPLIED BY THE NUMBER OF SCALES CANNOT EXCEED 5000. COMMENTS:

CPSA42-890479 - ORDERABLE UNDER COVER NUMBER 890400.

SIGMA 5/7 890480

TRANSGENERATION

ABSTRACT: THIS PROGRAM HILL TRANSFORM OR TRANSGENERATE UP TO 99 VARIABLES PER SUBJECT. EITHER A SPECIFIED SUBSET OF VARIABLES OR ALL VAR IABLES CAN BE TRANSGENERATED.

CPSA43-890480 - ORDERABLE UNDER COVER NUMBER 890400.

890481

SIGHA 5/7

T-TESTS AND F-RATIOS

ABSTRACT: THIS PROGRAM COMPUTES T-TESTS AND F-RATIOS FOR EITHER RELATED OR UNRELATED DATA FOR UP TO 500 VARIABLES. COMMENTS:

CPSA44-890481 - ORDERABLE UNDER COVER NUMBER 890400.

890531 SIGMA 5/7 FILE EDITOR (METAMEDIA)

JANUS TIMESHARING SYSTEM

AUTHOR: XEROX

ABSTRACT:

TO ALLOH THE USER TO PERFORM A VARIETY OF FILE-EDITING TASKS CONVERTING DATA TYPES OF SOURCE, COMPRESSED AND BINARY. IT ALLOHS BLOCKING AND DEBLOCKING, COMPRESSION AND DECOMPRESSION, UPDATING BY FILE, RECORD, AND/OR CONTENT OF RECORDS, AND VERIFICATION OF COPIES. COMMENTS:

PROGRAM TYPE:PROGRAM LANGUAGE:META-SYMBOL SYSTEM:BCM
STORAGE:3800 HORDS DOC.PAGES:89 DATE:11/26/89 ADDITIONAL INFORMATION: THIS PROGRAM HILL RUN UNDER BCH, RBM2 AND BPM.

890532 SIGMA 5/7 AUTHOR: HICHIGAN STATE

ABSTRACT:

JANUS IS A TIMESHARED OPERATING SYSTEM. PERMITS SIMULTANEOUS EXECUTION OF TASKS, INVOKED BY THE OPERATOR FROM A LIBRARY OF TASKS ON THE DISC. TASKS CONSIST OF JBCM (JANUS BASIC CONTROL MONITOR), JFCM (JANUS FILE CONTROL MONITOR), AND JPCM (JANUS PROCESS CONTROL MONITOR). COMMENTS: PROGRAM TYPE:SYSTEM LANGUAGE:SYMBOL* SYSTEM:BPM DOCU.PAGES:38 DATE:12/29/88. ADDITIONAL INFORMATION:*JANUS MUST BE ASSEMBLED USING MODIFIED SYMBOL FILE 5 JANUS SOURCE MAG. TAPE. THIS IS DUE TO THE IMPL. OF THE LIST/NOLIST OPTIONS IN JANUS SYMBOL AND THE USE OF THEM IN THE JANUS SOURCE ELEMENTS.

SIGHA 7 GORDO TIME SHARED GRAPHICS FACILITY AUTHOR: G. B. ANDERSON, LAHRENCE RADIATION LABORATORY

GORDO PROVIDES INTERACTIVE GRAPHIC SERVICE TO UP TO 8 USER TERMINALS. EACH TERMINAL SHOULD CONSIST OF A CRT WITH KEYBOARD, FUNCTION BUTTONS, AND A LIGHT PEN. THE SYSTEM PROVIDES HIGH RATES OF INTERACTION FOR A SMALL NUMBER OF USERS AND A HIGH DEGREE OF SECURITY IN HANDLING USER FILES AND PROCESSES.

PROGRAM TYPE:SYSTEM LANGUAGE:SYMBOL DOCU.PAGES:44 DATE 12/89 SYSTEM HILL RUN IN A 32K SIGMA 7

94 SIGMA 5/7 PHORHER - DATA AUTHOR:TCHELL - P. HUGHES MD ANDERSON HOSPITAL PHORMER - DATAFORM GENERATOR BY PLOTTER 890534

PHORNER ENABLES THE PROGRAMMER TO SPECIFY THE FORM IN COMPUTER TERMS FROM A ROUGH SKETCH. THESE SPECIFICATIONS SERVE AS INPUT TO PHORNER HAICH THEN PLOTS THE FINISHED FORM ON THE CALCOMP PLOTTER. THIS PLOT CAN BE DIRECTLY PHOTOCOPIED AND REPRODUCED FOR IMMEDIATE USE.

NGUAGE: FORTRAN IV-H. SYSTEM: RSM.

890543 SIGMA 5/7 TIC TAC TOE -30

AUTHOR: XEROX

ABSTRACT:
THE PROGRAM PLAYS 3-D TIC TAC TOE HITH A HUMAN OPPONENT. IT HILL OPERATE UNDER ANY SYSTEM SUPPORTING FORTRAN IVH, INCLUDING BTM.

COMMENTS: PROGRAM TYPE:GAME LANGUAGE:FORTRAN IV SYSTEM:BCM,RBM,BTM DOCU.PAGES:10 DATE:01/23/70 ADDITIONAL INFORMATION: MODIFIED FROM 1620 PROGRAM.

SIGMA 5/7 UTILITY PACKAGE 'HELP'

AUTHOR: R. I. NUSTVEDT - XDS

PROVIDES AN EASILY EXPANDED COLLECTION OF UTILITY ROUTINES, SHARING A COMMON EXECUTIVE ROUTINE AND MANY SUBROUTINES. THE ROUTINES INCLUDED IN THE BASIC PACKAGE ARE DESIGNED TO FACILITATE THE PREPARATION, LOADING, DEBUGGING AND DUMPING OF MACHINE LANGUAGE PROGRAMS. THIS IS A STAND-ALONE PACKAGE.

5 SIGMA 5-9 FORTRAN CROSS REFERENCE PROGRAM AUTHOR:P. SHERROD, VANDERBILT UNIVERSITY 890545

ABSTRACT:

ASTRACT:

CROSS IS A UTILITY PROCESSOR MHICH HILL PRODUCE A CROSS REFERENCE LISTING OF A FORTRAN SOURCE PROGRAM.

ALL VARIABLES AND STATEMENT NUMBERS ARE LISTED IN ALPHA-NUMERIC ORDER HITH THE NUMBERS OF THE LINES ON

WHICH THEY APPEAR. THE MAIN PROGRAM AND ANY SUBPROGRAMS ARE CROSS REFERENCED SEPARATELY. CROSS MILL

ACCEPT THE EXTENDED FORTRAN LANGUAGE MHICH IS LEGAL TO XEROX EXTENDED FORTRAN-IV.

THIS PROGRAM HILL RUN UNDER BPM/BTM AND UTS OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY.

THIS PROGRAM HILL RUN UNDER BPH/BIT AND UTS OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY.

BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN META-SYMBOL.

THE BOO VERSION OF THIS PROGRAM CORRECTS A NUMBER OF BUGS HHICH CAUSED THE FIRST VERSION TO MISS SYMBOLS
IN THE SOURCE PROGRAM. IT ALSO IMPLEMENTS AN OPTION HHICH ALLOWS THE CROSS REFERENCE TO BE PERFORMED
HITH RESPECT TO BOIT KEYS IF THE FORTRAN SOURCE PROGRAM IS IN AN EDIT KEYED FILE. THE SIGMA 5 MUST HAVE
HBS AND CVS SIMULATION.

SIGMA 5-9 GETFILE AUTHOR: SHERROD, NASHVILLE TENNESSEE - LIPFORD, XEROX

ABSTRACT:

BETTACT:

GETFILE IS A UTILITY PROCESSOR HHICH MAY BE USED TO MOVE GROUPS OF FILES FROM LABELED TAPE TO DISC,

FROM DISC TO LABELED TAPE, OR FROM ONE LABELED TAPE TO ANOTHER LABELED TAPE.

SIGMA 5/7 SNAP TRANSLATOR

AUTHOR: H. P. BARNETT, ABSTRACT:

THIS IS A FORTRAN PROGRAM HHICH TRANSLATES PROGRAMS HRITTEN IN SNAP(STYLIZED NATURAL PROCEDURAL LANGUAGE SNAP HAS DESIGNED AS A KIND OF BASIC ENGLISH TO APPEAL TO STUDENTS HHO USE HORDS RATHER THAN SYMBOLS AS THEIR NATURAL FORM OF EXPRESSION. COMMENTS:

LANGUAGE: FORTRAN SYSTEM: BPM STORAGE: 23K

FREE-FIELD EBCDIC INPUT ROUTINE

AUTHOR: M. COBB, RCA INTERNATIONAL

THIS ROUTINE READS IN CARD IMAGES AND, USING A FREE-FIELD FORMAT, DECODES THE EBCDIC INTO MACHINE DOUBLEHORDS OF DATA.

SIGHA 5/7 GENERALIZED EBCDIC OUTPUT ROUTINE

AUTHOR: M. COBB, RCA INTERNATIONAL ABSTRACT:

THIS ROUTINE PERFORMS THE CONVERSIONS FROM MACHINE HORDS TO AN ESCUIC LINE IMAGE REPRESENTATION FOR Listing and outputs the line to a specified destination.

890554 SIGMA 5/7 CARD LISTER USING SIG 5/7 (STAND-ALONE)

AUTHOR: D. GOEMOTZ, XDS ABSTRACT:

ONE CARD PROGRAM THAT ALLOHS PROGRAMMER TO LIST EBCDIC CARDS ON LINEPRINTER.

COMMENTS:

PROGRAM TYPE:PROGRAM STORAGE:50 HORDS LANGUAGE: BIN SYSTEM: STAND-ALONE

DOC PAGES: 1 DATE: 01/20/70.

890556 SIGMA 5/7 CARD DUPLICATOR - USES 7160 PUNCH

AUTHOR: G. GLICKMAN, XDS ABSTRACT:

ONE CARD PROGRAM USING THE 7180 CARD PUNCH. PROGRAM HILL PUNCH DUPLICATION OF CARDS FOLLOWING IT IN CARD READER.

PROGRAM TYPE:PROGRAM LANGUAGE:BIN CARD SYSTEM: STAND-ALONE

DATE: 01/20/70 STORAGE:50 HORDS DOC.PAGES:2

890557 SIGMA 5/7 BIRD HHISTLING-SIMULATION

AUTHOR: B. BROHN, XDS

ABSTRACT: SOUNDS LIKE MANY BIRDS WHISTLING, CHIRPING, ETC.

COMMENTS: PROGRAM TYPE:PROGRAM LANGUAGE: MACHINE SYSTEM: STAND-ALONE DATE:01/09/70 STORAGE:50 HORDS DOC . PAGES: 1

BUSINESS POLICY GAME AUTHOR: DR. R.V. COTTER, UNIV. OF NEVADA

THE PROGRAM CONSTITUTES A BUSINESS SIMULATION EXERCISE (COVERING UP TO 20 QUARTERLY PERIODS) HHICH PERHITS 3 TO 6 MANAGEMENT TEAMS TO COMPETE IN A HYPOTHETICAL OLOGOPOLISTIC INDUSTRY (LITTLE PRODUCT DIFFERENCIATION AMONG COMPETITORS). THE GAME REQUIRES MANAGEMENT DECISIONS REGARDING FINANCE, MARKETING. PRODUCTION, OTHER VARIABLES COVERING A HIDE SPECTRUM OF BUSINESS.

COMMENTS:

PROGRAM TYPE:PROG. STORAGE:16K

LANGUAGE:FORTRAN IV

DATE:4/13/70

890559

BTM/3 GASP II

9 SIGMA 5/7 AUTHOR:P. BECKER - XDS

ABSTRACT:

SSTRACT:

BTM/3 GASP II IS AN EVENT ORIENTED GENERALIZED ACTIVITY SIMULATION PROGRAM HHICH MAY BE USED FROM A
REMOTE TERMINAL ATTACHED TO A HINIHUM CONFIGURATION BATCH TIME SHARING SYSTEM. BTM/3 GASP II IS USED FOR
DISCRETE SIMULATION, THE USER HRITES IN FORTRAN, THE EVENTS TO BE SIMULATED. APPLICATIONS INCLUDE
INVENTORY MODELS, COMPUTER SYSTEMS AND AREAS WHERE SIMULATION IS EVENT ORIENTED VERSUS QUEING.

890560

S1GMA 5/7

BPM/3 GASP 11 SIMULATION PACKAGE

AUTHOR: P. BECKER - XDS

ABSTRACT:

BPM/3 GASP II IS AN EVENT ORIENTED GENERALIZED ACTIVITY SIMULATION PROGRAM. IT IS USED FOR DISCRETE SIMULATION, THE USER HRITES IN FORTRAN, THE EVENTS TO BE SIMULATED. APPLICATIONS INCLUDE INVENTORY MODELS, COMPUTER SYSTEMS AND AREAS WHERE SIMULATION IS EVENT ORIENTED VERSUS QUEING.

SI SIGHA 5/7 ANALOG DIGITAL SIMULATION PROGRAM AUTHOR:R. MANNING, VANDERBILT UNIVERSITY

ABSTRACT:

STRACT:
ANALOG IS AN INTERPRETIVE SIMULATION PROGRAM WITH THE PROVISION FOR REPEATING PROBLEMS WITH NEW
PARAMETERS. ANALOG IS USEFUL FOR SOLVING BOUNDARY VALUE AND OTHER TYPES OF ITERATIVE PROBLEMS. FOR
SIMPLICITY ONLY THE COMMON ANALOG COMPUTER ELEMENTS ARE INCLUDED WITH PROVISION FOR THE USER TO ADD
OTHER USEFUL DEVICES. OUTPUT INCLUDES PUNCHING, PLOTTING AND PRINTING.

COMMENTS:

PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV STORAGE:30-45K HORDS DOC.PAGES:43

SYSTEM: BPH DATE: 06/08/70.

890562

SIGMA 5/7 AUTHOR: BUCKNELL UNIVERSITY PAYROLL SYSTEM

ABSTRACT:

THE PAYROLL SYSTEM CONSISTS OF THREE PARTS: PAYROLL RUN, TIME REPORTS, AND QUARTERLY REPORTS. THE PACKAGE CONTAINS 18 PROGRAMS, THREE OF WHICH ARE IN XOS COBOL AND THE REST IN XDS FORTRAN IV. CHECKS ARE PRODUCED, PAYROLL DISTRIBUTIONS PRINTED, CHECK REGISTERS PRINTED, TIME REPORTS, SOCIAL SECURITY REPORTS, LOCAL TAX REPORTS AND ALL ASSOCIATED RECORD KEEPING.

PROGRAM TYPE: PACKAGE LANGUAGE: FORTRAN/COBOL SYSTEM: BPM DOC. PAGES: 238 DATE: 05/15/70.
THIS PACKAGE CONTAINS CATALOG NUMBERS 890563 - 890578. DOUBLE PRECISION OPTION MUST BE USED ON ALL
FORTRAN PROGRAMS. COMMENTS: PROGRAM TYPE: PACKAGE

PAYROLL TOTALS CONFIRMATION

890563 SIGHA 5/7 PAYROLL TOTALS
AUTHOR: MRS. CAROL VARGAS - BUCKNELL UNIVERSITY

ABSTRACT:

MAKES SURE THAT THE VALUES ON THE INPUT CARDS ARE EQUAL TO CHECKSUMS PROVIDED BY THE PAYROLL OFFICE.

PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV PART OF PAYROLL SYSTEM CATALOG NO. 890582. SYSTEM: BPH

94 SIGMA 5/7 GENERAL PAYROLL REGISTER AUTHOR: MRS. CAROL VARGAS - BUCKNELL UNIVERSITY

PRODUCES A CHECK REGISTER WITH THE INFORMATION THAT IS ON EACH CHECK PRINTED AND TOTALS.

PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV PART OF PAYROLL SYSTEM CATALOG NO. 890582.

55 SIGMA 5/7 PAYROLL ERROR CHECK AUTHOR:HRS. CAROL VARGAS - BUCKNELL UNIVERSITY 890565

ABSTRACT:

HHEN TOTALS FROM PAYROLL TOTALS ARE INCORRECT, THIS PROGRAM IS USED. IT PRINTS OUT SUMS(HOURS, GROSS) BY EMPLOYEE NUMBER.

SYSTEM: BPM

COMMENTS:

PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV PART OF PAYROLL SYSTEM CATALOG NO. 890562. SYSTEM: BPH DATE: 05/15/70.

```
36 SIGMA 5/7 PAYROLL CHECKS
AUTHOR:MRS. CAROL VARGAS - BUCKNELL UNIVERSITY
ABSTRACT:
PRINTS PAYROLL CHECKS.
COMMENTS:

PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM DATE: 05/15/70.

PART OF PAYROLL SYSTEM CATALOG NO. 890582.
```

S7 SIGMA 5/7 EXTRACT HAGE CARDS
AUTHOR: JOHN KOCH - BUCKNELL UNIVERSITY

ABSTRACT:
EXTRACTS PAYROLL WAGE CARDS AND 'P' CARDS PRIOR TO RUNNING THE PAYROLL DISTRIBUTION PROGRAM. SYSTEM: BPH DATE: 05/15/70.

PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV PART OF PAYROLL SYSTEM CATALOG NO. 890582.

SIGHA 5/7 PAYROLL DISTRIBUTION 890568 AUTHOR: MRS. CAROL VARGAS - BUCKNELL UNIVERSITY

ABSTRACT:
PRINTS THE STRAIGHT PAYROLL DISTRIBUTION AND THE BUILDING AND GROUNDS DISTRIBUTION COMMENTS:

PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM DATE: 05/15/70.
PART OF PAYROLL SYSTEM CATALOG NO. 890582.

DEDUCTION REGISTER 890569 SIGHA 5/7 AUTHOR: MRS. CAROL VARGAS - BUCKNELL UNIVERSITY ABSTRACT:
GENERATES THE DEDUCTION REGISTER FOR STANDARD AND SPECIAL DEDUCTIONS.

COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM DATE: 05/15/70.
PART OF PAYROLL SYSTEM CATALOG NO. 890582.

0 SIGMA 5/7 EXTRACT PAYROLL 5 CARDS AUTHOR:MRS. CAROL VARGAS - BUCKNELL UNIVERSITY ABSTRACT: EXTRACTS PAYROLL '5' CARDS PRIOR TO RUNNING THE SPECIAL DEDUCTION REGISTER. PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: 8PM DATE: 05/15/70. PART OF PAYROLL SYSTEM CATALOG NO. 890582.

1 SIGMA 5/7 SPECIAL DEDUCTION REGISTER AUTHOR: MRS. CAROL VARGAS - BUCKNELL UNIVERSITY 890571 ABSTRACT: GENERATES THE SPECIAL DEDUCTION REGISTER.

COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN 1V SYSTEM: BPM DATE: 05/15/70. PART OF PAYROLL SYSTEM CATALOG NO. 890562.

72 SIGMA 5/7 INSERT DEPARTH AUTHOR:MRS. CAROL VARGAS - BUCKNELL UNIVERSITY INSERT DEPARTMENT NUMBER PUTS DEPARTMENT NUMBER ON ALL CARDS PRIOR TO SORTING INTO DEPARTMENT NO. ORDER. COMMENTS: PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV PART OF PAYROLL SYSTEM CATALOG NO. 890582. SYSTEM: BPH DATE: 05/15/70.

GENERATE PAYROLL TIME REPORTS SIGMA 5/7 AUTHOR: HOMER ELDRIDGE - BUCKNELL UNIVERSITY ABSTRACT: GENERATES THE BUILDING AND GROUNDS AND THE CLERICAL PAYROLL TIME REPORTS. COMMENTS: PROGRAM TYPE: PROGRAM LANGUAGE: COBOL PART OF PAYROLL SYSTEM CATALOG NO. 890582. SYSTEM: BPH DATE: 05/15/70.

74 SIGMA 5/7 CREATE QUARTER! Author:mrs. Carol Vargas - Bucknell University 890574 CREATE QUARTERLY REPORT RECORD ABSTRACT: GENERATE 180 CHARACTER RECORD FOR USE IN QUARTERLY REPORTS. COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM DATE: 05/15/70.
PART OF PAYROLL SYSTEM CATALOG NO. 890582.

```
890575 SIGMA 5/7 PAYROLL QUARTERLY PROOF AND LOCAL TAX
AUTHOR:CARLTON DEPNER - BUCKNELL UNIVERSITY
ABSTRACT:
PRINTS OUT EITHER THE PAYROLL QUARTERLY PROOF OR THE LOCAL TAX REPORT
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: COBOL SYSTEM: BPM DATE: 05/15/70.
PART OF PAYROLL SYSTEM CATALOG NO. 890582.
```

890576 SIGMA 5/7 SOCIAL SECURITY QUARTERLY REPORT
AUTHOR:CARLTON DEPNER - BUCKNELL UNIVERSITY
ABSTRACT:
PRINTS THE QUARTERLY REPORT FOR SOCIAL SECURITY.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: COBOL SYSTEM: 8PM DATE: 05/15/70.
PART OF PAYROLL SYSTEM CATALOG NO. 890562.

890577 SIGHA 5/7 PAYROLL PROOF TEST
AUTHOR:CARLTON DEPNER - BUCKNELL UNIVERSITY
ABSTRACT:
IS USED TO PROVE THAT THE INPUT CARDS ARE IN THE CORRECT ORDER.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM DATE: 05/15/70.
PART OF PAYROLL SYSTEM CATALOG NO. 890582.

890581 SIGMA 5/7 SOP-STUDENT ONLINE PREREGISTRATION PROG.

AUTHOR: XEROX

ABSTRACT:

THE SOP PROGRAM IS DESIGNED TO PROVIDE A MEANS OF GATHERING STUDENT INFORMATION FOR COLLEGE AND

UNIVERSITY CLASS REGISTRATION. INPUT IS VALIDITY CHECKED AT THE TIME OF ENTRY THEREBY ELIMINATING HUMAN

ERROR SUCH AS COURSE CONFLICTS INCORRECT NAME SPELLING OR HRONG STUDENT NUMBER.

UNITION 3:
PROGRAM TYPE:PACKAGE LANGUAGE:SYM., METASYM. SYSTEM:8PM/8TM STORAGE:1179 HORDS DOC.PAGES:11
DATE:05/29/70. SEE DESCRIPTION PRINTED FOR ADDITIONAL INFORMATION.

890582 SIGMA 5/7 BLDCRSE-S-O-P COURSE NAME PROGRAM
AUTHOR: XEROX
ABSTRACT:
PROGRAM BLDCRSE USES CARDS AS INPUT TO CREATE A FILE OF COURSES TO BE USED BY STUDENT ONLINE
PREREGISTRATION (S-O-P PROGRAM)
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:METASYMBOL SYSTEM:BPM/BTM.

890583 SIGMA 5/7 BLDNAME - S-0-P STUDENT NAME PROGRAM
AUTHOR: XEROX
ABSTRACT:
BLDNAME USES CARDS AS INPUT TO CREATE A FILE OF STUDENT NAMES, ADDRESSES, AND TELEPHONE NUMBERS TO BE
USED BY STUDENT ONLINE PREREGISTRATION PROGRAM (S-0-P PROGRAM).
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:METASYMBOL SYSTEM:BPM/BTM DATE:05/29/70.

890585 SIGMA 5/7 BPM SELF SCARE- CARD READER SYMB. START
AUTHOR:A.MITCHELL, BUCKNELL UNIVERSITY
ABSTRACT:
SELF SCARE AUTOMATICALLY INITIATES THE SCRA03 SYMBIONT DEVICE AFTER THE SYSTEM HAS RECEIVED A IFIN CAMD
HHEN THE START BUTTON IS DEPRESSED.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:METASYMBOL SYSTEM:BPM/BTM
STORAGE:60 HORDS DOC.PAGES:1 DATE:08/01/70
ADDITIONAL INFORMATION:THIS PROGRAM HITH PATCH IS FOR DOI OPERATING SYSTEM.

90587 SIGMA 5/7 EBCDIC-HEXDUMP MAG TAPE / RAD FILE
AUTHORIR. LOFQUIST, TRANSDATA CORP.
ABSTRACT:
PROGRAM DUMPS IN HEXIDECIMAL AND EBCDIC, MAG TAPE OR RAD FILES ON THE LISTING OUT DEVICE.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:METASYMBOL SYSTEM:BPM STORAGE:8500 HORDS DOC.PAGES:1
DATE:06/01/70. ADDITIONAL INFORMATION:PROGRAM USES H:EI, H:SI, H:LO DCBS.

890588 SIGMA 5/7 DELETE RAD FILE PROGRAM
AUTHOR:R. LOFQUIST, TRANSDATA CORP.
ABSTRACT:
USED TO DELETE FILES IN THE CURRENT ACCOUNT BY FILE NAME, WITH A SINGLE CARD OR CARDS.
COMMENTS:
PROGRAM TYPE:PROGRAM STORAGE:28 WORDS DOC.PAGES:2 DATE:08/01/70

PAGE 24 - 01/31/75

FORTIV-SCATTER READ/HRITE MAG TAPE PACK. 890589

AUTHOR: SACRAMENTO PEAK OBSERVATORY

ABSTRACT:

THIS PACKAGE CONTAINS FORTRAN-IV CALLABLE ROUTINES FOR READING A 7 OR 9 TRACK TAPE NOT HRITTEN BY A FORTRAN PROGRAM. THE PACKAGE IS BASED ENTIRELY ON BYTE TRANSFERS, NOT HORDS. BLOCKED TAPES, LONG RECORDS AND PACKED BINARY CAN BE HANDLED EASILY.

PROGRAM TYPE: PACKAGE LANGUAGE: METASYMBOL SYSTEM: BPM/BTM DATE: 06/02/70.

890590

O SIGMA 5/7 PERSPECTIVE PLOT AUTHOR: RICHARD BUSH, DENNIS RUFF - SACRAMENTO PEAK OBSERVATORY

AUTHOR: RICHARD BUSH, DENRIS HOFF - SACHARERY FEAR OBSERVATION.

ABSTRACT:

THE PURPOSE OF THIS PROGRAM IS TO PLOT SURFACES WHICH CAN BE EXPRESSED AS A FUNCTION OF THO VARIABLES:

Y= F(X,Y). PERSPECTIVE INSTEAD OF CONTOUR PLOT, IS USED IN THIS PROGRAM GIVING THE PLANAR PROJECTION

WHICH BEST REPRESENTS REAL OBJECTS AS VIEWED BY THE NAKED EYE.

COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV-H SYSTEM: RBM/BPM.

SIGMA 5/6/7
AUTHOR:BUCKNELL UNIVERSITY GENERAL LEDGER SYSTEM (COVER) 890591

ABSTRACT: THE GENERAL LEDGER SYSTEM IS A RECORD OF ALL GENERAL LEDGER TRANSACTIONS OF THE UNIVERSITY. THE PACKAGI CONTAINS SIX PROGRAMS THO OF WHICH ARE IN XDS COBOL AND THE REST IN XDS FORTRAN IV. DISTRIBUTION TRIAL BALANCE, MONTHLY BUDGET STATEMENTS, GENERAL LEDGER TOTALS, GENERAL LEDGER PROOF, GENERAL LEDGER MONTHLY STATEMENT, AND OUTSTANDING CHECK LISTING ARE CREATED AND PRINTED BY THE SYSTEM. COMMENTS:

PROGRAM TYPE:PACKAGE LANGUAGE:FORTRAN/COBOL SYSTEM:BPM CATALOG NUMBERS 890592- 890597. DATE: 09/11/70. THIS PACKAGE CONTAINS

DISTRIBUTION LEDGER TRIAL BALANCE DP0215 SIGNA 5/6/7 890592

AUTHOR: C. DEPNER, BUCKNELL UNIVERSITY

ABSTRACT:

PRODUCES A TRIAL BALANCE LISTING OF DISTRIBUTION LEDGER.

COMMENTS:

PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM: BPH DATE: 09/11/70. PART OF GENERAL LEDGER SYSTEM CATALOG 890591

SIGMA 5/8/7 MONTHLY BUDGET STATEMENTS (DP0222)

AUTHOR: C. VARGAS, BUCKNELL UNIVERSITY

ABSTRACT: PRINTS THE MONTHLY DEPARTMENTAL BUDGET STATEMENTS.

COMMENTS: PROGRAM TYPE:PROGRAM DATE: 09/11/70. PART OF GENERAL LEDGER LANGUAGE: COBOL-65 SYSTEM: BPM SYSTEM CATALOG NUMBER 890591

SIGMA 5/6/7 GENERAL LEDGER TOTALS (DP0311) 890594

AUTHOR: C. VARGAS, BUCKNELL UNIVERSITY

ABSTRACT:

COMPUTES THE TOTALS OF THE GENERAL LEDGER BY GENERAL LEDGER NUMBER.

COMMENTS: PROGRAM TYPE:PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM DATE: 09/11/70. PART OF GENERAL LEDGER SYSTEM CATALOG NUMBER 890591.

SIGNA 5/8/7 GENERAL LEDGER PROOF AUTHOR:C. VARGAS, BUCKNELL UNIVERSITY 690595

GENERATES A PROOF LISTING FOR THE GENERAL LEDGER PRIOR TO LEDGER ENTRIES.

COMMENTS: DATE:09/11/70. PART OF GENERAL LEDGER SYSTEM CATALOG NUMBER 890591.

890596 SIGMA 5/8/7 GENERAL LEDGER MONTHLY STATEMENT (DP0318

AUTHOR: C. DEPNER, BUCKNELL UNIVERSITY

ABSTRACT: GENERATES THE MONTHLY GENERAL LEDGER.

COMMENTS: DATE: 09/11/70. PART OF GENERAL LEDGER SYSTEM CATALOG NUMBER 890591.

SIGMA 5/6/7 OUTSTANDING CHECK LISTING (DP0512)

AUTHOR: C. DEPNER, BUCKNELL UNIVERSITY

ABSTRACT:

GENERATES A LISTING OF THE AMOUNT OF OUTSTANDING CHECKS.

COMMENTS: PROGRAM TYPE:PROGRAM

LANGUAGE:FORTRAN IV DATE: 09/11/70. PART OF GENERAL SYSTEM: BPM LEDGER SYSTEM CATALOG NUMBER 890591.

890598 98 SIGMA 5-9 AUTHOR:R. EVANS, XEROX COROL KEYED-FILE UTILITY SUBROUTINES

AUTHOR:R. EVANS, XEROX
ABSTRACT:
THIS A SERIES OF SUBROUTINES TO AID USERS OF COBOL-65. NINE SEPARATE ROUTINES COMPRISE THE PACKAGE: RELFILE (890599), DELREC (890500), OETCOM (890501), OETKEY (890802), KEYSTART (890503), ADDSEQ (890504),
PAPERCHG (890505), BDPSPRT (890506), BINARY SEARCH (890507), A DESCRIPTION OF EACH SUBROUTINE IS LISTED
IN THE PAL MANUAL UNDER INDIVIDUAL CATALOG NUMBERS.

COMMENTS:

PROGRAM TYPE:PACKAGE

LANGUAGE: META-SYMBOL

DOCU.PAGES: 13

SIGMA 5/6/7 890599

AUTHOR:R. EVANS, XDS ABSTRACT: THIS ROUTINE WILL CLOSE AND RELEASE DISC FILES TO THE MONITOR WHEN THE USER IS THROUGH WITH THEM.

PROGRAM TYPE:PROGRAM

SYSTEM: BPM LANGUAGE: META-SYMBOL

COBOL RELEASE FILES (RELFILES)

STORAGE: 33

DOCU.PAGES: 1

COROL SURROUTINE DELREC 890600 SIGMA 5/8/7

AUTHOR: R. EVANS, XDS

ABSTRACT: THIS ROUTINE WILL DELETE RECORDS FROM KEYED FILES.

COMMENTS: PROGRAM TYPE:PROGRAM

LANGUAGE: META-SYMBOL

SYSTEM: 8PM

SYSTEM: BPM

STORAGE: 32

DOCU.PAGES: 1

COBOL SUBROUTINE GETCOM SIGMA 5/6/7 890601

AUTHOR: R. EVANS, XDS

ABSTRACT:

THIS ROUTINE WILL PICK UP THE CURRENT DATE, TIME AND SHITCH SETTING AND INSERT SAME INTO THE MORKING STORAGE SECTION OF THE COBOL PROGRAM. THE ROUTINE WILL ALSO OPTIONALLY PICK UP THE CURRENT LINES PER PAGE FROM THE PRINTER DCB.

COMMENTS:

PROGRAM TYPE:PROGRAM

LANGUAGE: META-SYMBOL

STORAGE:81

DOCU.PAGES: 2

COBOL SUBROUTINE GETKEY SIGMA 5/8/7 890602

AUTHOR: P. HIBBS, XDS

ABSTRACT:

THIS ROUTINE ELIMINATES THE NECESSITY OF DEFINING THE KEY VALUE AS PART OF THE DATA RECORD BY OBTAINING THE KEY VALUE OF THE LAST RECORD READ AND RETURNING THIS VALUE TO THE USER SPECIFIED MORKING AREA.

PROGRAM TYPE:PROGRAM

LANGUAGE: META-SYMBOL SYSTEM: BPM STORAGE: 35

STORAGE:52

DOCU.PAGES: 1

COBOL SUBROUTINE KEYSTART SIGMA 5/8/7 890603

AUTHOR: R. EVANS, XDS

ABSTRACT:

THIS ROUTINE HILL POSITION A KEYED-FILE TO A SPECIFIC OR GENERIC KEY.

COMMENTS: PROGRAM TYPE:PROGRAM

LANGUAGE: METASYMBOL

SYSTEM: BPM

DOCU.PAGES: 2

SIGMA 5/6/7 COBOL ADD SEQUENTIAL SUBROUTINE 890604

AUTHOR: P. HIBBS, XDS

ABSTRACT:

THIS ROUTINE HILL ADD A RECORD TO A KEYED FILE BEING PROCESSED SEQUENTIALLY.

COMMENTS:

PROGRAM TYPE:PROGRAM

LANGUAGE: META-SYMBOL

STORAGE: 44 SYSTEM: BPM

DOCU.PAGES:1

SIGMA 5/6/7 COBOL SUBROUTINE PAPERCHG 890805

AUTHOR: R. EVANS, XDS

THIS ROUTINE HILL INSTRUCT THE OPERATOR TO CHANGE THE PAPER, CARRIAGE TAPE OR PUNCH CARD STOCK BETHEEN THE TIME THE LAST AND NEXT RECORDS ARE PROCESSED BY THE SYMBIONT.

COMMENTS:

PROGRAM TYPE:PROGRAM

LANGUAGE: META-SYMBOL

SYSTEM: BPM

DOCU.PAGES: 1 STORAGE: 72

SIGMA 5/6/7 AUTHOR:R. EVANS, XDS 890606 COBOL SUBROUTINE BOPSPRT

ABSTRACT:
THIS PROGRAM HAS HRITTEN TO PROCESS PRINT-TAPES CREATED BY COBOL PROGRAMS USING THE SUBROUTINE 'PAPERCHS' #890605. ITS PURPOSE IS TO PRINT REPORTS (PREVIOUSLY HRITTEN TO TAPES)ON FORMS THAT NEED ALIGNMENT. COMMENTS:

PROGRAM TYPE: PROGRAM LANGUAGE: META-SYMBOL SYSTEM: BPH 37 SI3MA 5/6/7 AUTHOR:R. SPANGLER, XDS COBOL SUBROUTINE BINARY SEARCH

THIS ROUTINE SEARCHES A TABLE FOR AN ELEMENT HITHIN THE TABLE HHICH SATISFIES THE SPECIFIED CONDITION AND ADTRUSTS THE ASSOCIATED INDEX NAME TO INDICATE THAT TABLE ELEMENT. COMMENTS:

SYSTEM: BPM PROGRAM TYPE:PROGRAM LANGUAGE:META-SYMBOL STORAGE: 44 DOCU.PAGES: 2

890612 SIGMA 5/7 HIERARCHICAL TEXT EDITOR

SIGNA 5/7 HIERARCHICAL TEXT EDITOR
AUTHOR:D. HINTER, XDS
ABSTRACT:
THE HIERARCHICAL TEXT EDITOR PROGRAM ALLOHS THE USER TO CREATE, UPDATE AND MANIPULATE VERY LARGE OR
SMALL TEXT HHILE CREATING A FINAL DRAFT DOCUMENT. THE TEXT EDITOR CAN BE VERY USEFUL FOR GENERATING
SYSTEM DISCUSSIONS AND USER GUIDES AS EXEMPLIFIED BY THE TEXT EDITORS OWN USER GUIDE.

COMMENTS: PROGRAM TYPE:PROGRAM LANGUAGE : METASYMBOL SYSTEM: RTM STORAGE: BODG DOCU. PAGES: 29

890613 SIGMA 7 POUMP AUTHOR:R. GARDNER, BUCKNELL UNIVERSITY

ABSTRACT: THIS PROGRAM PRODUCES A HEXADECIMAL DUMP HITH AN EBCDIC INTERPRETATION OF THE 'MONOMP' ONTO 109 COLUMN PAPER. THIS PROGRAM IS A MODIFICATION OF THE BPM DUMP ROUTINE (PDUMP) USED TO LIST THE CORE-DUMP FILE CREATED BY THE RECOVERY ROUTINES. THE MODIFICATION COMPRESSES THE ORIGINAL 125 COLUMN OUTPUT TO 109 COLUMNS WHICH HILL FIT ON STANDARD 8-1/2 X 11 PAPER.

COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:SYMBOL SYSTEM: BPM STORAGE: 177 DOCU. PAGES:4

4 SIGMA 5/7 RAD FILES IN/OUT AUTHOR: J.F. MOLLENAVER-BELL LABS, S. ANTEBY-X.D.S. 890614

ABSTRACT:
THIS PROCESSOR HRITES OUT ALL FILES IN THE CURRENT ACCOUNT TO MAGNETIC TAPE THROUGH THE M:EO DCB. OR READS IN ALL THE FILES ON A TAPE AND RESTORES THEM TO THE CURRENT ACCOUNT. COMMENTS:

LANGUAGE:META-SYMBOL SYSTEM:BPM STORAGE:7A HEX DOCU.PAGES:7. ANOTHER ACCOUNT, ASSIGN M:E1 AS FOLLOHS: LASSIGN M:E1,(LABEL,X,ACCT) READS IN A TAPE HRITTEN UNDER

PROCEDURES FOR ASSEMBLY OF SIGMA & PROG. 21202 5 SIGMA 5/7 PRO AUTHOR:R. HUBER, RUTGERS UNIVERSITY

ABSTRACT:

SYSTEM SIG2 IS A SET OF META-SYMBOL PROCEDURES FOR ASSEMBLING SIGMA 2 PROGRAMS ON A SIGMA 5 OR 7. EACH SIGMA 2 HORD IS GENERATED AS A 32-BIT SIGMA 5/7 HORD HITH THE FIRST HALFHORD FILLED HITH ZEROES OR BLANKS. IT IS ASSUMED THAT THE TRANSMISSION ROUTINES HILL REMOVE THEM. SEVERAL RESTRICTIONS EXIST. COMPARED TO SIGMA 2 SYMBOL. COMMENTS:

PROGRAM TYPE: PROGRAM LANGUAGE: META-SYMBOL SYSTEM: BPM DOCU.PAGES: 11

DISC DUMP PROGRAM 890516 SIGMA 5/7

AUTHOR: R. HUBER, RUTGERS UNIVERSITY

JETRACT: Program Dumps rad address disc to magnetic tape address mt. Disc and mt are **equ's in the program.** Program writes an identification and bootstrap on tape. Bootstrap alloms restore of rad from tape. COMMENTS:

PROGRAM TYPE:PROGRAM LANGUAGE:META-SYMBOL SYSTEM: STAND-ALONE DOCU. PAGES: 12

7 SIGMA 5/6/7 DITTO - SIGMA UTILITY FILE MANIPULATOR AUTHOR:R. JUGEL - I.M.T., H. SCHNECK - X.D.S.

ABSTRACT:

TO PROVIDE THE SIGMA USER HITH A DEVICE TO DEVICE CAPABILITY, UNDER BPM, SIMILAR TO THAT OF THE DEBE PROGRAM ON SYSTEM/360. A LIST OF THE AVAILABLE FUNCTIONS IS PROVIDED IN THE DOCUMENTATION. (NOTE COMPATIBLE IBM FUNCTIONS.)

PROGRAM TYPE:UTILITY LANGUAGE:METASYMBOL SYSTEM:BPM/8TM STORAGE:5000 DOCU.PAGES:12 LIST OF AVAILABLE FUNCTIONS IS PROVIDED IN DOCUMENTATION.

ACCOUNTS PAYABLE SYSTEM (COVER) 890620 SIGMA 5/6/7

AUTHOR : BUCKNELL UNIVERSITY ABSTRACT:

THE ACCOUNTS PAYABLE SYSTEM CONSISTS OF FIVE PROGRAMS THO OF WHICH ARE IN XDS COBOL AND THE REST IN XDS FORTRAN IV. ACCOUNTS PAYABLE CHECKS, A/P CHECK REGISTER, TOTALS LISTING OF ACCRUED PAYABLE BY DUE DATE, VENDOR ADDRESSES OR ADDRESS LABELS AND A YEARLY LISTING OF VENDORS SHOWING AMOUNT OF BUSINESS DONE WITH EACH ARE PRODUCED BY THE ACCOUNTS PAYABLE SYSTEM.

COMMENTS: PROGRAM TYPE:PACKAGE PROGRAM TYPE:PACKAGE LANGUAGE:FORTRAN/COBOL SYSTEM:BPM PACKAGE CONTAINS CATALOG NUMBERS 890621-890625. DATE:09/11/70 DOCU.PAGES:32 THIS

PART OF

PART OF

PART OF

PROGRAM AVAILABILITY LIST YEARLY ACCOUNTS PAYABLE TOTALS (DP0112) SIGMA 5/8/7 890621 AUTHOR: J. KOCH, BUCKNELL UNIVERSITY ARSTRACT: MAKES A YEARLY LISTING OF ALL VENDORS AND THE AMOUNT OF BUSINESS DONE WITH EACH. COMMENTS: INTERIES:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM STORAGE:370 DATE:09/11/70.
ACCOUNTS PAYABLE SYSTEM CATALOG NUMBER 890820. ACCOUNTS PAYABLE VENDOR LABELS (DP0113) 2 SIGMA 5/6/7 ACC AUTHOR: J. KOCH, BUCKNELL UNIVERSITY 890822 ABSTRACT: PRINTS LABELS OR LISTS OF ADDRESSES FOR ALL ACCOUNTS PAYABLE VENDORS. PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV ACCOUNTS PAYABLE SYSTEM CATALOG NUMBER 890620 SYSTEM: BPM STORAGE:428 DATE:09/11/70. DUE DATE ACCRUED PAYABLES (DP0115) SIGHA 5/8/7 AUTHOR: D. GAY, BUCKNELL UNIVERSITY ABSTRACT: MAKES LISTING OF DUE DATE ACCRUED PAYABLES HITH TOTALS BY DUE DATE AND FINAL TOTAL. COMMENTS: PROGRAM TYPE:PROGRAM PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN 1V ACCOUNTS PAYABLE SYSTEM CATALOG NUMBER 890620. STORAGE: 727 DATE: 09/11/70. SYSTEM: BPM ACCOUNTS PAYABLE CHECK REGISTER (DP0118) SIGMA 5/6/7 890824 AUTHOR: R. DROZIN, BUCKNELL UNIVERSITY ABSTRACT: PRINTS THE ACCOUNTS PAYABLE CHECK REGISTER HITH ALL INVOICES FROM EACH COMPANY AND AMOUNT OF EACH CHECK PRINTED. LANGUAGE: COBOL-65 SYSTEM: BPM DATE:09/11/70. PART OF ACCOUNTS PROGRAM TYPE:PROGRAM PAYABLE SYSTEM CATALOG NUMBER 890820. SIGMA 5/6/7 ACCOUNTS PAYABLE CHECKS (DP0120) 890625 ABSTRACT:

PRINTS ACCOUNTS PAYABLE CHECKS CONSISTENT WITH THE CHECK REGISTER, DP0118. COMMENTS: PROGRAM TYPE:PROGRAM LANGUAGE:COBOL-65
PAYABLE SYSTEM CATALOG NUMBER 890820. DATE:09/11/70. PART OF ACCOUNTS SYSTEM: BPH

ACCOUNTS RECEIVABLE SYSTEM (COVER) 6 SIGHA 5/6/7 AUTHOR:BUCKNELL UNIVERSITY 890626

ABSTRACT:
THE ACCOUNTS RECEIVABLE SYSTEM IS USED TO BILL STUDENTS FOR TUITION, ROOM AND BOARD, LOANS, FEES, ETC..
THE THO PROGRAMS IN THIS PACKAGE ARE IN XDS FORTRAN IV AND CREATE AN ACCOUNTS RECEIVABLE TRIAL BALANCE
FOR VERIFICATION AND PRINT THE BILLS. DATE:09/11/70 DOCU.PAGES: 23 THIS LANGUAGE:FORTRAN IV PROGRAM TYPE: PACKAGE

890627 7 SIGMA 5/6/7 ACCOUR AUTHOR:C. VARGAS, BUCKNELL UNIVERSITY ACCOUNTS RECEIVABLE TRIAL BALANCE-DP0716

ABSTRACT:

PRINTS A TRIAL BALANCE OF ALL ACCOUNTS RECEIVABLE.

PACKAGE CONTAINS CATALOG NUMBERS 890627-890628.

COMMENTS: MMENTS: Program type:program language:fortran iy Accounts payable system catalog number **890826**. STORAGE:902 DATE:09/11/70. PART OF SYSTEM: BPH

ACCOUNTS RECEIVABLE BILLING-DP0721 SIGMA 5/6/7 890628 AUTHOR: C. VARGAS, BUCKNELL UNIVERSITY ARSTRACT: HRITES THE ACCOUNTS RECEIVABLE BILLS.

COMMENTS: STORAGE: 1836 DATE: 09/11/70. SYSTEM: BPH PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV

890629 BOOKSTORE SYSTEM (COVER) SIGMA 5/6/7 AUTHOR: BUCKNELL UNIVERSITY

AUTHOR: BUCKRELL UNIVERSITY
ABSTRACT:
THE BOOKSTORE SYSTEM CONSISTS OF FOUR PROGRAMS THO OF WHICH ARE IN XDS COBOL AND THE REST IN XDS FORTRAN
IV. BOOKSTORE ACCOUNTS RECEIVABLE IS LISTED, BOOKSTORE STATEMENTS ARE PRINTED, DEPARTMENT CHARGES AND
TRIAL BALANCE ARE CREATED BY THE BOOKSTORE SYSTEM.

DATE:09/11/70. THIS PACKAGE CONTAINS LANGUAGE: FORTRAN/COBOL SYSTEM: BPM. PROGRAM TYPE: PACKAGE CATALOG NUMBERS 890830-890633.

30 SIGHA 5/6/7 BOOKSTORE ACCOUNTS RECEIVABLE (DP0911)
AUTHOR:C. DEPNER, BUCKNELL UNIVERSITY 890630 ABSTRACT: GENERATES A DETAILED LISTING OF ALL BOOKSTORE ACCOUNTS RECEIVABLE TRANSACTIONS FOR A DAY. DATE:09/11/70 STORAGE:604. PART OF BOOKSTORE PACKAGE CATALOG NUMBER 890629 890631 SIGMA 5/8/7 BOOKSTORE STATEMENTS (DP0913) AUTHOR: C. MUSSMAN, BUCKNELL UNIVERSITY ABSTRACT: GENERATES THE BILLING STATEMENTS FOR THE BOOKSTORE. COMMENTS: DMMENTS: PROGRAM TYPE:PROGRAM LANGUAGE:COBOL-65 Package Catalog Number 890829 DATE: 09/11/70. PART OF BOOKSTORE SYSTEM: BPM SIGMA 5/6/7 BOOKSTORE DEPARTMENT CHARGES (DP0916) 890632 AUTHOR: A. SEAMAN, BUCKNELL UNIVERSITY ABSTRACT: GENERATES THE BOOKSTORE ACCOUNTS RECEIVABLE FOR UNIVERSITY DEPARTMENTS. COMMENTS: PROGRAM TYPE:PROGRAM LANGUAGE:COBOL-65 SYSTEM: RPM DATE: 09/11/70. PART OF BOOKSTORE SYSTEM CATALOG NUMBER 890629 SIGMA 5/8/7 BOOKS AUTHOR:C. VARGAS, BUCKNELL UNIVERSITY BOOKSTORE TRIAL BALANCE (DP0917) 890633 ABSTRACT: PRINTS A TRIAL BALANCE OF BOOKSTORE ACCOUNTS RECEIVABLE. COMMENTS: PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV BOOKSTORE PACKAGE CATALOG NUMBER 890829 SYSTEM: BPM STORAGE: 855 DATE: 09/11/70. PART OF 4 SIGMA 5/8/7 ALUMNI SYSTEM AUTHOR:BUCKNELL UNIVERSITY, LEHISBURG, PENNSYLVANIA 890634 ABSTRACT:
ALUMNI CONSISTS OF A SET OF PROGRAMS HHICH CREATE, UPDATE AND MANIPULATE A DISC/MAG TAPE SYSTEM FOR MAINTAINING AND CONTACTING THE ALUMNI STUDENT BODY OF A COLLEGE OR UNIVERSITY. COMMENTS:
PROGRAM TYPE:PACKAGE LANGUAGE:FORT IV/METASYMSYSTEM:BPM STORAGE: 6426 DOCU. PAGES: 31 890635 SIGMA 5/6/7 ALUM1 ALUMNI UPDATING AUTHOR: J. KOCH, BUCKNELL UNIVERSITY ABSTRACT ALUMI PERFORMS THE UPDATING AND NEW RECORD CREATION ON THE ALUMNI FILE. COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM: BPM STORAGE: 6426 S SIGMA 5/6/7 ALUM2 Author:C. Vargas, Bucknell University ALUM2 LONG FORM DIRECTORY 890638 ABSTRACT: ALUM2 GENERATES A DIRECTORY OF ALL ALUMNI IN THE ALUMNI DATA FILE. COMMENTS: PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM: BPH STORAGE: 1591 890639 SIGMA 5/6/7 ALUM3 CLASS DIRECTORY AUTHOR: J. KOCH, BUCKNELL UNIVERSITY ALUM3 CONSISTS OF THO PROGRAMS WHICH SELECT THE PEOPLE FROM SPECIFIC GRADUATING CLASSES AND PRINT OUT CLASS DIRECTORIES. COMMENTS: PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM: BPH STORAGE: 973 890642 SIGMA 5/6/7 ALUMAUTHOR:K. LYON, BUCKNELL UNIVERSITY ALUMY SELECTIVE ALUMNI ABSTRACT: ALUMY CREATES A TAPE FOR USE BY ALUMS OF ALUMNI ADDRESSES BY CLASS YEAR, ALUMNI CLUB CODE OR CURRICULUM. COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM: RPM STORAGE: 736

3 SIGMA 5/8/7 ALUI AUTHOR:K. LYON, BUCKNELL UNIVERSITY ABSTRACT: ALUMS HEAT TRANSFER ADDRESS TAPE 890643

ALUMS MAKES A HEAT TRANSFER TAPE OF ALUMNI ADDRESSES BY CLASS YEAR, ALUMNI CLUB CODE OR CURRICLUM. COMMENTS:

PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV STORAGE: 464

PAGE 29 - 01/31/75

REPRINT 75.02

SUBROUTINE DISCPROC 890644 SIGMA 5/6/7

AUTHOR: A. MITCHELL, BUCKNELL UNIVERSITY

ABSTRACT:
DISPROC ALLOWS A FORTRAN PROGRAM TO CREATE AND ACCESS A KEYED RAD FILE.

PROGRAM TYPE:SUBROUTINE LANGUAGE:METASYMBOL SYSTEM: BPM STORAGE: 345

REGISTRAR SYSTEM 890645 SIGMA 5/6/7

AUTHOR: BUCKNELL UNIVERSITY-LEHISBURG, PENNSYLVANIA

ABSTRACT:

SSTRACT:

REGISTRAR SYSTEM IS A SERIES OF PROGRAMS WHICH HANDLE REPORT LISTINGS OF NON-ACADEMIC STATISTICS IN 13
DISTINCT HAYS SUCH AS ALPHABETICAL, BY SEX, BY BIRTHDATE, TYPE OF REGISTRATION AND 9 OTHERS. COURSE CONFLICTS ARE REDUCED, GRADE POINT AVERAGES ARE LISTED, A SUMMARY BY GEOGRAPHICAL DISTRIBUTION MAY BE MADE,
AND CLASS ROSTERS LISTED FOR ALL COURSES WITH EITHER COURSE CREDIT OR GRADE EARNED.

COMMENTS:

PROGRAM TYPE:PACKAGE LANGUAGE:FORT/COBOL

SYSTEM: BPM DOCU. PAGES: 76

S SIGHA 5/6/7 ACST1 NON-ACADEMIC STATISTICS LISTINGS AUTHOR:C. DEPNER/ J. KOCH, BUCKNELL UNIVERSITY 890646

ABSTRACT:

THE PURPOSE OF THESE PROGRAMS IS TO MAKE SELECTED LISTINGS BASED ON INFORMATION CONTAINED ON EACH STUDENT'S NON-ACADEMIC STATISTICS CARD.

COMMENTS:

PROGRAM TYPE:PROGRAMS LANGUAGE:FORTRAN IV

SYSTEM: BPM

STORAGE: 1950

SIGMA 5/6/7 ACST2 FINAL GRADE REPORTS 890647

AUTHOR: A. F. SEAMAN, BUCKNELL UNIVERSITY

ABSTRACT:

PROGRAM GENERATES THE FINAL GRADE REPORTS FOR A SEMESTER.

COMMENTS:

PROGRAM TYPE:PROGRAM

LANGUAGE : COBOL-65

SYSTEM: BPH

SIGMA 5/6/7 ACST3 CLASS ROSTERS 890648

AUTHOR: C. VARGAS, BUCKNELL UNIVERSITY

ABSTRACT:
PROGRAM LISTS THE STUDENTS SIGNED UP FOR ALL THE COURSES AT THE UNIVERSITY WITH EITHER THE COURSE CREDIT OR GRADE EARNED.

COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:COBOL-65 SYSTEM: BPH

9 SIGMA 5/8/7 ACST4 HEAT TRANSFER STUDENT MASTER AUTHOR:C. DEPNER, BUCKNELL UNIVERSITY 890649

ABSTRACT:

PROGRAM GENERATES HEAT TRANSFER TAPES OF STUDENT ADDRESSES.

COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN 1V

SYSTEM: BPH

STORAGE: 155

ACSTS CLASS SCHEDULES O SIGMA 5/6/7 ACSTS CLASS SCHED AUTHOR:A. F. SEAMAN/C. DEPNER, BUCKNELL UNIVERSITY 890650

ABSTRACT:
PROGRAM GENERATES THE STUDENT CLASS SCHEDULES.

COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:COBOL-65

SYSTEM: BPH

ACST7 PERMANENT RECORDS SIGMA 5/6/7 890651

AUTHOR: R. DROZIN/C. DEPNER, BUCKNELL UNIVERSITY

ABSTRACT:

PROGRAM GENERATES HEAT-TRANSFER MASTER FOR ADDITION TO STUDENT'S PERMANENT RECORD.

COMMENTS: PROGRAM TYPE:PROGRAM

LANGUAGE: COBOL-65

SYSTEM: BPH

ACSTIO GRADE POINT AVERAGE LISTINGS SIGMA 5/6/7 890652

AUTHOR: J. KOCH. BUCKNELL UNIVERSITY

ABSTRACT:

ACSTIO CONTAINS 19 PROGRAMS AND GENERATES GPA LISTINGS FOR SELECTED GROUPS.

COMMENTS:

STORAGE: 5000 PROGRAM TYPE:PROGRAMS LANGUAGE:FORTRAN IV SYSTEM: BPH

SIGHA 5/8/7 ACSTIZ GEOGRAPHICAL DISTRIBUTION SUMM.
AUTHOR:C. DEPNER, BUCKNELL UNIVERSITY

ABSTRACT:
PROGRAM DOES A GEOGRAPHICAL DISTRIBUTION SUMMARY FROM THE NON-ACADEMIC STATISTICS CARDS.

COMMENTS: PROGRAM TYPE:PROGRAM LANGUAGE: FORTRAN IV

SYSTEM: BPH

STORAGE: 3055

REPRINT 75.02

PAGE 30 - 01/31/75

SH SIGMA 5/6/7 ACST32 COURSE CONFLICTS AUTHOR:C. DEPNER, BUCKNELL UNIVERSITY 890654

ABSTRACT: PROGRAM REDUCES SCHEDULING OF CONFLICTING REQUIRED COURSES.

COMMENTS: PROGRAM TYPE:PROGRAM LANGUAGE: FORTRAN IV

SYSTEM: BPH

STORAGE: 475

890655 SS SIGMA 5/8/7 ACST3 AUTHOR:C. DEPNER, BUCKNELL UNIVERSITY ACST33 LANGUAGE LAB FILE MAINTENANCE

ABSTRACT:
PROGRAM PUTS THE NEW LANGUAGE LAB USE CARDS INTO THE FILE.

COMMENTS: PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV

STORAGE: 673

ACST34 LANGUAGE LAB HEEKLY REPORT 890656 SIGMA 5/6/7

AUTHOR: C. DEPNER, BUCKNELL UNIVERSITY

ABSTRACT:

PROGRAM GENERATES THE LANGUAGE LAB HEEKLY REPORT SO PROFESSORS CAN TELL HOW MUCH EACH STUDENT USED THE LAB THAT HEEK.

PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV

SYSTEM: 8PM

STORAGE: 323

57 SIGMA 5-9 AUTHOR:B. MCKEON, S.U.R.C. CHARACTER MANIPULATION ROUTINES -- FORTRAM 890657

ABSTRACT:

ISTRACT:
THESE ROUTINES AND FUNCTIONS SIMPLIFY CHARACTER MANIPULATION IN FORTRAN. INCLUDED ARE ROUTINES TO MOVE,
COMPARE, MCDIFY STRINGS AND INDIVIDUAL BYTES. THEY ARE ESPECIALLY USEFUL IN BUSINESS APPLICATIONS. THERE
ARE 27 ENTRY POINTS, INCLUDING SUBROUTINES TO 'GET' OR 'PUT' A CHARACTER, MOVE A STRING HITH VARIOUS
EDITING, COMPARE THO STRINGS, DETERMINE THE 'TYPE' OF CHARACTER TRANSLATE A STRING AND SEARCH A STRING. COMMENTS:

PROGRAM TYPE:PACKAGE LANGUAGE:METASYMBOL SYSTEM:BPM STORAGE:503 DOCU.PAGES:7 SIGNA 5 TIMINGS APPEAR AS COMMENTS HITHIN THE PROGRAM SOURCE CARDS.

SE SIGHA 5-9 SUBROUTINE PUNCH (COL. BINARY) AUTHOR:P. C. ROGERS, BROOKHAVEN NATIONAL LABORATORY 890658

ABSTRACT:

PUNCH CONVERTS 80 BYTES OF DATA IN EBCDIC FORMAT TO 120 BYTES OF BINARY FORMAT. THE ENTRY POINT UNPUNCH Decodes 120 Bytes of Column Binary Card Code to 80 Bytes of EBCDIC. COMMENTS:

JHHEN 15:
THIS PROGRAM HILL RUN UNDER BPM/BTM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY.
BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN FORTRAN.
SUBROUTINES USED: LDBYTE, LDHHD, MBYTES CN 890862
FORTRAN OPTIONS S AND NMP ARE REQUIRED.

SIGMA 5/6/7 UTILITIES, SINGLE CARD AUTHOR:P. C. ROGERS, BROOKHAVEN NAT'L LABORATORY

PACKAGE CONSISTS OF MANY ONE CARD UTILITIES FOR MOVING DATA FROM ONE MEDIUM TO ANOTHER. THEY ALL OPERATE AT THE SPEED OF THE SLOWER DEVICE. INCLUDED ARE: CR-TY, CR-LP, CR-9T CR-77,TY-LP, TY-9T, 9T-LP, 9T, 7T-9T ET AL. DEVICE ASSIGNMENTS ARE STANDARD BUT MAY EASILY BE CHANGED BY REASSEMBLING. COMMENTS:

PROGRAM TYPE:PACKAGE CR-3, 7T-AFO, 9T-AFO. LANGUAGE : META-SYMBOL

SYSTEM:S/A

DOCU.PAGES: 2 ASSIGNMENTS: TY=1, LP=2.

CALS FOR FORTRAN USERS-MONITOR CAL1'S 890660 SIGMA 5-9

AUTHOR: P. C. ROGERS, BROOKNAVEN NATIONAL LABORATORY

ABSTRACT:

SIGHA MONITOR FUNCTION ROUTINE FOR CALI FUNCTIONS. FORMS FPT'S FOR AND EXECUTES THE SPECIFIED MONITOR CAL. INCLUDED ARE: CALI,1, CALI,2, CALI,3, CALI,4, CALI,5, CALI,8, CALI,8, CALI,9, CALI,10. THIS ROUTINE IS UPDATED THROUGH THE FOI VERSION OF BPM. COMMENTS:

THIS PROGRAM WILL RUN UNDER BPM/BTM OPERATING SYSTEMS. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

SUBROUTINE DATETIME 890661 SIGHA 5-9

AUTHOR: P. C. ROGERS, BROOKHAVEN NATIONAL LABORATORY

ABSTRACT: SUBROUTINE TO GET DATE AND TIME IN FOUR CONTIGUOUS HORDS IN A4 FORMAT.

COMMENTS: PROGRAM TYPE:SUBROUTINE LANGUAGE:META-SYMBOL DOCU. PAGES: 1

PARTIAL HORD MANIPULATION OR TEST 890682 SIGMA 5-9

AUTHOR: P. C. ROGERS, BROOKHAVEN NATIONAL LABORATORY

ABSTRACT: THIS PACKAGE CONTAINS FUNCTIONS AND SUBROUTINES CALLABLE FROM FORTRAN HHICH ALLOW THE USER TO: LOAD BYTE (LDBYTE), LOAD HALFHORD (LDHHD), MOVE BYTES (MBYTES), TRANSLATE BYTES (TBYTES), COMPARE BYTE COUNT (CBYTES), CONVERT BCD-BIN(CONVA), CONVERT BIN TO BCD (CONVS), FINDS # OF BYTES LAST TRANSFERRED THROUGH DCB (RECLGT)

COMMENTS: PROGRAM TYPE:PACKAGE SYSTEM: BPH DOCU. PAGES:4 LANGUAGE: META-SYMBOL

LIBUPDAT FORTRAN IV LIBRARY UPDATE SIGHA 5/6/7 AUTHOR:S. ANTEBY, XDS 890665

ABSTRACT:
LIBRARY UPDATE ALLOHS A USER TO DELETE A GROUP OR GROUPS FROM THE :SYS ACCOUNT AND THEN REPLACE IT HITH ANOTHER

COMMENTS: STORAGE:200 DOCU.PAGES:1 LANGUAGE: META-SYMBOL SYSTEM: BPM

BTH DEMO - GAMES PROGRAMS 890666 SIGHA 5/7

AUTHOR: XEROX

ABSTRACT: THIS IS A PACKAGE OF DEMO OR GAME PROGRAMS WHICH MAY BE RUN FROM A BTM USER TERMINAL. A FEW OF THE PROGRAMS ARE: CRAPS, BANDIT, BLAKJ--BLACKJACK, TICTAC--TIC-TAC-TOE.

COMMENTS: PROGRAM TYPE:PACKAGE LANGUAGE:BASIC SYSTEM:BTM DOCU.PAGES:2 DATE:09/24/70.

1620 ELECTRONIC CIRCUIT ANALYSIS PROGRAM 890667 SIGMA 5-9

AUTHOR: 0. HEBER, BUCKNELL UNIVERSITY . ABSTRACT:

STRACT:

ECAP IS AN INTEGRATED SYSTEM OF PROGRAMS FOR USE BY ELECTRICAL ENGINEERS IN THE DESIGN AND ANALYSIS OF
ELECTRONIC CIRCUITS. ECAP CAN PRODUCE DC, AC, AND/OR TRANSIENT ANALYSES OF ELECTRICAL NETHORKS FROM A
DESCRIPTION OF THE CONNECTIONS OF THE NETHORK, A LIST OF CORRESPONDING CIRCUIT ELEMENT VALUES, A
SELECTION OF THE TYPE OF ANALYSIS DESIRED, A DESCRIPTION OF THE CIRCUIT EXCITATION, AND A LIST OF OUTPUT DESTRED. COMMENTS:

PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN 1V SYSTEM: BPH DOCU. PAGES: 1

2 SIGHA 5/6/7 SIGHA 2 BASIC SYMBOL ASSEMBLER AUTHOR:K. S. BOOTH; E. LEHIS, UNIVERSITY OF ALABAMA

THE SIGMA 2 BASIC SYMBOL ASSEMBLER HILL ASSEMBLE SIGMA 2 SOURCE CODE ON THE SIGMA 5/7 AND OUTPUT 1)A BINARY OBJECT PROGRAM ON PAPER TAPE, OR PUNCHED CARDS, HHICH CAN BE LOADED INTO THE SIGMA 2 AND 2) AN ASSEMBLY LISTING.

COMMENTS: PROGRAM TYPE:PROGRAM STORAGE: 16128 DOCU.PAGES:3 SYSTEM: RBM LANGUAGE: SYMBOL

INTERACTIVE SNOBOL4 73 SIGMA 5/7 INT AUTHOR:E. SMITH, HARVARD UNIVERSITY 890673

ABSTRACT: INTERACTIVE SNOBOLY HAS DEVELOPED FOR USE UNDER BTM. CONVERSATIONAL DEBUGGING FACILITIES INCLUDE BREAK-POINTS AND DIRECT STATEMENTS. THE LANGUAGE IS A NEARLY COMPLETE SUBSET OF BELL LABS SNOBOLY, AND THE SUBSYSTEM RUNS HELL IN A SMALL (18K) BTM USER AREA.

COMMENTS:
PROGRAM TYPE:SUBSYSTEM LANGUAGE:METASYMBOL SYSTEM:BTM STORAGE:18000 DOC.PAGES:7
FILE 1 OF THE TAPE INSTRUCT! CONTAINS ASSEMBLY AND LOAD INSTRUCTIONS. ATTACHED DOCUMENTATION SHOWS THE DIFFERENCES FROM THE LANGUAGE DESCRIBED IN THE BOOK ITHE SNOBOLY PROGRAMMING LANGUAGE!. BY GRISHOLD ET.

RELABL-SOURCE DECK RELABELER&REFORMATTER SIGMA 5/6/7

AUTHOR:D. SMITH, XEROX COMPUTER SERVICES

ALLOHS USER TO CHANGE SPECIFIED LABELS THROUGHOUT A PROGRAM AND TO HAVE A PROGRAM REFORMATTED INTO A FORM SUITABLE FOR PUBLICATION I.E. COLUMN 1,10,19, 36 FORMAT.

COMMENTS: STORAGE:8311 DOC.PAGES:5 LANGUAGE: METASYMBOL PROGRAM TYPE:PROGRAM

75 SIGMA 5/8/7 DUMP AUTHOR:R. GARDNER, BUCKNELL UNIVERSITY

ABSTRACT:
THIS IS A MODIFICATION OF THE DUMP PROGRAM SECTION OF THE MONITOR OVERLAY SEGMENTS 'DEBUG' AND 'EXIT'.
THE PURPOSE OF THE MODIFICATIONS IS TO PRODUCE A HEXIDECIMAL DUMP HITH AN EBCDIC INTERPRETATION OF THE
HEX LINE AT THE RIGHT SIDE OF THAT LINE. THE OUTPUT IS COMPRESSED SUFFICIENTLY TO FIT ONTO 8 1/2 X 11 PAPER

COMMENTS: DOC.PAGES: 7. LISTED UPDATES ARE TO TAPE BCDO PROGRAM TYPE:PROGRAM LANGUAGE:SYMBOL SYSTEM:BPM

LINE PLOTTER PLOT SUBROUTINE 890676

AUTHOR: J. SCHHARIZ, SYRACUSE UNIVERSITY RESEARCH CORPORATION ABSTRACT:

LINE PRINTER PLOT SUBROUTINE RUNS UNDER XDS FORTRAN IV AND PLOTS NUMERIC DATA USING A STANDARD LINE PRINTER AS THE OUTPUT DEVICE.

COMMENTS:

PROGRAM TYPE:SUBROUTINE LANGUAGE:FORTRAN IV SYSTEM:BPM STÖRAGE:11328 DOCU.PAGES:3
DATE:09/21/70. THE SUBROUTINE IS A MODIFIED VERSION OF 705380 HHICH RUNS UNDER XOS FORTRAN IV-H. ORDER
705380-11 FOR DOCUMENTION AND SUBROUTINE USAGE.

SIGMA 5/6/7 ADMISSIONS SYSTEM FOR SCHOOL ENROLLMENT 890677

AUTHOR: BUCKNELL UNIVERSITY-LEHISBURG, PENNSYLVANIA

ARSTRACT:

ISTRACT: THE ADMISSIONS SYSTEM CONTAINS 22 ROUTINES WHICH PROCESS ADMISSIONS APPLICATIONS FROM PROSPECTIVE NEW STUDENTS AND PRODUCE STATISTICAL STUDIES ON ADMITTED STUDENTS.

PROGRAM TYPE:PACKAGE LANGUAGE:COBOL/FORTRAN SYSTEM:BPM (32K MINIMUM)

DOCU. PAGES: 88

8 SIGNA 5/6/7 ADMIS AUTHOR:R. DROZIN, BUCKNELL UNIVERSITY ADMISI-RECEIPT FORM 890678

ABSTRACT:

ADMISI PRINTS RECEIPT FORMS ACKNOWLEDGING THAT AN APPLICATION FROM A STUDENT HAS BEEN RECEIVED.

COMMENTS:

PROGRAM TYPE: PROGRAM LANGUAGE: COBOL-85 SYSTEM: BPM

ADMISE-FILE FOLDER LABELS SIGMA 5/6/7 890879

AUTHOR: J. HERBERT/ L. GIBSON, BUCKNELL UNIVERSITY ABSTRACT:

ADMISS PRINTS LABELS TO BE USED ON FILE FOLDERS IN THE ADMISSIONS OFFICE.

COMMENTS:

PROGRAM TYPE:PROGRAM LANGUAGE:COBOL-65 .

890680 SIGMA 5/8/7 ADMISS-APPLICANT ENVELOPES

AUTHOR: R. DROZIN, BUCKNELL UNIVERSITY ABSTRACT:

ADMISS PRINTS NAMES AND ADDRESSES ON ENVELOPES TO BE SENT TO APPLICANTS WHEN DECISIONS HAVE BEEN REACHED ON THEIR APPLICATIONS.

COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM: BPN

890681 ADMISS-HIGH SCHOOL COUNSELOR ENVELOPE

B1 SIGMA 5/6/7 ADMIS AUTHOR:R. DROZIN, BUCKNELL UNIVERSITY

ABSTRACT:
ADMISS PRINTS NAMES AND ADDRESSES OF HIGH SCHOOL COUNSELORS ON ENVELOPES NOTIFYING THEM OF THE ACTION
TAKEN ON APPLICANTS FROM THEIR SCHOOL.

PROGRAM TYPE:PROGRAM LANGUAGE : COBOL-65 SYSTEM: BPH

SIGHA 5/8/7 ADMISS-LOAD AND UPDATE ADMISSION FILE

AUTHOR: C. DEPNER, BUCKNELL UNIVERSITY

ABSTRACT:

ADMISS CREATES AND UPDATES RECORDS IN THE ADMISSIONS FILE.

COMMENTS:

PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM ADMISS CONSISTS OF 3 PARTS,ADMISSACD AND SUBROUTINES RADTAPE, MATCHFIL, TABS, AND SSLOAD.

890683 ADMISIO-ALUMNI CHILDREN LIST S10MA 5/6/7

AUTHOR: C. MUSSHAN, BUCKNELL UNIVERSITY ABSTRACT:

ADMISIO MAKES A LIST OF THOSE APPLICANTS WHOSE PARENTS ARE ALUMNI OF BUCKNELL.

COMMENTS:

PROGRAM TYPE:PROGRAM LANGUAGE:COBOL-65

890684 SIGHA 5/6/7 ADMISIT-APPLICANT PROFILE SHEET

AUTHOR: C. VARGAS, BUCKNELL UNIVERSITY ABSTRACT:

ADMISII PRINTS OUT A PROFILE SHEET ON EACH APPLICANT TO BE USED BY THE REVIEW COMMITTEE IN THE SELECTION PROCESS. THE PROFILE SHEET CONTAINS ALL OF THE INFORMATION THAT HAS BEEN RECORDED FOR THE APPLICANT.

COMMENTS. PROGRAM TYPE:PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM

ADMISI3-HEEKLY DISTRIBUTION 890685 S1GMA 5/6/7 AUTHOR: P. KAUFHOLD, BUCKNELL UNIVERSITY ADMISTS GIVES HEEKLY TOTALS OF APPLICANTS BY DEGREE AND SAT SCORES. COMMENTS: SYSTEM: BPM PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV ADMISI4-HIGH SCHOOL LIST SIGMA 5/6/7 890686 AUTHOR: C. DEPNER, BUCKNELL UNIVERSITY ABSTRACT: ADMISTS CREATES A LIST OF APPLICANTS BY STATE AND SECONDARY SCHOOL. COMMENTS: PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM
ADMISI4 CONSISTS OF 2 PROGRAMS 14A-B AND SUBROUTINES ADMACT, ADMCURR, ADMRELA, ADMVIEM, AND NEMPAGE ADMISIS-SELECTIVE ENVELOPES/LABELS 37 SIGMA 5/6/7 ADMIS AUTHOR:R. DROZIN, BUCKNELL UNIVERSITY 890687 ABSTRACT:
ADMISIS ALLOWS ENVELOPES AND LABELS TO BE PRINTED OUT FOR SELECTED GROUPS OF APPLICANTS 1.E. HAITING LIST, ACCEPTED. SYSTEM: BPM LANGUAGE : COBOL-65 PROGRAM TYPE:PROGRAM 38 SIGMA 5/6/7 ADMIS16 AUTHOR:P. KAUFHOLD, BUCKNELL UNIVERSITY ADMISIG-SELECTIVE LISTINGS ADMISIS PRINTS ALPHABETICAL LISTS BY SELECTED ITEMS OF THE ADMISSIONS RECORD. PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM Subroutine admact and program admis27 required. Admis18 consists of 5 programs admis188-f. SIGMA 5/6/7 ADMISIT-SHORT WEEKLY REPORTS
AUTHOR:P. KAUFHOLD, BUCKNELL UNIVERSITY 890689 ABSTRACT:
ADMIST CREATES SHORT HEEKLY REPORTS, STATE TOTALS AND DISTRIBUTIONS. COMMENTS: LANGUAGE: FORTRAN IV SYSTEM: BPM PROGRAM TYPE: PROGRAM O SIGMA 5/6/7 ADMIS19 AUTHOR:P. KAUFHOLD, BUCKNELL UNIVERSITY ADMIS19-STATISTICS BY STATE ABSTRACT: ADMISTS PRINTS STATISTICS OF ACTION TAKEN ON APPLICANTS BY STATE. PROGRAM TYPE:PROGRAM LANGUAGE: FORTRAN IV ADMIS20-PROFILE BY SAT AND RANK 890691 SIGMA 5/8/7 AUTHOR: C. VARGAS, BUCKNELL UNIVERSITY ABSTRACT:
ADMISSO PRINTS MATRICES OF SAT SCORES VERSUS CLASS RANK (TENTHS) BROKEN DOWN BY ACTION CODE. PROGRAM TYPE:PROGRAM SYSTEM: BPM LANGUAGE: FORTRAN IV ADMIS21-APPLICANT ACTIVITIES TOTALS SIGMA 5/8/7 890692 AUTHOR: P. KAUFHOLD, BUCKNELL UNIVERSITY ABSTRACT: ADMISSI GIVES A TALLY OF APPLICANT INTERESTS. COMMENTS: PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM: BPH SIGMA 5/6/7 ADMIS22-ACTIVITY INTEREST ADDRESSES AUTHOR:R. DROZIN, BUCKNELL UNIVERSITY 890693 ABSTRACT:
ADMISS2 PROVIDES A LIST OF NAMES AND ADDRESSES OF ACCEPTED APPLICANTS HHO HAVE EXPRESSED INTEREST IN THE VARIOUS ACTIVITIES. COMMENTS: PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM: BPM ADMISSS-FINANCIAL NEED MATRICES SIGMA 5/6/7 890694 AUTHOR: C. VARGAS ABSTRACT: ADMISSS PRINTS MATRICES OF SAT SCORES VERSUS CLASS RANK (TENTHS) FOR FINANCIAL CATEGORIES.

PAGE 34 - 01/31/75

SYSTEM: BPM

LANGUAGE: FORTRAN IV

REPRINT 75.02

PROGRAM TYPE:PROGRAM

890695 SIGMA 5/6/7 AUTHOR:P. KAUFHOLD ADMIS26-FAMILY INCOME CHART

ABSTRACT:

ADMISES PRINTS A CHART OF FAMILY INCOME LEVELS VERSUS CANDIDATE ACTION.

PROGRAM TYPE:PROGRAM

LANGUAGE: FORTRAN IV

SYSTEM: BPH

890696 SIGMA 5/6/7

ADMIS27-SELECTIVE COMPRESSED RECORDS

AUTHOR: C. DEPNER, BUCKNELL UNIVERSITY

ABSTRACT:

ADMIS27 CREATES A COMPRESSED RECORDS FOR INPUT TO ADMIS16-SELECTIVE LISTINGS.

COMMENTS:

PROGRAM TYPE:PROGRAM

LANGUAGE:FORTRAN IV

SYSTEM: BPM

890698

98 SIGMA 5-9 GENERAL 1/0 PACKAGE - GETPUT AUTHOR: J. MASON, XEROX CORPORATION

ABSTRACT:

GETPUT PROVIDES THE FORTRAN/COBOL/METASYMBOL USER HITH THE FOLLOHING SERVICES: 1) DYNAMICALLY CREATE AND DELETE FILES HITH OR HITHOUT IASSIGN CARDS. FILES HAY BE ON TAPE, DISC, OR A DEVICE. A SINGLE DCB MAY BE OPENED TO MANY DIFFERENCE FILES OR DEVICES DURING THE COURSE OF A JOB; 2) DYNAMICALLY CONTROL ANY OR ALL ERROR/ABNORMAL CONDITIONS THAT MAY OCCUR DURING THE JOB; 3 JUSE THE 1/O SERVICES OF THE MONITOR TO DELETE RECORDS, PERFORM KEYED READS/HRITES, SKIP RECORDS/FILES, AND READ/HRITE MULTI-VOLUME FILES; 1) OBTAIN THE KEY AND RECORD SIZE OF THE LAST RECORD READ/HRITTEN THROUGH A DCB COMMENTS:

THIS PROGRAM HILL RUN UNDER BPM/BTM OR UTS OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

890699

GEFORT

9 SIGMA 5/8/7 GEF AUTHOR: J. MASON, XEROX DATA SYSTEMS

ARSTRACT:

THIS PROGRAM CONVERTS GE TIMESHARING FORTRAN TO XDS FORTRAN 1VH. CONVERSION INCLUDES FORMATTING, DATA STATEMENTS FREEFORM READ STATEMENTS. COMPOUND STATEMENTS, MULTIPLE ASSIGNMENT STATEMENTS, REPLACING QUOTES HITH APOSTROPHES, SUPPRESSING III SEQUENCES, AND INCLUDING DOUBLE PRECISION STATEMENTS. COMMENTS:

PROGRAM TYPE: UTILITY LANGUAGE: SYMBOL SYSTEM: BPM/BTM STORAGE: 639 DOCU. PAGES: 6 DATE: 10/10/70.

890700

SIGMA 5/6/7 FREEFORM

AUTHOR: J. MASON, XEROX DATA SYSTEMS

ABSTRACT:

THIS PROGRAM PROVIDES THE FORTRAN USER WITH FREEFORM INPUT. FREEFORM-4 IS FOR FORTRAN IV. EXTENDED FORTRAN IV-H. FREEFORM 4H IS FOR FORTRAN IV-H. IT ALSO PROVIDES COMPATABILITY HITH GE.TIMESHARING FORTRAN.

COMMENTS:

PROGRAM TYPE:SUBPROO LANGUAGE:SYMBOL SYSTEM:BPM/BTM STORAGE:571 DOCU.PAGES:5 DATE:10/10/70.

SIGHA 5/6/7

AUTHOR: J. MASON, XEROX DATA SYSTEMS

FORM NOTIFIES THE OPERATOR A FORM CHANGE IS NEEDED, AND SUSPENDS THE PRINTER SYMBIONT WITH AN MIDEVICE MILO, (FORM) CAL. FORM IS LOADED AS A PROCESSOR AND CALLED VIA CONTROL CARD IFORM. THE MESSAGE FOR THE OPERATOR IS INCLUDED ON THE CONTROL CARD, E.G. IFORM CHANGE PRINTER PAPER TO 4 PART CARBON. COMMENTS:

PROGRAM TYPE:PROCESSOR LANGUAGE:SYMBOL SYSTEM:BPM STORAGE:58 DOCU.PAGES:1 DATE:10/10/70.

890702

SIGMA 5/6/7

DETAB/65 PREPROCESSOR

AUTHOR: ANSON CHAPMAN

ABSTRACT:
THE DETABLES PREPROCESSOR CONVERTS LIMITED-ENTRY DECISION TABLES CONTAINED HITHIN COBOL PROGRAMS INTO A FORM ACCEPTABLE BY A COBOL COMPILER. DETABLES HOULD BE USEFUL IN THE AREAS OF ANALYSIS, DESIGN AND PROGRAMMING OF A COMPUTER SYSTEM.

COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:COBOL SYSTEM:BPM STORAGE:8975 DOCU.PAGES:55 DATE:10/10/70.

890703

SIGHA 5/6/7 MOTHER-OPERATOR CONSOLE TAPE HANDLER

AUTHOR: J. ELMAN, HARVARD UNIVERSITY

ABSTRACT:

THIS PROGRAM ALLOHS INPUTS TO THE OPERATOR CONSOLE TO PERFORM A NUMBER OF OPERATIONS ON 9 TRACK MAGNETIC TAPE. OPERATIONS SUCH AS: POSITION FORWARD, POSITION REVERSE, COPY CONDITIONALLY OR UNCONDITIONALLY, DUMP, HRITE TAPE MARK MAY BE ACCOMPLISHED VIA MOTHER.

COMMENTS:

PROGRAM TYPE:UTILITY LANGUAGE:METASYMBOL SYSTEM:BPM STORAGE:787 DOCU.PAGES:8 DATE:16
PATCH IS REQUIRED FOR EOO AND IS DEPENDENT ON SOME LOCATIONS IN MONITOR. THE EOO VERSION IS A
CONDITIONAL ASSEMBLY-EOO EQUI. LABEL MOMOPRCO IS THE -16 HRITE-UP FILE FOR MOTHER.

S SIGMA 5/8/7 SCORE KEEPER FOR CONTINUING TOURNAMENTS AUTHOR:KATHERINE JAMERSON, COMPUTER SCIENCES CORP.

ABSTRACT:
THIS PROGRAM MAINTAINS A FILE WITH AN ENTRY FOR EACH PLAYER IN THE TOURNAMENT. WHEN THE PROGRAM IS RUN
YOU HAVE THE OPTIONS OF: UPDATING AN EXISTING PLAYER, INSERTING A NEW PLAYER, DELETING A PLAYER, OR
RUNNING (GETTING A REPORT OF CURRENT STATUS).

COMMENTS: PROGRAM TYPE:PROGRAM

LANGUAGE: BASIC

SYSTEM: BTM

STORAGE: 700 DOCU. PAGES: 0

77 SIGMA 5/6/7 BTM PLOTTING PACKAGE NONLABELING AUTHOR:KATHERINE JAMERSON, COMPUTER SCIENCES CORP. R90707

ABSTRACT:
THIS IS A NON LABELING FORTRAN PLOTTING SUBROUTINE WHICH HILL DO AUTOMATIC SCALING AND PRINT THE PLOT.
A CHOICE OF THO SCALING SUBROUTINES ALLOWS A VARYING OF THE PLOT SIZE AND DATA READABILITY.

COMMENTS: PROGRAM TYPE:PACKAGE

LANGUAGE:FORTRAN IVH

SYSTEM: 8TM

STORAGE:812 DOCU.PAGES:18

FORTRAN PRECOMPILER FORT 11-FORT 1VH 98 SIGHA 5/6/7 AUTHOR:G. SAGER, HONEYHELL, INC. 890708

ABSTRACT

THE PRECOMPILER CONVERTS FORTRAN II PROGRAMS TO BASIC FORTRAN IVH, ANNOTATES, GENERATES STATEMENTS THAT ARE THE BASIC FORTRAN IVH EQUIVALENT I.E. NEGATIVE DO LOOPS. IRREGULARITIES WHICH ARE NOT CONVERTIBLE ARE FLAGGED.

PROGRAM TYPE:PACKAGE LANGUAGE:FORTRAN IV SYSTEM:BPM STORAGE THE PACKAGE CONSISTS OF A MAIN PROGRAM AND 37 FUNCTIONS AND SUBROUTINES. STORAGE: 7583 DOCU. PAGES: 3 PROGRAM TYPE: PACKAGE

TIMER ELAPSED TIME SUBR FOR COBOL 890709

AUTHOR: H. LINGO, XEROX DATA SYSTEMS

ABSTRACT:

A COBOL CALLABLE SUB-ROUTINE TO START, STOP, AND READ TIME AND DATE CLOCK.

PROGRAM TYPE: SUBROUTINE LANGUAGE: HETASYMBOL

SYSTEM: BPM

DOCU.PAGES:3 STORAGE: 48

1 SIGNA 5/6/7 CA AUTHOR:D. GOLUB, HARVARD UNIVERSITY CAL-CONVERSATIONAL ALGEBRAIC LANGUAGE 890711

ABSTRACT:

PRINCE IS AN INTERACTIVE COMPILER BASED ON SUCH OTHERS AS JOSS AND JOVIAL. IT HAS SOME ADVANTAGES OVER OTHER COMPILERS LIKE BASIC, NOTABLY THE ABILITY TO EASILY EXECUTE PORTIONS OF A PROGRAM INTERACTIVELY. THIS PARTICULAR IMPLEMENTATION OF CAL HAS HRITTEN TO RUN UNDER BTM. COMMENTS:

PROGRAM TYPE:SUBSYSTEM LANGUAGE:SYMBOL/METASYM. SYSTEM:BTM D01 STORAGE:12000 DOCU.PAGES:88 Date:01/15/71.

PRINTER PLOT SUBROUTINE SIGNA 5/8/7 890713

AUTHOR: C. CODLING, XEROX DATA SYSTEMS

ABSTRACT: PRIMALIE FORTRAN CALLABLE SUBROUTINE ALLOHS USER TO PLOT UP TO 90 CONCURRENT GRAPHS OVER A 100 POINT INTERVAL ON THE LINE PRINTER OR OTHER SIMILAR DEVICE. MULTIPLE CALLS HILL CREATE A THO-DIMENSIONAL EFFECT. COMMENTS:

PROGRAM TYPE:SUBROUTINE LANGUAGE:FORTRAN IVH SYSTEM: RBM/BPH STORAGE: 325 DOCU. PAGES: 4

4 SIGMA 5/8/7 BATCH STREAM CARD LISTER AUTHOR: A. BRYANT, BUCKNELL UNIVERSITY 890714

BSTRACT:
PROGRAM HILL LIST A DECK OF CARDS INCLUDING CONTROL CARDS. ALL EXCLAMATION POINTS (BANGS) PRINT AS '
OVER . IN THE SAME COLUMN. THE MESSAGE '(BINARY CARD(S))' IS PRINTED WHENEVER ONE OR MORE BINARY CARDS
IS ENCOUNTERED. THE DECK TO BE LISTED MUST BE REVERSED (LAST CARD READ FIRST, FIRST CARD LAST). THE
PROGRAM REVERSES CARD AND COLUMN SEQUENCE; LISTING CARDS IN CORRECT ORDER.

COMMENTS:
PROGRAM TYPE:UTILITY LANGUAGE:METASYMBOL

SYSTEM . SPH

STORAGE: 116 DOCU. PAGES: 2

5 SIGHA 5-9 MIX ASSEMBLER/INTERPRETER SYSTEM AUTHOR:P. SHERROD, VANDERBILT UNIVERSITY COMPUTER CENTER 890715

ABSTRACT:

ABSTRACT:
THE MIX ASSEMBLER SIMULATES AS CLOSELY AS POSSIBLE. THE MIX COMPUTER AS DESCRIBED BY DONALD KNUTH
IN ITHE ART OF COMPUTER PROGRAMMING. I FLOATING POINT INSTRUCTIONS OF MIX ARE IMPLEMENTED MAKING
IT A COMPLETE MIX SIMULATOR. REQUIRES 10K OF CORE.
COMMENTS:

PROGRAM TYPE:PROCESSOR LANGUAGE:METASYMBOL SYSTEM:BPM/BTM STORAGE:10K DOCU. PAGES:4.

5 SIGMA 7 DREV APL AUTHOR:DREV (DEFENSE RESEARCH ESTABLISHMENT AT VALCARTIER, CANADA) 890716 ABSTRACT:

BSTRACT:

DREV APL IS A POHERFUL INTERACTIVE PROBLEM-SOLVING LANGUAGE WHICH BRINGS TO THE TIME-SHARING USER NEW

DIMENSIONS IN PROGRAMMING, ANALYSIS AND SYSTEMS DESIGN CAPABILITIES. DREV APL OPERATES AS A RESIDENT

FOREGROUND PROGRAM UNDER RBH OR BPM, AND IS ALMOST COMPLETELY COMPATIBLE WITH APL/380. MINIMUM CORE

REQUIRED--RBM/30K, BPM/56K. ALSO REQUIRED-A DEDICATED 7204,7212 OR 7232 RAD, A 60-MZ CLOCK, A 7611 WITH

FORMAT TIMING MODULE FOR 2741-LIKE DEVICES, AND A DEDICATED INTERRUPT.

COMMENTS: IMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:META-SYMBOL SYSTEM:RBM/BPM STORAGE:30-84 DOCU PAGES:138 BATCH
BACKGROUND OR OTHER FOREGROUND TASKS MAY TAKE PLACE CONCURRENTLY DEPENDING ON CORE SIZE. APL PROVIDES
ITS OHN TIME-SHARING MONITOR, SHARING A FIXED PERCENTAGE OF CPU TIME HITH THE BACKGROUND. THE SYSTEM
PERFORMS ITS OHN COMM 1/0 AND HANDLES ITS OHN INTERRUPTS. IT INTERFACES ITS RAD 1/0 AND HANDLING OF
SYSTEM CALS HITH THE MONITOR TO PERMIT CONCURRENT BACKGROUND TASKS AND TO ALLOH OPERATOR INTERACTION.

890717 7 SIGMA 5-9 COBOL AUTHOR: J.M. URBAN, XEROX CORPORATION COBOL RESTART PROGRAM

ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO RESTART A CHECKPOINTED COBOL PROGRAM.

COMMENTS: PROGRAM TYPE:PROGRAM LANGUAGE:METASYMBOL SYSTEM:BPM STORAGE:58 DOCU.PAGES:3

SIGHA 5-8 SIGHA PROJECT MANAGEMENT SYSTEM (SPMS)
AUTHOR: NEMPORT NEWS SHIPBUILDING AND DRYDOCK CO./P. BECKER, XEROX DATA SYSTEM
ABSTRACT: 890718

A SYSTEM BASED UPON THE CRITICAL PATH METHOD IS USED TO DEVELOP AND EVALUATE PROJECT SCHEDULING. COMMENTS:

PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN-METASYM SYSTEM: BPM STORAGE: 12K DOCU. PAGES: 118

C36T64 CONVERT 36 BIT WORD TO 64 BIT 890721 SIGMA 5/6/7 AUTHOR: R. SPENCER, PURDUE UNIVERSITY

ABSTRACT:
USED TO CONVERT 18M 7084 SINGLE PRECISION FLOATING POINT NUMBERS, READ IN BINARY, TO XDS SIGMA 5/8/7 84
BIT DOUBLE PRECISION FLOATING POINT NUMBERS. C36184 IS FORTRAN CALLABLE.

COMMENTS: PROGRAM TYPE:SUBROUTINE LANGUAGE:SYMBOL SYSTEM:RBM STORAGE:90 DOCU.PAGES:2

SIGMA 5-9 AUTOMATED MEDICAL HISTORY PROGRAM 890724 AUTHOR: N. JOHNSON, XEROX DATA SYSTEMS

ABSTRACT: PSIMALI: THIS SYSTEM CONTAINS A GENERAL-PURPOSE QUESTIONNAIRE DRIVER WITH A SAMPLE AUTOMATED MEDICAL HISTORY QUESTIONNAIRE AND A REPORT GENERATOR. THE SAMPLE QUESTIONNAIRE IS MOST APPLICABLE TO A MEDICAL SCREENING ENVIRONMENT BUT THE BRANCHING-QUESTION TECHNIQUE IS APPLICABLE TO ANY QUESTION-ANSMER SITUATION.

COMMENTS:
PROGRAM TYPE:APPLICATION LANGUAGE: FORTRAN SYSTEM: BPM/UTS STORAGE: 6K DOCU.PAGES: 13

890727 SIGMA 5-9 CCOPY-PUNCHED CARD COPY/VERIFY PROGRAM

AUTHOR: L. BAIN, XEROX DATA SYSTEMS

ABSTRACT: CCOPY IS A UTILITY PROCESSOR WHICH HILL PRODUCE SINGLE OR MULTIPLE COPIES OF A PUNCHED CARD DECK AND VERIFY THE OUTPUT DECK(S).

PROGRAM TYPE:PROGRAM LANGUAGE:METASYMBOL SYSTEM:BPM STORAGE:720 DOCU.PAGES:5

SIGHA 5-9 POSITION TAPE PROGRAM FOR 77/8T AUTHOR:S. WHEELER, UNIVERSITY OF TEXAS AT ARLINGTON 890728

ABSTRACT: A00 VERSION OF POST(CN705425) ASSUMED ANY LABELED TAPE HAS 9-TRACK. THIS VERSION ALLOWS THE 7-TRACK LABELED TAPE USER TO SPECIFY '(DEVICE,7T)' ON AN M:EI ASSIGN CARD IN ORDER TO OVERRIDE POST'S 9-TRACK DEFAULT IF THE POST 'LABEL' OPTION IS USED. COMMENTS

PROGRAM TYPE:PROGRAM LANGUAGE:METASYMBOL SYSTEM:BPM STORAGE:5584 DOCU.PAGES:1

890730 SORT INTERFACE SIGMA 5-9

AUTHOR: J. MASON, XDS ABSTRACT:

ABSTRACT:

THIS ROUTINE ALLOHS FORTRAN PROGRAMS TO CALL THE BPM SORT PROCESSOR (REFERENCE MANUAL 901199). THE SORT

PARAMETERS ARE PASSED AS SOURCE CARD IMAGES IN A 20 TO 80 HORD INTEGER ARRAY. THO DCB ADDRESSES, ONE

FOR INPUT, ONE FOR OUTPUT, MUST ALSO BE PASSED TO SORT.

COMMENTS:

PROGRAM TYPE:ROUTINE LANGUAGE:SYMBOL SYSTEM:BPM STORAGE:>70 HEX DOCU.PAGES: 3

SZ SIOMA 5-9 CALCOMP PLOTTER SUBROUTINE PACKAGE AUTHOR: J. CABELL MOORE, U. S. NAVAL RESERVE LAB. ABSTRACT: 890732

A MORE POHERFUL PLOTTER SUBROUTINE PACKAGE FOR FORTRAN USERS OF THE CALCOMP 585 X-Y DRUM PLOTTER.

COMMENTS:

PROGRAM TYPE:SUBROUTINE LANGUAGE:FORT-METASYMBOL SYSTEM:BPM STORAGE:1894 DOCU.PAGES:62

S19MA 5/6/7 STAND-ALONE RAD EDITOR 890733 AUTHOR: P. SHERROD, VANDERBILT UNIVERSITY

ABSTRACT:

BOOTABLE PROGRAM WHICH MAY BE USED TO INSPECT OR CHANGE THE CONTENTS OF A RAD. FUNCTIONS SUCH AS: RAD (DEFINE), TYPE (DISPLAY), SEARCH (SEARCH FOR VALUE(S)), INSERT (REPLACE VALUE(S) AT SPEC. ADDR.), ZERO (CLEAR TO ZERO) ARE AVAILABLE AND FUNCTION CALLS ARE MADE FROM THE OPERATOR'S CONSOLE.

COMMENTS:

PROGRAM TYPE:UTILITY LANGUAGE:METASYMBOL SYSTEM:S/A STORAGE: 1153 DOCU. PAGES: 4

SIGHA 5/6/7 SYSTEM DISC DUMP/RESTORE/AUTO SOOT AUTHOR:B. PHILLIPS, VANDERBILT UNIVERSITY

ABSTRACT: BOOTABLE PROGRAM WHICH OPERATES ON THE BATCH MONITOR. IT SAVES ALL PSA AND ALL USED PFA AREA NECESSARY FOR SYSTEM OPERATE. THE PORTIONS OF THE DISC ARE SAVED ON 1-4 TAPES WHICH MAY BE WRITTEN SIMULTANEOUSLY. THE SYSTEM MAY BE RESTORED FROM TAPE WITH WRITE CHECKIIG AND WILL AUTOMATICALLY BE BOOTED FROM DISC IF REQUESTED.

COMMENTS:
PROGRAM TYPE:UTILITY LANGUAGE:META-SYMBOL STORAGE: 48K DOCU. PAGES: 3 SYSTEM:S/A

FACTORIAL FUNCTIONS FAC AND DFAC SIGMA 5/6/7 890735

AUTHOR: T.E. HEITHECKER, UNIVERSITY OF TEXAS AT ARLINGTON

ABSTRACT:
TO COMPUTE THE FACTORIAL OF A NUMBER IN THE RANGE 0 TO 58 INCLUSIVE, AND RETURN THE RESULT AS A REAL (WHEN USING FAC) OR DOUBLE PRECISION (WHEN USING DFAC) NUMBER. COMMENTS:

PROGRAM TYPE: SUBROUTINE LANGUAGE: META-SYMBOL SYSTEM: BPH STORAGE: 223 DOCU. PAGES 3

36 SIGHA 5-9 ECD ENGLISH CODED DECIMAL AUTHOR:B. MCKEON, SYRACUSE UNIVERSITY RESEARCH CORPORATION

THIS PROGRAM CONVERTS A PACKED DECIMAL NUMBER TO A CHARACTER STRING CONTAINING THE REPRESENTATION OF THE NUMBER IN ENGLISH HORDS.

COMMENTS:
PROGRAM TYPE:SUBROUTINE LANGUAGE:SYMBOL SYSTEM: BPH STORAGE:92 DOCU.PAGES: 3

7 SIGMA 5-9 XCORE - EXTRA CORE FOR FORTRAN PROGRAMS AUTHOR: J. SCHHARZ, SYRACUSE UNIVERSITY RESEARCH CORPORATION 890737

ABSTRACT:

A MAIN PROGRAM WHICH MAKES AN EXTRA 1024 HORDS OF CORE AVAILABLE TO FORTRAN PROGRAMS RUNNING UNDER BPH.

ONLY SLIGHT MODIFICATIONS ARE REQUIRED TO USE THIS TECHNIQUE WITH CURRENTLY RUNNING PROGRAMS. THE COME
IS USED BY THE MONITOR DURING THE READING OF LOAD MODULE. IT IS OBTAINED BY USING AN MIGP CAL.

COMMENTS: PROGRAM TYPE:PROGRAM LANGUAGE: HETA-SYMBOL SYSTEM: BPM STORAGE: 24 DOCU. PAGES: 3

8 SIGMA 5-9 CALCOMP PLOTTING PACKAGE AUTHOR: J. SCHHARZ, SYRACUSE UNIVERSITY RESEARCH CORPORATION 890738

ABSTRACT:
MODIFICATION OF 705657. THE PRIMARY PURPOSE OF THE CHANGES IS TO PRODUCE AN ENCODED VERSION OF THE
PLOTTING COMMANDS. FOR STRAIGHT HORIZONTAL, VERTICAL OR 45 DEGREE LINES, ENCODED COMMANDS ARE LESS THAN
1% THE LENGTH OF UNCODED COMMANDS. THIS CAN SAVE RAD SPACE IF THE PLOTTER IS A SYMBIONT DEVICE. THIS
ROUTINE CANNOT BE USED HITH THE STANDARD PLOTTER HANDLER. A HANDLER MHICH ACCEPTS THE ENCODED COMMANDS
IS AVAILABLE AS CN890739.
COMMENTS:

PROGRAM TYPE:SUBROUTINE LANGUAGE:META-SYMBOL SYSTEM:BPM DOCU.PAGES: 2

9 SIGHA 5-9 PLOTTER HANDLER AUTHOR: J. SCHWARZ, SYRACUSE UNIVERSITY RESEARCH CORPORATION 890739

ABSTRACT:

A MANDLER HHICH CAN REPLACE THE STANDARD XDS PLOTTER HANDLER. IT ACCEPTS AN ENCODED VERSION OF THE
RECORDS TO BE HRITTEN TO THE PLOTTER, DECODES THEM, AND CONSTRUCTS THE CHANNEL COMMANDS TO SEND THEM TO
THE PLOTTER. IF THE PLOTTER IS A SYMBIONT DEVICE RAD SPACE CAN BE SAVED. ENCODED COMMANDS FOR STRAIGHT
HOROZONTAL, VERTICAL, OR 45 DEGREE LINES ARE LESS THAN 1% THE LENGTH OF THE UNCODED VERSION. THE MANDLER
HILL TREAT UNCODED COMMANDS PROPERLY, PROVIDED THEIR LON ORDER THO BITS ARE ZERO.

COMMENTS: ABSTRACT:

LANGUAGE: META-SYMBOL SYSTEM: BPM STORAGE: 130 DOCU. PAGES: 4

UNIVAC 1108 COMMUNICATIONS CONTROL PROG. 890743 SIGMA 5-9

AUTHOR: L. HINCKLER, XEROX DATA SYSTEMS

ABSTRACT: THE SIGMA 5/UNIVAC 1108 COMMUNICATIONS CONTROL PROGRAM (CCP) GIVES THE SIGMA 5-9 BPM/BTM SYMBIONT SYSTEM THE CAPABILITY OF DOING REMOTE JOB ENTRY TO A UNIVAC 1108 RUNNING THE EXEC-2 MONITOR. IT ALLOWS THE SIGMA 5-9 TO BE RUNNING BATCH AND/OR TITME-SHARING CONCURRENTLY WITH THE CCP. COMMENTS

PUNCH, 7440 LINE PRINTER, 7601 DATA SET CONTROLLER AND USES SYMBIONT CARD READER, LINE PRINTER, AND CARD PUNCH. CURRENTLY RUNNING ON SIGMA 5 HITH 7232 RAD, 7246 DISK DRIVE, 7140 CARD READER, 7165 CARD PUNCH, 7440 LINE PRINTER, 7601 DATA SET CONTROLLER AND 8 LINES OF TIME-SHARING.

5 SIGMA 5-9 CRSH - LOAD MODULE CRUSHER AUTHOR:D.E. ERICKSON - JET PROPULSION LABORATORY 890745

ARSTRACT:

THIS PROGRAM REDUCES RAD STORAGE REQUIREMENTS OF LOAD MODULES.

PROGRAM TYPE: UTILITY LANGUAGE: METASYMBOL SYSTEM: BPM STORAGE: IK DOCU. PAGES: 1

8 SIGMA 5-9 COBOL TELETYPE INTERFACE SUBROUTINES AUTHOR:R. GERRITSEN, XEROX DATA SYSTEMS 890746

ABSTRACT: THREE SUBROUTINES HHICH ENABLE A COBOL PROGRAM TO INTERFACE IN A NATURAL HAY HITH A USER AT A TELETYPE TERMINAL. THE FUNCTIONS THE SUBROUTINES PROVIDE ARE 1. CARRIAGE RETURN AND LINE FEED ISSUED 2. PRINT A PROMPT ON TELETYPE 3. READ TELETYPE INTO A BUFFER.

COMMENTS:

PROGRAM TYPE: SUBROUTINE SYSTEM: BPM/UTS LANGUAGE : META-SYMBOL STORAGE: 133 DOCU. PAGES:4

47 SIGMA 5-9 ADAPT - NUMERICA AUTHOR:NEWPORT NEWS SHIPBUILDING AND DRYDOCK CO. ADAPT - NUMERICAL CONTROL PROGRAM

ABSTRACT:
ADAPT IS A NUMERICAL CONTROL COMPILER FOR THE SIGMA 5-9 LINE. IT IS A SIGMA REHRITE OF THE XDS 9-SERIES ADAPT COMPILER, PROGRAM NUMBER 850754. COMMENTS:

PROGRAM TYPE: PROCESSOR LANGUAGE: FORT LY/METASYM SYSTEM: BPM STORAGE: 35K DOCU. PAGES: 25
THE ELEMENT -11 OF THIS PROGRAM CONTAINS CORRECTIONS TO REFERENCE MANUAL 901045 HHICH SHOULD BE ORDERED.

APTS (LEVEL 3) SIGMA 5-9 890749

AUTHOR: R. REEVES, XEROX CORPORATION ABSTRACT:

A NUMERICAL-CONTROL PARTS PROGRAMMING LANGUAGE COMPATIBLE HITH THE LEVEL 3 SUBSET OF THE APT LANGUAGE STANDARDS PUBLISHED BY THE APT LONG RANGE PROGRAM OF IITRI. OPERATION IS EITHER BATCH OR INTERACTIVE ON-LINE, AND CONTROL TAPES, LISTINGS, ETC., ARE PRODUCED AS DESIRED VIA THE USER'S TERMINAL OR ON-LINE EQUIPMENT. COMMENTS:

THIS PROGRAM HILL RUN UNDER UTS AND CP-V OPERATING SYSTEMS. PROGRAM TYPE IS APPLICATION-ORIENTED PROGRAM. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAM. THIS PROGRAM OPERATES UNDER UTS USING 18K OVERLAYS. SOURCE IS 20K FORTRAN STATEMENTS AND 200 META STATEMENTS. IT ALSO RUNS UNDER CP-V.

SO SIGHA 5-9 EXTENDED ALGOL 80 AUTHOR: G. HAYNAM, G. HANSEN, R. COOK - VANDERBILT UNIVERSITY 890750

ABSTRACT:

ALOOL 80 IS A LANGUAGE SUITABLE FOR EXPRESSING A LARGE CLASS OF NUMERICAL PROCESSES IN A FORM
SUFFICIENTLY CONCISE FOR DIRECT AUTOMATIC TRANSLATION INTO MACHINE LANGUAGE. THE EXTENSIONS MHICH MAYE
BEEN MADE FACILITATE THE MANDLING OF LARGE, COMPLEX PROGRAMS PLUS MORE FLEXIBLE I/O, DOUBLE PRECISION
ARITHMETIC, STRING OPERATIONS, DEBUGGING, AND BIT OPERATIONS.

COMMENTS: PROGRAM TYPE: PROCESSOR LANGUAGE: META-SYMBOL SYSTEM: BPM DOCU. PAGES: 143

XREF 890751 SIGMA 5-9

AUTHOR: XEROX ABSTRACT:

XREF PROVIDES INFORMATION ABOUT PROGRAM LINKAGES BY FINDING, SORTING, AND LISTING EXTERNAL REFERENCES AND DEFINITION FROM SETS OF ROM'S. COMMENTS:

THIS PROGRAM HILL RUN UNDER UTS/BPM/BTM OPERATING SYSTEMS. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.

MAP PROCESSOR WITH SHELL SORT 890752 SIGMA 5-9

AUTHOR: XEROX ABSTRACT:

MAP DISPLAYS LOAD MODULES BY SEGMENTS SHOHING SEGMENT ATTRIBUTES; PRIMARY AND SECONDARY REFERENCES, ABSOLUTE, DOUBLY DEFINED, AND LIBRARY DEFINITIONS; PROGRAM SECTIONS; AND RELOCATABLE DEFINITIONS SORTED BY HEXADECIMAL VALUE AND/OR NAME. MAP LINKS TO SHELL SORT SUBROUTINE SSSUBR. HHICH IS INCLUDED IN THIS PROGRAM.

890752 CONTINUED ON FOLLOWING PAGE

890752

MAP PROCESSOR HITH SHELL SORT

(CONTINUED)

COMMENTS

THIS PROGRAM WILL RUN UNDER BPM/BTM/UTS OPERATION SYSTEM. PROGRAM TYPE: ASSEMBLER OR UTILITY. BASE Language main program is written in metasymbol.

53 SIGMA 6-9 AUTHOR:K. KRUM, XEROX

APAM LIBRARIAN

ABSTRACT:

ALLOHS XOS USERS TO ACCESS ANY MEMBER OF A PARTITIONED FILE BY UTILIZING ANY ONE OR ALL OF THE FOLLOHING SIX FUNCTIONS: CREATE MEMBERS, MODIFY RECORDS OF A MEMBER, CHANGE MEMBER NAME, DELETE MEMBER, COPY MEMBER, AND LIST MEMBER. USING THIS UTILITY TO MAINTAIN PROGRAM SOURCE ON DISK CAN NOW BE EFFICIENTLY IMPLEMENTED.

COMMENTS.

THIS PROGRAM HILL RUN UNDER XOS OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE HAIN PROGRAM IS HRITTEN IN METASYMBOL.

890754

PAPLIST

54 SIGMA 5-9 PAPLIST AUTHOR:A. MITCHELL, BUCKNELL UNIVERSITY

ABSTRACT:
PAPLIST PRODUCES DELIVERY LISTS AND PURCHASE SUMMARY FOR UP TO 16 DIFFERENT NEHSPAPERS. ADVANCED PAYMENT
BILL HAY ALSO BE COMPUTED.
COMMENTS:

THIS PROGRAM HILL RUN UNDER BPM/BTM/UTS OPERATING SYSTEMS. PROGRAM TYPE IS COMMERICAL APPLICATION. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN FORTRAN.

890756

SIGMA 5-9

AUTHOR: C. DEPNER, BUCKNELL UNIVERSITY

ARSTRACT:

REPRINT IS A SUBROUTINE ENABLING A COBOL PROGRAM TO CORRECT SPACE FORMS ON A 7870 REMOTE BATCH PRINTER. REPRINT ELIMINATES THE EXTRA SPACING WHICH NORMALLY OCCURS WHEN A COBOLPROGRAM ADVANCES THE PRINTER.

THIS PROGRAM HILL RUN UNDER THE BPM/BIM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE Language main program is Hritten in Metasymbol.

KEYED/RANDOM FILES FOR FORTRAN IV

7 SIGMA 5-9 KEYED/R AUTHOR: T.G. SCHULTZ, CUMMINS ENGINE CO.

AUTHORITE, SCHOLLE, COMMING ENGINE CO.

ABSTRACT:

THE FORTRAN IV LIBRARY ROUTINES SRDISC AND SHDISC HAVE BEEN REMRITTEN TO HANDLE KEYED FILES (HITH 3 SYTE KEY) AND RANDOM FILES BY RECORDS. THE ACCESS HETHOD BY RELATIVE HORD DISPLACEMENT HAS BEEN RETAINED.

DISC 1/O IS HANDLED BY THE STANDARD READ DISC, HRITE DISC STATEMENTS, NOT BY THE SUFFERIN, SUFFEROUT

890758

SIGMA 5-9 EXECUTION ANALYZER PROGRAM (EAP)

AUTHOR: P. SHERROD, VANDERBILT UNIVERSIT

ABSTRACT: JESTHACT:
THE EXECUTION ANALYZER PROGRAM (EAP) IS A PROGRAM HHICH HILL EXECUTE A SUBJECT PROGRAM AND IDENTIFY
THOSE LOCATIONS IN THE SUBJECT PROGRAM HHERE HOST OF THE TIME IS BEING SPENT. EAP TAKES CONTROL AND
EXECUTES THE SUBJECT PROGRAM INSTRUCTION BY INSTRUCTION KEEPING TRACK OF THE TIME SPENT AT EACH
LOCATION. HHEN THE SUBJECT PROGRAM EXITS, EAP PRINTS OUT A HISTOGRAM SHOHING THE TIME SPENT AT VARIOUS
LOCATIONS. THE RANGE OF LOCATIONS HHICH ARE TO BE KEPT TRACK OF AND THE NUMBER OF LOCATIONS PER
HISTOGRAM CELL ARE PROGRAMMER SUPPLIED PARAMETERS.

THIS PROGRAM HILL RUN UNDER BPM, CP-V, AND UTS OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE HAIN PROGRAM IS HRITTEN IN METASYMBOL. THE BOO VERSION OF EAP CORRECTS A NUMBER OF PROBLEMS WHICH EXISTED IN THE EARLIER VERSION AND ADDS SEVERAL ENHANCEMENTS.

890759

9 SIGHA 5-9 FORTRAN RANDOM DISC Author:g. Pomers, Hoods Hole Oceanographic institute

ABSTRACT:

A SUBROUTINE FOR FORTRAN IV PROGRAMS. IT ALLOHS THE USER TO TREAT DISC STORAGE AS A NUMBER OF VARIABLE ARRAYS. EACH OF THESE ARRAYS IS DYNAMICALLY EXTENDABLE. THE USER MAY DIRECTLY ACCESS LOCATIONS WITHIN EACH ARRAY. THE ROUTINE USES ONE PAGE OF DYNAMIC STORAGE.

COMMENTS:
THIS PROGRAM HILL RUN UNDER BPH/BTH OPERATING SYSTEM. PROGRAM TYPE: ASSEMBLER OR UTILITY. BASE LANGUAGE
HAIN PROGRAM IS HRITTEN IN METASYMBOL.

890763

SIGMA 8/7/9

FLOPLOT - A UTS FLONCHARTING PROGRAM

AUTHOR: XEROX CORPORATION

ABSTRACT:
FLOPLOT PROVIDES AN EASY TO USE METHOD OF PRODUCING AND MAINTAINING FLONCHARTS. THE FLONCHART IS
DESCRIBED BY A FLONCHARTING LANGUAGE THAT IS SIMILAR (SYNTACTICALLY) TO AN ASSEMBLY LANGUAGE. THE
FLONCHART WHICH IS DRAWN ON THE PLOTTER, CONFORMS TO THE ANS X3.5-1970 STANDARD.

FLOPLOT RUNS UNDER UTS IN ABOUT BK OF CORE AND REQUIRES A XEROX 7530 OR 7531 PLOTTER. A USERS GUIDE 18 INCLUDED AS PART OF THE PRINTED DESCRIPTION (-11).

NA SIGMA 5-9 HASP REMOTE JOB ENTRY AUTHOR:BILLING HOSPITAL-UNIV. OF CHICAGO AND XEROX CORP. 890764

AUTHOR:BILLING HOSPITAL-UNIV. OF CHICAGO AND XERGY COMP.

ABSTRACT:

THE MASP RJE COMMUNICATION HANDLER GIVES THE SIGMA 5/9 BPM FOI SYSTEM THE CAPABILITY TO OPERATE AS A MASP RJE TERMINAL AND CONTINUE TO RUN NORMAL BATCH, REMOTE BATCH OR REAL-TIME OPERATIONS. THE HANDLER IS COMPRISED OF THREE PROGRAMS. MONITOR INTERFACE PROGRAM --PROVIDES THE LINE PROTOCOL AND DEVICE HANDLING TO SUPPORT HASP MULTI-LEAVING TRANSMISSION IN A MANNER IDENTICAL TO 380/20 MORKSTATION PROCEDURES. THIS PROGRAM SUPPORTS SINGLE PRINTER, PUNCH AND CARD-READER DEVICE STREAMS AND UTILIZES THE BINARY -SYNCHRONOUS-COMMUNICATIONS TRANSPARENT TEXT MODE.

ENCODE PROGRAM -- PROVIDES MESSAGE COMPRESSIONS AND CONTROL CHARACTER INSERTIONS

FOR THE HASP SYSTEM INPUT.
DECODE PROGRAM - EXPANDS THE RECORDS RECEIVED FROM 380 HASP AND ROUTES THEM TO

THE APPROPRIATE DEVICE.

THIS PROGRAM HILL RUN UNDER BPM/BTM. PROGRAM TYPE - ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

THREE DIMENSION TRANSIENT HEAT TRANSFER 890766 SIGMA 5-9

AUTHOR: L. HORDOCK, H. HYMAN

ABSTRACT:

SSTRACT:
THIS IS A GENERALIZED COMPUTER PROGRAM CAPABLE OF SOLVING NUMEROUS CLASSES OF THERMAL TRANSPORT
PROBLEMS. CONDUCTION, CONVECTION, RADIATION, HEAT GENERATION, AND ENERGIES ASSOCIATED HITH FLUID
TRANSPORT CAN BE SIMULTANEOUSLY CONSIDERED. NUMERICAL INTEGRATION IS ACHIEVED BY USE OF A FORMARD
FINITE DIFFERENCING TECHNIQUE CAPABLE OF SOLVING STEADY STATE AND TRANSIENT PROBLEMS. DATA INPUT IS BY
A USER-HRITTEN INPUT SUBROUTINE, ALLOHING CONSIDERABLE FLEXIBILITY OF INPUT DATA FORMATS. COMMENTS

INTERISE THIS PROGRAM HILL RUN UNDER BPM/BTM/UTS OPERATING SYSTEMS. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE HAIN PROGRAM IS HRITTEN IN FORTRAN.

DELETE STANDARD 890768 510MA 5-9

AUTHOR: V. HUBER, XEROX ABSTRACT:

PRINCIPLE STATES AND DELETES ALL FILES HHOSE NAMES ARE PRECEDED BY ASTERISKS. THE NUMBER OF FILES DELETED AND NUMBER OF GRANULES RELEASED ARE HRITTEN THROUGH HILD. BREAK CONTROL IS PROVIDED TO INTERRUPT EXECUTION. FILES MAY BE DELETED IN ACCOUNTS OTHER THAN USER'S PROVIDED HIS PRIVELEGE EXCEDES X'CO'. COMMENTS

THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN HETASYMBOL.

SIGMA 6-9 AUTHOR:D. MACLEMORE, AUTONETICS 890769 UNITNAME

ABSTRACT:

THE PURPOSE OF THIS ROUTINE IS TO PROVIDE THE USER PROGRAM WITH THE MEANS OF RETRIEVING AT EXECUTION TIME THE ACTUAL UNIT NAME OR RAD FILE NAME ASSIGNED TO A GIVEN FORTRAN UNIT NUMBER OR DCB. THIS ROUTINE USES BYTE STRING INSTRUCTION. COMMENTS:

THIS PROGRAM HILL RUN UNDER REM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

890778 SIGMA 6-9 XOSDEBE

AUTHOR: J. BLANCHARD, XEROX

ABSTRACT:
A MULTI-PURPOSE UTILITY QUPPORTING DATA MOVEMENT BETHEEN 2 TAPES, CARD READER, CARD PUNCH, AND/OR LINE PRINTED. ACCESS TO DISK DRIVES OR THE RAD IS NOT SUPPORTED. XOSDEBE IS OPERATED FROM THE CONSOLE.

THIS PROGRAM HILL RUN UNDER XOS OPERATING SYSTEM. PROGRAM TYPE IS A ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

1 SIGHA 6-9 AUTHOR: J. BLANCHARD, XEROX HEBSORT 890771

ABSTRACT:

THE INPUT ROUTINE IN THE STANDARD XOS SORT HAS BEEN REPLACED ALLOWING UP TO 10 INPUT FILES OF EQUAL RECORD SIZES TO BE SORTED. THE INPUT FILES MUST RESIDE ON MAGNETIC TAPE AND/OR DISK.

THIS PROGRAM HILL RUN UNDER XOS OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

EXPAND PROCESSOR 890777 S10MA 5-9

AUTHOR: C. COOLING, XEROX CORPORATION

ABSTRACT: EXPAND CONVERTS 18-RBM COMPRESSED TAPES TO SOURCE AND/OR LISTINGS IN UNBLOCKED FORM. SOURCE IMAG OUTPUT THROUGH M:EO, LISTINGS THROUGH M:LO. IT TAKES SPECIFIC ADVANTAGE OF SYMBIONTS IF PRESENT. SOURCE IMAGES ARE

THIS PROGRAM HILL RUN UNDER BPM, CP-Y, RBM, AND UTS OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

890778

INTERACTIVE DMS DEBUG PACKAGE

78 SIGMA 5-9 AUTHOR:S. OHAYON, XEROX

ABSTRACT:

IDDP ALLOHS THE USER TO CALL AND EXECUTE ANY DBM ROUTINE INTERACTIVELY FROM AN ON-LINE TERMINAL BY USING COMMANDS SIMILAR TO DMS PROCEDURES. IT IS ANALOGOUS TO SUCH SYSTEMS AS FORTRAN DEBUG PACKAGE OR DELTA EXCEPT THAT IT IS RUN INDEPENDENTLY; I.E. IT CAN BE USED ON ANY DMS DATABASE MITHOUT REGARD TO THE USER'S PROGRAM. COMMENTS:

THIS PROGRAM HILL RUN UNDER BPM/UTS OPERATING SYSTEMS. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN FORTRAM. ALL DMS PROCEDURES ARE IMPLEMENTED EXCEPT FINDSEQ. PRIOR TO USING IDDP, A QUERY SCHEMA MUST BE CREATED - SEE CN 890779, QSP.

890779

SIGMA 5-9

QUERY SCHEMA PROCESSOR

AUTHOR: S. OHAYON, XEROX

ABSTRACT:

QSP IS A THO-PASS TRANSLATOR THAT GENERATES A QUERY SCHEMA FROM A DMS SCHEMA AND A COBOL COPY FILE. THE QUERY SCHEMA IS NECESSARY FOR IDDP TO ACCESS THE DMS DATABASE. IDDP IS AVAILABLE AS CN 890778.

THIS PROGRAM HILL RUN UNDER BPM/BTM/UTS OPERATING SYSTEMS. PROGRAM TYPE IS APPLICATION PROGRAM. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN FORTRAN. BUILT INTO QSP IS A DECISION TABLE PROCESSOR HHICH PRODUCES THE DECISION TABLE FROM RELATIONS BUILT BY THE SECOND PASS OF THE QUERY SCHEMA PROCESSOR.

890783

SIGMA 8/7/9

PATCH DCB

AUTHOR: D. LASLEY

ABSTRACT:

PATCHDOB MAKES PERMANENT DOB ASSIGNMENTS TO NORMAL LOADER BUILT OVERLAID, LINK BUILT, AND P Modules, thereby negating the need for lassign or iset commands in Running the Load Module. AND PAGED LOAD

THIS PROGRAM HILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

FUR - FILE UPDATE ROUTINE

5 SIGMA 5-9 AUTHOR: VANDERBILT UNIVERSITY

FUR IS A UTILITY PROCESSOR FOR UPDATING CARD IMAGES ON MAGNETIC TAPE. THE CONTROL SPECIFICATION COMMANDS ARE SIMPLE AND THE SEQUENTIAL RECORD POSITION OF EACH RECORD IS THE BASIS FOR RECORD SELECTION. DELETION, OR ADDITION. COMMENTS:

THIS PROGRAM HILL RUN UNDER BPM/BTM/UTS OPERATING SYSTEM. PROGRAM TYPE: ASSEMBLER OR UTILITY. BASE Language main program is hritten in metasymbol.

890786

TOMAS-TERMINAL ORIENTED HERGE & SORT SIGMA 6-9

AUTHOR: D. PALMER, VANDERBILT UNIVERSITY

ABSTRACT:

USING TOMAS, A TIME-SHARING USER CAN SET UP AND SUBMIT A JOB TO THE BACKGROUND BATCH STREAM TO EITHER SORT A DISK FILE OR MERGE SEVERAL DISK FILES TOGETHER. THIS IS ACCOMPLISHED BY THE USER ANSWERING SEVERAL QUESTIONS CONCERNING THE REQUIREMENTS OF THE SORT/MERGE OPERATIONS. COMMENTS:

THIS PROGRAM HILL RUN UNDER CP-V/UTS OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

TOMAS IS HRITTEN FOR USE HITH SORT VERSION EOD OR LATER, AND MERGE
VERSION EOD OR LATER. IF THE EOD VERSIONS ARE USED, THE TECHNICAL BULLETIN(S) CORRECTING ERRORS IN HANDLING OF CONTROL COMMANDS CONTINUED ONTO SUCCESSIVE RECORDS MUST BE IMPLEMENTED. TOMAS REQUIRES EITHER THE BYTE STRING INSTRUCTIONS OR THEIR SIMULATION IN THE MONITOR.

890787

UTS ACCOUNTING SUMMARY

7 SIGMA 6-9 UTS AUTHOR:D. VOGEL, XEROX CORPORATION

ABSTRACT:

SSIMAL!: THE MONITOR-CREATED ACCOUNTING LOG IS SEARCHED AND SUMMARIZED FOR BOTH BATCH AND TIME-SMARED USERS. REPORTS ARE PRODUCED SHOWING TOTAL JOB EXECUTION TIME, CORE USED, JOB THROUGHPUT, AND PARTITION USE. THESE REPORTS ARE MOST USEFUL FOR SYSTEM TUNING TO PRODUCE MAXIMUM THROUGHPUT IN A PARTICULAR OPERATING ENVIRONMENT AT AN INSTALLATION.

THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE 15 UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN COBOL.
THIS PROGRAM SUMMARIZES THE ACCOUNTING LOGS CREATED BY UTS (BO1-DOO) AND CP-V.

890788

8 SIGMA 5-9 CALENDAR Author:D. Crockett, Douglas Aircraft Company

ABSTRACT:

SSTRACT:
CALENDAR, WHEN GIVEN THE DATE, RETURNS THE CORRESPONDING DAY OF THE WEEK. IF AN INVALID DATE IS
SPECIFIED, AN ERROR FLAG IS SET AND THE PROGRAM RETURNS TO THE USER MITHOUT PROCESSING THE DATE. LEAP
YEARS AND CENTURIES ARE PROPERLY HANDLED ACCORDING TO THE CONVENTIONS OF THE GREGORIAN CALENDAR.
THE CALENDAR SUB-PROGRAM IS DESIGNED FOR INCLUSION IN BOTH THE STANDARD AND REAL-TIME FORTRAN LIBRARIES
SUPPORTED BY ANY OF THE SIGMA 5-9 BATCH MONITORS. COMMENTS:

890788 CONTINUED ON FOLLOWING .PAGE

890788

CALENDAR (CONTINUED)

THIS PROGRAM HILL RUN UNDER BPM/BTM/RBM/UTS/XOS OPERATING SYSTEMS. PROGRAM TYPE IS LIBRARY ROUTINE. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL. NOTE: THE DAY RETURNED IS ACCURATE EXCEPT AS FOLLOWS: ILDATES PRIOR TO 1582 - ERROR IS TEN DAYS. 2.ACCORDING TO GREGORIAN CALENDAR CONVENTIONS, THERE IS AN ERROR OF THREE DAYS. AFTER 10,000 YEARS, INCREASING BY THREE DAYS.

SIGMA 7/8/9 CASPRE BPM

AUTHOR: SYSTEMS SOFTHARE, NASA-AMES RESEARCH CENTER

ABSTRACT:

CASPRE IS AN ON-LINE DEBUG SYSTEM FOR FOREGROUND USERS OPERATING UNDER A BPH SYSTEM ON THE SIGMA 7/8 COMPUTER. CASPRE OFFERS THE FOREGROUND USER A COMPLETE SET OF DIGITAL COMPUTER DEBUG FEATURES. ALSO INCLUDED ARE THE UPDATES REQUIRED FOR THE GOO LOADER AND THE DOO FORTRAN IV COMPILER, AND METAFUM, A PROGRAM TO FACILITATE UPDATING THE MONITOR, PROCESSORS, THE LIBRARY OR A USER PROGRAM.

THIS PROGRAM HILL RUN UNDER BPM/BTM OPERATING SYSTEM. PROGRAM TYPE IS ON-LINE DEBUG SYSTEM. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

SIGMA 5-9 AUTHOR:GILLARD, XEROX 890793 RBM SORT

ABSTRACT:
THIS IS A DISK SORT FOR THE FOLLOHING TYPE RECORDS: FIXED LENGTH BLOCKED AND UNBLOCKED; UNBLOCKED
VARIABLE LENGTH, AND RBM COMPRESSED FILES. THE SORT SUPPORTS ANY DEVICE THAT MAY BE ACCESSED VIA
STANDARD CALI, I READS AND HRITES. A MAXIMUM OF 18 SORT FIELDS MAY BE SPECIFIED IN ASCEMBING OR DESCENDING SEQUENCE. SORTING IS DONE ON AN ABSOLUTE BINARY-VALVED COLLATING SEQUENCE. COMMENTS:

THE SORT REQUIRES APPROXIMATELY BK OF STORAGE FOR EFFICIENT OPERATION. HOWEVER, EFFICIENCY VARIES WITH THE LOGICAL AND PHYSICAL SIZE OF THE INPUT AND OUTPUT RECORDS. INTERMEDIATE STORAGE REQUIREMENTS ARE APPROXIMATELY 2.1 - 2.4 TIMES THE INPUT FILE SIZE.

SIGMA 5-9 RBM COPY PROCESSOR AUTHOR:L. ZAYTOUN, HRIGHT-PATTERSON AIR FORCE BASE

ABSTRACT:

BSTRACT:
THIS PROGRAM ALLOHS USERS TO COPY DATA BETHEEN DEVICES, OP-LABELS, FILES, AND ALL COMBINATIONS THEREOF.
THE DATA MAY BE MULTI-FILED AND THE USER CAN SPECIFY THE NUMBER OF FILES TO BE MOVED. BINARY ROM'S AND
COMPRESSED DECKS MAY BE RECOGNIZED AND MANIPULATED INDIVIDUALLY UNDER USER COMMAND. THE PROCESSOR ALSO
ALLOHS THE USER TO MAINTAIN PARTITIONED FILES ON RAD OR DISK AS HELL AS ALLOHING THE USER TO MAINTAIN
LABEL AND RETRIEVE FILES ON MAGNETIC TAPE. THE FILES ARE IDENTIFIED BY NAME AND USER ACCOUNT NUMBER
(FROM JOB CARD OR :ACCOUNT COMMAND). DATA KEPT ON DISK IS COMPRESSED HITH MULTIPLE OCCURENCES (3 OR
MORE) OF ANY CHARACTER COMPRESSED. LOAD FILES MAY ALSO BE SAVED ON THE PARTITIONED FILE AREA. LOAD
FILES REALIZE UP TO A 20% SAVINGS ON DISK. EVEN COMPRESSED FILES MOVED TO THE PARTITIONED AREA MILL
EXPERIENCE FURTHER COMPRESSION. FILES MUST BE MOVED TO A HORK AREA BEFORE USE OF DECOMPRESSED BY THE
USER HIMSELF. THE COMPRESSION IS INSENSITIVE TO ALL CHARACTERS (00-FF). COMMENTS

THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN AP/METASYMBOL.
THIS PROGRAM HILL OPERATE ON A MINIMUM RBM CONFIGURATION. NOTE THAT THE NUMBER OF MEMBERS IN THE
PARTITIONED FILE AND THE SIZE OF THE DATA BUFFER FOR ALL COPIES IS A FUNCTION OF AVAILABLE BACKGROUND SPACE.

SIGMA 5-9 XREF-XSYMBOL AUTHOR: OHIO COLLEGE LIBRARY CENTER . A. LANDGRAF

ABSTRACT:

THIS PROGRAM GENERATES A CROSS REFERENCE DICTIONARY OF DEFINITIONS AND REFERENCES HHICH APPEAR IN A SOURCE OR COMPRESSED DECK THAT HAS BEEN PROCESSED BY MACROSYMBOL. THE PROGRAM NOTES UPDATE LINES TO COMPRESSED AREA AND HILL PARSE METASYMBOL COMPLEX EXPRESSIONS. COMMENTS:

OPERATES UNDER RBM MINIMUM CONFIGURATION AND UTILIZES DATA ON THE X1 AREA ON THE RAD AS IT MAS CREATED BY MACROSYMBOL

SIGMA 5-9 890795 TAPE FILE RETRIEVAL PROGRAM

AUTHOR: J. GILLARD, XEROX

ABSTRACT:
THIS PROGRAM ALLOWS USERS TO MAINTAIN AND RETRIEVE DATA FILES ON MAGNETIC TAPE BY NAME. TAPES ARE
LABELED HITH THEIR CREATION DATE. COMMENTS:

THIS PROGRAM HILL EXECUTE ON A MINIMUM RBM CONFIGURATION HITH ONE MAGNETIC TAPE DRIVE. DATA RECORD Length is a function of available background space.

898797 7 SIGMA 5-9 PAGE BURSTER AUTHOR:A. LANDGRAF, OHIO COLLEGE LIBRARY CENTER

ABSTRACT:

THIS PROGRAM HILL PRINT A BURST PAGE(S) TO ALLOH THE USER TO IDENTIFY LISTINGS. THE PROGRAM PRINTS
BLOCK LETTERS ON THREE LINES USING DATA PASSED VIA THE PROCESSOR CONTROL CARD. THE DATA AND TIME, JOB
NAME, ACCOUNT NUMBER, PROGRAMMER NAME, AND SYSTEM VERSION ARE ALSO PRINTED OUT.
COMMENTS:

THIS PROGRAM OPERATES ON A MINIMUM CONFIGURATION RBM. THE ACCOUNTING OPTION DOES NOT HAVE TO BE INCLUDED IN RBM, BUT THE DATE AND TIME MUST BE ENTERED.

XPL (GORDO) - XPL COMPILER 890799

AUTHOR: LAHRENCE LIVERMORE LABORATORY

BSTRACT:
A SIGMA 7 COMPILER FOR A SLIGHTLY EXTENDED VERSION OF THE COMPILER/SYSTEMS LANGUAGE XPL DESCRIBED IN THE BOOK IA COMPILER GENERATOR! BY MCKEEMAN, HORNING AND HORTMAN. THE COMPILER IS ITSELF HRITTEN IN XPL (GORDO) AND IS SELF-COMPILING. OUTPUT MAY BE RUN ON ANY SIGMA 7 WHEN USED WITH A LOCALLY CODED SUBMONITOR INTERFACE ROUTINE.
THE XPL LANGUAGE HAS PROVEN ITSELF USEFUL IN THE CONSTRUCTION OF LANGUAGE TRANSLATORS, GENERAL UTILITY PROGRAMS, SYSTEMS MODULES, AND IN OTHER APPLICATIONS WHERE THE PRIMARY NEED IS LOGICAL AND SYMBOLIC MANIPULATION OF DATA. THE CODE GENERATED BY XPL IS COMPETITIVE IN EFFICIENCY WITH GOOD ASSEMBLY LANGUAGE AND THE READIBILITY OF XPL PROGRAMS IS VASTLY ENHANCED BY ITS HIGHER-LEVEL LANGUAGE STRUCTURE. ABSTRACT:

THIS PROGRAM HILL RUN UNDER GORDO OPERATING SYSTEM. PROGRAM TYPE IS COMPILER. BASE LANGUAGE MAIN

PROGRAM IS HRITTEN IN XPL (BORDD).

THE OBJECT CODE OUTPUT OF THE XPL (GORDD) COMPILER IS A CORE IMAGE FILE. TO ENHANCE PORTABILITY, THAT FILE DOES NOT ASSUME THE EXISTENCE OF ANY PARTICULAR OPERATING SYSTEM. IN PARTICULAR, A SHALL SYSTEM-INTERFACE ROUTINE (THE ISUBMONITOR!) MUST BE SUPPLIED AT EACH INSTALLATION USING XPL (GORDD).

SIGMA 5-9 890801

AUTHOR: G. LEACH

ABSTRACT:
XPL IS THE COMPILER GENERATOR AS DESCRIBED BY MCKEEMAN, HORNING, AND HORTMAN. THE SIX HODULES MAKE UP A COMPLETE COMPILER WRITING SYSTEM.

COMMENTS:

JETHENIS: THIS PROGRAM HILL RUN UNDER THE RBM OPERATING SYSTEM. THE TYPE OF PROGRAM IS A COMPILER. THE BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN IS MACROSYMBOL.

2 SIGMA 5-9 XBASIC - BTM VERSION Author:s. Slykhous, university of California at Irvine 208028

XPL

ABSTRACT:
XBASIC IS AN EXTENDED VERSION OF XEROX BASIC. THE EXTENDED FEATURES INCLUDE STRING MANDLING, BOOLEAN VARIABLES AND THE ABILITY TO SAVE AND EDIT PROGRAMS.

DIMENTS:
THIS PROGRAM HILL RUN UNDER BPM/8TM OPERATING SYSTEMS. PROGRAM TYPE IS LANGUAGE PROCESSOR. BASE
LANGUAGE MAIN PROGRAM IS MRITTEN IN METASYMBOL.
A MODIFIED UTS XEROX BASIC IS INCLUDED ON THE DISTRIBUTED TAPE AND THE FEATURES OF XBASIC AND THE
MODIFIED UTS VERSION ARE DISCUSSED IN THE -11.

94 SIGHA 8-9 GR. AUTHOR: Y. HUBER, XEROX CORPORATION GRAPHER 890804

ABSTRACT:

GRAPHER ANALYZES UTS ACCOUNTING LOG TO PRODUCE FIVE SETS OF REPORTS: BURST SHEET AND 1-LINE SUMMARY FOR EACH JOB, GRAPH OF JOBS IN EACH PARTION AND CPU UTILIZATION, SYSTEM PROFILE OF JOB SIZES AND COMPUTE BOUNDEDNESS CHARACTERISTICS, AND AN ACCOUNTING LOG SUMMARY.

THIS PROGRAM HILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS SERVICE ROUTINE.
GRAPHER IS USEFUL FOR SYSTEM TUNING AND SYSTEM SUMMARY, ESPECIALLY BATCH. THE USER IS PROVIDED HITM A
CONCISE AND EXTENSIVE SUMMARY OF JOB AND SYSTEM CHARACTERISTICS AS HELL AS SYSTEM PERFORMANCE.

8 SIGHA 5-9 AUTHOR:J. SAITO, NASA/AMES FUNCTION TABLE PROCESSOR 890808

STRACT:
THE FUNCTION TABLE PROCESSOR IS A SINGLE PASS COMPILER THAT TRANSLATES FUNCTION AND ARGUMENT DESCRIPTION
STATEMENTS AND GENERATES TABLES OF ARBITRARY FUNCTIONS OF ONE, THO, AND THREE VARIABLES. THE OBJECT
PROGRAM HAS THE CHARACTERISTICS OF A SUBROUTINE HHICH IS LOADED HITH THE USER'S PROGRAM TO BE ACCESSED
BY THE FUNCTION GENERATION SUBROUTINES AT RUN TIME. THE FUNCTION GENERATION SUBROUTINES PERFORM TABLE
LOOKUPS WHEN ENTERED AND RETURN A DATA VALUE FOR A SPECIFIED ARGUMENT. ABSTRACT:

THIS PROGRAM WILL RUN UNDER BPM/BTM OPERATING SYSTEM. PROGRAM TYPE IS COMPILER. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.

FAST SAVE/RESTORE - CP-V 890809

9 SIGMA 6-9 AUTHOR:XEROX CORPORATION

ABSTRACT: FAST SAVE/RESTORE IS A PROCESSOR SUPPLIED HITH UTS-DOO AND CP-V TO SAVE/RESTORE FILES.

THIS PROGRAM HILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. FAST FPURGE RESTORE SHOULD RUN IN CONJUNCTION HITH A FAST FPURGE SAVE. A SAVE IS DELIVERED HITH THE RELEASE TAPE, BUT NOT SUPPORTED.

FAST FPURGE RESTORE - BPM 890810 SIGMA 5-9

AUTHOR: H. KRAUSS, XEROX

ABSTRACT: FAST FPURGE RESTORE IS A PROCESSOR THAT HILL ALLOH THE USER TO RESTORE FILES TO A SYSTEM FROM FPURGE FORMATTED TAPES. THIS PROCESSOR HILL APPROACH TAPE SPEED DEPENDING UPON THE SATURATION OF THE SYSTEMS CURRENT DATA BASE. FAST FPURGE RESTORE SHOULD BE RUN AS THE ONLY USER IN THE SYSTEM..

THIS PROGRAM WILL RUN UNDER BPM/BTM OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

PAGE 44 - 01/31/75

ARSTRACT:

890812 SIGMA 5-9 RBM METASYMBOL AUTHOR: J. GILLARD, XEROX CORPORATION

> THIS IS HOD METASYMBOL HHICH HAS BEEN MODIFIED TO USE RBM MODE CALL'S AND HAS PAGE CONTROL AND CARD SEQUENCING ROUTINES. ALL TECH. BULLETINS THROUGH TBID ARE INCLUDED. THE MAJOR DIFFERENCES ARE THAT ALL SOURCE UPDATES MUST BE IN SEQUENCE, THE ACCOUNT OPTION, 'AC', FOLLOHS THE MAJOR DIFFERENCES ARE THAT ALL SOURCE UPDATES MUST BE IN SEQUENCE, THE ACCOUNT OPTION, 'AC', FOLLOHS THE MAJOR DIFFERENCES ARE THAT ALL SOURCE FILES, AND TO OPTION HAS NOT BEEN IMPLEMENTED. INCLUDED HITH THE ASSEMBLER ARE THE REQUIRED SYSTEM FILES, SOURCE FILES, AND COMPRESSED FILES TO ALLOH THE USER TO RE-ASSEMBLE THE ENTIRE ASSEMBLER.

COMMENTS: THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER. BASE LANGUAGE MAIN THIS PROGRAM HILL RUN UNDER ROM OPERATING SYSTEM. PRUGRAM TYPE 15 ASSEMBLER. BASE LAM PROGRAM IS WRITTEN IN METASYMBOL.

THE ASSEMBLER IS VERY LARGE AND SHOULD HAVE A BACKGROUND SIZE OF 16K HORDS OR LARGER. THE FOLLOHING CHANGES HERE MADE TO THE TAPE:

1. THE FIRST THREE FILES NON CONTAIN MORE THAN ONE ROM EACH.

2. LINES 8-12 HERE DELETED FROM FILE 15 (CCI SOURCE UPDATES) TO ALLOH PROPER ASSEMBLY.

3. FILES 28 & 28 HERE INTERCHANGED ON ORIGINAL RELEASE TAPE; THIS HAS BEEN CORRECTED. IN ALL OTHER RESPECTS, THIS TAPE IS IDENTICAL TO THE 1ST A00 RELEASE.

890813 SIGMA 6-9 XEROX/COAST CAL/APL

AUTHOR: R. CHIENG, XEROX ABSTRACT:

SSTRACT:
THE XEROX CAI PACKAGE IS CALLED CAL/APL STANDS FOR COMPUTER ASSISTED INSTRUCTION. THE PACKAGE CONTAINS
26 ENGLISH-LANGUAGE-LIKE INSTRUCTIONS, SUCH AS READ, SCAN, ETC. HITH THESE 26 INSTRUCTIONS, A
NON-PROFESSIONAL PROGRAMMER IS ABLE TO ENTER INSTRUCTIONAL MATERIALS INTO COMPUTER FOR STUDENT
INTERACTION. IT ALSO ALLOWS THE STUDENT TO USE THE TERMINAL AS A DESK CALCULATOR HAVING INSTANT
FEEDBACK RESULTS. THE 26 INSTRUCTIONS WERE CODED UNDER APL. THERE IS ALSO A DEMO CALLED CALAPLDEMO IN THIS TAPE.

THIS PROGRAM HILL RUN UNDER THE UTS OPERATING SYSTEM. PROGRAM TYPE IS CAI APPLICATION. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN APL.

890815 SIGMA 6-9 PRINT FORMS PROCESSOR AUTHOR: CARLETON UNIVERSITY

ABSTRACT:

PRINTING, EITHER HITH OR HITHOUT OPERATOR SETUP OF SPECIAL FORMS.

THIS PROGRAM HILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE Main program is written in metasymbol.

SIGMA 6-9 890816 DECLARE TEMPORARY FILES

AUTHOR: CARLETON UNIVERSITY

ABSTRACT:

THIS PROCESSOR ALLOWS THE USER TO DECLARE DISC FILES AS TEMPORARY SO THAT THEIR FILES WILL BE AUTOMATICALLY RELEASED AT THE END OF THE JOB. A FILE CAN BE OPENED AND CLOSED AGAIN WITHOUT BEING DELETED (COMPARE REL OPTION ON ASSIGN COMMAND) AND THE FILE WILL BE DELETED WHETHER THE JOB ABORTS OR TERMINATES NORMALLY.

MHENISI THIS PROGRAM HILL RUN UNDER UTS OPERATNO SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

SIGMA 6-9 FILE DUMP

AUTHOR: CARLETON UNIVERSITY

ABSTRACT:

THIS PROCESSOR DUMPS SELECTED RECORDS FROM LABELLED TAPE OR RAD. THE PARAMETERS ALLOH FILEDUMP TO SKIP RECORDS, DUMP A SPECIFIED NUMBER OF RECORDS AND SEARCH FILE FOR SPECIFIED STRING BEFORE DUMP.

THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

8 SIGMA 6-9 AUTHOR:CARLETON UNIVERSITY 890818 CATALOG PROCEDURES

ABSTRACT:

THE CATALOG PROCEDURES SYSTEM IS COMPRISED OF THO PROGRAMS: CATALOG AND EXEC. THE PROGRAM CATALOG FORMS DISC FILES OF CONTROL CARD RUN DECKS. THE EXEC PROGRAM SUBMITS THE CATALOGED FILE TO THE BATCH STREAM. THE EXEC PROCESSOR ALSO HILL SUBSTITUTE NAMES IN THE FILE TO BE SUBMITTED TO THE BATCH STREAM. COMMENTS:

THIS PROGRAM HILL RUN UNDER UTS OPERATING SYSTEMS. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

890820 UTS FORM DATA ENTRY PACKAGE - FORM PAK

AUTHOR: P. KOPEL, J. BOREN, XEROX CORPORATION

ABSTRACT:
FORMPAK IS A SYSTEM OF PROGRAMS FOR ON-LINE ENTRY OF FORMS FROM A BEEHIVE MODEL IIIA ALPHANUMERIC
DISPLAY TERMINAL TO A XEROX SIGMA 6,7, OR 9 COMPUTER OPERATING UNDER THE UTS MONITOR SYSTEM. THE SYSTEM
CONSISTS OF THO PARTS:

1.) AN INDEPENDENT PROGRAM (FORMGEN) WHICH ENABLES ON-LINE DEFINITION OF NEW FORMS AND MODIFICATION OF OLD ONES, AND

890820 CONTINUED ON FOLLOHING PAGE

890820

UTS FORM DATA ENTRY PACKAGE - FORM PAK (CONTINUED)

2.) A SET OF FORTRAN-CALLABLE SUBROUTINES (FORMLIB) WHICH ENABLE AN ON-LINE PROGRAM TO EASILY DISPLAY
FORMS DEFINED WITH FORMGEN, READ THE FILLED-OUT FORMS, RETRIEVE INDIVIDUAL FIELDS FROM THE FORMS, AND
CLEAR THE FORMS FOR REPEATED ENTRY. DATA MAY ALSO BE DISPLAYED IN ANY FIELD ON A FORM, AND ONE-LINE
ERROR AND INSTRUCTIONAL MESSAGES MAY BE SENT TO THE TERMINAL MITHOUT DESTROYING THE FORM CURRENTLY DISPLAYED.

COMMENTS: THIS PROGRAM HILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLY OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN FORTRAN.

OPERATES UNDER UTS MINIMUM CONFIGURATION. REQUIRES ONE (OR MORE) BEEHIVE MODEL IIIA TERMINALS.

SIGMA 5-9 AUTHOR:DR. C. BARKER 890823

SNOBOL4 VERSION 3.7

ABSTRACT:

BSTRACT:
THIS IMPLEMENTATION OF SNOBOLY IS A PROPER SUBSET OF THE SNOBOLY LANGUAGE AS DESCRIBED IN GRISHOLD,
POAGE, AND POLONSKY, THE SNOBOLY PROGRAMMING LANGUAGE, 2ND ED., PRENTICE-HALL. ALL LANGUAGE FEATURES
ARE IMPLEMENTED EXCEPT THE PRIMITIVE FUNCTION LOAD. SNOBOLY HAS DEVELOPED AT BELL TELEPHONE
LABORATORIES, INC.. IT CHARACTER-SRING OPERATIONS, RECURSIVE FUNCTIONS, TABLE STRUCTURES, USER-DEFINED
DATATYPES AND SEMANTICALLY REDEFINABLE OPERATORS HAVE MADE IT A USEFUL TOOL IN SUCH AREAS AS COMPILATION
TECHNIQUES, MACHINE SIMULATIONS, SYMBOLIC MATHEMATICS, TEXT PREPARATION, NATURAL LANGUAGE TRANSLATION,
LINQUISTICS, AND MUSIC ANALYSIS. COMMENTS:

THIS PROGRAM HILL RUN UNDER BPM OPERATING SYSTEM. PROGRAM TYPE IS COMMERCIAL PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

(1) THIS IMPLEMENTATION HAS BEEN EXTENSIVELY CHECKED OUT, BUT ONLY ON A 84K SIGMA 7 RUNNING UNDER BPH IN AN EXCLUSIVELY BATCH ENVIRONMENT. BYTE-STRING AND FLOATING-POINT INSTRUCTIONS ARE FREELY USED.

(2) IN ORDER TO EXECUTE SUCCESSFULLY IN FEHER THAN ABOUT 28000 HORDS OF MEMORY, APPROPRIATE OPTIONS MUST

BE USED ON THE PROCESSOR COMMAND CARD.

8 SIGMA 5-9 ROM TAPE FILE UPDATE PROGRAM - ROMUP AUTHOR:C. J. COMBIE, UNIVERSITY OF ALABAMA IN BIRMINGHAM 890828

ABSTRACT:

ROMUP ENABLES ANYONE TO CONVENIENTLY MAINTAIN A TAPE FILE CONTAINING RELOCATABLE OBJECT MODULES (ROMS) OF FORTRAN SUBROUTINES. ROMUP HILL ALLOH ONE TO RECOMPILE ONLY THE SUBROUTINES HHICH CHANGE, ADD NEW SUBROUTINES, DELETE OLD SUBROUTINES, AND THEN RELOAD THE ROMS FROM THE OUTPUT TAPE OF THE ROMUP RUN. COMMENTS:

THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN MACROSYMBOL.

SPLURGE FOR BPH B SIGMA 5-9 SP AUTHOR:B. GAY, BUCKNELL UNIVERSITY

ABSTRACT: THE FUNCTION OF THE SPLURGE PROCESSOR IS TO PURGE UNHANTED FILES FROM THE SYSTEM'S MASS STORAGE MEDIA. SPECIFICATIONS OF ACCOUNTS AND FILE NAMES FOR FILES WHICH ARE TO REMAIN ARE INPUT AND THE UNDECLARED FILES ARE DELETED LEAVING ONLY THE DECLARED FILES.

THIS PROGRAM HILL RUN UNDER THE BPH/BTH OPERATING SYSTEM. THE PROGRAM IS A UTILITY TYPE. THE BASE Language main program is hritten in is metasymbol.

SPLURGE FOR UTS SIGMA 8-9 890829

AUTHOR: B. GAY, BUCKNELL UNIVERSITY

ABSTRACT:

THE FUNCTION OF THE SPLURGE PROCESSOR IS TO PURGE UNMANTED FILES FROM THE SYSTEM'S MASS STORAGE MEDIA. SPECIFICATIONS OF ACCOUNTS AND FILE NAMES ARE INPUT FOR FILES WHICH ARE TO REMAIN, AND THE UNDECLARED FILES ARE DELETED LEAVING ONLY THE DECLARED FILES.

COMMENTS:
THIS PROGRAM WILL RUN UNDER THE UTS OPERATING SYSTEM. THIS PROGRAM IS A UTILITY TYPE. THE BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN IS METASYMBOL.

SI SIGMA 7 AUTHOR:D. SMERESKI IBM-XEROX APL HORKSPACE CONVERTER 890831

AUTHORID: SHERESKI
ABSTRACT:
THE IBM XEROX APL HORKSPACE CONVERTER IS DESIGNED TO TAKE IBM-APL HORKSPACES FROM A SEL-DUMP TAPE
(STANDARD BACKUP METHOD AT 1.P. SHARP) AND CONVERT THEM TO FILES OF THE SAME NAME ON THE UTS FILE SYSTEM
IN THE FORMAT OF XEROX-APL HORKSPACES. CONVERT MUST BE ENTERED AS A SHARED PROCESSOR HITH JIT ACCESS
FOR IT TO HORK.
COMMENTS:

THIS PROGRAM HILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

IBM-XEROX APL FILE CONVERTER SIGMA 8/7/9 890832

AUTHOR: J. STANSBURY

ABSTRACT:
THE APL FILE CONVERTER (FCON) IS USED TO CONVERT THE APL FILES OF I.P. SHARP AND SCIENTIFIC TIME SHARING CORPORATION TO THE FORMAT USED BY XEROX UTS/APL. THE INPUT IS THE FSELDUMP TAPE CREATED BY EITHER OF THE ABOVE APL SERVICES. THE OUTPUT IS THE CONVERTED SET OF FILES ON A UTS SYSTEM.

INTICATED: THIS PROGRAM HILL RUN UNDER UTS-DOO OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN Program is Hritten in Metasymbol.

S SIGMA 5-9 PAPER TAPE READ PROGRAM - TRANSLT AUTHOR:A. VANHOOSE III, UNIVERSITY OF ALABAMA IN BIRMINGHAM 890833

ARSTRACT:

TRANSLIT READS INFORMATION FROM PAPER TAPE TO MAGNETIC TAPE OR DISC IN THE SPECIFIED FORMAT. PAPER
TAPES MAY BE ASCII OR EBCDIC CODING AS HELL AS FIXED-LENGTH BINARY RECORDS. THE OUTPUT MAY BE TO THE
LINE PRINTER ALSO. OPTIONS ARE PROVIDED FOR BLOCKING THE OUTPUT RECORDS AS HELL AS STACKING THE OUTPUT FILE ONTO A MULTI-FILE TAPE.

THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN MACROSYMBOL.

890834

INTERACTIVE CRITICAL PATH

54 SIGMA 6-9 AUTHOR:CARLETON UNIVERSITY

ABSTRACT:

AN ON-LINE PROGRAM FOR ANALYSIS OF A PROJECT NETHORK. AVAILABLE COMMANDS ALLOH THE USER TO CREATE, EDIT, AND SAVE PERMINENT DISC FILES AS HELL AS EXECUTE THE ANALYZING PROGRAM OF THIS DATA AND LISTING RESULTS. THE MAXIMUM NUMBER OF ACTIVITIES PERMITTED IS ONE HUNDRED. COMMENTS:

THIS PROGRAM HILL RUN UNDER THE UTS OPERATING SYSTEM. PROGRAM TYPE IS APPLICATION. BASE LANGUAGE MAIN PROGRAM IS MRITTEN IN FORTRAN.

PFROPR

POLYNOMIAL CURVE FITTING

SIGMA 6-9
AUTHOR:CARLETON UNIVERSITY

ABSTRACT:
THE POLYNOHIAL CURVE FITTING PROCESSOR IS AN INTERACTIVE PROGRAM. AFTER UP TO 200 POINTS ON THE X-Y AXIS
ARE DEFINED, THE POLYNOMIAL CURVE (UP TO THE 15TH DEGREE) IS FITTED TO THE X-Y POINTS.

THIS PROGRAM HILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS MATHEMATICAL APPLICATION. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.

890836

INTERACTIVE MULTIPLE LINEAR REGRESSION

6 SIGMA 6-9 AUTHOR:CARLETON UNIVERSITY

ABSTRACT:

THIS PROCESSOR, REGRESS, PERFORMS MULTIPLE LINEAR REGRESSIONS IN THO METHODS: THE ORDINARY LEAST SQUARES AND THE STEPHISE METHODS. UP TO 15 VARIABLES HITH EACH HAVING A MAXIMUM OF 200 OBSERVATIONS ARE PERMITTED. EDITING, LISTING, TRANSFORMING, AND SAVING THE DATA ARE OTHER OPERATIONS PROVIDED BY REGRESS.

THIS PROGRAM HILL RUN UNDER THE UTS OPERATING SYSTEM. THE PROGRAM TYPE IS STATISTICAL APPLICATION.

890837

SIGMA 5-9

DISCRETE SIMULATION PACKAGE - SIMPAC

AUTHOR: CARLETON UNIVERSITY

ABSTRACT:
SIMPAC IS A FORTRAN CALLABLE PACKAGE OF 37 SUBPROGRAMS AND FUNCTIONS. THE MAJOR COMPONENTS OF SIMPAC ARE
SERVICE ROUTINES FOR INITIALIZING AND DRIVING THE SIMULATION, UTILITY ROUTINES FOR FILE AND QUEUE
HAINTENACE, DATA COLLECTION ROUTINES, AND RANDOM NUMBER GENERATORS.

COMMENTS:
THIS PROGRAM HILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS SCIENTIFIC SUBROUTINES. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN FORTRAN.

890838

INTERACTIVE CONTINUOUS SIMULATION

8 SIGMA 6-9 AUTHOR:CARLETON UNIVERSITY

SIMULB IS A MODULAR PROGRAM ALLOHING THE USER CONSIDERABLE FLEXIBILITY IN SOLVING SYSTEMS OF DIFFERENTIAL AS HELL AS QUADRATURE EQUATIONS. THE SUBSYSTEMS INCLUDED FEATURE SAVE AND RETRIEVE MODELS, PLOTTING ON USERS TERMINAL AND FACILITIES TO DEFINE AND MODIFY MODELS.

THIS PROGRAM HILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE HAIN PROGRAM IS WRITTEN IN FORTRAN.

890839

INTERACTIVE ANALYSIS OF VARIANCE

SIGMA 6-9
AUTHOR:CARLETON UNIVERSITY ABSTRACT:

A STANDARD ANALYSIS OF VARIANCE FOR GENERAL, COMPLETE DESIGNS WITH AN EQUAL NUMBER OF SCORES PER CELL.

KEYMORDS ARE USED IN THE PROCESSOR TO ALLOH THE USER TO DEFINE, LIST, SAVE, AND EDIT THE INPUT TO BE
ANALYZED. THE MAXIMUM NUMBER OF SCORES FOR ANYONE ANALYSIS IS 1000.

COMMENTS:

THIS PROGRAM HILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS STATISTICAL APPLICATION. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.

890840

SIGMA 6-9

INTERACTIVE PLOTTING PROGRAM

AUTHOR: CARLETON UNIVERSITY

ABSTRACT:

INTERPOLITING PROGRAM PRODUCES TERMINAL-OUTPUT PLOTS. THE USER MAY INPUT UP TO 15 VARIABLES, EACH MAYING A MAXIMUM OF 100 VALUES. EACH PLOT MAY MAYE UP TO FOUR VARIABLES PLOTTING AGAINST ANY OTHER VARIABLE.

THIS PROGRAM HILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS MRITTEN IN FORTRAN.

INTERACTIVE CROSS TABULATION 1 SIGMA 6-9 AUTHOR:CARLETON UNIVERSITY 890841

ABSTRACT:
AN INTERACTIVE CROSS TABULATION PROGRAM, MINITAB, WHICH IS CAPABLE OF HANDLING FILES INVOLVING AS MANY
AS 48 VARIABLES. MINITAB HAS FACILITIES TO LIST, EDIT, RECODE, STORE AND RETRIEVE FILES AS WELL AS
FACILITIES TO PRODUCE TABLES OF BOTH COUNTS AND PERCENTAGES.

COMMENTS:
THIS PROGRAM HILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS STATISTICAL APPLICATION. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN FORTRAN.

3 SIGMA 5-9 CONTROL CARD FILER AUTHOR:J.D. BILLINGS, XEROX CORPORATION 890843

AUTHOR: J. BILLINGS, XEROX CORPORATION

ABSTRACT:

A PROCESSOR WHICH READS CARDS, INCLUDING MONITOR CONTROL CARDS. OUTPUT CAN BE A FORMATTED PRINTER

LISTING AND/OR A CONSECUTIVE FILE OF CARD-IMAGES AND/OR A READY-TO-EDIT KEYED FILE. PERFORMS AUTOMATIC

LINE-NUMBERING, KEY GENERATION, AND CAN CONVERT ALL OR SELECTED PARTS OF THE INPUT DECK FROM FBCD TO

BCD. CARDS ARE PLACED IN THE READER UPSIDE DOWN AND READ IN THE BINARY MODE.

COMMENTS:

COMMENTS:

RECORDANT TYPE IS LITTLETY. BASE LANGUAGE MAIN

UNITERIES: THIS PROGRAM HILL RUN UNDER BPM/BTM/UTS OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

ALTRAN RUN-TIME ROUTINES STOMA 5-9 890848

AUTHOR: P. SHERROD, VANDERBILT UNIVERSITY

ABSTRACT: STRACT:

METASYMBOL 'PRIMITIVE' ROUTINES FOR USE WITH THE ALTRAN PROCESSOR WHICH IS AVAILABLE FROM BELL LABS.

ALTRAN IS A SOPHISTICATED LANGUAGE FOR ALGEBRAIC MANIPULATION OF SYMBOLIC POLYMOMIAL EXPRESSIONS.

ALTRAN HAS FEATURES OF ALGOL (E.G., RECURSIVE PROCEDURES) AND FORTRAN AND INCLUDES A DATA TYPE

'ALGEBRAIC'. IT WILL AUTOMATICALLY FACTOR AND SIMPLIFY THE RESULTS OF ALGEBRAIC MANIPULATIONS OF

POLYMOMIALS. ONE COULD, FOR EXAMPLE, EASILY FIND THE INVERSE OF A MATRIX EACH ELEMENT OF WHICH MAS A POLYNOMIAL.

COMMENTS: THIS PROGRAM HILL RUN UNDER BPM/BTM AND UTS OPERATING SYSTEMS. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. THE ALTRAN PROCESSOR MAY BE REQUESTED BY WRITING TO: M.S. BROWN/ ALTRAN PROJECT/ BELL LABS; 800 MOUNTAIN AVENUE/ MURRAY HILL, NEW JERSEY 07974.

UCLA BIOMEDICAL STATISTICAL PACKAGE-BMD 50 SIGMA 5-9 AUTHOR:XEROX CORPORATION 890850

ABSTRACT:

THE BMD PACKAGE IS A GROUP OF 83 GENERAL STATISTICAL PROGRAMS. THERE ARE SEVEN CLASSES OF PROGRAMS: DESCRIPTION AND TABULATION OF DATA, MULTIVARIANT ANALYSIS, REGRESSION ANALYSIS, TIME SERIES ANALYSIS, VARIANCE ANALYSIS, GUTMAN SCALE ANALYSIS, AND FACTOR ANALYSIS. COMMENTS:

THIS PROGRAM HILL RUN UNDER ALL OPERATING SYSTEMS. PROGRAM TYPE IS STATISTICAL PROGRAMS. BASE LANGUAGE THE PROGRAM IS HRITTEN IN FORTRAN.

THE PROGRAMS HILL RUN UNDER ALL PRESENT XEROX SYSTEMS AND COMPUTERS, INCLUDING THE 18-BIT COMPUTERS.

THE -11 CONTAINS THE ADDRESS HHERE DOCUMENTATION MAY BE ORDERED FROM UCLA.

8 SIGHA 8-9 DISPLAY SET DCB'S AUTHOR: 9. FINEMAN, UNIVERSITY OF VERMONT 890858

ABSTRACT:

THIS PROCESSOR LISTS THOSE DOB'S WHICH HAVE BEEN MODIFIED BY A SET COMMAND DURING THE PRESENT LOG-ON SESSION. THE DEVICE OR FILE ASSIGNED TO THE DOB IS LISTED AS WELL AS THE OPTIONS SET.

THIS PROGRAM HILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

SIGMA 6/7/9 INTER AUTHOR:D. OLECHNA, XEROX CORPORATION ABSTRACT: 890865 INTERACTIVE LEAST SQUARES CURVE FITTING

DEFINALTY IS AN INTERACTIVE CURVE-FITTING PROGRAM THAT USES THE LEAST SQUARES TO FIT TO FIT DATA FROM USER-CREATED FILES TO THE FOLLOWING CURVE TYPES:

- 1. Y=A+BX 2. Y=AEBX
- Y=AXB Y=A+(B/X) 3.
- Y=1/(A+8X)
- 5. T=X/(A+BX)
 THE PROGRAM AUTOMATICALLY SORTS THE DATA IN ASCENDING ORDER OF X-VALUES. THE OUTPUT CONSISTS OF A AND B COEFFICIENTS AND AN INDEX OF DETERMINATION (HHICH APPROACHES UNITY FOR THE BEST FIT). THE USER IS PROVIDED HITH THE OPTIONS OF SEEING THE FULL DETAILS FOR EVERY DATA POINT OR LOOKING AT JUST THE HIGHLIGHTS. 200 POINTS MAXIMUM MAY BE FIT.

COMMENTS:

THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.

INTERACTIVE MULTIPLE REGRESSION ANALYSIS SIGMA 6/7/9

AUTHOR: D. OLECHNA, XEROX CORPORATION

ABSTRACT:

MULFIT INTERACTIVELY PERFORMS A MULTIPLE REGRESSION ANALYSIS FOR AS MANY AS SIX INPUT VARIABLES WITH THE OPTION THAT THE INPUT VARIABLES CAN BE TRANSFORMED. SIXTEEN RELATIONSHIPS ARE PROVIDED FOR TRANSFORMATION, ALONG WITH THO TEMPORARY STORAGE LOCATIONS.

THIS PROGRAM HILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN FORTRAN.

SIGMA 6/7/9 INTERACTIVE STEPHISE REGRESSION PROGRAM

AUTHOR: D. OLECHNA, XEROX CORPORATION ABSTRACT:

STEP IS AN INTERACTIVE PROGRAM THAT PERFORMS STEPHISE REGRESSION ON USER CREATED FILES. USER HAVE THE OPTIONS OF SPECIFYING VARIABLES TO BE FORCED INTO THE REGRESSION, DELETING VARIABLES, NAMING ANY VARIABLE AS THE DEPENDENT VARIABLE, AND LIMITING THE VARIABLE ENTERING THE REGRESSION. IF TRANSCENERATION OF THE DATA IS DESIRED EITHER OF THE PROGRAMS TRAN OR TRANB (CAT.NO. 890868) MAY BE USED BEFORE USING STEP. COMMENTS:

THIS PROGRAM HILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.

INTERACTIVE TRANSGENERATION 890868 SIGNA 8/7/9

AUTHOR: D. OLECHNA, XEROX CORPORATION ABSTRACT:

TRAN AND TRANB ARE THO INTERACTIVE PROGRAMS THAT PERMIT THE USER TO TRANSFORM DATA STORED IN HIS FILE AND STORE THE RESULT IN A FILE THAT MAY NOT HAVE THE SAME NAME AS HIS INPUT FILE. EIGHTEEN RELATIONSHIPS ARE PROVIDED FOR TRANSFORMATION ALONG HITH THO TEMPORARY STORAGE LOCATIONS. TRAN IS INTENDED FOR SMALL DATA SETS (MAX. OF 6X250) AND TRANB FOR LARGER ONES (MAX. OF 20X500). UP TO TRANSFORMATIONS MAY BE MADE WITH EITHER PROGRAM. COMMENTS:

THIS PROGRAM HILL RUN UNDER UTS OPERATING SYSTEMS. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN FORTRAN.

9 SIGMA 6/7/9 HOMENTS OF INERTIA & RADIUS OF GYRATION AUTHOR: A. FUKS AND H. WHITES, XEROX CORPORATION

MOMENTS IS AN INTERACTIVE PROGRAM THAT ENABLES THE USER TO CALCULATE CENTER OF GRAVITY, POLAR HOMENT OR INERTIA ABOUT THE CENTER OF GRAVITY AS HELL AS ABOUT AXIS OF ROTATION, AND RADIUS OF GYRATION OF BOTH THE CENTER OF GRAVITY AND AXIS OF ROTATION OF ANY GIVEN THREE-DIMENSIONAL OBJECT.

THIS PROGRAM HILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIM PROGRAM IS WRITTEN IN FORTRAN.

890870 SIGNA 5-9 CLEBSCH-GORDAN SUBROUTINE

AUTHOR: N. LIPARI, XEROX CORPORATION ABSTRACT:

THIS FORTRAN CALLABLE SUBROUTINE CALCULATES THE CLEBSCH-GORDAN COEFFICIENTS AS DEFINED IN 1THE THEORY OF ATOMIC SPECTRAL, BY E.U. CONDON AND G.H. SHORTLY (P.75, 1967 EDITION).

THIS PROGRAM HILL RUN UNDER BPM/BTM, RBM AND UTS OPERATING SYSTEMS, PROGRAM TYPE IS SCIENTIFIC SUBROUTINE. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN. THE CALLING PROGRAM HUST SUPPLY PARAMETERS NJI, NJ2, HI, M2, NJ, H. SUBROUTINE CLEBSH RETURNS THE COEFFICIENTS COG AND C3J AS DEFINED IN THE REFERENCE ABOVE. CLEBSH USES SUBROUTINE FACT WHICH IS INCLUDED IN THE SUPPLIED SOURCE MODULE.

71 SIGHA 6/7/9 AUTHOR:XEROX CORPORATION 890871 GRAPHICS SUBROUTINES

ABSTRACT:

THIS SET OF FORTRAN-CALLABLE SUBROUTINES SUPPLEMENTS THE STANDARD CALCOMP GRAPHICS SUBROUTINES. THE FOLLOWING FUNCTIONS ARE PROVIDED: CONTOUR MAPPING; THREE-DIMENSIONAL SURFACE PROJECTION; LOGARITHMIC GRIDS, PROBABILITY AXIS, GRID, AND CURVE PLOTTING; INTEGER AXIS ANNOTATION; DASHED LINE GENERATORS; AND A SIMPLIFIED GRAPH PLOTTING PACKAGE.

IMPENTS:
PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN FORTRAM.
THE SUPPLIED PACKAGE CONTAINS TEN SUBROUTINES HHICH CAN BE IMPLEMENTED INDIVIDUALLY OR AS A COMPLETE SUPPLEMENTARY GRAPHICS LIBRARY. ALL OF THE SUBROUTINES CALL ONE OR SEVERAL OF THE BASIC CALCOMP PPROGRAMS HHICH MUST BE ORDERED AND IMPLEMENTED SEPARATELY BECAUSE THEY ARE INSTALLATION DEPENDENT (HARDHARE AND OPERATNG SYSTEM).

72 SIGMA 6/7/9 GF AUTHOR: J. GILL. XEROX CORPORATION ABSTRACT: 890872 GRAPHIC VECTOR FILE

THE GRAPHIC VECTOR FILE REHOVES DEVICE DEPENDENCY FROM PLOTTING PROGRAM EXECUTION. CALLS TO CALCOMP SUBROUTINES ARE STORED IN THE FILE, WHICH MAY SUBSEQUENTLY BE USED ON THE MOST AVAILABLE AND/OR THE MOST APPROPRIATE PLOTTING DEVICES. COMMENTS:

THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE

890872 CONTINUED ON FOLLOHING PAGE

890872

GRAPHIC VECTOR FILE

(CONTINUED)

MAIN PROGRAM IS MRITTEN IN FORTRAN.
THE VECTOR FILE CAN BE SAVED, EDITED, AND REUSED ON DIFFERENT DEVICES BY RUNNING DIFFERENT CONVERSION PROGRAMS.

890873

3 SIGMA 5-9 SIME AUTHOR:D. PETERS, XEROX CORPORATION ABSTRACT:

PRINCE : NHICH IS THE 519 SIMULATOR, PROVIDES SIGNA USERS HITH CARD TO CARD FUNCTIONS SIMILAR TO THOSE OF AN IBM 519 REPRODUCING PUNCH, I.E., 80-80 REPRODUCE, OFF-SET REPRODUCE, GANG-PUNCH EMIT, AND SETTING OR CLEARING ZONE PUNCHES.

COMMENTS:

THIS PROGRAM HILL RUN UNDER BPM AND UTS OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN COBOL.

6 SIGMA 5 METASYMBOL SOURCE PROGRAM COMPARER Author:A. Gromma, Stanford Linear accelerator center 890876

ARSTRACT:

STRACT:
THIS PROGRAM HILL COMPARE THO METASYMBOL (OR FORTRAN) SOURCE FILES (PRESUMABLY THO VERSIONS OF THE SAME
PROGRAM), AND HILL OUTPUT AN UPDATE DECK (IN METASYMBOL UPDATE FORMAT) SUFFICIENT TO TRANSFORM THE FIRST
SOURCE FILE INTO THE SECOND. THE LISTING OF THIS UPDATE DECK CAN OPTIONALLLY INCLUDE LINES IDELETED!
FROM THE FIRST SOURCE FILE. THE SOURCE FILES CAN BE EITHER EBCDIC OR COMPRESSED, AND CAN BE EITHER BLOCKED OR UNBLOCKED.
THE PROGRAM IS INTENDED TO BE HELPFUL IN MAINTAINING SUCCESSIVE RELEASES OF MANUFACTURER-SUPPLIED SOFTHARE THAT HAS BEEN HEAVILY MODIFIED BY THE USER.

THIS PROGRAM HILL RUN UNDER BPM/BTM OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL. THE PROGRAM OCCUPIES 4 PAGES, AND USES M:GP TO GET ALL AVAILABLE PAGES FOR HORKSPACE. THE PROGRAM DOES NOT USE BYTE STRING INSTRUCTIONS. CODE HAS BEEN ADDED TO THE CURRENT VERSION (800) TO PRODUCE THE ISEST POSSIBLE! (I.E., MINIMAL) OUTPUT.

890877

7 SIGMA 5-9 BROHSE - INTERACTIVE INDEXED TEXT SYSTEM AUTHOR:R. SAUVAIN, XEROX CORPORATION

ABSTRACT:

BROWSE IS AN INFORMATION STORAGE AND RETRIEVAL SYSTEM FOR PERSONAL OR SMALL GROUP WORK WITH KEYMORD INDEXED TEXT ITEMS. ITEMS ARE FREE-FORMAT, AND MAY HAVE ANY NUMBER OF KEYMORDS ATTACHED. RETRIEVAL 18 BY KEYMORD OR ITEM NUMBER. THE SYSTEM IS DESIGNED FOR EASY INTERACTIVE USE FROM A TERMINAL; FOR SKING ABLE TO SCAN QUICKLY THROUGH RELATED MATERIAL. AN ALPHABETICAL DISPLAY OF CURRENT KEYMORDS IS PROVIDED TO AID IN INDEXING AND RETRIEVAL.

UMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS APPLICATION-ORIENTED PROGRAM. BASE
LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL. OPERATES UNDER UTS MINIMUM CONFIGURATION; MAY BE USED
ON-LINE OR IN BATCH. USES KEYED FILES. DATA BASE IS LIMITED TO 9999 ITEMS; KEYMORDS MAY BE FROM 1 TO
19 CHARACTERS IN LENGTH.

890878

TRISTIMULUS TO MUNSELL COLOR TRANSLATOR

8 SIGMA 5-9 TR AUTHOR:L. MARKS, XEROX CORPORATION

ABSTRACT:
THE TABLES DEFINING THE TRANSFORMATION FROM C.I.E. CHROMATICITY COORDINATES TO MUNSELL HUE AND CHROMA
ARE SUMMARIZED BY POLYNOMIAL FITTING TECHNIQUES. THE POLYNOMIAL FORM GIVES AN EFFICIENT PROCEDURE FOR A
THO-MAY TRANSFORM. THE SMOOTHNESS OF THE POLYNOMIAL APPROXIMATIONS ALLOWS THE JACOBIAN OF THE IFORMARDI
TRANSFORM (C.I.E. TO MUNSELL) TO BE ESTIMATED.

THIS PROGRAMM HILL RUN UNDER BPM/BTM/UTS OPERATING SYTEMS. PROGRAM TYPE IS SCIENTIFIC SUBROUTINE. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN FORTRAN.

890881

DEMAND PAGED FORTRAN ARRAYS 516MA 5-9

AUTHOR: V. HUBER, XEROX CORPORATION

ABSTRACT: PROVIDES A RELATIVELY SIMPLE METHOD FOR FORTRAN PROGRAMMERS TO HANDLE ARRAYS THAT DO NOT FIT IN UTS VIRTUAL CORE. A DEMAND PAGING SCHEME ATTEMPTS TO MAINTAIN IN CORE THOSE PAGES THAT ARE USED MOST FREQUENTLY WHILE LESS FREQUENTLY USED PAGES ARE MAINTAINED IN A DISC FILE. COMMENTS:

INTICATION THE PROGRAM HILL RUN UNDER BPM/BTM/UTS OPERATING SYSTEM. PROGRAM TYPE IS LIBRARY ROUTINES. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

990890

00 SIGMA 5-9 UCLA BIOMEDICAL PROG.-REGULAR & X SERIES
AUTHOR:D. PALMER, VANDERBILT UNIVERSITY
AUSTRACT.

ABSTRACT:

SSTRACT:
THE UCLA BMD BIOMEDICAL SERIES CONSISTS OF OVER 50 STATISTICAL ANALYSIS PROGRAMS. THESE ROUTINES ARE AS
DESCRIBED IN THE UCLA BMD MANUAL, 3RD EDITION (DATED JANUARY 1, 1973). AS PUBLISHED BY THE UNIVERSITY OF
CALIFORNIA PRESS. AN EFFORT HAS MADE TO RETAIN ALL OF THE FEATURES OF THE UCLA PROGRAMS. AS A RESULT.
SOME METASYMBOL ROUTINES HERE HRITTEN TO MANDLE CHARACTER (BYTE) MANIPULATION, AND THE FORTRAN LIBRARY
ROUTINE SIEDIT HAS MODIFIED SO AS TO DISTINGUISH ZEROS FROM BLANKS ON INPUT.

MMENTS:
THIS PROGRAM HILL RUN UNDER BPM/CP-V/UTS OPERATING SYSTEMS. PROGRAM TYPE IS STATISTICAL ANALYSIS
PROGRAMS. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN FORTRAN.
THIS VERSION REPLACES THE BMD REGULAR AND X-SERIES PROGRAMS AS DESCRIBED IN THE 2ND EDITION OF THE BMD
MANUAL AND THE BMDX MANUAL. THESE PROGRAMS HILL RUN UNDER BPM, UTS, AND CP-V OPERATING SYSTEMS.

PAGE 50 - 01/31/75

94 SIGMA 5-9 Author:G. Jung, Rank Xerox 890894 APEXTCLP

ABSTRACT:

ISTRACT:
APEXTCLP USES AP CONCORDANCE LISTINGS (GENERATED BY THE AP DC OPTION) OF MULTI-MODULE PROGRAMS AS INPUT
AND GENERATES A GLOBAL CONCORDANCE LIST OF ALL EXTERNAL LINKAGES AS INDICATED BY THE DIRECTIVES DEF,
REF, SREF OR DSECT. EVEN THOUGH APEXTCLP ACCEPTS ONLY CONCORDANCE LISTINGS GENERATED BY AP, IT MAY BE
USED TO PRODUCE GLOBAL CONCORDANCE LISTINGS OF MULTI-MODULE PROGRAMS CONSISTING OF ASSEMBLY PROGRAMS, OF
FORTRAN PROGRAMS, OR BOTH. IN CASE OF FORTRAN PROGRAM MODULES THE PROGRAM LOINTOSI RECONSTRUCTS AN AP PROGRAM FROM THE FORTRAN LO LISTING.

COMMENTS: UNITERIS: THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS SERVICE ROUTINE. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN XEROX AP.

APEXTCLP IS AN EXTREMELY USEFUL DEBUGGING TOOL FOR LARGE MULTI-MODULE PROGRAMS WITH MANY EXTERNAL LINKAGES.

AUTOMATED PROCUREMENT STATUS (APS) SYS. 890895 SIGMA 6/7/9 AUTHOR: J. MYCKLEBY ABSTRACT:

THE AUTOMATED PROCUREMENT STATUS (APS) SYSTEM IS A COLLECTION OF PROGRAMS THAT PROVIDE PRINTED PURCHASE ORDERS, CHANGE NOTICES, COMPLETE HISTORICAL DATA, VENDOR AND BUYERS PERFORMANCE RECORDS, AUTOMATED EXPEDITING, AND ON-LINE RECEIVING OF MATERIAL. COMMENTS:

THIS PROGRAM HILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS COMMERCIAL APPLICATION PROGRAM.
BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN COBOL.
OPERATES UNDER CP-V AND IS CURRENTLY BEING CONVERTED TO RUN HITH EDMS FILES. ADDITIONAL DOCUMENTATION
IS AVAILABLE IN THE FORM OF UNPUBLISHED TECHNICAL DOCUMENTATION. THIS ELEMENT, -02, CAN BE ORDERED AFTER VERIFYING THE APPLICABILITY OF THIS SYSTEM.

0 SIGMA 8-9/550/560 XEROX TO CONTROL DATA RJE (XCDRJE) AUTHOR:L. HINCKLER, XEROX CORPORATION 890910

ABSTRACT: JSINALI:
XCDRJE GIVES ANY XEROX COMPUTER RUNNING CP-V/ADI THE ABILITY TO FUNCTION AS A REMOTE JOB ENTRY STATION
TO CONTROL DATA COMPUTERS. XCDRJE CONSISTS OF THREE MODULES: CDCSEND - TAKES A USER SPECIFIED INPUT
FILE AND CONVERTS IT TO EXTRED AND BLOCKS THE DATA TO BE SENT TO CDC; CDCCOM - PERFORMS THE ACTUAL
COMMUNICATIONS LINK BETHEEN THE COMPUTERS, SENDS JOBS AND RECEIVES THE OUTPUT FROM THE JOBS THAT ARE
EXECUTED AT CDC; CDCRECV - RETRIEVES THE INFORMATION RETURNED FROM CDC, DECOMPRESSES AND CONVERTS IT TO
BE DIRECTED TO WHERE THE USER SPECIFIES.

COMMENTS:
THIS PROGRAM HILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS COMMUNICATIONS PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

XCDRJE OPERATES UNDER CP-V/ADI CONCURRENT HITH ALL OTHER FUNCTIONS (BATCH, TIME-SHARING, ETC.). A HALF-DUPLEX XEROX/7601 DATA SET CONTROLLER IS USED FOR COMMUNICATION.

SIGMA 6/7/9
AUTHOR:D. GERMAN, DIECOMP, INC.

ABSTRACT: THIS PROGRAM, RUNNING AS A GHOST IN BATCH OR ONLINE, LISTS LABELS ON LABEL TAPE (INCLUDING FSAVE TAPES)
TO M:LL DEVICE HHICH CAN BE ASSIGNED TO A FILE. FILE ORGANIZATION, TAPE RECORDS, AND BYTE SIZE ARE
LISTED. OPTIONALLY, READ-HRITE ACCOUNTS AND/OR PASSHORDS CAN BE LISTED. FRAN OPENS TAPE AS DEVICE 9T.

COMMENTS. INTERIES THIS PROGRAM HILL RUN UNDER UTS-DOO OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

SIGNA 5-9 XPL/S COMPILER
AUTHOR:G. LEACH, UNIVERSITY OF WASHINGTON/ C.CODLING, XEROX CORPORATION 890923

AUTHOR:G. LEACH, UNIVERSITY OF WASHINGTON/ C.CODLING, XEROX CORPORATION
ABSTRACT:

XPL/S IS A SYSTEMS IMPLEMENTATION LANGUAGE FOR THE SIGMA 5-9 SERIES. THE CLASS OF SYSTEMS WHOSE
IMPLEMENTATION MAY BE EXPEDITED THROUGH THE USE OF XPL/S INCLUDES TABLE-DRIVEN COMPILERS, INTERPRETERS,
TEXT PROCESSORS, AND FILE MANIPULATION SYSTEMS. FEATURES OF THE LANGUAGE INCLUDE DATA TYPES THAT MAKE
USE OF THE SIGMA BYTE, HALFHORD, AND STACK ADDRESSING HARDHARE, DIRECT ACCESS TO SHIFT INSTRUCTIONS, A
GOOD VARIETY OF CONTROL STRUCTURES, INCLUDING CASE, ITERATION, CONDITIONAL, LOOP AND EXIT. EXTERNAL
PROCEDURES AND DATA MAY BE DEFINDED. CHARACTER STRING DATA TYPE AND STRING MANIPULATION FACILITIES ARE
PROVIDED.

PROVIDED.
COMMENTS:
THIS PROGRAM HILL RUN UNDER BPM/BTM, RBM, AND CP-V OPERATING SYSTEMS. PROGRAM TYPE IS COMPILER. BASE
LANGUAGE MAIN PROGRAM IS WRITTEN IN XPL/S.
XPL/S IS RELATED TO XPL, AND IS A DIALECT OF PL/1. THE COMPILER IS, OF COURSE, SELF-COMPILING.
RE-ENTRANT CODE HITH APPROPRIATE ACCESS TYPE IS PRODUCED. A RUNTIME LIBRARY IS REQUIRED AND IS SUPPLIED
IN RBM AND CP-V/BPM/BTM VERSIONS. THE XPL/S COMPILER AND ALL PROGRAMS WRITTEN IN XPL/S MAY BE RUN AS
SHARED PROCESSORS UNDER CP-V. THE RUN SUBSYSTEM MUST BE USED WITH BTM.

8 SIGMA 6/7/9 BATCXCH - BATCH QUEUE EXCHANGER AUTHOR:C. CODLING, XEROX CORPORATION 890928

ABSTRACT: CURRENTLY UTS/CP-V ALLOWS COMPUTE-BOUND USERS TO BE SCHEDULED AS A SINGLE QUEUE OR HITH ON-LINE USERS HIGHER IN PRIORITY THAN BATCH USERS. BATQXCH ALLOWS THE SCHEDULING QUEUES TO BE ALTERED SO THAT BATCH COMPUTE-BOUND USERS MAY BE HIGHER IN PRIORITY THAN ON-LINE. IT ALSO ALLOWS THE QUEUES TO BE SET TO ANY SETTING AND TO BE DISPLAYED. COMMENTS:

890928 CONTINUED ON FOLLOWING PAGE

BATQXCH - BATCH QUEUE EXCHANGER (CONTINUED)
THIS PROGRAM HILL RUN UNDER CP-V AND UTS OPERATING SYSTEMS. PROGRAM TYPE IS SERVICE ROUTINE. BASE
LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.
BATQXCH OPERATES EITHER ON-LINE OR AS A GHOST JOB. 890928

9 SIGMA 6/7/9 APL LEARNING AID - CLASS, APL COURSE AUTHOR:H. SCHLAIFER, XEROX CORPORATION 890929

ABSTRACT:
THESE APL HORKSPACES ARE USED IN CONJUNCTION HITH THE APL VIDEOTAPE COURSE BY ALLEN ROSE AND THE PRINTED VERSION OF THE VIDEOTAPE COURSE ENTITLED APL/360 AN INTERACTIVE APPROACH BY LEONARD GILMAN AND ALLEN ROSE.

THIS PROGRAM HILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS APPLICATION PROGRAM. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN APL.
THESE HORKSPACES HERE OBTAINED FROM XEROX ROCHESTER AND HAVE BEEN CONVERTED TO RUN USING XEROX APL. THE
USER SHOULD USE A 2741-COMPATIBLE TERMINAL HITH AN APL TYPE BALL.

SIGMA 6/7/9 GRAN AUTHOR:D. GERMAN, DIECOMP CORPORATION 890930

THIS PROGRAM, OPERATING ONLINE OR AS A GHOST, GIVES THE SYSTEM MANAGER DIRECT ACCESS TO ANY DISC GRANULE. GRAN REQUIRES CO PRIVILEGE SINCE IT GOES INTO MASTER MODE ONLY TO CHECK A GIVEN DISC ADDRESS, USING CHECKDA, AND TO QUEUE DISC 1/0.

THIS PROGRAM HILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

SIGMA 5-9 MSP AUTHOR: G. LEACH, UNIVERSITY OF HASHINGTON 890933

ABSTRACT:
THIS IS THE PROGRAM DESCRIBED BY MCKEEMAN, HORNING, AND HORTMAN IN THEIR BOOK, A COMPILER GENERATOR, PRENTICE-HALL, 1970. THE PROGRAM BUILDS TABLES FOR A PARSER THAT OPERATES BY THE HIXED STRATEGY PRECEDENCE ALGORITHM.

THIS PROGRAM IS A USEFUL TOOL IN THE CONSTRUCTION OF TABLE DRIVEN COMPILERS. IT IS NOT REQUIRED IN CONJUNCTION WITH THE XPL/S COMPILER UNLESS CHANGES IN THE GRAMMAR ARE CONTEMPLATED.

SH SIGMA 5-9 XPLSREF AUTHORIG. LEACH, UNIVERSITY OF HASHINGTON 890934

ABSTRACT:

CROSS REFERENCE OF IDENTIFIERS IN AN XPL/S SOURCE PROGRAM.

COMMENTS: JUNEAU 3: This program Hill run under BPM, RBM, and CP-V operating system. Program type is utility. Base Language main program is written in XPL/S.

SIGMA 5-9 220025 AUTHOR: G. LEACH, UNIVERSITY OF HASHINGTON

THIS PROGRAM REFORMATS XPL/S SOURCE PROGRAM TEXT, INDENTING TO EXHIBIT PROGRAM STRUCTURE. IT IS A USEFUL TOOL IN THE DEVELOPMENT AND MAINTENANCE OF XPL/S SOURCE PROGRAM.

THIS PROGRAM HILL RUN BPM, RBM, AND CP-V OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN XPL/S.

SIGMA 5-9 890936 AUTHORIG. LEACH, UNIVERSITY OF HASHINGTON

ABSTRACT: THIS PROGRAM PROVIDES A NUMBER OF USE FACILITIES FOR THE MANIPULATION OF CARD-IMAGE FILES ON BOTH TAPE

AND RAD. THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XPL/S.

SIGHA 7/8/9 AUTHOR: XEROX CORPORATION FLASH - TAPE TO PRINT UTILITY 890938

ABSTRACT:

FLASH IS A TAPE TO PRINT UTILITY WHICH BYPASSES THE SYMBIONT SYSTEM. AS HELL AS PERNITTING THE P OF LARGE REPORTS, FLASH PROVIDES THE USER WITH OPTIMUM LINE PRINTER THROUGHPUT, MINIMAL RESOURCE REQUIREMENTS, AND AN EASY OPERATOR INTERFACE. AS HELL AS PERMITTING THE PRINTING

THIS PROGRAM WILL RUN UNDER CP-V AND UTS OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE Main program is written in metasymbol. Flash requires a 5-card patch to log for pre CP-V/BOO Systems. COMMENTS:

PAGE 52 - 01/31/75

0 SIGMA 5-9 SOLE: SIGMA OBJECT LANGUAGE EATER AUTHOR: R. LOVESTEDT, UNIVERSITY OF HASHINGTON 890940

ABSTRACT:

STRACT:

SOLE (SIGMA OBJECT LANGUAGE EATER) IS A BASIC PROCESSOR FOR THE HANDLING OF SIGMA ROM'S. IN IT'S

CURRENT STATE, SOLE ONLY PROVIDES ENGLISH INTERPRETING OF THE LOAD CODE AND BASIC ERROR CHECKING;

HOHEVER, THE PROCESSOR IS STRUCTURED TO ALLOH MODIFICATIONS AND ADDITIONS TO BE EASILY MADE BY THE USER.

SUCH EXTENSIONS MIGHT INCLUDE EXTERNAL SYMBOL ITEMIZATION, ROM LOAD ITEM PATCHING, LOADERS, OR LIBRARY MAINTENANCE AND HANDLING SYSTEMS. COMMENTS:

THIS PROGRAM HILL RUN UNDER BPM, RBM AND CP-V OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN XPL/S. THIS PROCESSOR HILL RUN UNDER ANY OPERATING SYSTEM MHICH SUPPORTS XPL/S. SOLE HILL PROCESS ONE ENTIRE FILE, WHICH MAY CONSIST OF ANY NUMBER OF ROM'S. XPL/S IS CATALOG NUMBER 890923.

SIGMA 6/7/9 SFTRAN 890941

AUTHOR: A. IRVINE/B. NELSON/C. RIGGINS, JET PROPULSION LAB.

ABSTRACT:

A PREPROCESSOR TO THE FORTRAN IV COMPILER HHICH ALLOHS THE FORTRAN PROGRAMMER TO USE ALGOL 80 OR PL/1 LIKE-STRUCTURED CONSTRUCTS SUCH AS DO HHILE AND IF THEN...ELSE. THESE CONSTRUCTS ARE TRANSLATED INTO FORTRAN STATEMENTS FOR LATER PROCESSING BY THE FORTRAN COMPILER. COMMENTS:

THIS PROGRAM WILL RUN UNDER BPM OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM SFTRAN OPERATES UNDER BPM MINIMUM CONFIGURATION. IT IS CODED ENTIRELY IN FORTRAN AND IS RELATIVELY MACHINE INDEPENDENT.

890942

2 SIGMA 5-9 SYMCON (BPM/BTM)
AUTHOR:P. BECKER, MARTIN-MARIETTA CO.-D. LAMPSON, XEROX CORPORATION

ABSTRACT:

ISTRACT:
THE SYMBOL CONTROL PROCESSOR (SYMCON) PROVIDES A MEANS OF CONTROLLING THE EXTERNAL SYMBOLS IN A LOAD
MODULE. ITS PRIMARY FUNCTION IS TO GIVE THE PROGRAMMER A MEANS OF PREVENTING DOUBLE DEFINITIONS OF
EXTERNAL SYMBOLS. SYMCON (BPM/BTM) IS A CONVERSION OF CP-V SYMCON, AND HILL RUN EITHER IN THE BATCH MODE OR ON-LINE UNDER THE RUN SUBSYSTEM.

COMMENTS: THIS PROGRAM WILL RUN UNDER BPM/BTM OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. REFERENCES TO INSTRUCTIONS FOR THE USE OF SYMCON SHOULD BE TO THE CP-V BATCH REFERENCE MANUAL (901784). THE DELTA COMMANDS BUILD AND DISCARD HAVE BEEN DISABLED AND THEIR USE HILL GIVE THE ILLEGAL OPTION

SIGHA 6/7/9 TIMESHARING SIMULATOR

AUTHOR: H. KRAUSS, XEROX CORPORATION ABSTRACT:

THE TIMESHARING SIMULATOR (TSS) HILL ENABLE THE CONTROLLED SIMULATION OF TIMESHARING HITHOUT ADDITIONAL HARDHARE OR PEOPLE. ANY NUMBER OF LINES, UP TO 64 FOR CP-V A00/B00, AND ALL TYPES OF INTERACTION CAN BE SIMULATED. ALL INTERACTION MUST BE DESCRIBED IN A FILE, AND EACH LINE MUST BE DEFINED. ANY FACILITY AVAILABLE TO A TERMINAL USER CAN BE UTILIZED BY TSS. COMMENTS

THIS PROGRAM WILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS SIMULATOR. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

THE HARDHARE CONFIGURATION MUST INCLUDE A 7611. THE USER MUST SYSGEN FOR THE MAXIMUM NUMBER OF USERS THAT WILL BE SIMULATED, BUT THE ACTUAL PHYSICAL LINES DO NOT HAVE TO EXIST. THE SIMULATOR ASSUMES A STANDARD CLOCKY AND COC HANDLER. NO 2741 LINES.

890953 3 SIGMA 6-9 12 AUTHOR:A. JETER, XEROX CORPORATION 1200 LISTER

ABSTRACT:

TAPE FOR USE ON THE XEROX 1200 COMPUTER PRINTING SYSTEM.

THIS PROGRAM WILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. THE INPUT TAPE MUST BE A CP-V LABELED TAPE. THE OUTPUT TAPE WILL BE AN UNLABELED TAPE.

4 SIGMA 6-9 AUT AUTHOR: A. JETER, XEROX CORPORATION 890954 AUTO SCHEDULE

ABSTRACT:

THE AUTO SCHEDULE PROGRAM, WHEN ACTIVATED AS A GHOST, ALLOWS JOBS TO BE SCHEDULED UP TO A MONTH AHEAD. COMMENTS:

THIS PROGRAM HILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

USE :SYS, LBE AS AN AUTHORIZED ACCOUNT AT CO PRIVILEGE. TAPE ALSO CONTAINS STJOB GENERATOR PROGRAM, VALUED FILE SAVE/DELETE PROGRAM, AND SAVE TAPE ANALYZE PROGRAM.

5 SIGHA 5-9 BLOCKER AUTHOR:D. PALMER, VANDERBILT UNIVERSITY 890955 BLOCKER-FILE BLOCKING/UNBLOCKING ROUTINE

ABSTRACT: BLOCKER IS A ROUTINE THAT ENABLES DATA FILES TO BE BLOCKED OR UNBLOCKED ACCORDING TO USER

890955 CONTINUED ON FOLLOHING PAGE

BLOCKER-FILE BLOCKING/UNBLOCKING ROUTINE (CONTINUED)
SPECIFICATIONS. THIS PROGRAM IS DESIGNED TO BE USED WITH FIXED-LENGTH RECORDS IN FILES WHOSE BLOCKING
FACTOR IS (OR HILL BE) SOME INTEGRAL VALUE. 890955

COMMENTS: JUNIONIE: This program Hill run under 8PM, CP-V, and UTS Operating Systems. Program Type is utility. Base Language main program is Hritten in Metasymbol.

SCOMPARE-SOURCE FILE COMPARISON PROGRAM SIGMA 5-9 890956

AUTHOR: P. GOODHIN, XEROX CORPORATION

SCOMPARE COMPARES THO SOURCE FILES AND PRODUCES A LIST OF THEIR DIFFERENCES. SCOMPARE REALIGNS ITSELF TO HANDLE MISSING AND ADDED RECORDS AS HELL AS MODIFIED RECORDS. ABSTRACT:

DMMENTS:
THIS PROGRAM HILL RUN UNDER CP-V/UTS OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN
PROGRAM IS HRITTEN IN BASIC.
SCOMPARE IS ESPECIALLY HELPFUL HHEN TRYING TO FIND ALL THE CHANGES FROM ONE VERSION OF A FILE TO THE
NEXT. SPECIAL OPTIONS INCLUDE SELECTING SPECIFIC COLUMNS OF INTEREST, IGNORING BLANKS, AND COMPRESSING
BLANK FIELDS TO A SINGLE BLANK FOR COMPARISON.

58 SIGMA 5-9 SYSTEM RB AUTHOR:D. TERRY, UNIVERSITY OF HASHINGTON SYSTEM RBM

ABSTRACT: SYSTEM RBM IS A MACRO LIBRARY PROVIDING CALS AND FPTS FOR MOST OF THE RBM MONITOR FUNCTIONS. THE MACROS PROVIDE BOTH EASIER AND BETTER DOCUMENTATION OF THE RESULTING CODE. MACRO BODY LISTING CONTROL AND LIST AND EXECUTE FORMS ARE PROVIDED. IN ADDITION, LABELS MAY BE CODED FOR ANY OF THE MORDS IN THE

COMMENTS: THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS MACRO LIBRARY. BASE LANGUAGE MAIN

PROGRAM IS WRITTEN IN AP.

SYSTEM RBM REQUIRES AP VERSION BOD, AND IS COMPATIBLE HITM THE PARTIAL SYSTEM RBM PROVIDED FOR INTERNAL USE BY AP IF LINES 594 AND 595 ARE DELETED FROM APROOT. SYSTEM RBM IS THE MACRO LIBRARY USED BY XPL/8 (890923-400). COMPATIBILITY HITH BPM HAS ATTEMTPED. THOSE MACROS DEALING SOLELY HITH ECB RELATED FUNCTIONS OR 10EX ARE NOT INCLUDED, BUT COULD BE MODELED AFTER EXISTING MACROS IF NEEDED.

S9 SIGMA 5-9 SYSTEM XPL/\$
AUTHOR:R. LOVESTEDT, UNIVERSITY OF HASHINGTON 890959

STRACT:

SYSTEM XPL/S IS A MACRO LIBRARY THAT FACILITATES THE HRITING OF XPL/S COMPATIBLE ASSEMBLY LANGUAGE
PROGRAMS. IT IS HRITTEN FOR USE HITH EITHER BOD AP OR HO! METASYMBOL. MACROS ARE PROVIDED TO DEFINE A
PROCEDURE, RETURN FROM A PROCEDURE, CALL A PROCEDURE, DEFINE A STRING, AND TO CONCATENATE STRINGS. IN
ADDITION, A SYMBOL IS PROVIDED FOR THE STANDARD FUNCTION VALUE RETURN REGISTER. ABSTRACT:

DMMENTS:
THIS PROGRAM HILL RUN UNDER BPM, RBM, AND CP-V OPERATING SYSTEMS. PROGRAM TYPE IS MACRO LIBRARY. BASE
LANGUAGE MAIN PROGRAM IS WRITTEN IN AP AND METASYMBOL.
THE GENERAL SYSTEM IS DOCUMENTED IN THE ENCLOSED CSTL'IN 73, MONEYER, SOME DIFFERENCES EXIST FOR THE
MULTI-OPERATING SYSTEM VERSION. THE THREE SYMBOLS RBM, BPM, AND CP-V ARE DEFINED TO ALLOM THE
DETERMINATION OF OPERATING SYSTEM ENVIRONMENT. ONE SYMBOL MUST BE SET TO 1, THE OTHERS SET TO 0.
SYSTEM XPL/S REQUESTS EITHER SYSTEM RBM OR SYSTEM BPM, DEPENDING UPON THE ENVIRONMENT.

2 SIGMA 5-9 ROMLIB AUTHOR:D. TERRY, UNIVERSITY OF HASHINGTON 890962

STRACT:

ROMLIB ALLOHS ANY SEQUENTIAL DISK FILE OF OBJECT HODULES TO BE USED AS A LIBRARY, AND PROVIDES A

ROMLIB ALLOHS ANY SEQUENTIAL DISK FILE OF OBJECT HODULES TO BE USED AS A LIBRARY OF

COMPLETE SEARCH AND UPDATE CAPABILITY. IT HILL CREATE AND HAINTAIN ANY SEQUENTIAL FILE AS A LIBRARY OF

OBJECT MODULES, AND ALSO SEARCH AND EXTRACT FROM SUCH FILES THE MODULES REQUIRED TO SATISFY THE

REFERENCES ON THE GO FILE, THUS PROVIDING AN AUXILIARY LIBRARY FACILITY. ANY SEQUENTIAL DISK FILE OF

ROMS (CREATED BY ANY PROCESSOR) MAY BE USED AS A LIBRARY. GROUPS OF FILES MAY BE SEARCHED AS A UNIT

HITH ALL REFS (BOTH FORWARD AND BACKHARD) BEING SATISFIED; THE ROMS NEED NOT BE IN ANY PARTICULAR ORDER. ABSTRACT:

THIS PROGRAM HILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM THIS PROGRAM WILL RUN UNDER RBH UPERATING STREET.

IS HRITTEN IN AP AND XPL/S.

THE PROGRAM IS HRITTEN IN XPL/S (CNB90923) AND USES A SMALL AP PROGRAM FOR INTERFACE TO THE OPERATING SYSTEM. THE EFFORT TO CONVERT TO OTHER OPERATING SYSTEMS SHOULD BE MINIMAL. SYSTEM XPLS (CNB90959) AND THEREFORE SYSTEM RBM (CNB90958) ARE REQUIRED FOR THE ASSEMBLY. TABLE SIZES ARE COMPILE-TIME PARAMETERS AND MAY BE ADJUSTED IF NECESSARY.

B SIGMA 5-9/550/560 GRADPACK AUTHOR:R. MCCOLLOCH, UNIVERSITY OF HYOMING 890966

STRACT:
THE SIZE, STORAGE SPACE, AND CORE OVERHEAD REQUIREMENTS OF BASIC PROGRAMS CAN BE REDUCED ABOUT 15 TO 50
PERCENT BY USING THE MULTIPLE STATEMENT PER SOURCE LINE FORMAT (XEROX BASIC MANUAL 90:1546F, PAGE 19).
THE PROGRAM GRADPACK HILL REHRITE EXISTING BASIC PROGRAMS INTO THIS REDUCED SPACE FORMAT. THIS HILL
HEREAFTER BE REFERRED TO AS PACKING. GRADPACK HILL PACK BASIC PROGRAMS, INCLUDING ITSELF, UNPACK PACKED
BASIC PROGRAMS, AND UNPACK AND REPACK BASIC PROGRAMS. THE LATTER IS USEFUL FOR ACHIEVING OPTIMAL
PACKING OF PARTIALLY PACKED BASIC PROGRAMS. GRADPACK ASSUMES PROGRAMS ARE ON DISK STORAGE AND DISK
STORAGE IS AVAILABLE FOR REFILING THE PACKED OR UNPACKED PROGRAM VERSIONS. ABSTRACT:

THIS PROGRAM HILL RUN UNDER CP-V AND UTS OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN BASIC. COMMENTS:

PAGE 54 - 01/31/75

ST SIGMA 5-9 BLOCKED AND OVERLAPPED I/O PACKAGE AUTHOR:S. HHITE, GODDARD COMPUTER SCIENCE INSTITUTE 890987

ABSTRACT:

BOIDP IS A ROUTINE THAT PROVIDES FOR AUTOMATIC DOUBLE BUFFERING OF 1/O. THE ROUTINE ALSO PROVIDES FOR BLOCKING AND DEBLOCKING OF FIXED LENGTH RECORDS. THE ROUTINES CAN BE CALLED FROM METASYMBOL OR FORTRAN. ASSEMBLY PARAMETERS CAN BE SET TO MAKE THE ROUTINE RETURN EITHER THE STANDARD SYSTEM 1/O COMPLETION CODES OR CODES COMPATIBLE HITH BUFFERIN/BUFFEROUT.

COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTM, CP-V, AND UTS OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

891000

SIGMA 5-9 APT3 (LEVEL 3) LATHE POSTPROCESSOR
AUTHOR:R. REEVES, XEROX CORPORATION
ABSTRACT:
LATHE IS A GENERAL PURPOSE APT3 (LEVEL 3)/APT4 NUMERICAL CONTROL POSTPROCESSOR PROGRAM DESIGNED TO
GENERATE CONTROL MEDIA FOR A VARIETY OF LATHE MACHINE TOOLS AND FOR A VARIETY OF NUMERICAL MACHINE TOOL
CONTROLLERS. THE MACHINE TOOLS MAY HAVE A SINGLE SIDE TURRET, A SINGLE END TURRET, OR BOTH. THE LATHE
PROGRAM IS A THO-PASS PROCESSOR CONSISTING OF A ROOT-TYPE OVERLAY THAT DISPATCHES CONTROL TO OTHER
OVERLAYS AS THEY ARE REQUIRED TO PROCESS THE INPUT.

COMMENTS:
THIS PROGRAM HILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS SUB-PROGRAM. BASE LANGUAGE MAIN

PROGRAM IS HRITTEN IN FORTRAM.

LATHE AT PRESENT OPERATES UNDER THE APT3 (LEVEL 3) NUMERICAL CONTROL COMPILER. SOME CHANGES ARE REQUIRED TO IMPLEMENT LATHE UNDER THE APT4 COMPILER. IN GENERAL, THOSE CHANGES ARE COVERED MITHIN THE ATTACHED DOCUMENTATION.

704013 SIGMA 5-9 DATA-SET CONTROLLER DIAGNOSTIC

AUTHOR: XEROX

ABSTRACT:

BSTRACT:

PROGRAM IS ASSEMBLED HITH AND OPERATES UNDER CONTROL OF THE SIGMA 5/7 DCP. APPLICABLE MODEL NUMBERS:
7601, 7602, 7603. DIRECTIVES ARE IMPLEMENTED WHICH: (1) PERMIT EXECUTION OF 1/0 INSTRUCTIONS AND
DISPLAY OF RETURNED STATUS WITH TRANSFERENCE CAPABILITY! (2) GENERATE 4 FIXED AND 3 USER DETERMINED
PATTERNSI (3) DISPLAY READ AND HRITE BUFFER AREASI (4) PERMIT DEC LARATION AND VERIFICATION OF END OF
TEXT AND SYNCHRONIZATION CHARACTERS AND THE TELEPHONE NUMBER FOR A DIAL ORDER! (5) COMPARE READ WITH
HRITTEN DATA! AND (6) MARK THE LOCATION IN A CONTROL LINE WITH 1-4 CHARACTER HORDS. SID DIRECTIVE IS
INTERPRETED FOR NORMAL DSC APPLICATIONS, BUT MAY BE OVERRIDDEN! WITH APPROPRIATE DIRECTIVES IN A CONTROL
LINE, ALL OPERATING CONDITIONS MAY BE SIMULATED, INCLUDING CAPABILITY TO ECHO AN EXTERNAL MESSAGE ON
HALF-DUPLEX (ONLY) BASIS.

JUNEAUS: REQUIRED CONFIGURATION: SIGMA 5/7 HITH 8K OF MEMORY, CONSOLE TYPEHRITER, PAPER TAPE OR CARD READER FOR LOADING PROGRAM, AND COUNTER 4 REAL TIME CLOCK (2 MILLISECOND). FOR TURN-AROUND TESTING AN XDS MODEL J120 COMMUNICATIONS DIAGNOSTIC UNIT (OR EQUIVALENT) AND ONE DATA SET CONTROLLER HITH MODEL 7502 FULL DUPLEX OPTION, OR THO STANDARD (HALF-DUPLEX) DSC'S, ARE REQUIRED.

704016

SIGMA 5-9

CHARACTER ORIENTED COMMUNICATION TEST

AUTHOR: XEROX

ABSTRACT:

ISTRACT:
TO PROVIDE THE USER HITH A PROGRAM FOR TESTING CHARACTER ORIENTED COMMUNICATION EQUIPMENT. THE PROGRAM
HILL HANDLE ONE COMMUNICATION CONTROLLER AND UP TO 64 CHANNELS UNDER INTERRUPT CONTROL FOR TURNING THE
CORNER AT THE CONTROLLER END. CAPABILITY FOR DRIVING DEVICES THROUGH THIS PROGRAM HILL BE PROVIDED
ALSO. THE PROGRAM HILL OPERATE IN CONJUNCTION HITH THE (DCP) DIAGNOSTIC CONTROL PROGRAM FOR ERROR DISPLAY
AND INPUT PARAMETERS VIA TYPEHRITER KEYBOARD. COMMENTS:

CONFIGURATION REQUIRED:SIGMA 5/7, 8K MEMORY, KSR. 10P INPUT:PAPER TAPE OR CARDS. OUTPUT:KEYBOARD OR LINE PRINTER CHARACTER ORIENTED COMMUNICATION EQUIPMENT TEST FIXTURES OR DEVICES.

704050

SIGMA 5-9

GRAPH PLOTTER TEST

AUTHOR: XEROX

ARSTRACT

PROVIDE A COMPREHENSIVE TEST PROGRAM TO TEST OPERATIONAL CAPABILITY OF CALCOMP PLOTTER.

704069

510MA 5-9

PAPER TAPE READER/PUNCH TEST

AUTHOR: XEROX

ABSTRACT:

DIAGNOSTIC PROGRAM FOR PAPER TAPE READER/PUNCH DEVICES 8 LEVEL MODELS 7020 AND 7080. PROGRAM 18
ASSEMBLED HITH AND OPERATES UNDER THE EXECUTIVE CONTROL OF DIAGNOSTIC CONTROL PROGRAM (DCP) NO. 704878.
SELF LOADING PAPER TAPE/CARDS CONTAIN RELOCATABLE DIAGNOSTIC PROGRAM LOADER NO 704358.
COMMENTS:

REQUIRED HARDHARE CONFIGURATION: SIGMA 5 OR SIGMA 7 HITH 4K MEMORY (MINIMUM) KEYBOARD/PRINTER DEVICE, HODEL 7010 (KSR) PLUSO PAPER TAPE READER/PUNCH, MODEL 7060 ORO KEYBOARD/PRINTER-PAPER TAPE DEVICE, MODEL 7020 (ASR)

704074

51GMA 5-9

AUTO DIAL DIAGNOSTIC PROGRAM

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM IS ASSEMBLED HITH AND OPERATES UNDER CONTROL OF THE SIGMA 5/7 DCP AND PROVIDES A MEANS OF TESTING AND EXERCISING XDS MODEL 7618 AUTOMATIC DIALING EQUIPMENT AND OPTIONAL MODEL 7619 ADDITIONAL DIALING POSITION(S). DIRECTIVES ARE IMPLEMENTED HMICH PERMIT: (1) DEFINING THE TESTING ENVIRONMENT: (2) EXECUTING 1/0 INSTRUCTIONS HITH TRANSFERENCE CAPABILITY AND DISPLAYING RETURNED STATUS; (3) EXECUTING THE VARIOUS FUNCTIONS RELATED TO THE CHARACTER ORIENTED COMMUNICATIONS EQUIPMENT; AND (4) DIALING AND REPORTING THE TIMES OF STATUS CHANGES OF THE AUTOMATIC DIALING EQUIPMENT AND OPTIONALLY ASSOCIATED DIALED LINES.

COMMENTS .

REQUIRED CONFIGURATION: SIGMA 5/7 HITH 4K OF MEMORY; KEYBOARD PRINTER; PAPER TAPE OR CARD READER FOR LOADING THE PROGRAM; AND COUNTER 4 REAL TIME CLOCK (2 MSEC). ALSO, ONE OR MORE OF THE FOLLOHING IS REQUIRED: JT20 COMMUNICATIONS DIAGNOSTIC UNIT; JT14 PERIPHERAL EQUIPMENT TESTER (PET); OR BELL SERIES 801 AUTOMATIC CALLING UNIT, OR EQUIPALENT, CONNECTED TO THE AUTOMATIC DIALING EQUIPMENT.

704211

7930/7931/7935 SIU DIAGNOSTIC PROGRAM

1 SIGMA 5/7 7930/79 AUTHOR: XDS, HESTERN TECHNOLOGY CENTER

PSIMACT:
THIS DIAGNOSTIC CHECKS THE OPERATION OF THE 7930/7931/7935 SYSTEM INTERFACE UNITS AND THEIR
ASSOCIATED INPUT/OUTPUT MODULES. THE 7928 AND 7929 SYSTEM INTERFACE UNITS MAY ALSO BE EXERCISED BY THIS
DIAGNOSTIC. THIS DIAGNOSTIC, AS SUPPLIED IN ABSOLUTE FORM, INCLUDES THE DIAGNOSTIC PROGRAM MONITOR
HARCHARE CONFIGURATION, 8K OF CORE, KEYBOARD/PRINTER, A PAPER TAPE READER OR CARD READER, AND VALID
(DPH) AND DIAGNOSTIC PROGRAM LOADER (DPL).

MARCHARE CONFIGURATION, 8K OF CORE, KEYBOARD/PRINTER, A PAPER TAPE READER OR CARD READER, AND VALID COMBINATION OF 7928'S, 7929'S, 7930'S, 7931'S, AND 7935'S. THE APPROPRIATE ASSOCIATED 1/0 HODULES AND 2146 TEST CABLES (FOR CLOSED LOOP TESTS). A LINE PRINTER IS OPTIONAL.

SIGMA 5/7 704214

7922 SIU DIAGNOSTIC PROGRAM

AUTHOR: XEROX ABSTRACT:

STRACT:
THE PROGRAM PROVIDES DEMONSTRATION AND DIAGNOSTIC CAPABILITIES FOR THE 7922 SYSTEM INTERFACE UNIT AND
ITS ASSOCIATED 10 MODULES AND EQUIPMENT. THESE INCLUDE 7950 AND 7954 STORED OUTPUT MODULES, 7952 AND
7953 PULSED OUTPUT MODULES, AD30-12 AND AD35SH AN ALOG-TO-DIGITAL CONVERTER, DA35-9, DA35-15 AND DA36-15
XDS D/A CHANNEL CONTROLLERS AND THE MU55 MULTIPLEXER AND RELATED EXTENSIONS.

COMMENTS:
REQUIRES 8K, TYPEHRITER, CARD READER AND THE EQUIPMENT LISTED ABOVE. THE PROGRAM IS SELF-LOADING THE 7922 MAY BE CONNECTED TO THE DIO OR TO A 7929 10P-DIO ADAPTER.

SIGMA 5/7 704236

7910/14/15 SIU DIAGNOSTIC PROGRAM

AUTHOR: XEROX ABSTRACT:

THE PROGRAM PROVIDES DEMONSTRATION AND DIAGNOSTIC CAPABILITIES FOR THE 7910/7914 SYSTEM INTERFACE UNITS AND 1TS ASSOCIATED I/O MODULES AND EQUIPMENT. THESE INCLUDE AD30-12 AND AD35SH ANALOG -TO-DIGITAL CONVERTER, DA35-9, DA35-15 AND DA36-15 XDS D/A CHANNEL CONTROLLERS, AND THE MU55 MULTIPLEXER AND RELATED EXTENSIONS. COMMENTS:

REQUIRES BK, TYPEHRITER, CARD READER AND THE EQUIPMENT LISTED ABOVE. THE PROGRAM IS LOADED WITH THE XDS Sigma Stand-Alone Loader for System Sigma 5/7

704314

PERIPHERAL SHITCHING EQUIP. DIAGNOSTIC

AUTHOR: XEROX

SIGMA 5-9

STRACT:
THE DIAGNOSTIC PROGRAM FOR THE PERIPHERAL SHITCHING EQUIPMENT (PSE), MODEL 7710, 7720, 7722 IS ASSEMBLED HITH AND OPERATES UNDER THE CONTROL OF THE SIGMA 5/7 DIAGNOSTIC CONTROL PROGRAM (DCP). IT PROVIDES FOR PORT SELECTION, PORT STATUS SENSING AND HIGH SPEED EXERCISING OF PORT SHITCHING LOGIC. IT ALSO PROVIDES AUTOMATIC DIRECTIVES FOR THE VERIFICATION AND TEST OF PORT SHITCHING LOGIC, THE HRITE DIRECT DATA/ADDRESS LINES AND THE 8 BIT DATA PATH INTERFACE LINES. INCORPORATED INTO THESE AUTOMATIC DIRECTIVES ARE ERROR REPORTING, LOOP ON ERROR AND PLACE MARK BRANCHING ON ERROR. ABSTRACT:

COMMENTS: PMMENTS:

REQUIRED CONFIGURATION. A SIGMA 5 OR 7 COMPUTER HITH 4K OF MEMORY, A KEYBOARD/PRINTER, A XDS JX50

TESTER AND A CARD OR PAPER TAPE READER. A MODEL 7710 DIO BUS SHARING ADAPTER OR A MODEL 7720

MULTI-CONTROLLER PERIPHERAL SHITCH OR A MODEL 7722 4-BYTE EXTENDER IS REQUIRED. A LINE PRINTER FOR ERROR
REPORTING IS OPTIONAL.

704983

REMOTE BATCH TERMINAL TEST PROGRAM SIGMA 5-9

AUTHOR: XEROX ABSTRACT:

BSTRACT:

EXERCISES THE MODEL 7670 REMOTE BATCH TERMINAL CONNECTED THROUGH A COMMUNICATIONS LINK AND A MODEL 7801

DATA SET CONTROLLER TO A SIGMA 5/7 COMPUTER. OPERATES UNDER CONTROL OF THE SIGMA 5/7 DIAGNOSTIC CONTROL

PROGRAM. DIRECTIVES ARE PROVIDED FOR: (1) TRANSMISSION OF CONTROL CHARACTERS 'ACK', 'NAK', 'DC',

'BEL', 'EOT', 'VT', AND 'FF'; (2) PRINTING A STANDARD PATTERN; (3) PUNCKING A STANDARD PATTERN; (4)

ASSIGNING A SHORT OR FULL BLOCK, EBCDIC OR ASCII, PATTERN PLUS 4 MESSACES; (5) TRANSMISSION OF UP TO

FOUR MESSAGES PLUS SELECTED PATTERN; (8) RIPPLE PRINTING STANDARD OR FELECTED PATTERN; (7) RIPPLE

PUNCHING STANDARD OR SELECTED PATTERN; (8) READING TEST (STD) DECK AND COMPARING AGAINST STANDARD

PATTERN; (9) READING IN AND PRINTING AND/OR PUNCHING OUT SHORT AND FULL BLOCK LENGTH DATA; AND (10)

EXERCISE OF UNATTENDED OPERATION CAPABILITY.

DMMENTS:
REQUIRED EQUIPMENT: SIGMA 5/7 COMPUTER HITH 8K MEMORY; KEYBOARD PRINTER; INPUT DEVICE FOR PROGRAM
LOADING; XDS MODEL 7601 DATA SET CONTROLLER HITH SYNCHRONOUS FOPMAT; BELL 201 SERIES SYNCHRONOUS DATA
SETS OR EQUIVALENT; XDS MODEL 7670 REMOTE BATCH TERMINAL. OPTIONAL EQUIPMENT: LINE PRINTER FOR ERROR
REPORTING; CARD READER FOR DIRECTIVE INPUT; MODEL 7602 FULL DUPLEX OPTION; MODEL 7603 AUTOMATIC DIALING
OPTION; MODEL 7671 UNATTENDED ANSHER OPTION; MODEL 7602 TRANSAIT/RECEIVE MONITOR OPTION; MODEL 7673
OFF-LINE LISTING OPTION; MODEL 7674 TELEPHONE ALERT OPTION.

CHANNEL INTERFACE UNIT TEST/ DIAGNOSTIC

9 SIGMA 5-9 AUTHOR:XEROX CORPORATION

STRACT:
THE DIAGNOSTIC PROGRAM FOR THE CHANNEL INTERFACE UNIT (CIU), MODEL 7850 IS ASSEMBLED WITH AND OPERATES UNDER THE CONTROL OF THE SIGMA 5/7 DIAGNOSTIC CONTROL #ROGRAM (DCP). THE CIU DIAGNOSTIC PROGRAM ALLOMS THE USER TO: ISSUE INDIVIDUAL 1/0 INSTRUCTIONS, TRANSFER A SPECIFIC NUMBER OF DATA BYTES, DISPLAY A RECEIVED BYTE PATTERN, TEST AUTOMATICALLY A CIU OR #/IR OF CIU'S ON A SINGLE SIGMA SYSTEM AND TEST AUTOMATICALLY THE TRANSFER OF STATUS AND DATA BETHERN CIU CONNECTED SIGMA SYSTEMS. INDIVIDUAL 1/0 ISSUING DIRECTIVES HILL, UPON COMPLETION, REPORT DEVICE STATUS AND TEN TAKE A PLACEMARK BRANCH IF ANY BIT COMPARES HITH A BIT IN A COMPARE STATUS BYTE #/RAMETER. AUTOMATIC DIRECTIVES HILL HALT EXECUTION, UPON DETECTION OF AN ERROR, THE ERPOR HILL BE REFORTED AND A PLACEMARK BRANCH HILL BE TAKEN.

COMMENTS: CONFIGURATION: AT LEAST ONE STOMA COMPUTER HITM MK OF MEMORY AND A COUNTER M REAL TIME CLOCK (2 MILLISECONDS), A CARD READER OR B LEVEL PARCH TAPE READER, A KEYBOARD/PRINTER AND ONE OR MORE MODEL 7850 CHANNEL INTERFACE UNITS APE REQUIRED. A LANE PRINTER FOR ERROR REPORTING IS OPTIONAL.

705303

DIRECT TO MEMORY SYSTEM DIAGNOSTIC

SIGHA 5/7 AUTHOR: XEROX

ABSTRACT:

THE SIGMA 5/7 FIRECT TO MEMORY SYSTEM DIAGNOSTIC PROGRAM INTERFACES WITH THE SIGMA 5/7 DCP. IT PROVIDES TESTS FOR PIL UMS MODES OF OPERATION AND PROVIDES A STATISTICAL ANALYSIS ON INPUT FROM OPEN AND CLOSED LOOP. TESTS.

COMMENTS:

REQUIR & EQUIPMENT: SIGMA 5/7 HITH MINIMUM OF 8K OF CORE KEYBOARD PRINTER CARD READER OR PAPER TAPE

READE: JMS10 CLOSED LOOP CABLE FOR CLOSED LOOP TESTS ON SIGMA 5, MODEL 8270 EXTERNAL INTERFACE FEATURE

PAGE 2 - 01/31/75

REPRINT 75 CZ

705387 SIGNA 5/7 7580 GRAPHIC DISPLAY DIAGNOSTIC

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM SERVES AS A DIAGNOSTIC AND DEMONSTRATION TOOL FOR THE 7580 GRAPHIC DISPLAY SUB-SYSTEM. THE PROGRAM NOW WORKS ON 7580'S WITH A TOP ASSEMBLY DRAWING NUMBER OF 162329 REVISION L AND M AS WELL AS 7580'S BELOW THAT REVISION LEVEL. COMMENTS

REQUIRED HARDHARE: 8K OF MEMORY, 2 EXTERNAL INTERRUPTS. KEYBOARD/PRINTER AND CARD OR PAPER TAPE READER.

705392 SIGMA 5/7

7923/28/29 SIU DIAGNOSTIC PROGRAM

AUTHOR: XEROX ABSTRACT:

THE SIGMA 5/7 7923/29 SYSTEM INTERFACE UNITS DIAGNOSTIC PROVIDES DEMONSTRATION AND DIAGNOSTIC CAPABILITIES FOR THE S.I.U.'S AND THEIR ASSOCIATED I/O MODULES AND EQUIPMENT

705534

SIGNA 5-9 AUTHOR: XEROX CORPORATION REMOVABLE DISC STORAGE TEST

ABSTRACT:

THIS PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURES TO THE SMALLEST POSSIBLE LOGIC SEGMENT IN THE REMOVABLE DISC STORAGE CONTROLLER (MODEL 7240), DUAL SPINDLE DISC DRIVE (MODEL 7242) AND DUAL CHANNEL OPTION (MODEL 7241). THE RANDOM EXERCISER AND SOME UTILITY TEST FUNCTIONS (SURFACE TEST, HEADER WRITE/READ, COMPATIBILITY TEST) ARE INCLUDED IN THE TEST PROGRAM. THE TEST PROGRAM IS INTERFACED TO THE DIAGNOSTIC PROGRAM MONITOR. COMMENTS:

SIGMA 5/9 CPU HITH 12K OF MEMORY; PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE, MAGNETIC TAPE; MESSAGE OUTPUT DEVICE: KSR, LINE PRINTER; REMOVABLE DISC STORAGE CONTROLLER AND DRIVE UNIT.

705542

SIGMA 5-9

9 CHANNEL MAGNETIC TAPE TEST

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURES TO THE SMALLEST POSSIBLE LOGIC SEGMENT IN THE 9 CHANNEL MAGNETIC TAPE CONTROLLER (MODEL 7321/7320) AND STATION (MODEL 7322/7323). THE RANDOM EXERCISER AND SOME UTILITY TESTS ARE INCLUDED IN THE PROGRAM. THE TEST PROGRAM IS INTERFACED WITH THE DIAGNOSTIC PROGRAM MONITOR.

MINITIES. Signa 5/7 CPU Hith 12k of Memory, program input device: Card Reader, paper tape reader, magnetic tape: Message output device: ksr line printer, 9 channel magnetic tape controller and tape station.

SIGNA 5-9

KEYBOARD PRINTER TEST (ASR/KSR)

AUTHOR : XEROX

ABSTRACT:

THE PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURE TO THE SMALLEST POSSIBLE LOGIC SEGMENT IN THE KEYBOARD/PRINTER HITH PAPER TAPE READER/PUNCH (MODEL 7020-2) AND THE KEYBOARD/PRINTER (MODEL 7012-2). THE RANDOM EXERCISER AND SOME UTILITY FUNCTIONS (CHARACTER SPACING ADJUSTMENTS, PAPER TAPE PUNCH/READ/VERIFY) ARE INCLUDED IN THE TEST PROGRAM. THE TEST PROGRAM INTERFACES HITH THE DIAGNOSTIC PROGRAM MONITOR. COMMENTS:

SIGHA 5-9 CPU HITH 8K OF MEMORY; PROGRAM INPUT DEVICE (CARD READER, PAPER TAPE READER, MAGNETIC TAPE); OPTIONAL MESSAGE OUTPUT DEVICE (LINE PRINTER, ASR, KSR).

705675

SIGMA 5 AUTHOR: C.M.HHITE ATP FOR DATA RECORDING AND TIMING SYSTEM

ABSTRACT THIS PROGRAM VERIFIES CORRECT OPERATION OF THE DATA RECORDING AND TIMING SYSTEM WHICH WAS DEVELOPED FOR RIVERSIDE RESEARCH INSTITUTE. THE PROGRAM OPERATES UNDER CONTROL OF THE DIAGNOSTIC CONTROL PROGRAM (XDS MANUAL NO. 900712). MINIMUM REQUIRED SYSTEM CONFIGURATION IS A SIGMAS, 16K MEMORY, TELETYPE CONSOLE, CARD READER, LINE PRINTER, AND A DMS-20 WITH 4 CHANNELS.

705682

S10MA 5-9

DIAGNOSTIC PROGRAM MONITOR (DPM)

AUTHOR : XEROX ABSTRACT:

A MONITOR PROGRAM WHICH WILL INTERFACE AND CONTROL ALL SIGMA DIAGNOSTIC PROGRAMS. THE PROGRAM PROVIDES A MONITOR PROGRAM WHICH WILL INTERFACE AND CONTROL CERTAIN SIGMA DIAGNOSTIC PROGRAMS. THE PROGRAM PROVIDES BASIC UTILITY FEATURES THROUGH THE USE OF DIRECTIVES. THE DPM IS USED IN CONJUNCTION WITH A BIAS CARD AND WITH THE SIGMA 5-9 DIAGNOSTIC LOADER-704356. ALL THREE ITEMS (LOADER/BIAS/DPM) ARE INCLUDED AS A LOAD PACKAGE.

COMMENTS:

THIS PROGRAM WILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL. REQUIRES A MINIMUM 18K OF MEMORY, A KSR AND AN INPUT SOURCE SUCH AS CARD READER OR PAPER TAPE READER.

705691

SIGMA 5-9

MAG. TAPE LIBRARY CONTROL PROGRAM

AUTHOR : XEROX

ABSTRACT:
THIS PROGRAM HILL LOAD DIAGNOSTIC PROGRAMS FROM A 9-TRACK MAG. TAPE BY TYPING THE ASSIGNED PROGRAM NAMES. IT CAN ADD, DELETE OR REPLACE PROGRAMS FROM THE TAPE. IT HILL ALSO FUNCTION ON A 7-TRACK MAG.

705691 CONTINUED ON FOLLOWING PAGE

MAG. TAPE LIBRARY CONTROL PROGRAM

(CONTINUED)

705691 TAPE WITH A PACKING OPTION.

THE PROGRAM REQUIRES A SIGNA 5 OR 7 HITH AT LEAST 18K OF MEMORY, A KSR/ASR, AT LEAST ONE MAG TAPE UNIT TO LOAD PROGRAMS AND AT LEAST THO MAG. TAPE UNITS TO UPDATE THE MAG. TAPE LIBRARY, AND A CARD READER. A COMMENTS: LINE PRINTER IS OPTIONAL.

SIGMA 5/7 705692

DIAGNOSTIC PROGRAM MAGNETIC TAPE LIBRARY

ALITHOR: YEROX ABSTRACT:

STRACT:
THE BINARY LIBRARY (-86) CONTAINS PROCESSOR, MEMORY, PERIPHERAL AND SPECIAL TEST PROGRAMS MHICH SHOULD
BE USED IN DIAGNOSING AND TROUBLESHOOTING HARDHARE PROBLEMS OCCURRING ON A SIGMA 5/7 SYSTEM. A COMPRESS
ED LIBRARY TAPE (-46) IS AVAILABLE ONLY FROM FIELD ENGINEERING REGIONAL MANAGEMENT. REFER TO THE
PROGRAM DESCRIPTION FOR LOADING AND USE INSTRUCTIONS.

REQUIRED EQUIPMENT: SIGMA 5 OR 7 COMPUTER, 1 9-CHANNEL MAGNETIC TAPE UNIT, 1 KEYBOARD PRINTER

SIGHA 5-9 705730

COMPREHENSIVE RAD TEST

AUTHOR: XEROX

STRACT:
THIS PROGRAM PROVIDES THE CAPIBILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURES TO THE
SMALLEST POSSIBLE FUNCTION IN THE FOLLOWING RAD CONTROLLER AND STORAGE UNITS: CONTR:7201 -STORAGE UNIT:
7202, 7203, 7204. CONTR:7211 - STORAGE UNIT:7212. CONTR:7231 -STORAGE UNIT:7232.
A RANDOM EXERCISOR IS INCLUDED AS PART OF THE TEST PROGRAM. IT IS USEFUL IN DETECTION OF INTERMITTENT
FAILURES. A UTILITY TEST (SURFACE) IS PROVIDED FOR TESTING AND SCOPING FUNCTIONS. THIS TEST PROGRAM IS
INTERFACED WITH AND OPERATES UNDER THE DIAGNOSTIC PROGRAM MONITOR (DPM) PROGRAM. ABSTRACT:

PHILID:
SIGNA 5/7 CPU HITH 16K OF MEMORY. MODEL 7211/7212 REQUIRES A SIOP. PROGRAM INPUT DEVICE: CARD READER.
PAPER TAPE READER OR MAGNETIC TAPE. MESSAGE OUTPUT DEVICE: KSR, LINE PRINTER. DEVICE TO BE TESTED: MODEL
7201/7202/7203/7204, 7211/7212, 7231/7232.

96-CHARACTER ANALEX LINE PRINTER TEST SIGHA 5/7

705731 AUTHOR: : XDS

ABSTRACT: THIS PROGRAM SERVES AS A DIAGNOSTIC AND DEMONSTRATION PROGRAM FOR THE 96-CHARACTER ANALEX (PCS20) LINE PRINTER. IT IS BASED ON THE 7440/7445 LINE PRINTER TEST, CATALOG NO. 704.777. THIS PROGRAM INCLUDES THE DIAGNOSTIC CONTROL PROGRAM AND THE DCP LOADER.

COMMENTS: HARDHARE CONFIGURATION: 4K OF MEMORY, CARD READER, KEYBOARD / PRINTER.

705735 AUTHOR: XEROX

SIGMA 5/7

7 CHANNEL MAGNETIC TAPE TEST

STRACT:
THIS PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURES TO THE
SMALLEST POSSIBLE LOGIC SEGMENT IN THE 7 CHANNEL MAGNETIC TAPE CONTROLLER (MODEL 7381/7365/7371/7374)
AND STATION (MODEL 7382/7372). THE RANDOM EXERCISER AND SOME UTILITY TEST ARE INCLUDED IN THE TEST
PROGRAM. THE TEST PROGRAM IS INTERFACED WITH THE DIAGNOSTIC PROGRAM MONITOR. ABSTRACT:

SIGHA 5/7 CPU HITH 18K OF MEHORY, PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE READER, MAGNETIC TAPE; MESSAGE OUTPUT DEVICE: KSR, LINE PRINTER, 7 CHANNEL MAGNETIC TAPE CONTROLLER AND TAPE STATION.

SIGHA 5/7 705774 AUTHOR: XEROX

DIAGNOSTIC FOR MDC MODIFIED 7580

THIS PROGRAM SERVES AS A DIAGNOSTIC AND DEMONSTRATION PROGRAM FOR THE MC DONNELL-DOUGLAS MODIFIED 7580 GRAPHIC DISPLAY. IT IS BASED ON THE 7580/7581 DIAGNOSTIC, CATALOG NO. 705387. THIS PROGRAM INCLUDES THE DIAGNOSTIC CONTROL PROGRAM AND THE DCP LOADER. ABSTRACT:

HARDHARE CONFIGURATION: SK OF MEMORY, 2 EXTERNAL INTERRUPTS, CARD READER, KEYSOARD/PRINTER.

705884 51GHA 6/7 UTS ON-LINE MAINTENANCE PACKAGE (OLHP)

AUTHOR: XEROX

AUTHOR: XEROX

ABSTRACT:

THE ON-LINE MAINTENANCE PACKAGE IS A TOOL FOR THE COMPUTER ENGINEER HITH HHICH HE CAN EXERCISE

THE ON-LINE MAINTENANCE PACKAGE IS A TOOL FOR THE COMPUTER ENGINEER HITH HHICH HE CAN EXERCISE

PARTICULAR SECTIONS OF THE HARDHARE OF THE SYSTEM HHILE ALLOHING THE REST OF THE SYSTEM TO FUNCTION

NORMALLY UNDER UTS. THE PROGRAM PROVIDES EXERCISERS FOR THE LINE PRINTER, CARD PUNCH, CARD READER, 7 AND

NORMALLY UNDER UTS. THE PROGRAM PROVIDED FOR THE FILE DEVICES (RAD AND DISK) BUT VERY LIMITED

ONTROL IS AVAILABLE ON THOSE DEVICES. 3 UTILITIES ARE PROVIDED TO 1)LIST THE ERROR LOG, 2) PUNCH CARD

DECKS FOR CARD READER EXERCISER, 3)VERIFY CARD DECKS PUNCHED BY CARD PUNCH EXERCISER.

DIMENTS:
THE PROGRAMS RUNS UNDER UTS AS A NORMAL ON-LINE PROGRAM HITH SPECIAL PRIVILEGES. THE PACKAGE CAN ONLY BE
RUN ON A UTS SYSTEM HHEN THE SYSTEM IS UP AND RUNNING. THE BINARY OBJECT DECKS MUST BE COMBINED IN A
LOAD HODULE USING THE FOLLOHING JOB COMMANDS: NOTE:EACH PROGRAM IS IDENTIFIED BY ITS PROGRAM NUMBER.

10VER.AY (EF. (706282), (706283), (706284),;

1(706285), (706286), (706287), (706288), (706289);

1(706290), (706291),;

1(PERN), (LMN, 01A0), (MAP), (SL, F)

1TREE 706283-706282-(708284, 706285, 708287;

1706288, 706288, 706289-(706290, 708291))

CC-32 DIAGNOSTIC PROGRAM 705886 S16MA 5/7

AUTHOR: XDS DATA SYSTEMS DIVISION ABSTRACT:

THIS PROGRAM TEST AND EXERCISE THE MODEL CC-32 PROCEDURE ORIENTED COMMUNICATION CONTROLLERS WHEN IT OPERATES WITH A SIGMA 5 OR 7 COMPUTER. IT IS BASED ON THE DATA SET CONTROLLER DIAGNOSTIC PROGRAM, CATALOG NO. 704013. THIS PROGRAM INCLUDES THE DIAGNOSTIC CONTROL PROGRAM AND RELOCATABLE DIAGNOSTIC PROGRAM LOADER.

COMMENTS:

MARDHARE CONFIGURATION: SIGMA 5/7 COMPUTER, 9K OF CORE MEMORY, KEYBOARD PRINTER, EITHER CARD READER OR PAPER TAPE READER AS PROGRAM INPUT DEVICE, COUNTER 4 REAL-TIME CLOCK, AND ONE OR MORE MODEL CC-32 PROCEDURE ORIENTED COMMUNICATION CONTROLLERS.

705887 SIGMA 5/7 ADS-10 ANALOG SIU DIAGNOSTIC PROGRAM

AUTHOR: XEROX

THE PROGRAM PROVIDES A MEANS OF CHECKING THE OPERATION OF THE ADS-1 SYSTEM INTERFACE UNIT.

REQUIRED HARDHARE: 8K OF CORE, KEYBOARD/PRINTER, CARD READER OR PAPER TAPE READER, ADS-10 ANALOG INPUT CONTROLLER, MD41 MULTIPLEXER-DIGITIZER OR CD51 CONTROLLER-DIGITIZER AND 1-8 DM40 DIFFERENTIAL MULTIPLEXERS. OPTIONAL HARDHARE: 7969 FREQUENCY CONTROL SUBSYSTEM. TEST EQUIPMENT: A PRECISION VOLTAGE

705889 SIGMA 5/7 NEH SYSTEM EXERCISER (SEX)

AUTHOR: XEROX

AUTHOR: XENDX
ABSTRACT:
THE SYSTEMS EXERCISER IS A STAND-ALONE PROGRAM WHICH CAN SIMULTANEOUSLY OPERATE ALL STANDARD DEVICES ON
ANY XDS SIGMA 5 OR 7. THE PROGRAM PROVIDES ONLY MONO-PROCESSOR CONTROL AND DOES NOT HAVE PERIPHERAL
SHITCH CONTROLS.

COMMENTS:

REQUIRED CONFIGURATION: A SIGMA 5 OR 7 COMPUTER WITH 16K MEMORY, A KEYBOARD/PRINTER, ANY XDS STANDARD RAD AND ANY XDS STANDARD CARD READER.

GUIDE DIAGNOSTIC MONITOR 706131 SIGMA 8/9 AUTHOR: XEROX

ABSTRACT:

THE SIGMA 8/9 GENERAL USERS INTERFACE-DESIGNER-EXPANDABLE (GUIDE) DIAGNOSTIC MONITOR PROVIDES AN INTERFACE BETHEEN A SIGMA 8/9 CPU DIAGNOSTIC PROGRAM AND THE USER VIA A KEYBOARD PRINTER. STANDARD DIRECTIVES ARE PROVIDED FOR DISPLAYING MEMORY, ALTERING MEMORY AND SETTING SOFTHARE SENSE SHITCHES. A SELECTION OF UTILITY SUB-ROUTINES ARE ALSO PROVIDED.

DIMENTS:
LINKAGES ARE PROVIDED BETHEEN GUIDE AND THE USER PROGRAM VIA TABLES SHARED BY BOTH PROGRAMS. THE PROGRAM
RESERVES THE MEMORY BETHEEN LOCATION 40 AND LOCATION FFF (HEXADECIMAL). THE PROGRAM REQUIRES A SIGMA 8
OR 9 COMPUTER WITH AT LEAST 16K OF MEMORY, A KEYBOARD PRINTER AND EITHER A CARD READER OR MAGNETIC TAPE
UNIT FOR INPUT. A LINE PRINTER IS AN OPTIONAL ITEM FOR OUTPUT.

706133 SIGMA 8/9 CPU DIAGNOSTIC (AUTO)

ALITHOR: YEROY

ABSTRACT:

THE SIGMA 8/9 CPU DIAGNOSTIC, AUTO, IS A MODULE DRIVER, GUIDE (708131) INTERFACED PROGRAM. THE DRIVER SECTION USES ONLY THE MARD-CORE INSTRUCTIONS THAT ARE VALIDATED BY THE PREP (708132) PROGRAM, TO FETCH AND EXECUTE (IN FOUR DIFFERENT MODES) THE SLIGHTLY MORE COMPLEX INSTRUCTIONS THAT ARE THE NUCLEUS OF EACH MODULE. EACH MODULE CONTAINS THE INITIALIZING DATA, THE EXPECTED RESULT DATA AND THE TEST INSTRUCTION. INSTRUCTIONS NOT TESTED BY AUTO ARE: FLOATING POINT, DECIMAL, BYTE STRING, CVA, CVS, MMC. 1/0, HAIT AND PUSH DOWN.

COMMENTS:
THE PROGRAM REQUIRES A SIGMA 8 OR 9 COMPUTER WITH A MINIMUM 16K OF MEMORY, A KSR/ASR, A CARD READER OR 9T MAGNETIC TAPE UNIT AND OPTIONALLY, A LINE PRINTER. SNAPSHOT IS AN INTEGRAL PART OF THE PROGRAM AND 18 CONTROLLED BY PARAMETERS. REFERENCE DATA FOR SNAPSHOT COMPARISION IS ONLY AVAILABLE ON THE DIAGNOSTIC MAGNETIC TAPE LIBRARY, MACHINES WITH LESS THAN 32K OF MEMORY CANNOT DO A FULL SNAP OF LONG INSTRUCTIONS IN ONE PASS.

706134 SIGMA 8/9 CPU DIAGNOSTIC (SUFFIX) AUTHOR: XEROX

ABSTRACT:

THE SIGMA 8/9 CPU DIAGNOSTIC, SUFFIX, IS A MODULE-DRIVER, GUIDE (706131) INTERFACED PROGRAM. THE MODULE CONTAINS CONTROL HORDS THAT CONVEY INITIALIZATION CONTROL INFORMATION TO THE DRIVER. THE DRIVER INITIALIZES THE APPROPRIATE CONTROL TABLES, EXECUTES THE TEST INSTRUCTION, VALIDATES THE TEST RESULTS AND ADVANCES TO THE NEXT MODULE. ERRORS ARE REPORTED TO A MESSAGE DEVICE AS THEY ARE DETECTED. THE DRIVER ONLY USES INSTRUCTIONS TESTED BY PREP (706132) AND AUTO (706133). INSTRUCTIONS TESTED BY THIS PROGRAM ARE LM,STM,MBS,CBS,TBS,TTBS,PSM,PLM,PSM,PLM,MSP,MMC,LRA,CVA AND CVS.

THE PROGRAM REQUIRES A SIGMA 8 OR 9 COMPUTER WITH A MINIMUM 18K OF MEMORY, A KSR/ASR, A CARD READER OR 9T MAGNETIC TAPE UNIT AND, OPTIONALLY, A LINE PRINTER SNAPSHOT IS AN INTEGRAL PART OF THE PROGRAM AND IS CONTROLLED BY PARAMETERS. REFERENCE DATA FOR SNAPSHOT COMPARISON IS ONLY AVAILABLE ON THE DIAGNOSTIC MAGNETIC TAPE LIBRARY. MACHINES WITH LESS THAN 32K OF MEMORY CANNOT DO A FULL SNAP OF LONG INSTRUCTIONS IN ONE PASS.

706135 SIGMA 8/9 CPU DIAGNOSTIC (FLOAT)

AUTHOR: XEROX

AUTHORIZENDA
ABSTRACT:
THE SIGMA 8/9 CPU DIAGNOSTIC, FLOAT, IS A MODULE-DRIVER, GUIDE (708131) INTERFACED PROGRAM. IT EXECUTES
ALL FLOATING POINT INSTRUCTIONS. IT ASSUMES PREP (708132) AND AUTO (708133) DO NOT EXHIBIT ANY FAILURES
IT EXECUTES THE TEST INSTRUCTION ONLY IN A CONTROLLED ENVIRONMENT. THE DRIVER STRUCTURE, MODULE
STRUCTURE AND SNAPSHOT FORMAT ARE IDENTICAL TO AUTO.

COMMENTS: PHENTS:
THE PROGRAM REQUIRES A SIGMA 8 OR 9 COMPUTER HITH A MINIMUM 18K OF MEMORY, A KSR/ASR, A CARD READER OR
9T HAGNETIC TAPE UNIT AND, OPTIONALLY, A LINE PRINTER. SNAPSHOT IS AN INTEGRAL PART OF THE PROGRAM AND
IS CONTROLLED BY PARAMETERS. REFERENCE DATA FOR SNAPSHOT COMPARISON IS ONLY AVAILABLE ON THE DIAGNOSTIC
MAGNETIC TAPE LIBRARY. MACHINES HITH LESS THAN 32K OF MEMORY CANNOT DO A FULL SNAP OF LONG INSTRUCTIONS IN ONE PASS.

706136

SIGMA 8/9

CPU DIAGNOSTIC (DECIMAL)

AUTHOR: XEROX

ISTRACT:
THE SIGMA 9 CPU DIAGNOSTIC, DECIMAL, IS A MODULE-DRIVER, GUIDE (708131) INTERFACED PROGRAM. IT
EXECUTES ALL DECIMAL INSTRUCTIONS AND EBS. IT ASSUMES PREP (708132) AND AUTO (708133) DO NOT EXMIBIT ANY
FAILURE IT EXECUTES THE TEST INSTRUCTIONS ONLY IN A CONTROLLED ENVIRONMENT. IT VERTIES CLEAN
TRAPABILITY AND MEMORY PROTECT FEATURES OF THE DECIMAL UNIT. THE MODULE STRUCTURE AND DRIVER STRUCTURE
ARE SIMILAR TO AUTO (708133). THE SNAPSHOT FORMAT IS DIFFERENT BECAUSE OF THE ADDITIONAL DECIMAL SNAP.

DMMENTS:
THE PROGRAM REQUIRES A SIGMA 8 OR 9 COMPUTER HITH A MINIMUM 16K OF MEMORY, A KSR/ASR, A CARD READER OR
9T MAGNETIC TAPE UNIT AND, OPTIONALLY, A LINE PRINTER. SNAPSHOT IS AN INTEGRAL PART OF THE PROGRAM AND
IS CONTROLLED BY PARAMETERS. REFERENCE DATA FOR SNAPSHOT COMPARISON IS ONLY AVAILABLE ON THE DIAGNOSTIC
MAGNETIC TAPE LIBRARY. MACHINES HITH LESS THAN 32K OF MEMORY CANNOT DO A FULL SNAP OF LONG INSTRUCTIONS
IN ONE PASS.

706137

SIGNA 8/9

INTERRUPT/TRAP DIAGNOSTIC

AUTHOR: XEROX

THE SIGMA 8/9 INTERRUPT/TRAP DIAGNOSTIC PROVIDES AN ANALYSIS OF INTERRUPT LEVEL CONFIGURATIONS. A MEASUREMENT OF REAL-TIME CLOCK FREQUENCIES AND IT PROVIDES TESTING AND ERROR DETECTION OF INTERRUPT AND TRAP LOGIC. THE PROGRAM OPERATES IN CONJUNCTION HITH THE GUIDE (706131) PROGRAM. COMMENTS:

MITTERIS: THE PROGRAM REQUIRES A SIGMA 8 OR 9 COMPUTER WITH 16K OF MEMORY, A KEYBOARD PRINTER AND A CARD READER OR 9T MAGNETIC TAPE UNIT FOR INPUT. A LINE PRINTER 1S OPTIONAL FOR OUTPUT.

708138

SIGMA 8/9

MAP AND HRITE LOCK-DIAGNOSTIC PROGRAM

AUTHOR: XEROX

ABSTRACT: THE PURPOSE OF THE PROGRAM IS TO TEST THE SIGMA 9 MEMORY MAP AND THE SIGMA 8/9 HRITE LOCK FEATURES. IT ALSO TESTS THE LOAD REAL ADDRESS (LRA) INSTRUCTION HHICH IS USED EXTENSIVELY IN THE TESTING OF MAP ACCESS CONTROL AND HRITE LOCK REGISTERS. THE MOVE TO MEMORY CONTROL (HMC) IS ALSO TESTED. THE PROGRAM IS A GUIDE (708131) INTERFACED PROGRAM AND ASSUMES THAT THE PROGRAM CAN SUCCESSFULLY EXECUTE AUTO (708131) AND THE INTERRUPT/TRAP PROGRAM (708137).

COMMENTS: THE PROGRAM REQUIRES A SIGMA 8 OR 9 COMPUTER WITH A MINIMUM 18K OF MEMORY, A KSR/ASR, CARD READER OR ST MAGNETIC TAPE UNIT AND, OPTIONALLY, A LINE PRINTER.

706139

SIGMA 8/9

IOP TEST

AUTHOR : YEROX ABSTRACT

THE DIAGNOSTIC IS A COMPREHENSIVE TEST OF THE SIGMA 8/9 IOP. PROGRAM COVERAGE INCLUDES THE CCU. CHANNELS A AND B. AND THE MAINTENANCE SUBCONTROLLERS. THE OPTIONAL IOP FEATURES ARE ALSO TESTED. THIS PROGRAM INTERFACES WITH THE GUIDE PROGRAM (708131). THE PROGRAM TESTS THE IOP IN SEVERAL DIFFERENT MODES. INCLUDING FUNCTIONAL, SINGLE PHASE AND COMPARE.

COMMENTS: THE PROGRAM INITIALLY SCANS THE 10P FOR FUNCTIONALLY DETECTABLE FAULTS AND REPORTS A 6000 OR 8AD 10P STATE. THE PROGRAM HAS AN INITIAL HAIT TO ALLOW FOR BASIC 10P CONFIGURATION DATA. THIS PROGRAM REQUIRES 18K OF MEMORY. IF COMPARISON MODE IS INVOKED, THE PROGRAM MUST BE LOADED FROM THE SIGMA 8/9 DIAGNOSTIC MAGNETIC TAPE LIBRARY. THE REASON FOR THIS REQUIREMENT IS TO PROVIDE COMPARE DATA FOR SINGLE PHASE MODE.

706140

SIGNA 8/9

MEMORY DIAGNOSTIC - COMET

AUTHOR : XEROX

AUSTRACT:
THE SIGMA B/9 MEMORY DIAGNOSTIC, COMET, IS A GUIDE (708131) INTERFACED PROGRAM. THE PROGRAM WILL TEST
THE MATRIX-SHITCHES, DRIVER AND THE BMU. PORT CONFLICTS BETHEEN THE CPU PORT AND PORTS TO WHICH 10PS ARE
CONNECTED ARE ALSO DETECTED. THE PROGRAM WILL TEST FOR MAGNETIC DEFECTS IN THE CORES. THE PROGRAM CAM
TEST THE MEMORY SYSTEM IN ALL OR ANY COMBINATIONS OF THE MEMORY CLOCK MARGINS.

COMMENTS: THE PROGRAM REQUIRES 16K OF PROGRAM RESIDENT AREA TO APPLY ALL TEST ROUTINES TO THE REST OF MEMORY. IF THE PROGRAM IS LOADED INTO A 16K MEMORY SYSTEM THE PROGRAM HILL DELETE THOSE TESTS HHICH RESIDE ABOVE 8K. THE PROGRAM MUST BE LOADED INTO THE FIRST 128K OF MEMORY ALTHOUGH IT IS CAPABLE OF TESTING MEMORY BEYOND 128K. THE PROGRAM REQUIRES A SIGMA 8 OR 9 COMPUTER HITH A HINIHUM OF 16K OF MEMORY. A KSR/ASR, A CARD READER OR 9T MAGNETIC TAPE UNIT AND, OPTIONALLY, A LINE PRINTER. 708142 SIGMA 8/9 AUTHOR: XEROX

POHER FAIL SAFE DIAGNOSTIC

ABSTRACT:

PROPER PAIL SAFE DIAGNOSTIC PROGRAM TESTS THE OPERATION OF THE POHER MONITORS. INCLUDED ARE TESTS FOR PROPER POHER INTERRUPT SEQUENCE AND POHER MONITOR LOFF PULSE HIDTH ADJUSTMENTS.

PRIOR TO LOADING THIS PROGRAM, THE 'GUIDE' DIAGNOSTIC MONITOR PROGRAM MUST BE LOADED INTO CORE. THE PROGRAM REQUIRES A SIGMA 8 OR 9 HITH 16K MEMORY, A KEYBOARD/PRINTER FOR USER INTERFACE, AND A 9T MAG TAPE OR A CARD READER FOR PROGRAM LOADING. A LINE PRINTER IS OPTIONAL FOR MESSAGE OUTPUTS.

706144

DIAGNOSTIC PROGRAM MAG TAPE LIBRARY

SIGMA 8/9 AUTHOR: XEROX CORPORATION ABSTRACT:

THE BINARY LIBRARY (-86) CONTAINS PROCESSOR, MEMORY, PERIPHERAL AND SPECIAL TEST PROGRAMS WHICH SHOULD BE USED IN DIAGNOSING AND TROUBLESHOOTING MARDHARE PROBLEMS OCCURRING ON A SIGMA 8/9 SYSTEM. A COMPRESSED LIBRARY TAPE (-46) IS AVAILABLE ONLY FROM FIELD ENGINEERING REGIONAL MANAGEMENT. REFER TO THE PROGRAM DESCRIPTION FOR LOADING AND USE INSTRUCTIONS. COMMENTS:

REQUIRED CONFIGURATION: SIG 8/9 HITH A MINIMUM OF 32K OF MEMORY, A MINIMUM OF 1 TAPE DRIVE FOR LOADING OR 2 TAPE DRIVES AND 1 CARD READER FOR UPDATING, ONE ASR/KSR.

SIGMA 5-9 7915/ADS 10 DIAGNOSTIC

AUTHOR: XDS, HESTERN TECHNOLOGY CENTER

ABSTRACT:

THIS PROGRAM PROVIDES A MEANS OF CHECKING THE 7915/ADS 10 SYSTEM INTERFACE UNITS AND ASSOCIATED 10 MODULES.

COMMENTS:

REQUIRES BK, TYPEHRITER,, AND CARD READER. A LINE PRINTER IS OPTIONAL. THE ABSOLUTE BINARY DECK INCLUDES THE LOADER.

706146

SUPER SHAP (102)

8 SIGMA 5/8/7 AUTHOR:XDS, FIELD ENGINEERING

THIS PROGRAM RUNS ON SIGMA 5/6/7 AS A STAND-ALONE VERSION, USED STRICTLY FOR SYSTEM FAULT DIAGNOSIS.

ALL QUESTIONS SHOULD BE DIRECTED TO REMOTE TROUBLE SHOOTING GROUP, FIELD ENGINEERING.

706167

SIGMA 5-9

COMPREHENSIVE LINE PRINTER TEST

AUTHOR: XEROX

AUTHOR:XEMUX
ABSTRACT:
THIS PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURES TO THE
SMALLEST POSSIBLE LOGIC SEGMENT IN THE LINE PRINTER (MODEL 7440/7445, 7441, 7448 OR 7450). THE RANDOM
EXERCISER AND SOME UTILITY TEST FUNCTIONS ARE INCLUDED IN THE TEST PROGRAM. THE TEST PROGRAM IS
INTERFACED TO THE DIAGNOSTIC PROGRAM HONITOR.

THENIS: SIGMA 5-9 CPU WITH 18K OF CORE MEMORY; PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE READER, MAGNETIC TAPE UNIT; MESSAGE OUTPUT DEVICE: KSR, LINE PRINTER; LINE PRINTER TO BE TESTED.

706169

SIGMA 5-9

COMPREHENSIVE CARD EQUIPMENT TEST

AUTHOR: XEROX ABSTRACT:

SSTRACT:
THIS TEST PROGRAM PROVIDES THE CAPABILITY TO DETECT AND ISOLATE SOLID LOGIC FAILURES OCCURRING IN ALL
STANDARD CARD PUNCH AND READER EQUIPMENT (MODELS 7160-1,7160-2,7165 AND MODELS 7120,7121,7122,7140
RESPECTIVELY). A RANDOM EXERCISER AND SOME UTITITY FUNCTIONS ARE INCLUDED IN THE TEST PROGRAM TO
RESPECTIVELY DETECT INTERMITTENT CONTROLLER AND/OR MECHANISM FAILURES, AND AID THE OPERATOR IN MECHANISM
ADJUSTMENTS. THE TEST PROGRAM IS INTERFACED TO THE DIAGNOSTIC PROGRAM MONITOR. COMMENTS:

MINERIE: SIGMA 5/6/7/9 CPU WITH 18K OF CORE MEMORY: PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE READER, OR MAGNETIC TAPE UNIT: MESSAGE OUTPUT DEVICE: KSR, LINE PRINTER; CARD PUNCH AND/OR READER TO BE TESTED.

706200

51GMA 8/9 AUTHOR: XEROX

HIGH-SPEED RAD 10P TEST

AUTHOR: XEROX
ABSTRACT:
THIS TEST PROGRAM PROVIDES THE CAPABILITY TO DETECT AND ISOLATE SOLID LOGIC FAILURES OCCURRING IN THE
HIGH-SPEED RAD 10P (MODEL 8580) AND HIGH-SPEED RAD STORAGE UNIT (MODEL 7212). A RANDOM EXERCISER AND
SOME UTILITY FUNCTIONS ARE INCLUDED IN THE TEST PROGRAM TO ASSIST IN THE DETECTION OF INTERMITTENT
FAILURES. THE TEST PROGRAM IS INTERFACED TO THE DIAGNOSTIC PROGRAM MONITOR (DPM).

SIGMA 9 CPU HITH 18K OF CORE HOMORY; PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE READER, OR MAGNETIC TAPE UNIT; MESSAGE OUTPUT DEVICE: KSR, LINE PRINTER; HIGH-SPEED RAD 10P AND HIGH SPEED STORAGE UNIT TO BE TESTED.

706236

56 SIGMA 5-9 SYSTEM AUTHOR:XEROX, WESTERN TECHNOLOGY GROUP SYSTEM KEYBOARD DISPLAY (SKD) DIAGNOSTIC

ABSTRACT

IMPLEMENTS ON SIGMA 5/7 THE SIGMA 2/3 SKD DIAGNOSTIC (708110) WHICH HAS THESE FUNCTIONS: 1 - IN HOUSE

708236 CONTINUED ON FOLLOHING PAGE

SYSTEM KEYBOARD DISPLAY (SKD) DIAGNOSTIC (CONTINUED)
CHECKOUT OF NEW SKD UNITS, 2 - QA ACCEPTANCE OF SKD UNITS, 3 - DIAGNOSTIC FOR REMOTE & UNATTENDED SKD 706236 UNITS.

THE BINARY DECK PROVIDED CONTAINS THE DIAGNOSTIC PROGRAM MONITOR (DPM) & THE SKD DIAGNOSTIC. THE CORE REQUIREMENT IS APPROXIMATELY 9800 LOCATIONS. SOURCE LANGUAGE IS SIGMA 5/7 META-SYMBOL.

9 SIGMA 5-9 AUTHOR:XEROX CORPORATION ROTATING MEMORY TEST PROGRAM - RMC

ABSTRACT:
THIS TEST PROVIDES THE CAPABILITY TO DETECT AND ISOLATE SOLID LOGIC FAILURES OCCURRING IN THE ROTATING
MEMORY CONTROLLER OR THE XEROX DISK A OR DISK 33. A RANDOM EXERCISER AND UTILITY FUNCTIONS ARE INCLUDED
TO ASSIST IN THE DETECTION OF INTERMITTENT FAILURES. THE TEST PROGRAM IS INTERFACED WITH THE DIAGNOSTIC

COMMENTS: THEN IS:
THIS PROGRAM HILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN
PROGRAM IS HRITTEN IN METASYMBOL.
REQUIRED MINIMUM CONFIGURATION: SIGMA 5-9 HITH 18K CORE, IOP, PROGRAM INPUT DEVICE (CARD OR PAPER TAPE
READER, MAG TAPE), KSR, ROTATING MEMORY CONTROLLER HITH DISK'S.

CPU HARD CORE PREP (HCP) SIGMA 8/9 706264

AUTHOR: XEROX

STRACT:
THE SIGMA 8/9 DIAGNOSTIC HARD CORE PREP, HCP, IS A LOAD-AND-GO PRETEST OF THE SIGMA 8/9 HARDMARE. THE
LOADABLE OBJECT DECK IS PURE BINARY (SOCH). IT LOADS DIRECTLY FROM THE HARDMARE BOOT AND REQUIRES NO
OTHER LOADING AID. THE PROGRAM TESTS EACH INSTRUCTION BEFORE IT USES IT AS TESTING SECOMES MORE
COMPLEX. TESTING INCLUDES BASIC INSTRUCTION TESTS, INCLUDING INDEXING AND INDIRECT, HEMORY TESTS, AND
I/O TESTS. THE PROGRAM CLEARS THE FIRST 16K OF CORE AND RESTORES THE HARDMARE BOOT ON THE LAST CAMB
PRIOR TO BRANCHING TO LOCATION X'26'.

THE PROGRAM REQUIRES A SIGMA 8 OR 9 COMPUTER AND A CARD READER OR MAGNETIC TAPE UNIT FOR LOADING. THE PROGRAM LOADS AND RUNS IN LESS THAN 500 HORDS, BUT THE MEMORY TEST EXPECTS TO FIND 18K AND TESTS THE FULL FIRST 16K BANK. IT IS ASSUMED THAT THE HARDHARE BOOT HORKS AND THAT THE 10P AND CARD READER ARE ABLE TO LOAD CARDS. THE PROGRAM IS LOADED AND EXECUTED WHENEVER THE MAG TAPE LIBRARY IS BOOTED IN FROM LOADPOINT.

REMOTE GUIDE 706267 SIGMA 8/9

AUTHOR : XEROX ABSTRACT:

THIS PROGRAM IS AN EXTENSION OF THE SIGMA 8/9 DIAGNOSTIC MONITOR (GUIDE). IT PROVIDES THE ABILITY TO USE Guide Controlled Programs from a remote terminal.

706271 1 SIGHA 5/8/7 AUTHOR: XEROX CORPORATION PORT-TEST COL

ABSTRACT:

THIS PROGRAM IS A STAND-ALONE SYSTEM DATA PATH TEST USING CPU, MEMORY, 10P, AND MAGNETIC SURFACE 10 COMMENTS:

THE PROGRAM REQUIRES APPROXIMATELY 3000 DECIMAL LOCATIONS. ALL REMAINING MEMORY LOCATIONS ARE USED AS 1/0 DATA BUFFERS FOR THE DATA PATH TESTS.

SIGMA 5-9 AUTHOR: OX OPTICAL CHARACTER PRINTER TEST PROGRAM 706411

SISTRACT:
THIS TEST PROGRAM PROVIDES THE CAPABILITY TO DETECT AND ISOLATE SOLID LOGIC FAILURES OCCURRING IN THE
OPTICAL CHARACTER PRINTER (OCP). A RANDOM EXERCISER AND SOME ULITITY FUNCTIONS ARE INCLUDED IN THE TEST
PROGRAM TO ASSIST IN THE DETECTION OF INTERMITTENT FAILURES IN THE LOGIC AND MECHANISM. THE TEST PROGRAM
IS INTERFACED TO THE REMOTE DIAGNOSTIC PROGRAM MONITOR (RDPM).

COMMENTS: REQUIRED HAREHARE: A SIGMA 5-9 CPU HITH 18K OF CORE MEMORY AND COUNTER 4 REAL TIME CLOCK; PROGRAM INPUT DEVICE: A CARD READER, A PAPER TAPE READER, A MAGNETIC TAPE UNIT; MESSAGE OUTPUT DEVICE, A KSR, A LINE PRINTER; DEVICE TO BE TESTED, AN OPTICAL CHARACTER PRINTER (OCP).

4 SIGHA 5-9 REMOVABLE DISK STORAGE TEST AUTHOR: XEROX, WESTERN TECHNOLOGY CENTER - 706424

THIS PROGRAM IS THE DIAGNOSTIC SUPPORT FOR THE MODIFIED 7240 CONTROLLER (ASSEMBLY NO. 168530), SINGLE CHANNEL ISS NO. 715X AND DUAL CHANNEL ISS NO. 715XD. THE PROGRAM IS A MODIFICATION OF PROGRAM NO. 705634 VERSION BOI. THE PROGRAM IS INTERFACED TO THE DIAGNOSTIC PROGRAM MONITOR (PROGRAM NO. 705862).

COMMENTS: SIGNA 5-9 CPU HITH 12K OF MEMORY: PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE, MAGNETIC TAPE: MESSAGE OUTPUT DEVICE: KSR, LINE PRINTER; REMOVABLE DISC STORAGE CONTROLLER AND DRIVE UNIT. 706472 SIGMA 5-9 STAND-ALONE OCP DIAGNOSTIC CONTROL PROG.

AUTHOR: XEROX CORPORATION ABSTRACT:

THE PROGRAM PROVIDES THE SOFTHARE FACILITY TO LINK A ON-LINE OPTICAL CHARACTER PRINTER (OCP) TO A SIGMA MAGNETIC TAPE DRIVE. THIS PROVIDES THE CAPABILITY TO RUN THE DIAGNOSTIC SOFTHARE SYSTEM (DSS) FOR THE OFF-LINE XEROX 1200 PRINTER CONTROL SYSTEM THROUGH A SIGMA 5-9. COMMENTS.

THIS PROGRAM HILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE THE PROGRAM IS INTERFACED TO THE SIGMA 5-9 DIAGNOSTIC PROGRAM MONITOR (CATALOG NO. 705682) AND REQUIRES

THE FOLLOHING CONFIGURATION:

16K MEMORY, MULTIPLEXING 1/0 PROCESSOR (NOT A SIGMA 5 INTEGRAL 10P), AND A 9 TRACK TAPE DRIVE.

706473 S16MA 5-9 NS LINE PRINTER DIAGNOSTIC

AUTHOR: XEROX CORPORATION

ABSTRACT:

SSTRACT:
THE PROGRAM VERIFIES THE OPERATION OF THE SIGMA NS LINE PRINTER I/O SUBSYSTEM CONSISTING OF A LINE
PRINTER CONTROLLER AND A LOH, MEDIUM, OR HIGH SPEED LINE PRINTER. THE FUNCTIONAL TESTS ARE DESIGNED TO
DETECT FAILURES IN THE I/O SUBSYSTEM. A SET OF UTILITY TESTS IS PROVIDED TO AID IN THE PERFORMANCE OF
CORRECTIVE AND PREVENTIVE MAINTENANCE.

THIS PROGRAM HILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE Main program is Hritten in Metasymbol. The program is interfaced to a sigma 5-9 diagnostic program monitor (catalog no. 705892). The Memory Requirement is 18K.

SIGMA 5-9/550/560 708001 ON-LINE EXERCISER SYSTEM FOR CP-R

AUTHOR: XEROX CORPORATION

ABSTRACT:

ASTRACT:
THE GOAL OF THE ON-LINE EXERCISER IS TO PROVIDE A TOOL FOR THE CUSTOMER AND CUSTOMER ENGINEER HITH MMICH
HE CAN TEST PARTICULAR SECTIONS OF THE HARDHARE OF THE SYSTEM MITHOUT DEGRADING THE FOREGROUND JOBS
UNDER AN CP-R ENVIRONMENT. THE ON-LINE EXERCISER PACKAGE DOES NOT DIAGNOSE. THUS, THE ADVANTAGE OF THE
ON-LINE EXERCISER SYSTEM IS TO BE ABLE TO VERIFY THAT A RESOURCE ELEMENT IS IN PROPER HORKING ORDER,
HITHOUT TAKING THE SYSTEM INTO AN OFF-LINE ENVIRONMENT. COMMENTS:

THIS PROGRAM HILL RUN UNDER CP-R OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS MRITTEN IN META-SYMBOL.
THIS CATALOG NUMBER ONLY REPRESENTS THE LOAD MODULE FOR THE FOLLOWING:

THIS CATALOG NUMBER ONLY REPRESENTS THE LOAD MODULE FOR THE FOLLOMING:

1. EXERCISER CONTROL PROGRAM (CATALOG NUMBER 708002).

2. CARD READER/CARD PUNCH EXERCISER (CATALOG NUMBER 708003).

3. LINE PRINTER EXERCISER (CATALOG NUMBER 708004).

4. MAGNETIC TAPE EXERCISER (CATALOG NUMBER 708005).

THE ON-LINE EXERCISER SYSTEM HILL RUN AS A CP-R USER PROGRAM USING ONLY THE FACILITIES THAT ARE AVAILABLE TO ANY USER, PLUS FOR THE CAPABILITY TO ACCESS A | DOWN! DEVICE. IT EXECUTES ITS 1/0'S BY USING NORMAL USER READ'S AND HRITE'S. ALSO, ALL ERRORS HILL BE LOGGED INTO THE STANDARD CP-R ERROR LOG FILE.

SIGMA 5-9/550/580 AUTHOR:XEROX CORPORATION 708002 EXERCISER CONTROL PROGRAM FOR CP-R

AUTHOR: REPORT COMPORATION
ABSTRACT:
THE EXERCISER CONTROL PROGRAM CONTROLS THE LOADING AND EXECUTION OF SELECTED PERIPHERAL EXERCISERS.
SINCE THE EXERCISERS ARE ASSEMBLED SEPARATELY FROM THE CONTROL PROGRAM, INTER-PROGRAM COMMUNICATION IS
ESTABLISHED BY MAY OF INTERFACE TABLES. IT ALSO INITIATES THE EXERCISER AND CONTROLS THE EXECUTION OF
THE EXERCISER'S TEST AND TERMINATES THE EXERCISER WHEN ITS LAST TEST HAS COMPLETED. COMMENTS:

THIS PROGRAM HILL RUN UNDER CP-R OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN META-SYMBOL.
THIS IS ONLY THE CONTROL PROGRAM FOR THE ON-LINE EXERCISER SYSTEM. THE PERIPHERAL EXERCISERS ARE NOT INCLUDED UNDER THIS PROGRAM CATALOG NUMBER.

708003 3 SIGMA 5-9/550/560 AUTHOR:XEROX CORPORATION CARD READER/CARD PUNCH EXERCISER (CP-R)

ABSTRACT:

PSIMALI: THIS PROGRAM WILL READ OR PUNCH A PREDEFINED AND PSEUDO RANDOM CARD DECKS FROM THE CARD READER OR CARD PUNCH. THIS EXERCISER HAS FIVE TESTS IN TOTAL (3 STANDARD AND 2 USER DEFINED). THE CARD READER TESTS UTILIZES THE CARD DECKS PUNCHED OUT BY THE CARD PUNCH TESTS.

THIS PROGRAM HILL RUN UNDER CP-R OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN META-SYMBOL. THIS EXERCISER EXECUTES UNDER THE CONTROL OF THE EXERCISER CONTROL PROGRAM (PROGRAM CATALOG NUMBER 708002). IT HILL NOT RUN ALONE UNDER CP-R.

SIGMA 5-9/550/580 LINE PRINTER EXERCISER FOR CP-R

AUTHOR: XEROX CORPORATION

AUTHORIZERUS CONTURATION
ABSTRACT:
THE LINE PRINTER EXERCISER HILL PRINT A VARIETY OF PATTERNS ON THE LINE PRINTER FOR CHECKING VARIOUS
PRINTING HALFUNCTIONS AS HELL AS CHECKING THE VERTICAL FORMAT CONTROL. THIS EXERCISER HAS NIME TESTS IN
TOTAL (8 STANDARD AND 1 USER DEFINED).

THIS PROGRAM HILL RUN UNDER CP-R OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN

708004 CONTINUED ON FOLLOWING PAGE

LINE PRINTER EXERCISER FOR CP-R

(CONTINUED)

PROGRAM IS HRITTEN IN META-SYMBOL.
THIS EXERCISER EXECUTES UNDER THE CONTROL OF THE EXERCISER CONTROL PROGRAM CATALOG NUMBER 708002). IT HILL NOT RUN ALONE UNDER CP-R.

708005

MAGNETIC TAPE EXERCISER FOR CP-R SIGMA 5-9/550/560 AUTHOR: XEROX CORPORATION

ABSTRACT: STRACT:
THE MAGNETIC TAPE EXERCISER HILL READ AND HRITE TO EITHER 7 OR 9 TRACK MAGNETIC TAPE. IT ALSO VERIFIES
HHETHER THE TAPE CAN BE MOVED OFF OF LOAD POINT AND HHETHER THE BASIC POSITIONING OF THE DRIVE CAN BE
ACCOMPLISHED. THIS EXERCISER HAS SIX TEST IN TOTAL (5 STANDARD AND 1 USER DEFINED). ONE OF THE
STANDARD TESTS HILL ONLY EXECUTE FOR 9 TRACK TAPES SINCE THE READ REVERSE FUNCTION IS TESTED. COMMENTS

THIS PROGRAM HILL RUN UNDER CP-R OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN THIS PROGRAM IS HRITTEN IN META-SYMBOL.
THIS EXERCISER EXECUTES UNDER THE CONTROL OF THE EXERCISER CONTROL PROGRAM (PROGRAM CATALOG NUMBER 708002). IT HILL NOT RUN ALONE UNDER CP-R.

SIGMA 5-9/550/580 AUTHOR:XEROX CORPORATION 708006

CP-V/CP-R ERROR LOG LIST/ANALYSIS (ELLA)

ABSTRACT: THE ERROR LOG LIST/ANALYSIS PROGRAM IS A TOOL FOR FIELD ENGINEERING BY HHICH THE ERRORS LOGGED BY AN OPERATING SYSTEM ARE LISTED IN A COMPREHENSIVE AND READABLE FORMAT. SELECTION OF DEVICES, ERROR TYPES AND THE TIME SPAN IS OFFERED TO THE USER FOR FLEXIBILITY AND EASE OF OPERATION. THE VARIOUS LISTINGS OFFERED ARE: CHRONOLOGICAL LISTING, SORTED LISTING, SUMMARY OF ERRORS AND GRAPHICAL DISPLAY. COMMENTS:

THIS PROGRAM HILL RUN UNDER CP-V/CP-R OPERATING SYSTEMS. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN META-SYMBOL. THIS PROGRAM RUNS UNDER CP-V/CP-R AS A BACKGROUND PROGRAM IN AN OVERLAY MODE FOR EXECUTION. THE OTHER FOUR OVERLAY PROGRAMS ARE: 708008, 708009, 708010, AND 708011. REFER TO SPECIFICATION NUMBER 703118 FOR LOADING AND ADDITIONAL INFORMATION.

SIGNA 5-9/550/560 708007

CP-V/CP-R-CONTROL PROGRAM FOR ELLA

AUTHOR: XEROX CORPORATION

ABSTRACT:

PRINCE ON THE PROGRAM FOR ELLA IS THE CONTROLLING SEGMENT WHICH ALLONS THE USER TO CHOOSE THE VARIOUS FUNCTIONS OFFERED BY THE ERROR LOG LIST/ANALYSIS PROGRAM. FOR FURTHER INFORMATION, REFER TO CATALOG NUMBER 708006.

COMMENTS:

THIS PROGRAM HILL RUN UNDER CP-V/CP-R OPERATING SYSTEMS. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN META-SYMBOL.
THE CONTROL PROGRAM HILL NEED THE FOLLOHING PROGRAMS TO FORM THE ERROR LOG LIST/ANALYSIS PROGRAM: 708008, 708009, 708010, AND 708011.

708008

8 SIGMA 5-9/550/560 CP-V/CP-R-CHRONOLOGICAL/SORTED LIST MOD AUTHOR:XEROX CORPORATION

ABSTRACT: THE CHRONOLOGICAL/SORTED LISTING PROGRAM IS ONE OF FOUR RELOCATABLE OBJECT MODULES HHICH IS PART OF THE ERROR LOG LIST/ANALYSIS PROGRAM. THIS MODULES UNDER THE CONTROLLING ROOT (ELLA) LISTS OUT THE ERROR RECORDS IN A CHRONOLOGICAL OR SORTED FASHION. REFER TO CATALOG NUMBER 708008 FOR ADDITIONAL

COMMENTS: THIS PROGRAM WILL RUN UNDER CP-V/CP-R OPERATING SYSTEMS. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE Main program is written in meta-symbol. This program will not run except as an overlay program to the Error log List/Analysis program (catalog number 708008).

708009

CP-V/CP-R-BOUNDARY MODULE FOR ELLA SIGMA 5-9/550/560

AUTHOR: XEROX CORPORATION

ABSTRACT: THE BOUNDARY MODULE SETS THE BOUNDARY VALUES FOR DEVICE, MODEL ERROR TYPES AND TIME SPAN FOR THE ERROR LOG LIST/ANALYSIS PROGRAM. THIS IS ONE OF 4 RELOCATALBE OBJECT MODULES THAT IS PART OF THE ERROR LOG LIST/ANALYSIS PROGRAM. REFER TO CATALOG NUMBER 708008 FOR ADDITONAL INFORMATION.

UMBLNIS:
THIS PROGRAM HILL RUN UNDER CP-V/CP-R OPERATING SYSTEMS. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE
MAIN PROGRAM IS HRITTEN IN META-SYMBOL.
THIS PROGRAM HILL NOT RUN EXCEPT AS AN OVERLAY PROGRAM TO THE ERROR LOG LIST/ANALYSIS PROGRAM (CATALOG
NUMBER 708006).

708010

CP-V/CP-R-ERROR SUMMARY MODULE FOR ELLA

0 SIGMA 5-9/550/560 AUTHOR:XEROX CORPORATION

ABSTRACT: THE SUMMARY MODULE LISTS OUT A SUMMARY OF THE ERRORS FROM THE ERROR LOG. THIS IS ONE OF 4 RELOCATABLE OBJECT MODULES THAT IS PART OF THE ERROR LOG LIST/ANALYSIS PROGRAM. REFER TO CATALOG NUMBER 708008 FOR FURTHER INFORMATION.

COMMENTS:

THIS PROGRAM HILL RUN UNDER CP-V/CP-R OPERATING SYSTEMS. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE
MAIN PROGRAM IS HRITTEN IN META-SYMBOL.
THIS PROGRAM HILL NOT RUN EXCEPT AS AN OVERLAY PROGRAM TO THE ERROR LOG LIST/ANALYSIS PROGRAM (CATALOS

708011 SIGMA 5-9/550/560 CP-V/CP-R-GRAPHICAL DISPLAY MODULE ELLA

AUTHOR: XEROX CORPORATION ABSTRACT:

THE GRAPHICAL DISPLAY MODULE HILL DISPLAY THE ERROR RECORDS IN A GRAPHICAL MANNER. THIS IS ONE OF 4 RELOCATALBE OBJECT MODULES THAT IS PART OF THE ERROR LOG LIST/ANALYSIS PROGRAM. REFER TO CATALOG NUMBER 708006 FOR ADDITIONAL INFORMATION.

THIS PROGRAM HILL RUN UNDER CP-Y/CP-R OPERATING SYSTEMS. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN META-SYMBOL. THIS PROGRAM WILL NOT RUN EXCEPT AS AN OVERLAY PROGRAM TO THE ERROR LOG LIST/ANALYSIS PROGRAM (CATALOG NUMBER 708006).

0 XEROX 550/560 AUTHOR:XEROX CORPORATION 730000 INSTRUCTION DIAGNOSTIC - AUTO

ABSTRACT: THE AUTO PROGRAM FUNCTIONALLY TEST THE BASIC INSTRUCTION SET OF A TAURUS COMPUTER USING THE HARDCORE INSTRUCTION SET VALIDATED BY THE HARDCORE PREP PROGRAM. ALL NON-MAPPED MODES OF ADDRESSING INCLUDING INDIRECT INDEX AND BASE ARE VERIFIED. THE TAURUS TRAP LOGIC IS TESTED AND BASIC INSTRUCTION TRAPPING IS TESTED. THE PROGRAM IS DESIGNED TO DETECT AND LOCATE FAULTS HITHIN A TAURUS BASIC PROCESSOR UNIT. COMMENTS:

PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGAM IS WRITTEN IN METASYMBOL.
THE AUTO PROGRAM IS INTERFACED TO THE COMMUNICATIONS CONTROL PROGRAM (CCP) WHICH IS REQUIRED FOR LOADING AND CONTROL. IT IS AVAILABLE ON MAGNETIC TAPE, CARDS OR DISK PACK AND REQUIRES AT LEAST 18K OF MEMORY.

1 XEROX 550/560 AUTHOR: XEROX CORPORATION INSTRUCTION DIAGNOSTIC - SUFFIX 730001

ABSTRACT:

THE SUFFIX PROGRAM FUNCTIONALLY TESTS THE FOLLOHING INSTRUCTIONS: MBS, CBS, EBS, TBS, TTBS, PSM, PLM, PSM, PLM, MSP, MMC, LRA, CVA, CVS, LM, STM. ALL PERMISSIBLE MODES OF ADDRESSING AND TRAPPING ARE TESTED. THE PROGRAM IS DESIGNED TO DETECT AND LOCATE FAULTS HITHIN A TAURUS BASIC PROCESSOR UNIT.

PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.
THE SUFFIX PROGRAM IS INTERFACED TO THE COMMUNICATIONS CONTROL PROGRAM (CCP) HHICH IS REQUIRED FOR LOADING AND CONTROL. IT IS AVAILABLE ON MAGNETIC TAPE, CARDS, OR DISK PACK AND REQUIRES AT LEAST 18K OF MEMORY.

730002 XEROX 550/560 INSTRUCTION DIAGNOSTIC - FADS

AUTHOR: XEROX CORPORATION ABSTRACT:

THE FADS PROGRAM FUNCTIONALLY TESTS THE INSTRUCTIONS EXECUTED PRIMARILY BY THE EXTENDED ARITHMETIC UNIT. THESE INCLUDE: FAS, FSL, FSS. FSL, FMS. FML, FDS, FDL, DL, DST, DA, DS. DM, DD, DC, DSA, PACK, UNPK, MI, MH, DH, DH, S AND SF. ALL PERMISSIBLE MODES OF ADDRESSING AND TRAPPING ARE TESTED. THE PROGRAM IS DESIGNED TO DETECT AND LOCATE FAULTS WITHIN A TAURUS EXTENDED ARITHMETIC UNIT. COMMENTS:

PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THE FADS PROGRAM IS INTERFACED TO THE COMMUNICATIONS CONTROL PROGRAM (CCP) WHICH IS REQUIRED FOR LOADING AND CONTROL. IT IS AVAILABLE ON MAGNETIC TAPE, CARDS OR DISK PACK AND REQUIRES AT LEAST 16K OF MEMORY.

730003 XEROX 550/560 MEMORY DIAGNOSTIC PROGRAM

AUTHOR: XEROX CORPORATION

ABSTRACT: THIS IS A MEMORY UNIT TEST DESIGNED TO VERIFY BOTH THE MEMORY UNIT CONTROL LOGIC AND THE MEMORY BIPOLAR STORAGE LOGIC. THE PROGRAM DETECTS SINGLE SOLID FAILURES AND ISOLATES THOSE FAILURES TO A PREDETERMINED GROUP OF N.S. MODULES. THE PROGRAM CAN BE CONTROLLED AS TO HHICH TEST CASE CAN OR CAN'T BE EXECUTED AND AS TO HHICH STORAGE TYPE LOGIC MODULES CAN OR CAN'T BE TESTED. THE TEST IS DESIGNED TO RUN IN A MINIMUM AMOUNT OF TIME UNDER DEFAULT CONDITION. THE PROGRAM CAN CHECK ALL MEMORY STORAGE ELEMENTS HITHIN THE MEMORY UNIT EXCEPT THE FIRST BK OF THE LOHEST ADDRESSABLE MEMORY UNIT. HRITE LOCK OPERATION IS ALSO VERIFIED. COMMENTS:

PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THE FIRST 8K OF MEMORY STORAGE IS NORMALLY TESTED BY THE TAURUS MARDCORE PROGRAM. THE MEMORY TEST
ASSUMES THAT THE BASIC PROCESSOR TEST (AUTO) HAS OR CAN BE SUCCESSFULLY EXECUTED. THE MEM PROGRAM !!
INTERFACED TO THE COMMUNICATIONS CONTROL PROGRAM (CCP) WHICH IS REQUIRED FOR PROGRAM LOADING AND
CONTROL. IT IS AVAILABLE ON MAGNETIC TAPE, CARDS, OR DISK PACK AND REQUIRES AT LEAST 18K OF MEMORY.

730004 XEROX 550/560 MAP DIAGNOSTIC PROGRAM

AUTHOR: XEROX CORPORATION ABSTRACT:

TAURUS MAP DIAGNOSTIC PROGRAM TESTS THE REAL ADDRESS CALCULATION LOGIC AND ACCESS PROTECTION LOGIC IN ALL THE MAPPED ADDRESSING MODES. COMMENTS:

PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.
THE MAP PROGRAM IS INTERFACED TO THE COMMUNICATIONS CONTROL PROGRAM (CCP) HHICH IS REQUIRED FOR PROGRAM
LOADING AND CONTROL. IT IS AVAILABLE ON MAGNETIC TAPE, CARDS OR DISK PACK AND REQUIRES AT LEAST 18K OF

S XEROX 550/560 AUTHOR:XEROX CORPORATION 730005 HIOP DIAGNOSTIC PROGRAM

STRACT:
THIS DIAGNOSTIC MAY BE RUN AS EITHER PART OF THE DPS LOAD AND GO SYSTEM, OR AS A FREE-STANDING,
FUNCTIONAL MIDP UNIT DIAGNOSTIC. IN ADDITION TO TESTING THE TAURUS MIDP, THIS PROGRAM TESTS THE MI AND
PI IN SO FAR AS THESE ARE UTILIZED IN AN ALL IDP CLUSTER. THE PRIMARY OBJECTIVE OF THIS PROGRAM IS TO
DETECT ALL SINGLE SOLID FAILURES, ISOLATE THESE TO THE FAILING UNIT, AND IDENTIFY THE MINIMUM FAILING
MODULE SET MITHIN THAT UNIT. THIS PROGRAM HAS A MODULE/DRIVER STRUCTURE AND A FORMAT SIMILAR TO OTHER
TAURUS MAINFRAME DIAGNOSTICS. ITS OPERATION IS ACCOMPLISHED VIA THE STANDARD TAURUS COMMON COMMUNICATIONS PROGRAM.

THIS PROGRAM HILL RUN UNDER CCP OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN

THIS PROGRAM HILL RUN UNDER CEP DEPARTING STSTEM. PROURAM THE IS DIRORUSTIC. BASE LANGUAGE HAIN
PROGRAM IS HRITTEN IN METASYMBOL.
THIS PROGRAM REQUIRES NO ADDITIONAL SOFTHARE, BUT REQUIRES THE FOLLOHING HINIMUM HARDMARE CONFIGURATION:
CR, HT, RAD OR DISK AS LOAD DEVICE; A TAURUS MIOP HHICH IS TO BE TESTED; AN ALTERNATE IOP THRU HHICH TO
PERFORM LOADING AND PROGRAM I/O, OF THE TEST IOP IS INOPERABLE; AT LEAST 16K OF CORE; A NON-SUSPECT DATA
PATH TO TTYCHA OR TTYCHB; EITHER AN SA OR A CI ATTACHED TO THE 10P UNDER TEST; AND AN OPERABLE BP, MI

730006 6 XEROX 550/560 AUTHOR: XEROX CORPORATION INTERRUPT SYSTEM DIAGNOSTIC PROGRAM

ABSTRACT: ISTRACT:
THIS DIAGNOSTIC MAY BE RUN AS EITHER PART OF DPS LOAD AND GO, OR AS A FREE-STANDING, FUNCTIONAL
INTERRUPT UNIT DIAGNOSTIC. TESTS CHECK DIO CONTROL, PRIORITY AND TO SOME EXTENT, REAL INTERRUPT
VALIDITY. THE GOAL OF THIS PROGRAM IS TO DETECT ALL SINGLE SOLID FAILURES, ISOLATE THESE TO THE FAILING
UNIT, AND IDENTIFY THE MINIMUM FAILING MODULE SET HITHIN THAT UNIT. THIS PROGRAM HAS A MODULE/DRIVER
STRUCTURE AND A FORMAT SIMILAR TO OTHER TAURUS MAINFRAME DIAGNOSTICS. ITS OPERATION IS ACCOMPLISHED VIA
THE STANDARD TAURUS COMMON COMMUNICATIONS PROGRAM.

COMMENTS:

IMMENTS:
THIS PROGRAM HILL RUN UNDER CCP OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN
PROGRAM IS HRITTEN IN METASYBMOL.
THIS PROGRAM REQUIRES NO ADDITIONAL SOFTHARE, BUT REQUIRES THE FOLLOHING MINIMUM MARDMARE CONFIGURATION:
CR, MT, RAD OR DISK AS LOAD DEVICE: AT LEAST THE MINUMUM SET OF 22 INTERRUPTS (THOUGH ANY AND ALL
OPTIONAL INTERRUPTS HILL BE TESTED IF IMPLEMENTED; A NON-SUSPECT 10P AND DATA PATH TO EITHER TTYCHA OR
TTYCHB FOR PROGRAM COMMUNICATIONS AND CONTROL: 18K OF CORE: AND AN OPERABLE BP, MI, PI AND SU.

SOFTHARE HARDCORE (SHC) DIAGNOSTIC XEROX 550/560 730008

AUTHOR: XEROX CORPORATION

ABSTRACT:
THE SMC PROGRAM IS DESIGNED TO VALIDATE A SET OF INSTRUCTIONS BEFORE THEY ARE USED BY THE DIAGNOSTIC PROGRAMS THAT FOLLOW. SHC IS THE FIRST PROGRAM ON THE DIAGNOSTIC LIBRARY TAPE. IT IS ASSEMBLED SOCM. IT LOADS ONE CARD AT A TIME INTO X'100' AND EXECUTES THAT CODE BEFORE CALLING THE NEXT CARD. COMMENTS.

PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.
THE SHC PROGRAM DOES NOT REQUIRE A LOADER. IT LOADS DIRECTLY FROM THE HARDHARE BOOT. IT MAY PRECANY BINARY DECK SINCE IT RESTORES THE ENVIRONMENT BEFORE IT EXITS. OPERATION IS DESCRIBED IN THE

SYS UNIT/PROCS INTRFACE UNIT DIAG-SUPI 9 XEROX 550/560 AUTHOR:XEROX CORPORATION

ABSTRACT:
THE TAURUS SYSTEM UNIT/PROCESSOR INTERFACE DIAGNOSTIC PROGRAM IS USED TO TEST A PORTION OF THE LOGIC OF
THE INPUT/OUTPUT AND DIRECT INPUT/OUTPUT INSTRUCTION THAT IS CONTAINED IN THE 8P. SU, AND PI PROCESSORS.
IT INTERFACES HITH THE MONITOR/LAG PROGRAM THAT USE ONLY THE HARDCORE INSTRUCTIONS. THIS FOP CONTAINS
THE FUNCTIONAL TEST SUBROUTINES, INDIVIDUAL TEST HODULES AND ALL NECESSARY DATA TO INTERFACE HITH THE
DPS OPERATING SYSTEM.

THIS PROGRAM WILL RUN UNDER DPS OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. THIS FOP REQUIRES A MINIMUM TAURUS HARDHARE SYSTEM WITH AT LEAST 16K OF MEMORY.

SYSTEM EXERCISER DIAGNOSTIC (SYSX) 730010 XEROX 550/560

AUTHOR: XEROX CORPORATION

ABSTRACT:
THE DPS SYSTEM EXERCISER PROVIDES THE USER HITH THE CAPABILITY TO OPERATE EVERY UNIT ON ANY SYSTEM
SIMULTANEOUSLY. THE PROCESSOR CREATES A MAXIMUM LOAD WHILE APPROACHING THE SYSTEM FAILURE THRESHOLD.
THE PROCESSOR INTERFACES WITH THE USER AND THE MONITOR.

COMMENTS: THIS PROGRAM HILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE HAIN PROGRAM IS WRITTEN IN METASYMBOL.

XEROX 550/560 XEROX 32-BIT LIBRARY LOADER 730011

AUTHOR: XEROX CORPORATION

ABSTRACT:
THE DPS LOADER IS USED TO LOAD OBJECT MODULES IN STANDARD METASYMBOL AND AP ASSEMBLER FORMAT. THE
LOADER INITALLY IS USED TO LOAD THE DPS MONITOR AND IS THEN USED BY THE MONITOR TO LOAD DPS DIAGNOSTIC

COMMENTS: THIS PROGRAM HILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE Main program is written in metasymbol. 730012 XEROX 550/560 DIAGNOSTIC PROGRAM SYSTEM MONITOR

AUTHOR: XEROX CORPORATION ABSTRACT:

THE DPS MONITOR MANDLES ALL COMMUNICATIONS BETHEEN THE OPERATOR AND THE CURRENTLY RESIDENT PROCESSOR PROGRAM (EDIT, LOAD-AND-GO, OR SYSTEM EXERCISER). THE MONITOR ALSO HANDLES TRAPS, INTERRUPTS, LOADING, AND ERROR AUDITING.

THIS PROGRAM HILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

730013 XEROX 550/560

AUTHOR: XEROX CORPORATION

LOAD-AND-GO (LAG) DIAGNOSTIC PROG. SYS.

ABSTRACT:

THE DPS LOAD-AND-GO PROCESSOR PROVIDES THE USER HITH THE HEARS OF SELECTIVELY CONTROLLING THE SEQUENTIAL LOADING AND EXECUTION OF THE FUNCTIONAL DIAGNOSTIC PROGRAMS. THE LAG INTERFACES BETHEEN THE MONITOR AND THE FTP'S.

THIS PROGRAM HILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

XEROX 550/560

32-BIT EDIT DIAGNOSTIC SYSTEM PROGRAM

AUTHOR: XEROX CORPORATION

ABSTRACT:
THE DPS EDIT PROCESSOR PROVIDES THE USER WITH THE MEANS TO COPY A DPS LIBRARY FROM A LOAD DEVICE TO A
SOURCE DEVICE WHILE EXECUTING THE USER'S REQUESTS. THE EDIT INTERFACES BETHEEN THE MONITOR AND THE USER. COMMENTS:

THIS PROGRAM HILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

XEROX 550/560 MEDIUM SPEED MAGNETIC TAPE DIAGNOSTIC 730016

AUTHOR: XEROX CORPORATION

ABSTRACT:

THE PROGRAM VERIFIES THE OPERATION OF THE MAGNETIC TAPE I/O SUBSYSTEM CONSISTING OF THE MODEL 3340 MAGNETIC TAPE CONTROLLER AND THE MODEL 3344 THROUGH 3347 MAGNETIC TAPE DRIVES. THE FUNCTIONAL TESTS ARE DESIGNED TO DETECT AND ISOLATE FAILURES IN THE I/O SUBSYSTEM. A SET OF UTILITY TEST IS PROVIDED TO AID IN THE PERFORMANCE OF CORRECTIVE AND PREVENTIVE MAINTENANCE.

THIS PROGRAM HILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. RASE LANGUAGE THIS PROGRAM IS HRITTEN IN METASYMBOL.

THE PROGRAM IS INTERFACED TO THE XEROX 580 LOAD AND GO (LAG) PROGRAM AND THE XEROX 580 DIAGNOSTIC PROGRAM MONITOR (DPS) MEMORY REQUIREMENT IS 18K.

XEROX 550/560 LINE PRINTER DIAGNOSTIC PROGRAM

AUTHOR: XEROX CORPORATION

ABSTRACT:

THE PROGRA VERIFIES THE OPERATION OF THE NS LINE PRINTER 1/O SUBSYSTEM CONSISTING OF A UNIT RECORD CONTROLLER (URC), LINE PRINTER ADAPTER (LPA), AND A LOW, MEDIUM, OR HIGH SPEED LINE PRINTER. THE FUNCTIONAL TESTS ARE DESIGNED TO DETECT AND ISOLATE FAILURES IN THE 1/O SUBSYSTEM. A SET OF UTILITY TESTS IS PROVIDED TO AID IN THE PERFORMANCE OF CORRECTIVE AND PREVENTIVE MAINTENANCE. COMMENTS:

THIS PROGRAM HILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.
THE PROGRAM IS INTERFACED TO THE XEROX 580 LOAD AND GO (LAG) PROGRAM AND THE XEROX 580 DIAGNOSTIC PROGRAM MONITOR (DPS). MEMORY REQUIREMENT IS 16K.

21 XEROX 550/560 AUTHOR:XEROX CORPORATION 730021 TRAP DIAGNOSTIC PROGRAM

COMMENTS:

ABSTRACT:
THIS DIAGNOSTIC PROGRAM INCORPORATES FUNCTIONAL TESTS TO VERIFY THE XEROX 550/560 TRAP SYSTEM 18
OPERATING PROPERLY. IT DETECTS HARD FAILURES AND ISOLATES HARDHARD MALFUNCTIONS TO A MINIMUM SET OF

THIS PROGRAM HILL RUN UNDER DPS OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.
THIS FOP REQUIRES A XEROX 550/560 SYSTEM AND THE DPS FOR PROPER EXECUTION OF THE PROGRAM.

730022 XEROX 550/560 POHER FAIL-SAFE (PFS) DIAGNOSTIC PROGRAM

AUTHOR: XEROX CORPORATION

ABSTRACT:

THIS DIAGNOSTIC PROGRAM INCORPORATES FUNCTIONAL TESTS TO VERIFY THAT XEROX 550/560 PFS SYSTEM IS OPERATING PROPERLY. IT DETECTS HARDHARE FAILURES AND ISOLATES FAULTS TO A MINIMUM SET OF HARDHARE MODULES.

THIS PROGRAM HILL RUN UNDER DPS OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN MAP.

THE PFS DIAGNOSTIC PROGRAM REQUIRES XEROX 550/560 SYSTEM AND THE DPS FOR PROPER EXECUTION OF THE PROGRAM.

BYTE INSTRUCTION DIAGNOSTIC PROGRAM 730023 XEROX 560
AUTHOR: XEROX CORPORATION

ABSTRACT ISTRACT:
THE XEROX 580 BYTE STRING DIAGNOSTIC IS A MODULE DRIVER, DIAGNOSTIC PROGRAM SYSTEM INTERFACED PROGRAM.
THIS PROGRAM TESTS THE BYTE STRING INSTRUCTIONS. BYTE STRING DETECTS MARD FAULTS IN THE BASIC PROCESSOR
UNIT AND ISOLATES THE FAULT TO THE MINIMUM NUMBER OF MODULES POSSIBLE. THE BYTE STRING INSTRUCTIONS
TESTED ARE: MBS, CBS, TBS, AND TTBS.

COMMENTS: THIS PROGRAM HILL RUN UNDER DPS OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN THIS PROGRAM IS HRITTEN IN AP.
THE BYTE STRING DIAGNOSTIC PROGRAM REQUIRES THE XEROX 580 SYSTEM AND THE XEROX 550/580 DIAGNOSTIC PROGRAM SYSTEM FOR PROPER PROGRAM EXECUTION.

XEROX 580 AUTHOR: XEROX CORPORATION DECH DIAGNOSTIC PROGRAM 730024

STRACT:
THE XEROX 580 DECIMAL DIAGNOSTIC IS A MODULE DRIVER, DIAGNOSTIC PROGRAM SYSTEM INTERFACED PROGRAM.
DECIMAL DETECTS HARD FAILURES IN THE EXTENDED ARITHMETIC UNIT FOR THE DECIMAL INSTRUCTIONS AND ISOLATES
THE FAULT TO THE HINIMUM NUMBER OF MODULES POSSIBLE. THE PROGRAM TESTS THE DECIMAL INSTRUCTIONS: OL,
DST, DA, DS, DM, DD, DC, DSA, PACK, UNPK, AND EBS. ABSTRACT:

COMMENTS: THIS PROGRAM HILL RUN UNDER DPS OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN AP.
THE DECIMAL DIAGNOSTIC PROGRAM REQUIRES THE XEROX 580 SYSTEM AND THE XEROX 550/580 DIAGNOSTIC PROGRAM SYSTEM FOR PROPER EXECUTION.

S XEROX 560 AUTHOR: XEROX CORPORATION DIAGNOSTIC PROGRAM MAGNETIC TAPE LIBRARY 730025

ABSTRACT: ISTRACT:
THE DIAGNOSTIC PROGRAM MAG TAPE LIBRAY (DPSL) IS A MULTIPLE FILE MEDIA. EACH FILE CONSISTS OF ONE
DIAGNOSTIC PROGRAM. THE DPSL IS LOADED BY THE DPSL-LOADER WHICH IS PART OF DPSL. THE OPSL CONTROL
PROGRAM WILL LOAD ANY FILE ON REQUEST. THE COMPRESSED LIBRARY TAPE (-46) AND LISTING TAPE (-56) IS
AVAILABLE ONLY FROM FIELD ENGINEERING REGIONAL MANAGEMENT.

COMMENTS: THIS PROGRAM HILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE HAIN PROGRAM IS HRITTEN IN METASYMBOL. THE DPSL IS SPECIFICALLY DIRECTED TO A SYSTEM CONFIGURATION MHICH INCLUDES MAGNETIC TAPE. THE DPSL NEEDS A HINIHUM OF 18K.

SYSTEM CONTROL CONSOLE DIAGNOSTIC PROG. XEROX 550/560 730029

AUTHOR: XEROX CORPORATION

ABSTRACT: STRACT:
THIS SPECIFICATION DEFINES THE INPUT/OUTPUT DIAGNOSTIC PROGRAM (IOPD) FOR THE XEROX 550/560 SYSTEM
CONTROL CONSOLE (SCC) CONTROLLER AND THE TELETYPE MODEL 35 KSR OR DIABLO HYTYPE TERMINAL. THIS DOCUMENT
DESCRIBES ALL FUNCTIONAL TESTS AND ALL UTILITY TESTS OF THIS IOPD. THEY FEATURE COMMON TO ALL IOPDS ARE
DEFINED IN OTHER DOCUMENTS LISTED IN SECTION 2.0 AS A CONSEQUENCE, THIS SPECIFICATION DEALS ONLY HITH THE DESIGN UNIQUE TO THE SCC.

COMMENTS: THIS PROGRAM HILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE HAIN PROGRAM IS MRITTEN IN AP.

32-BIT I/O UTILITY PROGRAM 730030 XEROX 550/560

AUTHOR: XEROX CORPORATION

ABSTRACT:
THIS PROGRAM IS DESIGNED AS A TOOL FOR THE DEVELOPMENT, MANUFACTURING TEST, AND COMPUTER FIELD ENGINEER
TO DEFINE AND EXECUTE A SEQUENCE OF TEST STATEMENTS FOR THE PURPOSE OF EXECUTING 1/0 DEVICE. THE 1/0
UTILITY LANGUAGE OF THIS PROGRAM IS DESIGNED TO ENABLE THE USER TO CONSTRUCT 1/0 PROGRAMS OF A DEDICATED
XEROX 32-BIT SYSTEM VIA A CONSOLE HITHOUT THE NEED TO BE IMMEDIATELY FAMILIAR HITH XEROX 32-BIT MACHINE
LANGUAGE AND TO EXECUTE THE PROGRAM. THE PROGRAM INCLUDES CONTROL AND UTILITY FUNCTIONS FOR PROGRAM DEBUGGING, SAVING AND LOADING.

COMMENTS: THIS PROGRAM HILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE Main program is mritten in metasymbol. 704004 SIGMA 5-9 KEYBOARD DISPLAY DIAGNOSTIC

AUTHOR: XEROX

ABSTRACT:

THE DIAGNOSTIC PROGRAM FOR THE KEYBOARD DISPLAY IS ASSEMBLED WITH AND OPERATES UNDER THE CONTROL OF THE SIGMA 5/7 DIAGNOSTIC CONTROL PROGRAM (DCP). IT PROVIDES THE FOLLOWING FEATURES: A VERIFICATION OF THE COMMUNICATIONS INTERFACE, INCLUDING PRIMARY AND AUXILABLY KEYBOARDS AND ASSOCIATED CONTROL LOGIC, A VERIFICATION OF THE HARD COPY MONITOR FROM THE COMMUNICATIONS INTERFACE,+ SEVERAL DISPLAY PATTERNS FOR THE ALIGNMENT OF THE ANALOG CIRCUITRY. COMMENTS:

REQUIRED CONFIGURATION: A SIGMA 5 OR 7 HITH 8K OF MEMORY A CARD OR PAPER TAPE READER, A KEYBOARD/PRINTER, A CHARACTER ORIENTED COMMUNICATIONS (COC) CONTROLLER (HITH DIG INTERFACE, THO LEVELS OF EXTERNAL INTERRUPTS, AND PROPER SEND/RECEIVE MODULES FOR INTERFACE HITH A KEYBOARD DISPLAY) AND A KEYBOARD DISPLAY. THO COMPATIBLE DATA SETS ARE REQUIRED, IF THE KEYBOARD DISPLAY IS TO BE REMOTED. A LINE PRINTER IS OPTIONAL.

704017 SIGMA 5/7

AUTHOR: XEROX

REAL-TIME CLOCK TEST

ABSTRACT:

TO PROVIDE A MEANS OF VERIFYING THE OPERATION OF THE REAL TIME CLOCKS BY COMPUTING THE :TIME OF DAY: OR :ELAPSED TIME:.

COMMENTS:

REQUIRED CONFIGURATION: SIGMA 5 OR SIGMA 7 COMPUTER WITH 4K OR MORE MEMORY, KEYBOARD/PRINTER, CARD READER OR PAPER TAPE READER AND ONE OR MORE REAL TIME CLOCKS.

SIGMA 5 704018

INTEGRAL IOP CHANNEL TEST PROGRAM

AUTHOR: XEROX ABSTRACT

STRAUT:
THIS DIAGNOSTIC TEST PROGRAM HILL OPERATE AS A FREE STANDING PROGRAM HITH THE JX58 TESTER. THE FIRST
PART OF THE PROGRAM HILL TEST THE RD(READ DIRECT)/HD(HRITE DIRECT) INTERFACE. THE SECOND PART OF THE
TEST HILL EXERCISE ALL THE FUNCTIONS OF THE INTEGRATED TOP BY SIMULATING THE DEVICE CONTROLLER WITH THE
JX58 TESTER. THE THO PARTS OF THE PROGRAM ARE INDEPENDENT OF EACH OTHER (I.E. RUNNING ONE PART DOES NOT
NECESSITATE RUNNING THE OTHER PART).

CONFIGURATION: SIGMA 5 CPU, CARD READER OR PAPER TAPE READER, JX58 TESTER.

704029 SIGMA 5/7 FORMAT CONVERTER - CPU LOADER DOC.

AUTHOR: XEROX

CONVERTS OBJECT DECKS INTO SPECIAL BINARY FORMAT INCLUDING A LOADER. DOCUMENTATION COVERS THE LOADER HHICH IS USED FOR MOST OF THE SIGHA 5/7 CPU DIAGNOSTIC PROGRAMS.

REQUIRES 18K OF CORE, A CARD READER AND CARD PUNCH HITH DEVICE ADDRESSES OF 03 AND 04 RESPECTIVELY.

704042 SIGMA 5/7 CPU DIAGNOSTIC SYSTEM (VERIFY)

AUTHOR: XEROX ABSTRACT:

TESTS AND DIAGNOSES ERRORS PERTAINING TO LPSD, XPSD, LW, STW, BCS, BCR, WAIT, AND, EOR, BIR INSTRUCTIONS.

THIS PROGRAM HILL RUN ON ANY CONFIGURATION. OCCUPIES 2514 DECIMAL LOCATIONS. TECHNICAL MANUAL IS 900870 (SIGMA 7 VERIFY DIAGNOSTIC PROGRAM MANUAL). THIS PROGRAM IS PROVIDED IN A SPECIAL BINARY FORMAT, AND INCLUDES ITS OWN LOADER (704028-83,-84). TO GENERATE THE PROGRAM IN THIS FORM FROM THE BINARY OUTPUT OF THE ASSEMBLER, THE FOLLOHING STEPS MUST BE TAKEN: LOAD CPU DIAG ABS BIN CONV (704029) INTO SIGMA 7 OR SIGMA 7 SIMULATOR. THEN LOAD VERIFY. TRANSFER CONTROL TO LOCATION 2700. A HALT WILL OCCUR. ENTER INTO REG. S 2 THRU 4, FIRST ADDRESS, LAST ADDRESS AND STARTING ADDRESS OF PROGRAM TO BE DUMPED. THEN CLEAR THE HALT. THE LOAD CARD IS AUTOMATICALLY GENERATED.

704043

CPU DIAGNOSTIC SYSTEM (PATTERN)

3 SIGMA 5/7 AUTHOR:XEROX CORPORATION

ABSTRACT:

BSTRACT:
THE OBJECT OF THIS PROGRAM IS AID THE OPERATOR IN TESTING OR DIAGNOSING FAILURES ASSOCIATED HITH THE CPU:S ABILITY TO ADDRESS AND ACCESS ALL AVAILABLE CORE MEMORY, AND THE FIRST BLOCK OF FAST MEMORY. THE PROGRAM TESTS THE ABILITY TO ACCESS MEMORY BY STORING AND THEN CHECKING THE CONTENTS OF EACH MEMORY CELL. THE PROGRAM TESTS THE ABILITY TO ADDRESS MEMORY BY TRANSFERRING TO EACH MEMORY CELL AND CHECKING THE ADDRESS OF THE NONEXISTENT INSTRUCTION IN A TRAP RUUTINE. THE PROGRAM IS LOADED USING THE STANDARD BINARY DIAGNOSTIC LOADER. THE FUNCTIONS AND OPERATIONS TESTED BY AUTO (704044) MUST BE MORKING BEFORE PATTERN IS RUN.

DMMENTS:
THIS PROGRAM HILL RUN ON ANY CONFIGURATION. TECHNICAL MANUAL IS 900891 (SIGMA 7 PATTERN DIAGNOSTIC PROGRAM MANUAL). PATTERN OCCUPIES 256 DECIMAL LOCATIONS. THIS PROGRAM IS PROVIDED IN A SPECIAL BINARY FORMAT, AND INCLUDES ITS OHN LOADER (704043-83,-84). TO GENERATE THE PROGRAM IN THIS FORM FROM THE BINARY OUTPUT OF THE ASSEMBLER, THE FOLLOHING STEPS MUST BE TAKEN: LOAD CPU DIAG ABS BIN CONY (704029) INTO SIGMA 7 OR SIGMA 7 SIMULATOR. THEN LOAD PATTERN. TRANSFER CONTROL TO LOCATION 2700. A MALT MILL OCCUR. ENTER INTO REG.'S 2 THRU 4, FIRST ADDRESS, LAST ADDRESS AND STARTING ADDRESS OF PROGRAM TO BE DUMPED. THEN CLEAR THE HALT. THE LOAD CARD IS AUTOMATICALLY GENERATED.

704044 SIGMA 7

CPU DIAGNOSTIC SYSTEM (AUTO)

AUTHOR: XEROX

THIS PROGRAM AIDS THE OPERATOR IN TESTING OR DIAGNOSING FAILURES ASSOCIATED WITH ALL SIGMA 7
INSTRUCTIONS EXCLUDING DECIMAL, FLOATING POINT, BYTE STRING, STACK, MULTIPLE AND CONVERT INSTRUCTIONS.
THE OPERATIONS AND FUNCTIONS TESTED BY VERIFY (704042) MUST BE MORKING BEFORE AUTO IS RUN.

THIS PROGRAM IS PROVIDED IN A SPECIAL BINARY FORMAT WHICH INCLUDES A SELF-LOADER (704044-74). TO GENERATE THE PROGRAM IN THIS FORM FROM THE BINARY OUTPUT OF THE ASSEMBLER, THE FOLLOWING STEPS MUST BE TAKEN: LOAD CPU DIAG ASS BIN CONY (704029) INTO SIGMA 7 SIMULATOR. THEN LOAD AUTO. TRANSFER CONTROL TO LOCATION 2700. A HALT WILL OCCUR. ENTER INTO REG'S 2 THRU 4, FIRST ADDRESS, LAST ADDRESS AND STARTING ADDRESS OF PROGRAM TO BE DUMPED. THEN CLEAR THE HALT. THE LOAD CARD IS AUTOMATICALLY GENERATED. THIS PROGRAM HILL RUN ON ANY CONFIGURATION. TECHNICAL MANUAL IS 900872 (SIGMA 7 AUTO DIAGNOSTIC PROGRAM MANUAL). AUTO OCCUPIES 6400 DECIMAL LOCATIONS.

704045 SIGMA 7

CPU DIAGNOSTIC SYSTEM (SUFFIX)

AUTHOR: XEROX ABSTRACT:

STRACT:
THE OBJECT OF THIS PROGRAM IS TO AID THE OPERATOR IN TESTING OR DIAGNOSING FAILURES ASSOCIATED WITH ALL
SIGMA 7 BYTE STRING (EXCLUDING EDIT BYTE STRING), STACK, MULTIPLE AND CONVERT INSTRUCTIONS. THE PROGRAM
CONSISTS OF A 'DRIVER PROGRAM' AND A 'DATA FIELD. THE DATA FIELD IS COMPRISED OF MANY DATA BLOCKS, EACH
OF WHICH CONTAIN PRE-SETTINGS OF PROGRAMMABLE REGISTERS, THE INSTRUCTION TO BE TESTED AND THE
PRE-DETERMINED RESULT WITH WHICH TO TEST THE REGISTERS. THE DRIVER PROVIDES THE 'CONTROLS' TO USE THE
INFORMATION IN THE DATA FIELD FOR ERROR DETECTION AND DISPLAY. THE PROGRAM IS LOADED USING THE STANDARD
BINARY DIAGNOSTIC LOADER. THE FUNCTIONS AND OPERATIONS TESTED BY AUTO (704044) MUST BE WORKING BEFORE
SUFFIX IS RUN.

COMMENTS:
THIS PROGRAM HILL RUN ON ANY CONFIGURATION. TECHNICAL MANUAL IS 900893 (SIGMA 7 SUFFIX DIAGNOSTIC PROGRAM MANUAL). SUFFIX OCCUPIES 3645 DECIMAL LOCATIONS. THIS PROGRAM IS PROVIDED IN A SPECIAL BINARY FORMAT, AND INCLUDES ITS OHN LOADER(704045-83,-84). TO GENERATE THE PROGRAM IN THIS FORM FROM THE BINARY OUTPUT OF THE ASSEMBLER, THE FOLLOHING STEPS MUST BE TAKEN: LOAD CPU DIAG ABS BIN CONV (704029) INTO SIGMA 7 SIMULATOR. THEN LOAD SUFFIX. TRANSFER CONTROL TO LOCATION 2700. A MALT MILL OCCUR. ENTER INTO REG'S 2 THRU 4, FIRST ADDRESS, LAST ADDRESS AND STARTING ADDRESS OF PROGRAM TO BE DUMPED. THEN CLEAR THE HALT. THE LOAD CARD IS AUTOMATICALLY GENERATED.

704046

SIGMA 5/7

CPU DIAGNOSTIC SYSTEM (FLOAT)

AUTHOR: XEROX

ABSTRACT:
FLOAT IS DESIGNED TO TEST AND AID IN DIAGNOSING FAILURES ASSOCIATED HITH ALL FLOATING POINT INSTRUCTIONS
EXCEPT FLOATING SHIFT (SF). SUCCESSFUL EXECUTION OF SIGMA 7 AUTO (PROGRAM NO. 704044) IS A PREREQUISITE
TO THE EXECUTION OF FLOAT.

OMMENTS:
IT HILL RUN ON ANY CONFIGURATION THAT INCLUDES THE FLOATING POINT ARITHMETIC OPTION. TECHNICAL MANUAL IS 900898 (SIGMA 7 FLOAT DIAGNOSTIC PROGRAM HANUAL). FLOAT OCCUPIES 869 DECIMAL LOCATIONS. THIS PROGRAM IS PROVIDED IN A SPECIAL BINARY FORMAT AND INCLUDES ITS OWN LOADER. (704046-83,-84) TO GENERATE THE PROGRAM IN THIS FORM FROM THE BINARY OUTPUT OF THE ASSEMBLER, THE FOLLOWING STEPS MUST BE TAKEN: LOAD CPU DIAGES BIN CONV (704029) INTO SIGMA 7 OR SIGMA 7 SIMULATOR. THEN LOAD FLOAT. TRANSFER CONTROL TO LOCATION 2700. A HALT HILL OCCUR. ENTER INTO REG. 'S 2 THRU 4, FIRST ADR, LAST ADR AND STARTING ADR. CLEAR THE HALT. THE LOAD CARD IS AUTOMATICALLY GENERATED.

704047 SIGMA 7

CPU DIAGNOSTIC SYSTEM (DECIMAL)

AUTHOR: XEROX ABSTRACT:

DECIMAL IS DESIGNED TO TEST ALL SIGMA 7 DECIMAL INSTRUCTIONS INCLUDING PACK, UNPACK AND EDIT BYTE STRING. SIGMA 7 AUTO (704044) IS A PREREQUISITE.

COMMENTS:
REQUIRES THE DECIMAL OPTION AND A CARD OR PAPER TAPE INPUT DEVICE. THIS PROGRAM IS IN A SPECIAL BINARY
FORMAT HHICH INCLUDES A LOADER. REFERENCE PUBLICATION 901584 - SIGMA 5/7 CPU FORMAT CONVERTER / CPU
LOADER DOCUMENTATION.

704048

CPU DIAGNOSTIC SYSTEM (MAP)

AUTHOR: XEROX

THIS PROGRAM AIDS THE OPERATOR IN TESTING OR DIAGNOSING FAILURES ASSOCIATED WITH THE MAP, THE MEMORY PROTECT SYSTEMS, THE PROGRAM CONTROL SYSTEM, AND ALL FUNCTIONS OF THE LMAP, LPC AND LLOCKS INSTRUCTIONS.

OMMENTS:
THIS PROGRAM IS PROVIDED IN A SPECIAL BINARY FORMAT, AND INCLUDES ITS OWN LOADER.(70408-83,-84) TO GENERATE THE PROGRAM IN THIS FORM FROM THE BINARY OUTPUT OF THE ASSEMBLER, THE FOLLOHING STEPS MUST BE TAKEN: LOAD 'CPU DIAG ABS BIN CONY' (704029) INTO SIGMA 7 OR SIGMA 7 SIMULATOR. THEN LOAD MAP . TRANSFER CONTROL TO LOC. 2700. A HALT HILL OCCUR. ENTER INTO REG. 2 THRU 4:FIRST, LAST AND STARTING ADDRESSES OF MAP . THEN CLEAR MALT. THE LOAD CARD IS AUTOMATICALLY GENERATED. THIS PROGRAM IS PART OF '704040. IT HILL RUN ON ANY CONFIGURAT. EQUIPPED WITH THE MAP OR MEMORY PROTECTION OPTIONS. TECHNICAL MANUAL IS 900920 (SIGMA 7 MAP DIAGNOSTIC PROGRAM MANUAL). MAP OCCUPIES 450 DECIMAL LOCATIONS.

704057

SIGHA 5/7

HULTIPLEX TOP DIAGNOSTIC (HIOP)

AUTHOR: XEROX CORPORATION ABSTRACT:

SIGMA 7

THE PURPOSE OF THIS PROGRAM IS TO MAKE ADVAILABLE A MULTIPLEXING 10P DIAGNOSTIC TEST INDEPENDENT OF A PERIPHERAL DEVICE. THE PROGRAM OPERATES IN THE ENVIRONMENT OF A XDS JX58 TESTER.

OMMENTS: Required configuration - Sigma with 4k memory, multiplexing 10p amo an XDS JX58 Tester.

REPRINT 75.02

PAGE 2 - 01/31/75

MEMORY PROTECT DIAGNOSTIC SIGMA 5/7 704062

AUTHOR: XEROX

ABSTRACT:
CHECKS THAT ALL COMBINATIONS OF THE HRITE LOCKS AND HRITE KEYS GENERATE THE PROPER RESPONSE FOR EACH
BLOCK OF MEMORY ADDRESSES THE COUNTER PULSE INTERRUPTS ARE USED TO TEST INSTRUCTION INTERRUPTIBILITY.

REQUIRES A SIGMA 5 OR 7 COMPUTER HITH 8K OF MEMORY, A KEYBOARD PRINTER AND A CARD READER OR PAPER TAPE

704067 SIGMA 5/7 MEMORY DIAGNOSTIC (MEDIC 75)

AUTHOR: XEROX

ABSTRACT:

MEDIC 75 CONSISTS OF AN EXECUTIVE ROUTINE AND FOURTEEN INDIVIDUAL MEMORY TESTS WHICH ARE EACH DESIGNED TO PERFORM A DISCRETE MEMORY TESTING FUNCTION. THE INDIVIDUAL TESTS ARE CONTROLLED BY THE EXECUTIVE ROUTINE, WHICH IN ADDITION TO CONTROLLING THE TEST SEQUENCE AND SELECTION, MONITORS ALL OPERATOR REQUESTS, PERFORMS THE PRINTING OPERATIONS FOR ALL TESTS, AND RELOCATES MEDIC 75 TO ALTERNATE AREAS OF CORE SO THAT THE ENTIRE MEMORY MAY BE TESTED.

MEDIC 75 OCCUPIES 888 DECIMAL LOCATIONS. IT HILL RUN ON ANY CONFIGURATION THAT INCLUDES 8K OF MEMORY OR MORE. TECHNICAL MANUAL IS 900825.

DIAGNOSTIC CONTROL PROGRAM (DCP) 704070 SIGMA 5-9

AUTHOR: XEROX

ABSTRACT:

PROVIDES PROGRAM INTERFACE BETHEEN OPERATOR AND SUBROUTINES (VIA SYNTACTICAL TEST LANGUAGE)ASSEMBLED AS AN INTEGRAL PART OF THE DCP TO ACTIVATE AND CONTROL A SPECIFIC PERIPHERAL DEVICE THE DCP IS CATALOGUED AS A REFERENCE FOR PROGRAMS ASSEMBLED HITH AND OPERATED HITHIN THE ENVIRONMENT OF THE DCP. COMMENTS:

MINIMUM COMPUTER CONFIGURATION: MEMORY 4K OR DEPENDENT UPON INTERFACED PROGRAM, KEYBOARD/PRINTER, PAPER TAPE OR CARD READER FOR INPUT MEDIA, HARDHARE OPTIONS NOT REQUIRED PROGRAM DESCRIPTION: APPROXIMATELY 50 PAGES PROGRAM LISTING: APPROXIMATELY 50 PAGES

HEHORY INTERLEAVING TEST 704121 SIGMA 5/7

AUTHOR: XEROX

ABSTRACT:

STRACT:

VERIFIES THE SUCCESSFUL OPERATION OF MEMORY INTERLEAVING.OR: TO DETECT ERRORS DUE TO INTERLEAVING

DIFFICULTIES CAUSED BY PROGRAM GENERATED 'HORST ACCESS' PATTERNS. THE FIRST OF THO SECTIONS IS A MEMORY

ADDRESSING TEST. THE SECOND SECTION ATTEMPTS TO ACCESS BETHEEN INTERLEAVED MODULES AT THE FASTEST

POSSIBLE PROGRAMMABLE RATE. HIT IS MEANT TO SUPPLEMENT THE MEMORY DIAGNOSTIC 'HÖDIC 75' AND IS MOT

INTENDED TO BE A REPLACEMENT OR BRIEFER VERSION OF THE DIAGNOSTIC. HIT TESTS THE INTERLEAVING FEATURE

HHICH MEDIC 75 REQUIRES BE DISABLED. HIT SHOULD NEVER BE EXECUTED UNLESS MEDIC 75 IS KNOWN TO BE SUCCESSFULLY OPERATING.

REQUIRES MINIMUM OF BK CORE AND MUST INCLUDE THO OR FOUR INTERLEAVED MODULES MINIMUM. MIT OCCUPIES 72 DECIMAL LOCATIONS.

704122 SIGMA 5/7 POHER FAIL SAFE TEST

AUTHOR: XEROX ABSTRACT:

TO PROVIDE A MEANS OF VERIFYING THE POHER OFF-POHER ON INTERRUPTS AND MACHINE FUNCTIONS HHEM POHER FAILURE OCCURS

REQUIRED CONFIGURATION: SIGMA 5 OR SIGMA 7 COMPUTER WITH 4K OR MORE MEMORY, KEYBOARD/PRINTER, CARD READER OR PAPER TAPE READER AND POWER FAIL-SAFE OPTION (POWER OFF-POWER ON INTERRUPTS)

INTERRUPT DIAGNOSTIC (ID) 704143 SIOMA 5/7

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE A COMPREHENSIVE DIAGNOSTIC PROGRAM FOR CHECKOUT AND TESTING OF THE FOLLOWING INTERRUPTS - 1.
OVERRIDE GROUP (EXCLUDING POWER FAIL-SAFE) 2. COUNTER GROUP 3. INPUT/OUTPUT GROUP 4. EXTERNAL INTERRUPTS

REQUIRED CONFIGURATION - SIGMA HITH 4K MEMORY. AN XDS JX58 TESTER IS REQUIRED TO VERIFY THE EXTERNAL INTERRUPT INTERFACE.

SIGMA 5 CPU DIAGNOSTIC (SUFFIX) 704174 SIGHA 5

AUTHOR: XEROX

ABSTRACT:

TESTS LOAD MULTIPLE, STORE MULTIPLE, PUSH DOWN AND MMC INSTRUCTIONS. INTERRUPTIBILITY OF INSTRUCTIONS IS TESTED BY USING THE COUNTER PULSE INTERRUPTS. COMMENTS:

REQUIRES A SIGNA 5 COMPUTER WITH 8K OF MEMORY, A KEYBOARD PRINTER AND A CARD READER OR PAPER TAPE READER.

704287 SIGMA 5

CPU DIAGNOSTIC - AUTO

AUTHOR: XEROX CORPORATION

ABSTRACT:
TESTS THE MAJOR INSTRUCTION CATEGORIES SUCH AS LOAD, STORE, BRANCH, COMPARE, SHIFT AND FIXED POINT
ARTITHMETIC. TESTS INSTRUCTION INTERRUPTIBILITY BY USING THE COUNT PULSE INTERRUPTS. PROVIDES THE OPTION
TO TEST INSTRUCTION COMPATIBILITY HITH INTEGRAL IOP OPERATIONS.

COMMENTS

REQUIRES MINIMUM OF 8K CORE MEMORY. -73 AND -74 ARE FOR 8K SYSTEMS. -83 AND -84 ELEMENTS ARE FOR GREATER THAN 8K CONFIGURATIONS.

704340

S1GMA 5-9 CFE-3 TEST

AUTHOR: XEROX

ABSTRACT:
EXERCISES AND DIAGNOSES FAILURES IN THE CFE-3 HHILE FUNCTIONING HITHIN THE FRAMEHORK OF A SIGMA 5 OR SIGMA 7 SYSTEM ENVIRONMENT COMMENTS:

MINIMUM REQUIREMENTS: 1. 4K CORE 2. CARD READER OR PAPER TAPE READER 3. KEYBOARD PRINTER

704356

SIGMA 5-9 RELOCATABLE DIAGNOSTIC PROGRAM LOADER

AUTHOR: XEROX

ABSTRACT:

THIS LOADER LOADS THE OBJECT PROGRAM MEDIA GENERATED BY THE 'SIGMET' OR META-SYMBOL THO PASS ASSEMBLERS. THE OBJECT PROGRAM IS RESTRICTED TO ONE ABSOLUTE OR RELOCATABLE SECTION, HITH NO EXTERNAL REFERENCES OR DEFINITIONS AND PROVIDES LIMITED USAGE OF EXPRESSIONS PERMITTED IN SIGMA META-SYMBOL. THE OBJECT PROGRAM RELOCATION BIAS, IF DESIRED, IS SPECIFIED AT LOAD TIME. THE LOADER AUTOMATICALLY RELOCATES ITSELF TO THE LAST 128 MEMORY LOCATIONS. THE OBJECT PROGRAM TO BE LOADED MUST BE ORIGINED ABOVE 3F MEXADECIMAL.

COMPUTER CONFIGURATION: SIGMA 5 OR SIGMA 7 COMPUTER, 4K MEMORY, CARD READER OR 8 LEVEL PAPER TAPE READER.

704427

SIGHA 5/7

JT-14 PET UNIT TEST PATTERN CARD DECK

AUTHOR: XEROX

ABSTRACT:

BSTRACT:
PROVIDES TEST PATTERNS FOR TESTING THE SIGMA CARD READER, MODELS 7120/7121/7122/7140 HITH THE JT-14
PERIPHERAL EQUIPMENT TESTER (PET). 49 CARD TEST DECK CONSISTS OF 3 PARTS AS FOLLOWS: PART 1 - EBCDIC
PATTERN: CARDS 1 THRU 16 CONTAIN THE COMPLETE 256 EBCDIC CHARACTER CODE SET REPEATED 5 TIMES FOR TESTIMS
THE READ BEDCIC MODE. PART 2 - BINARY PATTERN: CARDS 17 THRU 48 CONTAIN 15 SETS OF A RECURSIVE 256 BYTE
PATTERN (HEX. 00-FF) FOR TESTING THE READ BINARY MODE. THE PET COUNTER IS USED TO COMPARE EACH BYTE.
PART 3 - INVALID PATTERN: CARD 49 CONTAINS 80 COLUMNS OF INVALID EBCDIC CODES (PUNCH COMBINATIONS IN
ROHS 1 THRU 7) FOR TESTING READER VALIDITY CHECKING LOGIC.

THEST OF THE CARD READER THE CARD READER OPERATING INSTRUCTIONS DIG. NO. 124775 - SIGMA CARD READER TEST PROCEDURES SEE THE CARD READER OPERATIONS/TECHNICAL MANUAL, 901068, FOR MORE INFORMATION.

704786 SIGMA 7 FREESTANDING CONSOLE EXAMINER (FACE)

AUTHOR: XEROX

ABSTRACT:

JSINAUI:
THE PROGRAM IS DESIGNED TO ASSIST IN DETECTING AND DIAGNOSING FAILURES ASSOCIATED WITH THE FREESTANDING
CONSOL. THE PROGRAM IS COMPRISED OF A MONITOR ROUTINE WHICH PROVIDES THE BASIC CONTROL AND OBJECT TEST
ROUTINES. THE PROGRAM HILL INDICATE MARDHARE FAULTS EITHER THROUGH UNIQUE ERROR MAITS OR KEYBOARD
PRINTER MESSAGES. FAULT ISOLATION IS PROVIDED THROUGH REFERENCE CHARTS INCLUDED IN THE PROGRAM
DOCUMENTATION.

704788

SIGMA 5/7

SELECTOR IOP TEST PROGRAM

AUTHOR: XEROX

ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A SELECTOR 10P DIAGNOSTIC TEST INDEPENDENT OF A PERIPHERAL DEVICE. THE PROGRAM OPERATES IN THE ENVIRONMENT OF A XDS JX58 TESTER.

REQUIRED CONFIGURATION: SIGMA 5 OR SIGMA 7 HITH 4K OR MORE OF MEMORY, PAPER TAPE READER OR CARD READER. KB/PRINTER OPTIONAL, SELECTOR IOP, AN XDS JX58 TESTER.

705292

SIGNA 5/7

4 BYTE HIOP TEST PROGRAM

AUTHOR: XEROX ABSTRACT:

THIS PROGRAM HILL PROVIDE THE USER HITH A MEANS OF TESTING AN XDS MODEL 8273/8473 MULTIPLEXING
INPUT/OUTPUT PROCESSOR (MIOP) INDEPENDENT OF THE PERIPHERAL ENVIRONMENT. PARAMETRIC INFORMATION MAY BE
INPUT AND TEST RESULTS MAY BE OUTPUT VIA THE PROCESSOR CONTROL PANEL OR A KEYBOARD/PRINTER DEPENDING
UPON THE USER'S REQUIREMENT.

REQUIRED CONFIGURATION:SIGMA 5/7 WITH 4K OF MEMORY, XDS MODEL 8273/8473 MULTIPLEXING INPUT/OUTPUT PROCESSOR, XDS MODEL JX58 DEVICE CONTROLLER SIMULATOR, AND A PAPER TAPE OR CARD READER FOR LOADING THE PROGRAM. OPTIONAL EQUIPMENT: A KEYBOARD/PRINTER FOR PROGRAM COMMUNICATION.

705295 SIGHA 5/7 STANFORD DMS10 DIRECT TO MEMORY DIAG.

AUTHOR: XEROX

ABSTRACT:

THIS SIGMA 5/7 DIAGNOSTIC FOR THE STANFORD DMSID DIRECT MEMORY INTERFACE SYSTEM PROVIDES A METHOD OF TESTING, ADJUSTING, AND DEMONSTRATING THE 3 CONTROLLERS IN THE DMSID. ALL ANALOG INPUT AND OUTPUT TEST SUBROUTINES ARE DESIGNED TO OPERATE HITHIN THE ENVIRONMENT OF THE SIGMA 5/7 DIAGNOSTIC CONTROL PROGRAM (DCP) XDS MANUAL NO. 900712

EQUIPMENT: ANY XDS SIGMA 5/7 HITH MINIMUM OF 8K MEMORY, HITH A MEMORY PORT DEDICATED TO THE USE OF THE DMSIO, A DMSIO HITH DAC CONTROLLER OPTIONAL, A CONSOLE TYPEHRITER. ON SIGMA 5, MODEL 8270 EXTERNAL INTERFACE FEATURE.

705358 SIGMA 5/7 CCS-20 DIAGNOSTIC PROGRAM WITH HANDLERS

AUTHOR: XEROX

ABSTRACT:

THE CCS-20 DIAGNOSTIC PROGRAM HILL TEST AND EXERCISE THE XDS MODEL CCS-20 COMPUTER TO COMPUTER HIGH SPEED DATA LINK. THIS PROGRAM IS RUN IN CONJUNCTION HITH THE SIGMA 2 CCS-20 DIAGNOSTIC.

705390

SIGHA 5/7

MULTI-PROCESSOR EXERCISER

AUTHOR: XEROX

ABSTRACT

EXERCISES ALL CPUS IN A MULTI-PROCESSOR CONFIGURATION WITH EACH CPU SEQUENTIALLY USING ALL OF ITS

COMMENTS:

CONFIGURATION IS A SIGMA 5 OR 7 MULTI-PROCESSOR HITH UP TO 4 CPUS. AT LEAST ONE CPU MUST CONTROL AN IOP HITH CARD READER OR PAPER TAPE AND THAT CPU (MASTER) MUST SHARE SOME MEMORY HITH EACH OF THE OTHER CPUS (SLAVES). PREREQUISITE: ALL STAND-ALONE CPU DIAGNOSTICS MUST HAVE RUN SUCCESSFULLY ON EACH CPU.

705428

SIGMA 5/7

192 CHAR POTTER LINE PRINTER TEST PROG.

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM IS A REVISION OF THE XDS SIGMA LINE PRINTER TEST PROGRAM 704777-800 TO ALLOH IT TO OPERATE THE 192 CHARACTER POTTER LINE PRINTER. ALL DIRECTIVES IN 704777 ARE INCLUDED IN THIS PROGRAM. ONE NEW DIRECTIVE HAS BEEN ADDED TO DEMONSTRATE THE OVERPRINTING CAPABILITIES.

705663

SIGHA 5/7

BADGE READER DIAGNOSTIC PROGRAM

AUTHOR: XEROX

AUTHOR: XEROX
ABSTRACT:
THIS IS A DIAGNOSTIC PROGRAM USED TO TEST AND EXERCISE THE SPECIAL BADGE READER TERMINAL MORKING THRU
THE COCC ON THE SIGMA 5/7. IT OPERATES UNDER CONTROL OF THE DIAGNOSTIC CONTROL PROGRAM AND INCLUDES
DIRECTIVES AND OPERATIONAL PROCEDURES FOR CHECKING OUT THE BADGE READER, THUMBHHEEL SHITCHES AND CARD

705668

SIGMA 5

CHECK OUT AID AND READINESS TEST (CART)

AUTHOR: XEROX ABSTRACT:

INTERRUPTS, INPUT DATA ERRORS, AND TIME/QUALITY HORDS. COMMENTS

MINIMUM CORE REQUIRED FOR THIS PROGRAM IS 12K IF THE RELOCATABLE BINARY CARDS ARE LOADED WITH THE STAND-ALONE SYSTEM LOADER OR 16K IF LOADED WITH THE ABSOLUTE BINARY DECK.

AUTHOR: : XDS

STAND-ALONE SYSTEM EXERCISER (SHAP 3.2)

ABSTRACT: SHAP 3.2 IS A STAND ALONE SYSTEM EXERCISER THAT PROVIDES THE USER HITH A TOOL THAT CAN BE USED TO AID IN THE ISOLATION OF SYSTEM FAILURES THAT ARE ENCOUNTERED UNDER THE OPERATING SYSTEM. THE PROGRAM IS CAPABLE OF SIMULTANEOUSLY OPERATING ALL OR ANY COMBINATION OF DEVICES LISTED BELOH AT GR APPROACHING THEIR HAXIMUM TRANSFER RATES WHILE CHECKING A LARGE PERCENTAGE OF THE DATA BEING TRANSFERRED.

PHIENTS:
REQUIRED CONFIGURATION: SIGMA 5/7 HITH 18K MEMORY, AT LEAST ONE MAG TAPE OR RAD, A CARD READER AND A
TELETYPE. DEVICES: 1. THO RAD CTRLS HITH UP TO EIGHT RAD DEVICES (7204,7212,7232) ON EACH CONTROLLER 2.
THO MAG TAPE CONTROLLERS HITH ONE UNIT CONNECTED TO EACH. 3. ONE LINE PRINTER. 4. ONE TELETYPE. 5. ONE
CARD READER. 8. ONE CARD PUNCH. 7. ONE PAPER TAPE STATION. 8. ONE COM GEAR TERMINAL.

705721

SIGMA 5/7

HIOP HITH MAINTENANCE SUBCONTROLLER

AUTHOR: XEROX ABSTRACT

COMMENTS.

ISTRACT! THIS PROGRAM PROVIDES THE USER HITH A HEANS OF TESTING A 4 BYTE MIOP UTILIZING THE MAINTENANCE SUBCONTROLLER AND MIOP DISPLAY CAPABILITY. A SECTION OF THE PROGRAM IS USED TO VERIFY THE DIO INTERFACE. COMMENTS:

THIS PROGRAM WILL BE USED IN CONJUNCTION WITH MAINTENANCE SUBCONTROLLER SELF-TEST DIAGNOSTIC (901688) TO ESTABLISH MAINTENANCE SUBCONTROLLER OPERABILITY, AND TO DELIMIT MALFUNCTIONS TO EITHER THE MS OR MIOP. A MINIMUM OF 8K OF CORE AND A CARD READER OR PAPER TAPE READER ARE REQUIRED. KEYBOARD COMMUNICATION IS OPTIONAL.

705722 SIGMA 5/7 SIOP DIAGNOSTIC (HS)

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM PROVIDES THE USER WITH A MEANS OF TESTING AN SIOP UTILIZING THE MAINTENANCE SUBCONTROLLER AND SIOP DISPLAY CAPABILITY.

COMMENTS:
THIS PROGRAM HILL BE USED IN CONJUCTION WITH THE MAINTENANCE SUBCONTROLLER SELF-TEST DIAGNOSTIC TO
DELIMIT MALFUNCTIONS TO EITHER THE MS OR SIOP. A MINIMUM OF 8K OF CORE, AND A CARD OR PAPER TAPE READER
AS INPUT DEVICE ARE REQUIRED. KEYBOARD COMMUNICATION IS OPTIONAL.

705723

SIGMA 5/7

MAINTENANCE SUBCONTROLLER SELF-TEST

AUTHOR: XEROX ABSTRACT:

THIS PROVIDES THE USER WITH THE CAPABILITY OF DETECTING AND ISOLATING ALL SOLID LOGIC FAILURES OCCURRING WITHIN THAT PORTION OF MAINTENANCE SUBCONTROLLER LOGIC STILL FUNCTIONAL WHEN THE MS 18 ISOLATED FROM THE IOP FOR SELF-TEST PURPOSES. MOST OF THE DATA TRANSFER PATHS AND CONTROL CHARACTERISTICS ASSOCIATED WITH THE MS/IOP AND MS/DIO INTERFACES ARE FUNCTIONALLY TESTED.

DMENTS:
THIS PROGRAM HILL BE USED IN CONJUNCTION HITH MS ORIENTED 10P PROGRAMS TO ESTABLISH MS OPERABILITY AND
TO DELIMIT MALFUNCTIONS TO EITHER THE MS OR 10P. REQUIRED EQUIPMENT: -ONE SIGMA 5/7 HITH SK OF CORE
MINIMUM -ONE CARD READER OR MAG TAPE STATION AS A PROGRAM INPUT DEVICE -ONE KEYBOARD PRINTER AS AN
OUTPUT DEVICE -ONE MAINTENANCE SUBCONTROLLER. THIS PROGRAM ASSUMES A HORKING CPU AND THAT THE PROGRAM
CAN BE LOADED.

705867

SIGHA 5/7

ARGONNE LO-LEVEL ANALOG INPUT DIAGNOSTIC

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM PROVIDES A MEANS OF CHECKING THE OPERATION AND ACCURACY OF THE ARGONNE NATIONAL LABORATORIES LO-LEVEL ANALOG INPUT SUBSYSTEM.

OMMENTS:
REQUIRED EQUIPMENT: SIGMA 5/7 HITH 8K OF CORE, KEYBOARD-PRINTER, CARD READER, CD51 CONTROLLER-DIGITIZER.
ADS-10 ANALOG INPUT CONTROLLER, THREE DM-40 LOW LEVEL MULTIPLEXERS, MODIFIED 7969 FREQUENCY CONTROL
SUBSYSTEM AND SPECIAL OVERRANGE INTERRUPT HARDHARE. PRIORITY INTERRUPT NO. 86 IS ALSO REQUIRED. TEST
EQUIPMENT: PRECISION VOLTAGE SOURCE. OPTIONAL EQUIPMENT: 7450 LINE PRINTER

705868

SIGMA 5/7

ARGONNE HI-LEVEL ANALOG INPUT DIAGNOSTIC

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM PROVIDES A MEANS OF CHECKING THE OPERATION AND ACCURACY OF THE ARGONNE NATIONAL Laboratories' hi-level analog input subsystem.

UMPLENTS:
REQUIRED EQUIPMENT: SIGMA 5/7 WITH 8K OF CORE, KEYBOARD-PRINTER, CARD READER, MO41 MULTIPLEXER-DIGITIZER
7915 ANALOG INPUT CONTROLLER, MODIFIED 7969 FREQUENCY CONTROL SUBSYSTEM, SSSO SAMPLE AND HOLD UNIT AND
SPECIAL OVERRANGE INTERRUPT HARDHARE. PRIORITY INTERRUPT NO. 67 IS ALSO REQUIRED. TEST EQUIPMENT:
PRECISION VOLTAGE SOURCE. OPTIONAL EQUIPMENT: 7450 LINE PRINTER.

7902 EDSC DIAGNOSTIC

3 SIGMA 5/7 7902 AUTHOR: XEROX , DATA SYSTEMS DIVISION

THE PROGRAM PROVIDES A MEANS FOR FINAL ACCEPTANCE TESTING OF THE 7902 EXTENDED DEVICE SUBCONTROLLER.
TESTS CONSIST OF EXECUTING THE 1/0 INSTRUCTIONS (SIO,TIO,TDV,AIO,HIO) AND LISTING ALL RESULTANT STATUS
INFORMATION. LOOPING CAPABILITY IS PROVIDED TO ALLOH FOR MONITORING OF SIGNALS BY THE TEST ENGINEER.

COMMENTS:
MINIMUM MARDHARE CONFIGURATION IS AN 8K SIGMA 5/7, 7902 EDSC, TELETYPE, AND A CARD READER OR PAPER TAPE
READER. A LINE PRINTER IS OPTIONAL. PROGRAM RUNS UNDER THE DIAGNOSTIC PROGRAM MONITOR (DPM).

706203

RADIATION PCH TEST S1GMA 5-9

AUTHOR:XDS, DATA SYSTEMS DIVISION

THIS PROGRAM PROVIDES A MEANS OF TESTING A RADIATION PCM SUBSYSTEM INTERFACE BUILT FOR SHD 78002 USING AN OSO FORMAT. A PATTERN IS GENERATED OUT VIA TMS-51 AND TESTED AGAINST THE RADIATION INTERFACE IMPUT UNDER SENSE SHITCH CONTROL.

THIS PROGRAM REQUIRES A CARD READER, LINE PRINTER, TTY AND 18K CORE. REASSEMBLY MAY BE ACCOMPLISHED USING METASYMBOL (SOCH OPTION).

706204

OSO PCH TEST

94 SIGMA 5-9 OS AUTHOR:XDS, DATA SYSTEMS DIVISION ABSTRACT:

THIS PROGRAM TESTS AN XDS PCM FRONT END (SHO-78002) USING THE OSO FORMAT. THE PROGRAM GENERATES AN OSO FORMAT TEST PATTERN VIA THS-51 SIMULATOR AND TESTS THIS AGAINST DATA INPUT FROM THE TELEMETRY FRONT END UNDER SENSE SHITCH CONTROL. THIS PROGRAM IS A SPECIAL TEST USED IN ADDITION TO THE CART-3 DIAGNOSTIC.

THE PROGRAM REQUIRES CARD READER, LINE PRINTER, TTY, AND 24K CORE. REASSEMBLE UNDER METASYMBOL USING THE -44 COMPRESSED SOURCE AND THE -44 COMPRESSED SOURCE FOR CART-3; THEN LOAD USING THE SIGMA 5/7 STAND-ALONE RELOCATABLE OR DUMP LOADER.

706205 SIGMA 5-9 CART-3 CHECK-OUT AID READINESS

AUTHOR: XDS, DATA SYSTEMS DIVISION

ABSTRACT:

CART-3 IS A VERSION OF CART (705688) HHICH SUPPORTS AN XDS PCM TELEMETRY SUBSYSTEM BUILT UNDER SMO 78002.

COMMENTS:
THIS PROGRAM REQUIRES CARD READER, LINE PRINTER, TELETYPE AND 24K CORE. IT MAY BE REASSEMBLED USING HETASYMBOL AND LOADED USING THE SIGMA 5/7 STAND-ALONE RELOCATABLE OR DUMP LOADER.

SIGNA 5/7 O SIGMA 5/7 DMS 12 DIAGNOSTIC PROGRAM AUTHOR:XDS, HESTERN TECHNOLOGY CENTER 706230

AUTHORIZED, RESTERN TECHNOLOGY COLLEGE AND AUTHORIZED AND DEMONSTRATING THE THREE CONTROLLERS IN THE DMS 12. IT INCLUDES DAC OUTPUT, ADC INPUT, AND CLOSED LOOP TESTS. STATISTICAL ANALYSIS SUCH AS MEAN, STANDARD DEVIATION, HISTOGRAM ARE GIVEN TO AID THE USER TO DETERMINE HARDWARE ACCURACY. A B-MODE TEST IS INCLUDED TO TEST THE MODIFIED MODES.

ATTENTS: THE PROGRAM IS ASSEMBLED INTO THE SIGMA 5/7 DIAGNOSTIC CONTROL PROGRAM (DCP). HARDHARE REQUIREMENTS: SIGMA 5/7 HITH 24K OF CORE, TELETYPE, CARD READER OR PAPER TAPE READER, DMS12, AND INTERFACE EQUIPMENTS.

706234 ARDS DISPLAY TEST S16MA 5-9

AUTHOR: XDS, HESTERN TECHNOLOGY CENTER

ABSTRACT:

ISTRACT: THIS PROGRAM TESTS AN ARDS DISPLAY CONNECTED TO A SIGMA 5-9 THRU A SPECIAL COUPLER. THE P ALPHANUMERIC AND PLOT PATTERNS AND PERFORMS AN INPUT ECHO TEST UNDER SENSE SHITCH CONTROL. THE PROGRAM OUTPUTS

THIS PROGRAM IS ASSEMBLED BY METASYMBOL AND EXECUTES IN A MINIMAL SIGMA 5 WITH CARD INPUT. THE ADDISPLAY INTERFACE IS A SPECIAL WESTERN TECHNOLOGY CENTER DESIGN (SHO 78002) USING 10P OUTPUT AND INTERRUPT DRIVEN DIO INPUT FROM THE KEYBOARD. THE HIGH SPEED OPTION IS REQUIRED.

706235 TIME CODE TRANSLATOR TEST

5 SIGMA 5-9 TIME | AUTHOR:XDS, WESTERN TECHNOLOGY CENTER

ABSTRACT:

THIS PROGRAM PROVIDES A CONTINUOUS TEST OF A TIME CODE TRANSLATOR/GENERATOR. THE PROGRAM OPERATES IN A MINIMAL SIGMA 5 WITH CARD READER AND LINE PRINTER.

THECHNIQUE - TIME INPUT IS FILTERED BY READING THE INPUT THICE AND PASSING ONLY THOSE SAMPLES HHICH ARE ALIKE FOR TESTING. TEST SAMPLES MUST BE EQUAL OR INCREASING BY ONE MILLISECOND. ERRORS ARE RECORDED ON THE HIGH SPEED LINE PRINTER. TIME MAY RUN AT UP TO THREE TIMES REAL TIME. SOURCE LANGUAGE - METASYMBOL. TIME INTERPUT INTERFACE - PACKED BCD VIA DIO. INTERFACE DESIGN REFERENCE - SHO 78002.

706438 SIGMA 5 VARIAN MULTISTYLUS DIAGNOSTIC

AUTHOR: XEROX CORPORATION ABSTRACT:

THE VARIAN MULTISTYLUS DIAGNOSTIC CHECKS THE OPERATION OF THE STATUS MODEL 514 DIGITAL PRINTER/PLOTTER BY OUTPUTTING TEST PATTERNS TO THE PLOTTER FROM PRE-GENERATED CODE IMAGES VIA AN MIOP. THE TEST PATTERN DESIRED IS OPERATOR SELECTABLE. COMMENTS:

THIS PROGRAM HILL RUN UNDER DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL. PROGRAM OPERATES UNDER DPM, CATALOG NO. 705682-DDO, AND IS DESIGNED FOR PANAVIA TELEMETRY FRONT END.

706439 SIGMA 5/7 PANAVIA DIAGNOSTIC UTILITY AUTHOR: XEROX

ABSTRACT:

THE PANAVIA DIAGNOSTIC UTILITY CHECKS THE OPERATION OF 1) TEKTRONIX GRAPHIC COMPUTER TERMINAL 4002 AND TEKTRONIX ENTER-ACTIVE GRAPHIC UNIT 4901. 2) 7930/7931 DIGITAL INPUT/OUTPUT CONTROLLER AND ADAPTER THAT CONTROLS 3 AND 5 DIGIT + SIGN DISPLAYS. COMMENTS:

THIS PROGRAM HILL RUN UNDER DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN SYMBOL

THE PROGRAM IS DESIGNED TO OPERATE WITH THE PANAVIA TELEMETRY FRONT END AND THE SIGNA 5/7 DPM (CATALOG NO. 705682-DOD).

706440 SIGMA 5/7 TAPE MOTION - TIME CONTROL DIAGNOSTIC

AUTHOR: XEROX CORPORATION

ABSTRACT: THE TAPE MOTION AND TIME CONTROL DIAGNOSTIC CHECKS THE TIME SIGNAL FLOW FROM AN ANALOG TAPE TO TIME CODE Translator and checks for correct tape control and motion.

COMMENTS:
THIS PROGRAM HILL RUN UNDER DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN

PROGRAM IS HRITTEN IN SYMBOL.

THE PROGRAM IS DESIGNED TO RUN UNDER THE SIGNA 5/7 DPM (CATALOG NO. 705682-D00) AND A PARTICULAR HARDHARE CONFIGURATION SUCH AS INSTALLED IN THE PANAVIA SYSTEM.

PANAVIA CART

AUTHOR: XEROX CORPORATION

ABSTRACT:

CART IS A STANDALONE PROGRAM DESIGNED TO PERFORM A VARIETY OF DIRECT 1/0 INSTRUCTIONS TO VERIFY DIO

OPERATION OF THE FRONT END AND TO PERFORM SYSTEM TEST USING THE THS50 PCM SIMULATOR AND THE PANAVIA COMMENTS:

THIS PROGRAM HILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.
ASB DECKS MUST BE GENERATED FROM THE 5 CART BINARY DECKS (SEE PROGRAM DESCRIPTION).

706442

706441

SIGMA 5/7

SIGMA 5/7

PANAVIA THS09A DIAGNOSTIC

AUTHOR: XEROX CORPORATION

ABSTRACT:

THE PANAVIA THEOGA ANALOG SUBSYSTEM CALIBRATION PROGRAM PERFORMS FM SYSTEM VALIDITY TESTING OF THE TMS-09A AND ITS ASSOCIATED ANALOG INSTRUMENTS.

COMMENTS:

THIS PROGRAM HILL RUN UNDER DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN SYMBOL AND DPM.
PROGRAM OPERATES UNDER DPM, CATALOG NO. 705682-DDD, AND IS DESIGNED FOR USE HITH THE PANAVIA FRONT END.

706469

SIGMA 5-9 7907 DIAGNOSTIC PROGRAM

AUTHOR: XEROX, HESTERN TECHNOLOGY CENTER

ABSTRACT:
THIS IS A KEYBOARD INTERACTIVE PROGRAM THAT RUNS UNDER CONTROL OF THE DIAGNOSTIC PROGRAM MONITOR. THE
COMPUTER CONNECTED TO THE OTHER END OF THE 7907 CABLES MUST RUN A COMPATABLE PROGRAM. THIS PROGRAM IS
PAL # 880607 FOR A SCU.

COMMENTS

ATTICATION THIS PROGRAM HILL RUN UNDER DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

706471

1 SIGMA 5-9 2230/2470 LINE PRINTER DIAGNOSTIC AUTHOR:XEROX, HESTERN TECHNOLOGY CENTER

ABSTRACT:

THIS TEST PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURES TO THE SMALLEST POSSIBLE LOGIC SEGMENT IN THE LINE PRINTER (DATA PRODUCTS 2230 OR 2470 MITM SYSTEMS CONTROLLER). THE RANDOM EXERCISER AND SOME UTILITY TEST FUNCTIONS ARE INCLUDED IN THE TEST PROGRAM. THE TEST PROGRAM IS INTERFACED TO THE DIAGNOSTIC PROGRAM MONITOR. THE -84 AS RELEASED INCLUDES THE DPH AND ITS LOADER.

UNITION 13:

THIS PROGRAM HILL RUN UNDER DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN
PROGRAM IS HRITTEN IN METASYMBOL. SIGMA 5-9 HITH 16K OF CORE MEMORY PROGRAM INPUT DEVICE: CARD READER;
PAPER TAPE READER; MAGNETIC TAPE UNIT. HESSAGE OUTPUT DEVICE: KSR; LINE PRINTER. LINE PRINTER TO BE
TESTED. LOADING PROCEDURE IS IN MANUAL 901649.

706489

SCU LINKING LOADER SIGMA 8/7/9 AUTHOR: XEROX CORPORATION, WESTERN TECHNOLOGY CENTER

ABSTRACT:

THIS PROGRAM TAKES SPECIFIED OBJECT MODULE FILES AND COMBINES THEM INTO A SINGLE LOAD MODULE. THE LOAD MODULE IS A FILE THAT CAN BE LOADED INTO THE SCU CONTROL AND/OR MAIN MEMORY. THIS PROGRAM INCLUDES THE CAPABILITY TO LOAD THE SCU OVER A 7907 COMMUNICATIONS LINK IF THE UTS MONITOR HAS GRAPHICS ACCESS METHOD HANDLER INSTALLED. PATCHES TO THE SCU MEMORIES CAN ALSO BE PERFORMED. COMMENTS:

THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE

MAIN PROGRAM IS WRITTEN IN METASYMBOL.

CURRENT VERSION CAN HANDLE ONLY ABSOLUTE SECTIONS, NO RELOCATABLE OBJECT CODE OR REF/DEF LINKAGE.

BUILDING LOAD MODULE FILE DOES NOT REQUIRE A SCU TO BE PRESENT. RECORDS OF FILE ARE 108 BYTES LONG TO

PERMIT ANY TRANSMISSION MEDIUM TO BE USED (CARDS, PAPER TAPE). A UTS CONFIGURATION IS REQUIRED.

706499

9 SIGMA 6-9 GENERATE PAPER TAPE UTILITY AUTHOR: XEROX CORPORATION, HESTERN TECHNOLOGY CENTER

ABSTRACT:
THE PAPER TAPE GENERATING UTILITY IS A PROGRAM HHICH GENERATES PAPER TAPE HITH NO RECORD GAPS VIA A TTY
TERMINAL PUNCH ON THE CP-V TIMESHARING SYSTEM.

THIS PROGRAM WILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL

THIS PROGRAM HORKS ON FILES THAT ARE EITHER 108 OR 120 BYTES ONLY.

26 SIGHA 5-9 SCU ASSEMBLER LIBRARY ROUTINES AUTHOR: XEROX CORPORATION, HESTERN TECHNOLOGY CENTER

ABSTRACT:
THE SYSTEM CONTROL UNIT ASSEMBLER LIBRARY ROUTINES ARE THOSE PROCEDURES THAT HAVE BEEN USED BY HTC
PROGRAMMING AND OTHERS TO AUGMENT THE SCU ASSEMBLER PROCEDURES.

THIS PROGRAM HILL RUN UNDER BPH/BTM, RBM, CP-V, RBMX, AND CP-R OPERATING SYSTEMS. PROGRAM TYPE IS ASSEMBLER. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

THERE IS NO ORDER GUIDE AVAILABLE
FOR 9 SERIES PRODUCTS

TITLE

'B VECTOR' PLOTTING PACKAGE...PLOT
AC...CIRCUIT DESIGN ANALYSIS - CIRCAC-DC CIRCUIT ANALYSIS COMPILER...
ACCEPT TEST PROG FOR UCLA BRAIN RESEARCH..
ACCEPT TEST PROG.FOR NASA HOUSTON LEM...
ACCEPT. TESTS FOR NORTH AMERICAN...SPECIAL ASSEMBLY PROGRAM FOR 2K-910...COMPUTER AT RUN-TIME MOD...FORTRAN II FORMATS-ATAN-FLOATING-POINT ARCTANGENT SUBR... ATF...FLOATING POINT ARCTANGENT - ATFC...FLOATING POINT COMPLEX ARCTANGENT - ATFC...FLOATING POINT COMPLEX ARCTANGENT - ATFC...FL. PT. ARCTANGENT-ATFR. 890330 B3 890318 B3 890244 83 850963 B3 851151 B3 860629 B3 890245 B3 860783 B3 860634 83 860875 83 860790 B3 ATFD...FL. PT. ARCTANGENT-ATFR,
ATFE...FL. PT. EXTENDED PRECISION ARCTAN ATFR,ATFD...FL. PT. ARCTANGENTATMOSPHERE ROUTINE...U.S.STANDARD EARTH
ATMOSPHERE ROUTINE...U.S.STANDARD VENUS 860773 B3 ACCEPTANCE PROG. FOR DATA COMMUNICATION...
ACCEPTANCE TEST FOR G.D./CONVAIR...SPECIAL
ACCEPTANCE TEST...CECIS SPECIAL
ACCEPTANCE TEST...CECIS SPECIAL
ACCESS DIAGNOSTIC PROGRAM...MEMORY
ACCURACY TEST FOR GD/C ATS...ANALOG
ACSDX...ARCSINE,ARCCOSINE-ASNX.ACSX.ASNDC, 851584 B3 860650 B3 860675 B3 851620 B3 890282 B3 860770 B3 870001 B3 ATMOSPHERE ROUTINE...U.S.STANDARD VENUS
ATMOSPHERE ROUTINE.1196...U.S.STANDARD MARS
ATMOSPHERE...U.S.STANDARD EARTH MODEL
ATN...ARCTAN OF A —
ATNOX...9300 ARCTANGENT ATNRX,
ATNRX.ATNOX...9300 ARCTANGENT
ATS...ANALOG ACCURACY TEST FOR GD/C
ATS...DIGITAL 1/0 TEST FOR GD/C
AUTO MONITOR PROGRAM...SAM9300-SELECTIVE
AUTO TYPEWTIER TEST...SEMI
AUTOMATIC DIAGNOSTIC...VERIFIER AND SEMI— 851617 B3 860677 B3 890281 B3 890279 B3 ACSX, ASNOC, ACSDX... ARCSINE, ARCCOSINE-ASNX, ADAMS-MOULTON DIFF. EQUATIONS... HYBRID ADAMS-MOULTON SOLN ORDINARY DIFF. EQUATIONS... ADAMS-MOULTON SOLN ORDINARY DIFF. EQUATI... 860820 **83** 860871 **83** 860677 83 860685 B3 860615 B3 860671 83 860690 B3 851617 B3 ADAPT COMPILER..
ADD-ON)...EXT.I/O TEST (NAV.TOR.STA.SYS.,
ADDITION (RMADD)..REAL MATRIX 850754 B3 851616 B3 851615 B3 851299 B3 ADDITION (RMADD) ... REAL MATRIX
ADDITION OR SUBTRACTION... POLYNOMIAL
ADDITION-CMADD... COMPLEX MATRIX
ADDITION-RMADD... REAL MATRIX 890197 B3 890161 B3 890882 83 851135 83 AUTOMATIC DIAGNOSTIC...VERIFIER AND SEMI-AUTOMATIC INSTRUCTION DIAGNOSTIC... AUTOMATIC TYPEHRITER TEST (SATT)...SEMI-AUTOMATIC TYPEHRITER TEST (SATT)...SEMI-860656 83 860662 83 860684 83 860651 83 ADDITION-MHADD...REAL MAINTX
ADDRESS ROUTINE...EFFADR -EFFECTIVE
ADDRESS TEST...MEMORY
ADDRESSING TEST...930 BIG MEMORY
AEROSPACE CORP....HYBRID EXEC. LIB. FOR
AID)...UTILITY AND DEBUG PACKAGE (
AID)...UTILITY AND DEBUG PACKAGE (851595 B3 850640 83 860666 B3 870006 B3 AVIATION HYBRID EXECUTIVE... NORTH AMERICAN AXES FACTOR ANALYSIS...PRINCIPAL A03...PLOT PACKAGE SPECIAL CHART B>SORT-BUSINESS LANGUAGE SORT ROUTINE... 860798 **83** 890203 **83** 851052 B3 851064 83 890234 B3 890305 B3 850688 83 860611 B3 AIRPLANE LAT-DIR TIME HISTORY...
ALGOL COMMON SOFTHARE PACKAGE (COVER).. 890284 B3 850330 B3 BAIRSTON ROOTFINDER... BASIC CRITICAL PATH PROGRAM. 890169 B3 890278 B3 ALGOL COMMON SOFTHARE PACKAGE (COVER)...
ALGOL 60 BASIC 4K SYSTEM (COVER)...920/930
ALGOL 60 BASIC 4K SYSTEM...910/925
ALGOL 60 EXT'D UNBUF LINE PRI. LIB ROUT...
ALPHAXIS PLOTTING ROUTINE...
AMERICAN AVIATION HYBRID EXECUTIVE...NORTH
AMERICAN HYBRID INTERFACE TEST...NORTH
AMERICAN...SPECIAL ACCEPT. TESTS FOR NORTH
ANALOG ACCURACY TEST FOR GD/C ATS...
ANALOG COMPARISON TEST...
ANALOG FQUIPPERD DEMONSTRATION...JPL TCP BASIC CRITICAL PATH PROGRAM...
BASIC PAPER TAPE LOADER...BINARY INPUTBASIC RELOCATABLE LOADER...9300 PAPER TAPE
BASIC SYMBOLIC MAGNETIC TAPE EDITOR...
BASIC UTILITY PACKAGE 9300...
BASIC UTILITY PACKAGE...92
BASIC 2 CARD RELOCATABLE LOADER...
BASIC 4K SYSTEM (COVER)...920/930 ALGOL 60
BASIC 4K SYSTEM...910/925 ALGOL 60
BASIC -...940 850970 B3 850644 B3 860605 B3 850816 83 850690 B3 850663 **8**3 860607 B3 890380 B3 851188 83 860720 83 860797 R3 850970 83 851617 83 850816 83 850739 B3 BAS1C...940 870024 B3 BASIC...940
BCD CONVERSION OF NUMERIC DATA...
BCD CONVERSION, XDS - UNIVAC - XDS...
BCD CONVERTED BTDFX2.BTDFL2...BINARY TO
BESSEL FUNCTION JO, J1 YO, Y1...
BESSEL FUNCTION KN(X),...
BESSEL FUNCTION SUBROUTINE... ANALOG EQUIPHENT DEMONSTRATION...JPL TCP ANALOG INPUT AND STORE...SAMPLE DATA FROM ANALOG INPUT...GAUSSIAN DISTRIBUTION TEST ANALOG TEST FOR G.D./CONVAIR... 851027 83 890355 B3 890292 83 890293 B3 850710 83 851618 83 860640 B3 890174 83 ANALOG TEST PROGRAM...STANDARD
ANALOG TEST PROGRAM...910/925 STANDARD
ANALOG TOTAL CHECK...PATCH, PROGRAMMED
ANALOG/NSC-II TEST FOR GD/C ATS... 860776 B3 890176 B3 890178 B3 850901 83 BESSEL FUNCTION SUBROUTINE...
BESSEL FUNCTIONS-JO, JI, YO, YI, 10, II, KO, KI..
BIG MEMORY ADDRESSING TEST...930
BIG MEMORY DIAGNOSTIC... 850741 B3 851616 B3 890177 B3 890179 B3 ANALUSINE (ECAP)...3GO ELECTRONIC CIRCUIT
ANALYSIS - CIRC-AC...CIRCUIT DESIGN
ANALYSIS CORC DC...CIRCUIT DESIGN
ANALYSIS COMPILER...AC-DC CIRCUIT
ANALYSIS...LINEAR REGRESSION
ANALYSIS...PRINCIPAL AXES FACTOR
ANALYSIS...LINEAR REGRESSION
ANGLE & RANGE COMPUTE...SATFIX-SATELLITE
APOCALYPTIC DIAGNOSTIC (RAD)...RAD
APOCALYPTIC DIAGNOSTIC (RAD)...RAD
APOCALYPTIC DIAGNOSTIC (RAD)...RAD
APOCALYPTIC DIAGNOSTIC (RAD)...ARD
APS-100 SYSTEMS DIAGNOSTIC PROGRAM...JPL
ARBITRARY FUNCTION...CURVE/SURFACE FIT
ARCOS FUNCTIONS...ARCSIN AND
ARCCOS FUNCTIONS...ARCSINE,
ARCSINE ASNX,ACSX,ASNDC,ACSDX...ARCSINE,
ARCSINE,ASNX,ACSX,ASNDC,ACSDX...ARCSINE,ARCCOSINE (DEGRES-RADIANS)...
ARCSINE,ARCCOSINE (DEGRESO ANALYSIS (ECAP)...3G0 ELECTRONIC CIRCUIT ANALYSIS - CIRC-AC...CIRCUIT DESIGN 851052 B3 860696 B3 890669 B3 BIG MEMORY DIAGNOSTIC...
BIN TO DEC POP-SELF F...HIGH SPEED 4 DIGIT
BISECTION...ROOTBIS, ROOTFINDING BY
BIT HANDLING & 1/O...FORTRAN EXTENDER LIB.
BIT OF A HORD...SET OR DETECT 1TH
BIT ORIENTED FUNCTION & SUBROUTINE..HORD/
BIT, AND CHARACTER MANIPULATION...LOGICAL,
BLANK PAPER TAPE LEADER GENERATOR...
BLOCKED INPUT FROM MAG. TAPE...READ
BLOHUP...PLOTTER SUBROUTING
BOEING FAULT TREE TEST PROGRAM...
BOEING RANDOM NUM. GEN. TEST PROGRAM...
BOEING RANDOM NUM. GEN. TEST PROGRAM... 890318 83 850803 B3 890171 83 890245 B3 890310 B3 890203 B3 890264 B3 851184 B3 890332 B3 890664 83 890223 B3 851129 83 850725 B3 860767 B3 890220 B3 890344 B3 851137 83 890191 83 880778 83 860777 B3 BOEING RANDOM NUM. GEN. TEST PROGRAM...
BOOLIAN MATRIX (FLAG PACKING)...
BOOTSTRAP + GENERATOR...BINARY PAPER TAPE
BOOTSTRAP FOR DRUM...LINK 0
BOOTSTRAP GENERATOR FOR RAD MONARCH...
BOOTSTRAP LOADER...BINARY PAPER TAPE
BOOTSTRAP...BINARY PAPER TAPE RELOCATING
BOOTSTRAP...BINARY VERIFY BOOTSTRAP...SELECTIVE MEMORY CLEAR BOOTSTRAP...SYMBOL
BOX...MUSIC 890199 83 850634 83 890158 B3 860676 83 860677 83 850707 B3 850023 B3 890158 83 851161 B3 851160 B3 860676 B3 860677 B3 860650 B3 850627 **83** 850625 **83** STRAP...SYMBOL 860620 B3 860629 860803 B3 890307 B3 860634 B3 BOX. . 860671 B3 BPI DIAGNOSTIC TEST FOR XDS 92...INT, BPO, BPO, BPI DIAGNOSTIC TEST FOR XDS 92...INT, 851175 83 851175 83 BPI DIAGNOSTIC TEST FOR XDS 92...INT, BPO, BPO, BPI DIAGNOSTIC TEST FOR XDS 92...INT, BPO, BPI DIAGNOSTIC TEST FOR XDS 92...INT, BRAIN RESEARCH...ACCEPT TEST PROG FOR UCLA BTDFLI...BINARY TO DECIMAL CONVERTED BTDFLZ..BINARY TO BCD CONVERTED BUF.LINE PRINTER MOD...910 SYMBOL 4 BUF. LINE PRINTER MOD...920/910 SYMBOL 4 BUF. LINE PRINTER MOD...920 SYMBOL 4 BUF. LINE PRINTER WOD...920 SYMBOL BUF...42KC MAG TAPE SYS EXERCISER, Y BUFFER CHECKOUT PROGRAM...COMMUNICATION BUFFER...42KC MAGNETIC TAPE EXERCISER, M BUFFER...42KC MAGNETIC TAPE TEST PROGRAM Y BUFFER...42KC MAGNETIC TAPE TEST PROGRAM, W BUFFER...42KC MAGNETIC TAPE TEST PROGRAM, BUFFERED LINE PRINTER DIAG...9379/9171 BUFFERED LINE PRINTER TEST PROGRAM... BUFFERED LINE PRINTER TRACE... 850805 B3 851151 B3 860675 B3 860783 B3 860639 83 860630 B3 860640 B3 860640 B3 890354 B3 890204 B3 851599 B3 860638 83 851609 B3 851605 B3 851811 83 860769 B3 850721 B3 890247 B3 850682 **83** ARRAY...FORTRAN SEARCH
ARRAYS PROGRAM FOR NAVAL TORPEDO STATION..
ASGNT.+P. T. UPDATING ROUTINES...SEQ. NUMBER
ASNDC, ACSDX...ARCSINE.ARCCOSINE-ASNX,ACSX,
ASNX,ACSX,ASNDC,ACSDX...ARCSINE,ARCCOSINE-ASSEMB. COMMON SOFTHARE PKG...META-SYMBOL 851585 B3 850696 B3 851579 B3 850687 B3 850681 B3 860677 B3 850695 B3 860677 B3 860754 B3 850683 83 850065 B3 ASSEMBLER (COVER)...SYMBOL ASSEMBLER COMMON SOFTHARE PACKAGE...SYMBOL 850691 83 861083 83 850040 B3 851012 B3 ASSEMBLER...CONVERSATIONAL FUNCTIONAL ASSEMBLER-COVER...META-SYMBOL

CAT.NO CL

850684 B3

851180 B3

890528 83

860075 B3

| KEY | TITLE | CAT.NO | CL | KEY | TITLE | CAT.NO CL |
|------------------------|---|----------------------------------|-----------|-----------|---|--|
| BUFFERED PRI | NTPINT 920/930 | 850985 | 83 | CHECKP | ATCH, PROGRAMMED ANALOG TOTAL | 850741 83 |
| BUFFERED PRI | NTXDS PINT 910- NTER DIAGNOSTIC | 850831 850693 | | | DEMOFORTRAN IV ERROR PROGRAMCOMMUNICATION BUFFER | 860700 93 851585 93 |
| BUFFERED PRI | NTER MODIFICATIONFORTRAN | 851015 | B3 | CHECKOUT. | ARM/DISARM FEATURE | 850721 B3 |
| | . MOD910/925 FORTRAN II GUAGE LIBRARY-COVER9300 | 850857 860490 | | CIRC DC | .CIRCUIT DESIGN ANALYSIS - | 890318 83 |
| BUSINESS LAN | BUAGE SORT ROUTINEB>SORT- | 890305 | B3 | CIRCUIT A | NALYSIS (ECAP)300 ELECTRONIC | 890669 83 890245 83 |
| BOO MONARCH. Cal940 | | 890842 870023 | | CIRCUIT D | NALYSIS COMPILERAC-DC ESIGN ANALYSIS - CIRC-AC | 890318 B3 |
| CALCOMP PLOT | TER ROUTINEFORTRAN TER SUBROUTINE PACKAGE | 890241 890237 | | | ESIGN ANALYSIS CIRC DC ESIGND-T-L | 890283 B3 890277 B3 |
| CALCOMP PLOT | TER TEST | 850699 | B3 | CLEAR - B | OOTSTRAPSELECTIVE MEMORY | 850625 B3 |
| CALCULATION. | MATRIX INVERSION.DETERMINANTNAA DES-1 HYBRID ADERBINARY INPUT-1 NCH PROGRAM1- MULATOR (910/920) DD910/925 FORTRAN II DD920/930 FORTRAN IIBINARY INPUT ONE | 890201 860799 | B3 B3 | | SUBROUTINECLIMB1 A HILL- HILL-CLIMBING SUBROUTINE | 890167 83 890167 83 |
| CARD ABS. LO | ADERBINARY INPUT-1 | 860721 | B3 | | T ROUTINEREAL TIME | 851080 B3 860771 B3 |
| CARD DUMP PUR | MULATOR (910/920) | 850651 | 83 | OLOCK TEC | T DEAL TIME | 851187 83 |
| CARD INPUT MO | DD910/925 FORTRAN II | 850835 850990 | 83 83 | CMADDC | OMPLEX MATRIX ADDITION- OMPLEX MATRIX INVERSION- | 86065 6 93 86065 7 93 |
| | | | | CMMULC | UMPLEX MAIRIX MULTIPLICATION- | 860658 B3 |
| | BINARY INPUT-THO OCTAL INPUT-ONE | 850649 850653 | | | OMPLEX MATRIX SUBTRACTION- OMPLEX MATRIX TRANSPOSE- | 860659 83 860660 83 |
| CARD LOADER. | OCTAL INPUT-1 ATIONFORTRAN-3 CONTINUATION | 860723 | | | TSS MONITOR, EXEC, AND PROCESSORS NTS PERIODIC FUNCTIONSFOURIER | 870025 83 890188 83 |
| CARD MODIFICA | ATIONFORTRAN-9 CONTINUATION | 850964 | B3 | COM GEAR | TEST 3.0UNIT 23 CTE 10/11 | 870039 B3 |
| | EMORY DUMP (PRINTER)ONE EMORY DUMP (TYPEHRITER)ONE | 860641 860722 | | | FTHARE PACKAGE (COVER)ALGOL FTHARE PACKAGEFORTRAN II | 850330 83 85021 0 83 |
| CARD OR MAG | TAPE TO BUFFERED LINE PRINTR | 850684 | B3 | COMMON SO | FTHARE PACKAGEMONARCH | 850000 B3 |
| | TAPE UNIVERSAL LOADER 10D910/925 FORTRAN II | 860733 850837 | | | FTHARE PACKAGEMONARCH LIBRARY FTHARE PACKAGESYMBOL ASSEMBLER | 85009 5 83 85004 0 83 |
| CARD OUTPUT ! | 10D920/930 FORTRAN II | 850991 | B3 | | FTHARE PKG920/930 FORTRAN-II | 850315 83 850480 83 |
| CARD PUNCH TA | ND VERIFY PROGRAM925/930 APE MOD910/925 FORTRAN II | | B3 | COMMON SO | FTHARE PKGMETA-SYMBOL ASSEMB. | 850065 83 |
| | EST PROG/MOD.9157(INTERLACE) | 850659 850658 | | | FTHARE PKGREAL-TIME FORTRAN TION BUFFER CHECKOUT PROGRAM | 850400 B3 851585 B3 |
| CARD PLINCH TO | ST PROGRAM PACKAGE -9158 | 850657 | R3 | COMMUNICA | TIONACCEPTANCE PROG. FOR DATA | 851584 B3 |
| CARD PUNCH TE | EST PROGRAM EST PROGRAM9158 | 860729 850661 | B3 B3 | | N INSTSIMULATION OF SKIP ON TESTANALOG | 890256 83 85073 9 83 |
| CARD PUNCH TE | ST PROGRAM ST PROGRAM9158 ST PROGRAM9158 ST PROGRAM9158 ODLER (CDR) | 851111 | B3 | | LITY PROGRAMCFE-1 AND MAG TAPE (FC-1)910/925 F-11 | 860772 93 850211 93 |
| CARD PUNCH TE | NDLER (CDR) | 851167 | B3 | COMPILER | AND LIBRARIESFORT IV | 860035 83 |
| CARD READ SUE | BROUTINE (CDR) BROUTINE (216 SYS)FORTRAN | 851109 890306 | B3 B3 | | DUMP900 SERIES FORTRAN II MOD920/930 RTF II INBUF. PRT. | 850662 83 851014 83 |
| CARD READ SU | BROUTINE - CDR | 86072 6 | B3 | COMPILER | UNBUF. PRT920/930 FORTRAN 11 | 851017 B3 |
| | NCH TEST PROGRAM1622 END OF FILE TEST | 850717 89026 5 | | COMPILER. | AC-DC CIRCUIT ANALYSIS | 890245 83 850754 83 |
| CARD READER 1 | TEST DECK PROGRAMSTANDARD | 850660 | B3 | | ON-LINE MATHEMATICAL XDS 92 FORTRAN IV | 890287 83 890320 83 |
| CARD READER 1 | TEST PROGRAM | 851168 860727 | | COMPILER. | 900 SERIES FORTRAN IV | 851583 83 |
| CARD READER 1 | TEST PROGRAM900 SERIES TEST PROGRAM925/930 | 850656 851110 | | | 940 FORTRAN II RCTANGENT - ATFCFLOATING POINT | 870020 83 860634 83 |
| CARD READER/F | PUNCH DIAGNOSTIC PROGRAM | 890884 | B3 | COMPLEX A | RGUMENT)POLYNOMIAL EVALUATION | 860614 83 860830 83 |
| | ABLE LOADERBASIC 2 ABLE LOADERTHREE | 860720 850652 | | COMPLEX A | RITH. PACKAGEFLOATING POINT, RITHMETIC FUNCTIONS | 890354 83 |
| CARD RESEQUE | NCE - DUPLICATOR (REPRO) | 890269 890272 | | COMPLEX E | XPONENTIAL-EXFCFLOATING POINT OGARITHM - LNFCFLOATING POINT | 860631 83 860632 83 |
| CARD/PAPER TA | APE INPT MOD920/930 FORT II | 850989 | | COMPLEX M | ATRIX ADDITION-CMADD | 860656 B3 |
| | .910/925 FORTRAN II 3 CONTR .910/925 FORTRAN II 9 CONTR | 850813 850814 | | | ATRIX INVERSION-CMINV | 860657 83 86065 8 83 |
| CARDS TO P.T. | COPY ROUTINEFORTRAN SOURCE | 850641 | B3 | COMPLEX M | ATRIX SUBTRACTION-CMSUB | 86065 9 83 86066 0 83 |
| CARDSBINAR | RY DUMP PAPER TAPE OR RY DUMP, PAPER TAPE OR | 86060 8 85064 3 | | COMPLEX S | ATRIX TRANSPOSE-CMTRA INE AND COSINE - SNFCFLOATING | 860635 83 |
| CARRIAGE) | FORTRAN II TYPE SUBR. (LONG TUBE DISPLAY UNIT/S RE19185 | 850708 850727 | | COMPLEX S | QUARE ROOT-SQFCFLOATING POINT .SATFIX-SATELLITE ANGLE & RANGE | 860833 83 890664 83 |
| CATHODE RAYTU | JBE DISPLAY SYSTEM TEST | 860762 | B3 | COMPUTER | ASSEMBLY PROGRAM FOR 2K-910 | 890244 B3 |
| | TUBE DISPLAY TEST PROG9158 EAD SUBROUTINE - | 850724 86072 6 | | | COUPLER TESTINTER- COUPLER TESTINTER- | 851580 83 860800 83 |
| CDR)CARD F | READ HANDLER (| 851167 | B3 | CONSTANT | MOD910/925 F-II HOLLERITH | 850815 83 850650 83 |
| CDRPI/O H | READ SUBROUTINE (ANDLER | 851109 860731 | B3 | CONTINUAT | ION CARD MODIFICATIONFORTRAN-3 | 850968 B3 |
| CDRPMONARO | CH _ ACCEPTANCE TEST | 851292 860770 | | CONTINUAT | ION CARD MODIFICATIONFORTRAN-9 DS MOD910/925 FORTRAN II 3 | 850964 83 850813 83 |
| CFE-1 AND MAG | TAPE COMPATABILITY PROGRAM | 860772 | B3 | CONTR CAR | DS MOD910/925 FORTRAN II 9 | 850814 83 851618 83 |
| CFE-1 DIAGNOS | | 860766 851104 | | CONVAIR | .ANALOG TEST FOR G.D./ .SAMPLE AND HOLD TEST FOR G.D./ | 851619 B3 |
| CFE-1 DIAGNOS | STIC930 TEST 3.0UNIT 21 W | 851058 870038 | | CONVAIR | SPECIAL ACCEPTANCE TEST FOR G.D. IONAL FORTRAN940 | 851620 83 870022 83 |
| CHANNEL DISC | UNIT 18 E | 870040 | B3 | CONVERSAT | IONAL FUNCTIONAL ASSEMBLER | 890528 83 |
| CHANNEL DISC | UNIT 19 F TEST 3.0UNIT 12 E | 870041 870036 | | CONVERSIO | N (DISCY)-S SEE9300 DISPLAY N - DTBFXDECIMAL TO BINARY | 860645 83 860644 83 |
| CHANNEL RAD | TEST 3.0UNIT 15 H | 870037 | B3 | CONVERSIO | N OF NUMERIC DATABCD | 890355 83 850642 83 |
| CHANNEL TEST | 925/930DATA MULTIPLEX DATA MULTIPLEX | 851115 860744 | B3 | CONVERSIO | N ROUTINESDECIMAL/BINARY | 860643 83 |
| | HTE 3 MAG TAPE EXERCISOR 4 HTE-3 MAG TAPE EXERCISOR, 3 | 851056 851055 | | | NBINARY TO DECIMAL N-BTDFL1BINARY TO DECIMAL | 89027 3 83 86063 9 83 |
| CHAR. MODE | MTE-3 MAG TAPE EXERCISER, 4 | 860764 | B3 | CONVERSIO | N, XDS - UNIVAC - XDSBCD BTDFX2,BTDFL2BINARY TO BCD | 89029 3 83 86064 0 83 |
| CHARACTER ST | NIPULATIONLOGICAL,BIT, AND REAM EDITING PROGRAMEDIT, | 890288 89024 9 | B3 | CONVOLUTI | ON & FILTERING UNIT 1/0 ROUTINE | 890221 83 |
| CHART A03 | PLOT PACKAGE SPECIAL DGGENERAL ELECTRIC MOL SYS. | 890234 860789 | | COPIER | ON, CORR, FILTER., OF TIME SERIES PAPER TAPE AND MAGNETIC TAPE | 890222 83 850664 83 |
| | DGRAMDOUGLAS MOL SYS. | 860788 | | COPY AND | VERIFY PROGRAMMAG TAPE | 860694 83 |
| | | | | | | |

870008 B3

861077 B3

| PROGRAM AVAILABILITY LIST | | • | KWIC INDEX |
|--|--|--|---|
| KEY TITLE | CAT.NO CL | KEY TITLE | CAT.NO CL |
| DISPLAY UNIT/S RE19185 CATHODE RAY TUBE DISTRIBUTION TEST ANALOG INPUTSGAUSSIAN DIVIDE SUBROUTINE-DPDDOUBLE PRECISION DIVISION, POLYDIVPOLYNOMIAL DOUBLE INTEGRATION BY SIMPSONS DOUBLE PRECISION DIVIDE SUBROUTINE-DPD DOUBLE PRECISION FLOATING POINT POP DOUBLE PRECISION MULTIPLY SUBROUTINE-DPM DOUBLE ANDLE SYS. CHECK OUT PROGRAM | 850727 83 850710 83 860624 83 890163 83 890182 83 851047 83 860624 83 860621 83 | EXEC. LIB. FOR AEROSPACE CORPHYBRID EXECUTION LIBRARYNASA EDHARDS HYBRID EXECUTIVE LIBRARYUSNPGS DISPLAY EXECUTIVE LIBRARYUSNPGS HYBRID EXECUTIVENORTH AMERICAN AVIATION HYBRID EXECUTIVE940 OPERATOR'S EXECUTIVE940 TIME-SHARING SYSTEM EXEREXTENDED MODE MULTI-MAGNETIC TAPE EXERCISER DIAGNOSTIC9165 DISC | 851064 83 860796 83 861079 83 861078 83 860798 83 870011 83 870016 83 851113 83 851062 83 |
| DPD TEST PROGRAM DPDDOUBLE PRECISION DIVIDE SUBROUTINE- DPMDOUBLE PRECISION MULTIPLY SUBROUTINE DRUM HANDLERGENERAL | 860768 B3 860624 B3 860621 B3 850705 B3 | EXERCISER 3.0UNIT 1 CPU EXERCISERINTERRUPT EXERCISERJPL HSDL COUPLER EXERCISERMTE-1 MAGNETIC TAPE | 870031 83 860667 83 850744 83 851054 83 851181 83 |
| DRUM LINKING SYSTEM910 FORTRAN DRUM MEMORY TEST PROGRAM9161 DRUM READ/HRITE MODIFICATIONFORTRAN 11 DRUM READ/HRITE STATEMENTSFORTRAN DRUMLINK 0 BOOTSTRAP FOR | 850862 B3 850716 B3 850864 B3 851026 B3 850707 B3 | EXERCISERMITE-2 MAGNETIC TAPE EXERCISERMULTI-MAGNETIC TAPE EXERCISERMULTI-MAGNETIC TAPE EXERCISER15 KC MAGNETIC TAPE EXERCISER9TK EXTEND MODE MULTI-MAG TAPE | 851171 B3 850676 B3 851145 B3 850755 B3 |
| DRUM, P.T. MEMORY BINARY COPY ROUTINE DSC-I DIAGNOSTIC TEST FOR XDS 92 DSC-I DIAGNOSTIC TEST DSC-I DIAGNOSTIC TEST DSC-II DIAGNOSTIC TEST | 850704 83 851173 83 851116 83 860747 83 851174 83 | EXERCISER9TK EXTEND MODE MULTI-MAG TAPE EXERCISER940 RAD DIAGNOSTIC EXERCISER-15KCMAGNETIC TAPE SYSTEM EXERCISER, H BUFFER42KC MAGNETIC TAPE EXERCISER, Y BUF42KC MAG TAPE SYS | 860794 83 870008 83 850674 83 850696 83 850682 83 |
| DSC-11 DIAGNOSTIC TEST DSC-11 DIAGNOSTIC TEST DTBFXDECIMAL TO BINARY CONVERSION - DUMP (PRINTER)ONE CARD OCTAL MEMORY DUMP (TYPEHRITER)ONE CARD OCTAL MEMORY | 851117 83 860748 83 860644 83 860641 83 860722 83 | EXERCISER, 4 CHAR. MODEMTE-3 MAG TAPE EXERCISER,2 TP SYTM-15KCMAGNETIC TP EXERCISOR 4 CHAR MODEMTE 3 MAG TAPE EXERCISOREXTENDED MODE MULTI MAG TAPE EXERCISOR, 3 CHAR MODEMTE-3 MAG TAPE | 860764 B3 850679 B3 851056 B3 860738 B3 851055 B3 |
| DUMP A AND B FORMATSSEISMIC DUMP FOR 9372 PRINTERMEMORY DUMP PAPER TAPE OR CARDSBINARY DUMP PUNCH PROGRAMI-CARD | 850740 B3 890252 B3 860608 B3 851613 B3 890251 B3 | EXFCFLOATING POINT COMPLEX EXPONENTIAL- EXFN,EXFTFLOATING POINT EXPONENTIAL EXFTFLOATING POINT EXPONENTIAL EXFN, EXPFLOATING POINT EXPONENTIAL EXPEXPONENTAIL OF A - | 860831 83 860872 83 860872 83 851596 83 860818 83 |
| DUMP SUBROUTINEREAL TIME FORTRAN OCTAL DUMP TO MAGNETIC TAPE PROGRAMCORE DUMP TO UNBUFFERED LINEPRINTERCORE DUMPBUFFERED LINE PRINTER MEMORY DUMPMEMORY TO LINE PRINTER OCTAL | 890239 83 890240 83 850683 83 851176 83 | EXPFLOATING POINT EXPONENTIAL - EXPANSION OF RATIONAL POLYNOMIALSERIES EXPNX.EXPTX9300 EXPONENTIAL (E OR 10) EXPONENTAIL OF A - EXP EXPONENTIAL (E OR 10) EXPNX.EXPTX9300 | 860627 83 890156 83 860670 83 860618 83 860670 83 |
| DUMPRAD TO MAGNETIC TAPE DUMPRAD TO MAGNETIC TAPE DUMP900 SERIES FORTRAN II COMPILER DUMP940 TIME-SHARING SYSTEM DISC DUMP/LOAD940 DISC | 851614 83 861082 83 850662 83 870009 83 870014 83 | EXPONENTIAL - EXPFLOATING POINT EXPONENTIAL EXFN.EXFTFLOATING POINT EXPONENTIAL INTEGRALREAL EXPONENTIALEXP -FLOATING POINT | 860627 83 860672 83 890175 83 851596 83 |
| DUMP, PAPER TAPE OR CARDSBINARY DUPLICATOR (REPRO)CARD RESEQUENCE - DUPLICATORPAPER TAPE DVA INSTRUCTIONDVASIM -SIMULATED DVASIM -SIMULATED DVA INSTRUCTION | 850643 B3 890269 B3 890296 B3 851589 B3 851589 B3 | EXPONENTIALFL. PT.EXTENDED PRECISION EXPONENTIAL-EXFCFLOATING POINT COMPLEX EXPTX9300 EXPONENTIAL (E OR 10) EXPNX. EXT.1/0 TEST (NAV.TOR.STA.SYS.,ADD-ON) EXT.D UNBUF LINE PRT. L1B ROUTALGOL 60 | 860631 B3 860631 B3 860670 B3 851299 B3 850690 B3 |
| DVB INSTRUCTIONDVBSIM -SIMULATED DVBSIM -SIMULATED DVB INSTRUCTION EARTH ATMOSPHERE ROUTINEU.S.STANDARD EARTH MODEL ATMOSPHEREU.S.STANDARD ECAP)3GO ELECTRONIC CIRCUIT ANALYSIS | 851590 B3 851590 B3 890280 B3 890279 B3 890669 B3 | EXTEND MODE MULTI-MAG TAPE EXERCISER9TK EXTEND MODE MULTI-MAG TAPE EXERCISER9TK EXTENDED MODE 1/0 TEST PROGRAM EXTENDED MODE 1/0 TEST PROGRAM EXTENDED MODE MULTI MAG TAPE EXERCISOR | 850755 B3 860794 B3 851107 B3 860718 B3 860738 B3 |
| EDIT (SERVICE PROGRAM) FOR MAGNETIC TAPE EDIT, CHARACTER STREAM EDITING PROGRAM EDITING PROGRAMEDIT, CHARACTER STREAM EDITORBASIC SYMBOLIC MAGNETIC TAPE EDITORBINARY MAG TAPE | 890542 B3 890249 B3 890249 B3 850663 B3 860737 B3 | EXTENDED MODE MULTI-MAGNETIC TAPE EXER EXTENDED MODE)MAGNETIC TAPE HANDLER (EXTENDED PRECISION ARCTAN - ATFEFL. PT. EXTENDED PRECISION ARITHMETIC PACKAGE EXTENDED PRECISION NATURAL LOGFL. PT. | 851113 B3 851112 B3 860650 B3 860638 B3 860646 B3 |
| EDITORXDS 92 PAPER TAPE EDHARDS HYBRID EXECUTION LIBRARYNASA EDHARDS INTERFACE TESTNASA EFFADR -EFFECTIVE ADDRESS ROUTINE | 890274 83 860796 83 860795 83 851595 83 | EXTENDED PRECISION SIN (COS)-SNFEF. P. EXTENDED PRECISION SQUARE ROOTFL. PT. EXTENDER LIBBIT HANDLING & 1/OFORTRAN EXTRAPOLATION ROUTINEINTERPOLATION OR F. P. EXTENDED PRECISION SIN (COS)-SNFE | 860647 83 860637 83 890310 83 890295 83 860647 83 |
| EFFECTIVE ADDRESS ROUTINEEFFADR - ELECTRIC MOL SYS. CHECK OUT PROGGENERAL ELECTRONIC CIRCUIT ANALYSIS (ECAP)3G0 ELIMINATIONMEMORY TYPE-OUT, REDUNDANCY ENCODED TO SYMBOLIC RECONSTRUCTOR(RECON) | 890669 83 850628 83 850647 83 | F. P. SINE/COSINE-SNFRICSFR)SNFDICSFD) FACTOR ANALYSISPRINCIPAL AXES FACTORIAL ROUTINE FACTORS NATURAL GASSUPERCOMPRESSIBILITY | 860673 83 890203 83 890159 83 |
| END OF FILE TESTCARD READER END-OF-FILE TEST END-OF-PAGE TEST ROUTINE EQU. FLOAT.POINTRUNGE-KUTTA GILL DIFF. EQUATIADAMS-MOULTON SOLN ORDINARY DIFF. | 890265 B3 890338 B3 890339 B3 860613 B3 860690 B3 | FAIL-SAFE INTERRUPT TESTERPOHER FAIL-SAFE TESTMEMORY LOCK-OUT AND POHER FAIL-SAFE TESTMEMORY LOCK-OUT AND POHER FAIL-SAFE TESTPOHER FAST FORTRAN PRINT SUBROUTINE | 851057 B3 860758 B3 851186 B3 890224 B3 |
| EQUIPMENT DEMONSTRATIONJPL TCP ANALOG ERASE MAGNETIC TAPE IN FORTRAN ERRF, ZGAUSSF, PPROBABILITY FUNCTIONS - ERROR CHECKING DEMOFORTRAN IV ERROR | 851027 83 890356 83 | FAST FOURIER TRANSFORMFORZO FAST FOURIER TRANSFORMFOURG FAST FOURIER TRANSFORMFOURT FAST FOURIER TRANSFORMFOURI FAST FOURIER TRANSFORMFOURZ | 890317 B3 890314 B3 890313 B3 890316 B3 890315 B3 |
| EVALUATION (COMPLEX ARGUMENT)POLYNOMIAL EVALUATIONDEFINITE INTEGRAL EVALUATIONDETERMINANT EXAMINER DIAGNOSTIC (COVER) EXAMINER DIAGNOSTIC SYSTEM (COVER) | | FAST LISTING MOD910/925 FORTRAN II FAULT TREE TEST PROGRAMBOEING FC-1)910/925 F-11 COMPILER (FEATURE CHECKOUTARM/DISARM FEATURE TEST PROGRAINTERRUPT ARM-DISARM | 850858 83 860778 83 850211 83 850721 83 860769 83 |
| EXAMINER DIAGNOSTIC SYSTEM (COVER) EXAMINER DIAGNOSTIC SYSTEM (COVER)925 EXAMINER DIAGNOSTIC SYSTEM (COVER)930 EXAMINER DIAGNOSTIC SYSTEM 910/920-COVER EXAMINER INSTRUCTION DIAGNOSTIC930 | 870000 B3 851100 B3 851048 B3 | FILE DIAGNOSTIC (DFD) 925/930DISC FILE DIAGNOSTIC-(DFD)9267 DISC FILE HOBEL 9367-A 925/TEST PROGRAM DISC FILE TEST PROGRAMDISC FILE TESTCARD READER END OF | 85112 8 B3 8607 85 B3 |
| EXAMINER HEMORY DIAGNOSTIC930 EXAMINER PEMORY DIAGNOSTIC930 EXAMPLELIBRARY UPDATE EXCERCISER DIAGNOSTIC940 DISC EXCHANGESORT-MODIFIED SHELL MERGE- | 851049 B3 851051 B3 851051 B3 890270 B3 870007 B3 890336 B3 | FILE TESTEND-OF- FILE 9367-ATEST PROGRAM FOR DISC FILES/RECORDS ON MAGNETIC TAPECOUNT FILL SIMULATOR (910/920)CARD FILL SIMULATOR(910/920)MAG TAPE STANDARD | 890338 83 851185 83 890341 83 850851 83 850686 83 |
| | | | |

| PROGRAM AVAILABILNTY LIST | | | CAT NO CL |
|--|--------------------------------------|---|--|
| KEY TITLE | CAT.NO CL | KEY TITLE | CAT.NO CL |
| FILLINGHIGH SPEED ARCTANGENT POP-SELF FILLINGHIGH SPEED SIN-COS POP-SELF | 850805 83 850804 83 | FORTRAN II FORMATS-AT RUN-TIME MOD FORTRAN II LIBRARY FOR THE XDS 940 | 850963 83 870027 83 |
| FILTER., OF TIME SERIESCONVOLUTION, CORR | 890555 B3 | FORTRAN II MAG TAPE INPUT MOD920/930 | 850992 B3 |
| FILTERING UNIT 1/0 ROUTINECONVOLUTION & FIRST KIND, ORDER ZEROBESSEL FUNCTION- | 890221 B3 890177 B3 | FORTRAN II MAG TAPE OUTPUT MOD910/925 FORTRAN II MAG TAPE OUTPUT MOD920/930 | 850841 83 850998 83 |
| FIT ARBITRARY FUNCTIONCURVE/SURFACE | 890191 B3 | FORTRAN 11 MAGNETIC TAPE I/O ROUTINE | 89021 9 83 |
| FIT PROGRAMNON-LINEAR CURVE FITPOLYNOMIAL CURVE | 890192 B3 890186 B3 | FORTRAN II MEMORY SAVE FORTRAN II MOD. LOADER910/925 | 850838 83 850812 83 |
| FIX -FLOATING TO A FIXED SUBROUTINE | 851588 B3 | FORTRAN II MODIFICATION LOADER | 850965 B3 |
| FIXED SUBROUTINEFIX -FLOATING TO A FIXED TO FLOATING SUBROUTINEFLOAT - | 851588 B3 851587 B3 | FORTRAN II RAD LINKING PROCESSOR-RADLNK FORTRAN II RUN-TIME DEBUG SUBROUTINE | 890298 83 850680 83 |
| FL. PT. ARCTANGENT-ATFR, ATFD | 860675 B3 | FORTRAN II RUNTIME SYSTEM | 870028 B3 |
| FL. PT. EXTENDED PRECISION ARCTAN - ATFE FL. PT. EXTENDED PRECISION NATURAL LOG | 860650 B3 860646 B3 | FORTRAN II SYSTEM (STAND ALONE)910/925 FORTRAN II SYSTEM (STAND ALONE)920/930 | 850808 83 850957 83 |
| FL. PT. EXTENDED PRECISION SQUARE ROOT | 860637 B3 | FORTRAN II TYPE SUBR. (LONG CARRIAGE) FORTRAN II UNBUFFERED PRTR.MOD910/925 | 850708 B3 850859 B3 |
| FL. PT.EXTENDED PRECISION EXPONENTIAL FLAG OPERATION, FLGPOSINGLE INSTRUCTION | 860642 B3 890257 B3 | FORTRAN II 3 CONTR CARDS MOD910/925 | 850813 B3 |
| FLAG PACKING)BOOLIAN MATRIX (| 890199 B3 890257 B3 | FORTRAN II 9 CONTR CARDS MOD910/925 FORTRAN IV COMPILERXDS 92 | 850814 B3 890320 B3 |
| FLGPOSINGLE INSTRUCTION FLAG OPERATION, FLN -FLOATING NEGATE SUBROUTINE | 851586 B3 | FORTRAN IV COMPILER900 SERIES | 851583 B3 |
| FLNFLOATING NEGATE SUBROUTINE - FLOAT -FIXED TO FLOATING SUBROUTINE | 860616 83 851587 83 | FORTRAN IV ERROR CHECKING DEMO FORTRAN IV LIBRARY 9RDDISC,9WRDISC | 860700 83 861085 83 |
| FLOAT.POINTRUNGE-KUTTA GILL DIFF. EQU. | 860613 B3 | FORTRAN IV LIBRARY | 860095 B3 |
| FLOATING COMPLEX SINE AND COSINE - SNFC FLOATING NEGATE SUBROUTINE - FLN | 960635 B3 960616 B3 | FORTRAN IV LIBRARYREAL-TIME FORTRAN IV LIBRARY925/930 | 860265 B3 851300 B3 |
| FLOATING NEGATE SUBROUTINEFLN - | 851586 83 | FORTRAN LABEL TRACE POP (180 SYS) | 890308 B3 |
| FLOATING NORMALIZE SUBROUTINENORMZ - FLOATING POINT - SQFSQUARE ROOT | 851593 83 860623 83 | FORTRAN MEMORY SAVE ON MAG TAPE FORTRAN OCTAL DUMP SUBROUTINEREAL TIME | 890304 B3 890251 B3 |
| FLOATING POINT ARCTANGENT - ATF | 860629 B3 | FORTRAN PRECOMPILER FORT II-FORT IVH | 890384 83 |
| FLOATING POINT ARITHMETIC PKGE, FLPT92 FLOATING POINT COMPLEX ARCTANGENT - ATFC | 851597 83 860634 83 | FORTRAN PRINT SUBROUTINEFAST FORTRAN PROGRAMSCROSS REFERENCE FOR | 890224 83 89058 6 83 |
| FLOATING POINT COMPLEX EXPONENTIAL-EXFC | 860631 B3 | FORTRAN READ AND WRITE TAPE ROUTINES | 890335 83 89052 6 83 |
| FLOATING POINT COMPLEX LOGARITHM - LNFC FLOATING POINT COMPLEX SQUARE ROOT-SQFC | 860632 83 860633 83 | FORTRAN RUN-TIME DEBUGREAL-TIME FORTRAN SEARCH ARRAY | 890247 B3 |
| FLOATING POINT EXPONENTIAL - EXP | 860627 83 860672 83 | FORTRAN SOURCE CARDS TO P.T.COPY ROUTINE FORTRAN TO SYMBOL LANGUAGE RUN-TIME LIST | 850641 B3 890253 B3 |
| FLOATING POINT EXPONENTIAL EXFN.EXFT FLOATING POINT EXPONENTIALEXP - | 851596 B3 | FORTRANERASE MAGNETIC TAPE IN | 890356 B3 |
| FLOATING POINT LOGARITHM - LGF FLOATING POINT PACKAGE-FLPTPROGRAMMED | 860625 83 860617 83 | FORTRAN940 CONVERSATIONAL FORTRAN-II COMMON SOFTWARE PKG920/930 | 870022 83 850315 83 |
| FLOATING POINT POPDOUBLE PRECISION | 851047 B3 | FORTRAN-3 CONTINUATION CARD MODIFICATION | 850966 83 |
| FLOATING POINT SINE (COSINE)-SNF (CSF) FLOATING POINT TESTS 3.0UNIT 2 | 860628 B3 870032 B3 | FORTRAN-9 CONTINUATION CARD MODIFICATION FORTRANRANLABEL TRACE ROUTINE, L- | 850964 83 890250 83 |
| FLOATING POINTPACKING AND UNPACKING OF | 890337 B3 | FOR2DFAST FOURIER TRANSFORM | 890317 83 |
| FLOATING POINT, COMPLEX ARITH. PACKAGE FLOATING SUBROUTINEFLOAT -FIXED TO | 860630 83 851587 83 | FOURGFAST FOURIER TRANSFORM FOURIER COEFFICIENTS PERIODIC FUNCTIONS | 890314 83 89018 8 8 3 |
| FLOATING TO A FIXED SUBROUTINEFIX - | 851588 B3 | FOURIER TRANSFORMFORZDFAST | 890317 83 |
| FLOATING-HYPERBOLIC SINE AND COSINE-SHF FLOATING-POINT ARCTANGENT SUBRATAN- | 860626 B3 851151 B3 | FOURIER TRANSFORMFOURGFAST FOURIER TRANSFORMFOURTFAST | 890314 83 89031 3 83 |
| FLOATING-POINT NATURAL LOGARITHMLN- | 851149 B3 | FOURIER TRANSFORM FOURI FAST | 890316 B3 890315 B3 |
| FLOATING-POINT SINE-COSINE SUBRSIN/COS FLOATING-POINT SQUARE ROOT SUBRTSQRT - | 851150 83 851594 83 | FOURIER TRANSFORMFOUR2FAST FOURTFAST FOURIER TRANSFORM | 890313 B3 |
| FLOHCHART PROGRAMFORTRAN | 890267 B3 890776 B3 | FOUR1FAST FOURIER TRANSFORM FOUR2FAST FOURIER TRANSFORM | 890316 83 890315 83 |
| FLOHCHARTERFORTRAN FLPTPROGRAMMED FLOATING POINT PACKAGE- | 860617 B3 | FPMINGRADIENT MINIMIZATION ROUTINE - | 890180 B3 |
| FLPT92FLOATING POINT ARITHMETIC PKGE, FORMAT STATEMENTSXDS 910/925 FORTRAN 11 | 851597 B3 850833 B3 | FRAME DIAGNOSTIC)DIAGNOSTIC (MAIN- FRANKLIN PRINTER TEST PROGRAM | 851154 B3 850722 B3 |
| FORMATSSEISMIC DUMP A AND B | 850740 B3 | FREQUENCY BY PRONY'S METHOD | .890189 B3 |
| FORMATS-AT RUN-TIME MODFORTRAN II FORT II CARD/PAPER TAPE INPT MOD920/930 | 850963 83 850989 83 | FREQUENCY RESPONSE OF DIGITAL TRANSFER FUNCTION & SUBROUTINEHORD/BIT ORIENTED | 890275 83 890332 83 |
| FORT 11 MAG TPE/PAPER TPE OUTPUT920/930 | 850997 B3 | FUNCTION JO, JI YO, YIBESSEL | 890174 83 890176 83 |
| FORT II-FORT IVHFORTRAN PRECOMPILER FORT IV COMPILER AND LIBRARIES | 890384 B3 860035 B3 | FUNCTION KN(X),BESSEL FUNCTION SUBROUTINEBESSEL | 890178 B3 |
| FORT IVHFORTRAN PRECOMPILER FORT II- | 890384 B3 851015 B3 | FUNCTIONCURVE/SURFACE FIT ARBITRARY | 890191 83 89017 3 83 |
| FORTRAN BUFFERED PRINTER MODIFICATION FORTRAN CALCOMP PLOTTER ROUTINE | 890241 B3 | FUNCTION-FIRST KIND, ORDER ZEROBESSEL | 890177 B3 |
| FORTRAN CARD READ SUBROUTINE (216 SYS) FORTRAN COMMON SOFTWARE PKG920/930 R/T | 890306 B3 850480 B3 | FUNCTIONAL ASSEMBLERCONVERSATIONAL FUNCTIONS - ERRF, ZGAUSSF, PPROBABILITY | 89052 8 B3 890347 B3 |
| FORTRAN COMMON SOFTWARE PKGREAL-TIME | 850400 B3 | FUNCTIONSARCSIN AND ARCCOS | 890158 83 |
| FORTRAN DEMONSTRATION PROGRAMXDS FORTRAN DRUM LINKING SYSTEM910 | 850698 83 850862 83 | FUNCTIONSCOMPLEX APITHMETIC FUNCTIONSFOURIER COEFFICIENTS PERIODIC | 890354 B3 89018 8 B3 |
| FORTRAN DRUM READ/WRITE STATEMENTS | 851026 B3 | FUNCTIONS-JO.JI.YO.YI.10.II.KO.KIBESSEL G.D./CONVAIRANALOG TEST FOR | 890179 83 851618 83 |
| FORTRAN EXTENDER LIBBIT HANDLING & I/O FORTRAN FLOWCHART PROGRAM | 090310 B3 090267 B3 | G.D./CONVAIRSAMPLE AND HOLD TEST FOR | 851619 83 |
| FORTRAN FLOWCHARTER | 890776 B3 850686 B3 | G.D./CONVAIRSPECIAL ACCEPTANCE TEST FOR GAMMA FUNCTION | 851620 83 890173 83 |
| FORTRAN FREE INTERRUPTS SUBROUTINE FORTRAN HOLLERITH LITERALS MODIFICATION | 850967 B3 | GASSUPERCOMPRESSIBILITY FACTORS NATURAL | 890207 B3 |
| FORTRAN II (COVER)920/930 REAL TIME FORTRAN II (S/A) SYSTEM910/925 R.T. | 850984 83 850830 83 | GAUSSIAN DISTRIBUTION TEST ANALOG INPUTS GAUSSIAN NORMAL PROBABILITY INTEGRAL | 850710 B3 890206 B3 |
| FORTRAN II BUFFERED PRT. MOD910/925 | 850857 B3 | GAUSSIAN NORMAL PROBABILITY ORDINATE | 890205 B3 851617 B3 |
| FORTRAN II CARD INPUT MOD910/925 FORTRAN II CARD INPUT MOD920/930 | 850835 B3 850990 B3 | GD/C ATSANALOG ACCURACY TEST FOR GD/C ATSANALOG/NSC-II TEST FOR | 851616 83 |
| FORTRAN II CARD OUTPUT MOD910/925 | 850837 B3 | GD/C ATSDIGITAL 1/0 TEST FOR GEAR TEST 3.0UNIT 23 CTE 10/11 COM | 851615 83 870039 83 |
| FORTRAN II CARD OUTPUT MOD920/930 FORTRAN II CARD PUNCH TAPE MOD910/925 | 850991 83 850836 83 | GEN. TEST PROGRAMBOEING RANDOM NUM. | 860777 B3 |
| FORTRAN II COMMON SOFTWARE PACKAGE FORTRAN II COMPILER DUMP900 SERIES | 850210 B3 850662 B3 | GENERA-PLOTTERTERGENERAL GRAPHIC GENERAL DRUM HANDLER | 890228 B3 85070 5 B3 |
| FORTRAN 11 COMPILER UNBUF. PRT920/930 | 851017 B3 | GENERAL ELECTRIC MOL SYS. CHECK OUT PROG | 860789 B3 |
| FORTRAN II COMPILER940 FORTRAN II DRUM READ/HRITE MODIFICATION | 870020 B3 850864 B3 | GENERAL GRAPHIC GENERA-PLOTTERTER GENERAL MAG TAPE ROUTINEA | 890228 83 |
| FORTRAN II FAST LISTING MOD910/925 | 050858 B3 | GENERAL PLOTTING PACKAGE GENERATOR (RANDX)PSEUDO-RANDOM NUMBER | 890350 83 890214 83 |
| FORTRAN 11 FORMAT STATEMENTSXDS 910/925 | 850833 B3 | SERENATURE TRANSPORTER SECOND BRIDGE HOUSE | |

| KEY TITLE | CAT.NO CL | KEY TITLE | CAT.NO CL |
|--|--------------------------|---|--|
| GENERATOR FOR RAD MONARCHBOOTSTRAP | 850023 B3 | INSTRUCTIONDVASIM -SIMULATED DVA | 851589 B3 |
| GENERATOR PROGRAMPAYROLL GENERATORBINARY PAPER TAPE BOOTSTRAP + | 860743 B3 850634 B3 | INSTRUCTIONDVBSIM -SIMULATED DVB INSTRUCTIONMUASIM -SIMULATED MUA | 851590 83 851591 83 |
| GENERATOR BLANK PAPER TAPE LEADER | 890223 83 | INSTRUCTIONMUBSIM -SIMULATED MUB | 851592 B3 |
| GENERATORPAYROLL GENERATORPROGRAM CORRECTION TAPE | 851010 B3 850701 B3 | INTEGRAL EVALUATIONDEFINITE INTEGRALGAUSSIAN NORMAL PROBABILITY | 890181 93 89020 6 93 |
| GENERATORRANDOM NUMBER GENERATORUNCORRELATED RANDOM NUMBER | 890211 B3 | INTEGRALREAL EXPONENTIAL | 890175 83 890182 83 |
| GENERATOR, RANDURANDOM NUMBER | 890212 B3 | INTEGRATION BY SIMPSONSDOUBLE INTEGRATIONHYBRID RECTANGULAR | 860686 B3 |
| GILL DIFF. EQU. FLOAT.POINTRUNGE-KUTTA GILL DIFFERENTIAL EQUATIONSRUNGE-KUTTA | 860613 B3 860612 B3 | INTEGRATIONHYBRID RUNGE-KUTTA GILL INTEGRATIONRUNGE-KUTTA | 660681 83 89018 3 83 |
| GILL INTEGRATIONHYBRID RUNGE-KUTTA | 860681 B3 | INTER-COMPUTER COUPLER TEST | 851580 83 |
| GO MO KU GRADIENT MINIMIZATION ROUTINE - FPMIN | 850968 B3 890180 B3 | INTER-COMPUTER COUPLER TEST INTERFACE TESTNASA EDWARDS | 860800 83 86079 5 83 |
| GRAPH ROUT FOR THE LINEPRINTER-PLOTTING | 890259 B3 | INTERFACE TESTNORTH AMERICAN HYBRID | 86079 7 83 |
| GRAPH ROUTINES FOR LINE PRINTER-PLOTTING GRAPHIC GENERA-PLOTTERTERGENERAL | 890260 B3 | INTERFACE TESTUSNPOS HYBRID INTERLACE I/O TEST PROGRAMINTERRUPT- | 86107 6 83 851152 83 |
| GRAPHIC PACKAGE-CRT4-PLOTTINGUNIVERSAL | 890297 B3 890255 B3 | INTERLACE)CARD PUNCH TEST PROG/MOD.9157 INTERNAL SORT (SORTAC.SORTDC) | 850659 B3 860879 B3 |
| HALT AND TRANSFER SIMULATION ROUTINE HANDLER (CDR)CARD READ | 851167 83 | INTERPOLATION (1 ARGUMENT)LINEAR | 860684 83 |
| HANDLER (EXTENDED MODE)MAGNETIC TAPE HANDLER (MTAPE)MAGNETIC TAPE | 851112 93 860732 83 | INTERPOLATION (2 ARGUMENTS)LINEAR INTERPOLATION (3 ARGUMENTS)LINEAR | 860683 83 860682 83 |
| HANDLER CDRPI/O | 860731 B3 | INTERPOLATION OR EXTRAPOLATION ROUTINE | 890295 B3 |
| HANDLER 925/930PAPER TAPE - TYPEWRITER HANDLERDISK (RAD) | 851106 B3 890300 B3 | INTERPOLATIONLAGRANGE INTERPOLATION-1 INDEPENDENT VARILINEAR | 890185 B3 850914 B3 |
| HANDLERGENERAL DRUM | 850705 B3 | INTERPOLATION-2 INDEPENDENT VARILINEAR | 850915 B3 |
| HANDLERSDEE-6D SIMULATOR SYSTEM HANDLING & 1/0FORTRAN EXTENDER LIBBIT | 850742 B3 890310 B3 | INTERPOLATION-3 INDEPENDENT VARILINEAR INTERRUPT ARM-DISARM FEATURE TEST PROGRA | 850916 B3 860769 B3 |
| HANDLING ROUTINE - TAPETAPE | 890261 83 850805 83 | INTERRUPT DIAGNOSTIC PROGRAM INTERRUPT EXERCISER | 870004 83 86066 7 83 |
| HIGH SPEED ARCTANGENT POP-SELF FILLING HIGH SPEED SIN-COS POP-SELF FILLING | 850804 B3 | INTERRUPT SOURCE TESTPRIORITY | 850735 B3 |
| HIGH SPEED 4 DIGIT BIN TO DEC POP-SELF F HILL-CLIMBING SUBROUTINECLIMBI A | 850803 B3 890167 B3 | INTERRUPT TEST ROUTINESPECIAL PRIORITY INTERRUPT TESTPRIORITY | 860759 B3 850711 B3 |
| HISTOGRAPH PLOT LINE PRINTER-HSTPLOT | 890290 B3 | INTERRUPT TESTERPOWER FAIL-SAFE | 850720 B3 |
| HISTORYAIRPLANE LAT-DIR TIME HISTPLOTHISTPRINT AND | · 890284 83 890345 83 | INTERRUPT-INTERLACE I/O TEST PROGRAM INTERRUPTS SUBROUTINEFORTRAN FREE | 851152 83 85068 6 83 |
| HISTPRINT AND HISTPLOT HOLD TEST FOR G.D./CONVAIRSAMPLE AND | 890345 B3 851619 B3 | INTERUPT AND INTRLACE15KC MAG TAPE TEST INTRLACE15KC MAG TAPE TEST-INTERUPT AND | 850673 83 850673 83 |
| HOLLERITH CONSTANT MOD910/925 F-11 | 850815 B3 | INVERSE Z-TRANSFORM | 890276 B3 |
| HOLLERITH LITERALS MODIFICATIONFORTRAN HOUSTON LEMACCEPT TEST PROG.FOR NASA | 850967 B3 860790 B3 | INVERSION (RMINV)REAL MATRIX INVERSION-CMINVCOMPLEX MATRIX | 890194 B3 880657 B3 |
| HSDL COUPLER EXERCISERJPL | 850744 B3 | INVERSION-RMINVREAL MATRIX INVERSION, DETERMINANT CALCULATIONMATRIX | 860655 93 |
| HSDL TEST PROGRAMJPL HSTPLOTHISTOGRAPH PLOT LINE PRINTER- | 850743 83 890290 83 | 10)NOPRINT, READ AND REREAD PACKAGE (| 890334 83 |
| HYBRID ADAMS-MOULTON DIFF. EQUATIONS HYBRID CALL LIBRARYNAA DES-1 | 860685 83 860799 83 | 1TH BIT OF A HORDSET OR DETECT 1VHFORTRAN PRECOMPILER FORT II-FORT | 890264 B3 890384 B3 |
| HYBRID EXEC. LIB. FOR AEROSPACE CORP | 851064 B3 | 10,11,K0,K1BESSEL FUNCTIONS-J0,J1,Y0,Y1 | 890179 B3 |
| HYBRID EXECUTION LIBRARYNASA EDHARDS HYBRID EXECUTIVE LIBRARYUSNPGS | 860796 B3 861078 B3 | 11,K0,K1BESSEL FUNCTIONS-J0,J1,Y0,Y1,10 JPL APS-100 SYSTEMS DIAGNOSTIC PROGRAM | 851137 83 |
| HYBRID EXECUTIVENORTH AMERICAN AVIATION HYBRID INTERFACE TESTNORTH AMERICAN | 860798 B3 860797 B3 | JPL HSDL COUPLER EXERCISER JPL HSDL TEST PROGRAM | 850744 B3 850743 B3 |
| HYBRID INTERFACE TESTUSNPGS | 861076 B3 | JPL TCP ANALOG EQUIPMENT DEMONSTRATION | 851027 B3 |
| HYBRID RECTANGULAR INTEGRATION HYBRID RUNGE-KUTTA GILL INTEGRATION | 860686 B3 860681 B3 | JX35 TESTER925DACC DIAGNOSTIC TEST WITH JO, J1 YO, Y1BESSEL FUNCTION | 890174 83 |
| HYBRID 2-POINT PREDICTOR | 860687 B3 | JO, JI, YO, YI, 10, 11, KO, KI BESSEL FUNCTIONS | 89017 9 83 890174 83 |
| HYBRID 4-POINT CORRECTOR HYBRID 4-POINT PREDICTOR | 860689 B3 860688 B3 | J1 YO, Y1BESSEL FUNCTION JO, J1,Y0,Y1,I0,I1,K0,K1BESSEL FUNCTIONS-JO | 890179 B3 |
| HYPERBOLIC SINE AND COSINE-SHFFLOATING- HYPERBOLIC SINE, COSINE AND TANGENT | 860626 B3 890160 B3 | KC MAGNETIC TAPE EXERCISER15 KIND, ORDER ZEROBESSEL FUNCTION-FIRST | 851145 83 890177 83 |
| INDEPENDENT VARILINEAR INTERPOLATION-1 | 850914 B3 | KN(X),BESSEL FUNCTION | 890176 B3 850988 B3 |
| INDEPENDENT VARILINEAR INTERPOLATION-2 INDEPENDENT VARILINEAR INTERPOLATION-3 | 850915 B3 850916 B3 | KUGO MO KUTTA GILL DIFF. EQU. FLOAT.POINTRUNGE- | 860813 B3 |
| INDEX PROGRAM FOR SIGMAKHIC INDUSTRY PACKAGEUTILITIES | 860698 B3 890285 B3 | KUTTA GILL DIFFERENTIAL EQUATIONSRUNGE- KUTTA GILL INTEGRATIONHYBRID RUNGE- | 860612 83 860681 83 |
| INPT MOD920/930 FORT 11 CARD/PAPER TAPE | 850989 B3 | KUTTA INTEGRATIONRUNGE- | 890183 8 3 |
| INPUT AND STORESAMPLE DATA FROM ANALOG INPUT FROM MAG. TAPEREAD BLOCKED | 890292 B3 | KHIC INDEX PROGRAM FOR SIGMA KO,KIBESSEL FUNCTIONS-JO,JI,YO,YI,IO,II | 86069 8 B3 89017 9 B3 |
| INPUT MOD910/925 FORTRAN II CARD INPUT MOD920/930 FORTRAN II CARD | 850835 B3 850990 B3 | K1BESSEL FUNCTIONS-J0,J1,Y0,Y1,10,11,K0 LABEL AND POSITIONINGTAPE | 89017 9 B3 890342 B3 |
| INPUT MOD920/930 FORTRAN II MAG TAPE | 850992 B3 | LABEL TRACE POP (130 SYS)FORTRAN | 890308 B3 |
| INPUT ONE CARD LOADERBINARY INPUT TABLCONQUBLDR DD-OPT PUNCH FOR | 850648 B3 890539 B3 | LABEL TRACE ROUTINE, L-FORTRANRAN LABEL TRACE, MODIFIED 160 SYS | 890250 83 890301 83 |
| INPUTPAPER TAPE LOADERBINARY | 860716 B3 | LABEL TRACE, 160SYSSELECTIVE LABELINGPLOT PACKAGE - NON- | 890302 83 |
| INPUT-BASIC PAPER TAPE LOADERBINARY INPUT-MAGNETIC TAPE ABSOLUTE LDRBINARY | 850644 B3 850667 B3 | LABELINGPLOT PACKAGE WITH | 89023 2 B3 |
| INPUT-ONE CARD LOADEROCTAL INPUT-THO CARD LOADERBINARY | 850653 B3 850649 B3 | LAGRANGE INTERPOLATION LANG. PRECOMPILERRPL, A DATA REDUCTION | 890185 83 89028 6 83 |
| INPUT-1 CARD ABS. LOADERBINARY | 860721 B3 | LAT-DIR TIME HISTORYAIRPLANE LDRBINARY INPUT-MAGNETIC TAPE ABSOLUTE | 890284 83 850667 83 |
| INPUT-1 CARD LOADEROCTAL INPUT/OPTIONAL MAG. TAPECARD SYMBOLIC | 860723 B3 890272 B3 | LEADER GENERATORBLANK PAPER TAPE | 890283 83 |
| INPUT/OPTIONAL MAGPSI OR TSI SYMBOLIC INPUT/OUTPUT PACKAGE-QUINOUTMONITOR | 890271 B3 890246 B3 | LEAST SQUARE SUBROUTINE, LSQ LEAST SQUARES POLYNOMIAL | 89020 9 83 8901 87 83 |
| INPUTSGAUSSIAN DISTRIBUTION TEST ANALOG | | LEGENDRE POLYNOMIAL LEMACCEPT TEST PROG.FOR NASA HOUSTON | 890172 93 860790 83 |
| INSPECTION/CORRECTION BY TYPEWRITER INSTSIMULATION OF SKIP ON COMPARISON | 890256 B3 | LEVEL PAPER TAPE TESTMODEL 9333 7 OR 8 | 850726 B3 |
| INSTRUCTION DIAGNOSTIC PROGRAM INSTRUCTION DIAGNOSTIC | 870003 B3 850671 B3 | LEVEL READER/PUNCH TEST7/8 LGFFLOATING POINT LOGARITHM - | 860007 93 86062 5 83 |
| INSTRUCTION DIAGNOSTICAUTOMATIC | 860664 B3 851102 B3 | LGFN,LGFTLOGARITHM (BASE E OR 10)- LGFTLOGARITHM (BASE E OR 10)-LGFN, | 860674 83 860674 83 |
| INSTRUCTION DIAGNOSTIC925 INSTRUCTION DIAGNOSTIC930 EXAMINER | 851050 B3 | LIB. FOR AEROSPACE CORPHYBRID EXEC. | 851064 83 |
| INSTRUCTION FLAG OPERATION, FLGPOSINGLE | 890257 B3 | LIBBIT HANDLING & I/OFORTRAN EXTENDER | 890310 B3 |

KEY TITLE CAT.NO CL KEY TITLE CAT.NO CL MAG TAPE TRANSFORMATION (TRANSFORM)...

MAG TAPE...FORTRAN MEMORY SAVE ON

MAG TAPE...FORTRAN MEMORY SAVE ON

MAG TEPPAPER TPE OUTPUT...920/930 FORT II

MAG. TAPE...CARD SYMBOLIC INPUT/OPTIONAL

MAG. TAPE...CARD SYMBOLIC INPUT/OPTIONAL

MAG...PSI OR TSI SYMBOLIC INPUT/OPTIONAL

MAGNETIC TAPE ABSOLUTE LDR...BINARY INPUT
MAGNETIC TAPE COPIER...PAPER TAPE AND

MAGNETIC TAPE DUMP...RAD TO

MAGNETIC TAPE EDUMP...RAD TO

MAGNETIC TAPE EDUMP...RAD TO

MAGNETIC TAPE EXERCISER...MTE-1

MAGNETIC TAPE EXERCISER...MTE-2

MAGNETIC TAPE EXERCISER...MTE-1

MAGNETIC TAPE EXERCISER...MTE-1

MAGNETIC TAPE EXERCISER...MULTI
MAGNETIC TAPE EXERCISER...MSTE-2

MAGNETIC TAPE EXERCISER...MSTE-2

MAGNETIC TAPE EXERCISER...MSTE-1

MAGNETIC TAPE EXERCISER...MSTE-2

MAGNETIC TAPE EXERCISER...MSTE-2

MAGNETIC TAPE HANDLER (EXTENDED MODE)...

MAGNETIC TAPE HANDLER (MTAPE)...

MAGNETIC TAPE I/O ROUTINE...FORTRAN II

MAGNETIC TAPE I/O ROUTINE...FORTRAN II

MAGNETIC TAPE POSITIONING ROUTINES...

MAGNETIC TAPE POSITIONING ROUTINES...

MAGNETIC TAPE PROGRAM...CORE DUMP TO LIBPACK...MONARCH ...
LIBRARIES...FORT IV COMPILER AND
LINEAR CURVE FIT PROGRAM...NONLINEAR INTERPOLATION (1 ARGUMENT)...
LINEAR INTERPOLATION (2 ARGUMENTS)...
LINEAR INTERPOLATION (3 ARGUMENTS)... 850669 83 860734 B3 860035 B3 890304 83 850997 83 860733 83 890192 B3 860684 B3 860683 83 890272 B3 LINEAR INTERPOLATION (3 ARGUMENTS)...
LINEAR INTERPOLATION-1 INDEPENDENT VARI...
LINEAR INTERPOLATION-2 INDEPENDENT VARI...
LINEAR INTERPOLATION-3 INDEPENDENT VARI...
LINEAR PLOT PACKAGE...SEMI-LOG/
LINEAR PLOTTING PACKAGE...
LINEAR POLYNOMIAL SUBSTITUTION. POLYSUBS...
LINEAR REGRESSION ANALYSIS...
LINEAR REGRESSION... HULTIPLE
LINEAR REGRESSION... HULTIPLE
LINEPRINTER...CORE DUMP TO UNBUFFERED
LINEPRINTER-PLOTTING...GRAPH ROUT FOR THE
LINK O BOOTSTRAP FOR DRUM...
LINKING PROCESSOR-FADLNK...FORTRAN 11 RAD
LINKING SYSTEM...910 FORTRAN DRUM
LINKING UNDER MONAFICH...DEMONSTRATION OF 890220 B3 860682 **83** 850914 **83** 890271 **B3** 850667 **B3** 850915 83 850664 **83** 851614 **83** 850916 B3 890233 **8**3 890379 B3 861082 83 890164 B3 850663 B3 851113 83 851054 83 890217 B3 890208 83 890240 B3 890259 B3 851181 B3 851171 B3 850707 B3 890298 83 850696 R3 850862 **83** 851112 83 850678 83 860732 B3 LIST TAPE ROUTINE... 851144 B3 850637 B3 890219 83 LIST...BINARY PAPER TAPE
LIST...FORTRAN TO SYMBOL LANGUAGE RUN-TIME
LISTING MOD....910/925 FORTRAN 11 FAST
LISTING OUTPUT SUBE...TYPEHRITER (STD)
LISTING OUTPUT...TYPEHRITER (15'CARRIAGE)
LISTING SUBROUTINE...LINE PRINTER
LITERALS MODIFICATION...FORTRAN HOLLERITH
LN-FC...FLOATING POINT COMPLEX LOGARITHM LOAD...940 DISC DUMP/
LOAD...MONAPCH PATLICABER (890356 83 890253 B3 890340 B3 MAGNETIC TAPE PROGRAM...CORE DUMP TO MAGNETIC TAPE SUBROUTINE (MTAPE)... MAGNETIC TAPE SYSTEM EXERCISER...MULTI-MAGNETIC TAPE SYSTEM EXERCISER-15KC... 890239 83 851169 83 850858 RT 890262 **83** 890263 83 850676 B3 850674 B3 890266 83 850967 B3 851149 B3 MAGNETIC TAPE TEST PROGRAM FOR 925/930...
MAGNETIC TAPE TEST PROGRAM Y BUFFER...42KC
MAGNETIC TAPE TEST PROGRAM...
MAGNETIC TAPE TEST PROGRAM... 851114 B3 850681 83 860632 83 870014 83 851170 B3 LNFC...FLOATING POINT COMPLEX LOGARITHM LOAD...940 DISC DUMP/
LOAD)...MONARCH RAD LOADER (
LOAD)...MONARCH RAD LOADER (
LOADE...BINARY PAPER TAPE RELOCATING UPPER
LOADER (LOAD)...MONARCH RAD
LOADER (LOAD)...MONARCH RAD
LOADER (GUBLDR)...LNIVERSAL BINARY
LOADER FOR 920/930...SHORT RELOCATING
LOADER FOR 920/930...SHORT RELOCATING
LOADER HITH CONSTANTS...ABSOLUTE BINARY
LOADER...BASIC 2 CARD RELOCATABLE
LOADER...BINARY INPUT -PAPER TAPE
LOADER...BINARY INPUT -PAPER TAPE
LOADER...BINARY INPUT-BASIC PAPER TAPE
LOADER...BINARY INPUT-THO CARD
LOADER...BINARY INPUT-TAPER TAPE
LOADER...BINARY INPUT-TAPER BOOTSTRAP
LOADER...BINARY INPUT-TAPER BOOTSTRAP
LOADER...BINARY PAPER TAPE BOOTSTRAP
LOADER...BINARY PAPER TAPE UNIVERSAL
LOADER...FORTRAN II MODIFICATION
LOADER...COCTAL INPUT-ONE CARD 860739 B3 MAGNETIC TAPE TEST PROGRAM...

MAGNETIC TAPE TEST PROGRAM...

MAGNETIC TAPE TEST PROGRAM...

TRACK

MAGNETIC TAPE TEST PROGRAM...

TRACK

MAGNETIC TAPE TEST PROGRAM...

TRACK

MAGNETIC TAPE TEST PROGRAM...

BUFFER...

TEST PROGRAM... 850004 83 850001 83 890885 B3 851134 B3 851163 B3 860787 B3 850004 B3 860793 83 850001 B3 850695 B3 MAGNETIC TAPE TEST...15KC
MAGNETIC TAPE...COUNT FILES/RECORDS ON
MAGNETIC TAPE...EDIT (SERVICE PROGRAM) FOR
MAGNETIC TP EXERCISER, 2 TP SYTM-15KC... 851162 B3 850675 B3 890663 B3 850697 B3 890341 B3 890542 B3 850650 B3 850879 B3 860720 B3 MAGTP...
MAIN-FRAME DIAGNOSTIC)...DIAGNOSTIC 890963 B3 851154 B3 850648 83 MAKE ROUTINE...9300 STAND-ALONE SYSTEM-MANAGE SYSTEM (COVER)...
MANAGE SYSTEM (COVER)...9300
MANAGEMENT SYSTEM (CPM) COVER...PROJECT MANAGEMENT SYSTEM (CPM) COVER...PROJECT MANAGEMENT SYSTEM (CPM) COVER...PROJECT 860716 83 850644 83 860692 **83** 851220 B3 850649 B3 860721 B3 860475 B3 850181 R3 851161 83 860733 83 850362 B3 R60592 B3 850965 B3 MANIPULATION...LOGICAL, BIT, AND CHARACTER 890288 B3 LOADER...OCTAL INPUT-ONE CARD LOADER...OCTAL INPUT-1 CARD LOADER...THREE CARD RELOCATABLE LOADER...UNIVERSAL 850653 83 MAP DISC...940
MARS ATMOSPHERE ROUTINE(196...U.S.STANDARD 870012 83 860723 B3 890281 83 890287 83 890199 83 MATHEMATICAL COMPILER...ON-LINE MATRIX (FLAG PACKING)...BOOLIAN 850652 83 850645 B3 MATRIX (FLAG PACKING)...BOOLIAN
MATRIX ADDITION (RMADD)..REAL
MATRIX ADDITION-CHADD...COMPLEX
MATRIX ADDITION-RMADD...REAL
MATRIX INVERSION (RMINV)...REAL
MATRIX INVERSION-CHINV...COMPLEX
MATRIX INVERSION-RMINV...REAL
MATRIX INVERSION-RMINV...REAL
MATRIX INVERSION-RMINV...REAL
MATRIX INVERSION-RMINV...REAL LOADER...UNIVERSAL LOADER...910/925 FORTRAN II MOD. 890197 B3 860658 B3 LOADER...UNIVERSAL
LOADER...910/925 FCRTRAN 11 MOD.
LOADER...9300 PAPER TAPE BASIC RELOCATABLE
LOCK-OUT AND POHER FAIL-SAFE TEST...MEMORY
LOCK-OUT AND POHER FAIL-SAFE TEST...MEMORY
LOG...FL. PT. EXTENDED PRECISION NATURAL
LOG./LINEAR PLOT PACKAGE...SEMILOGARITHM (BASE E CR 10)-LGFN,LGFT...
LOGARITHM - LOF...FLOATING POINT
LOGARITHM - LNFC...FLOATING POINT COMPLEX
LOGARITHM SUBROUTINE TO BASE E OR 10...
LOGARITHM...LN-FLOATING-POINT NATURAL
LOGAXIS PLOTTING SUBROUTINE...
LOGICAL,BIT, AND CHARACTER MANIPULATION...
LOGSCALE...PLOTTING SUBROUTINE
LONG CARRIAGE)...FCRTRAN 11 TYPE SUBR. (
LSQ...LEAST SQUARE SUBROUTINE,
M.T. PAPER TAPE OUTPUT MOD...910/925 F-11
MACHINE LANGUAGE LIBRARY (COVER)...
MAG TAPE COMPATABILITY PROGRAM...CFE-1 AND
MAG TAPE COPY AND VERIFY PROGRAM...
MAG TAPE DIAGNOSTICS...9-SERIES
MAG TAPE EXERCISER...9TK EXTEND MODE MULTI
MAG TAPE EXERCISER...9TK EXTEND MODE MULTI
MAG TAPE EXERCISER...9TK EXTEND MODE MULTI
MAG TAPE FYERCISER...9TK EXTEND MODE MULTI 860609 B3 850812 83 860605 B3 851057 B3 860651 B3 890194 B3 860657 B3 860758 B3 860646 83 860655 83 890233 B3 890201 B3 MATRIX MULTIPLICATION...
MATRIX MULTIPLICATION-CMMUL...COMPLEX 860674 83 890193 RT 860625 B3 860658 B3 MATRIX MULTIPLY (RMMUL)...REAL
MATRIX MULTIPLY (RMMUL)...REAL
MATRIX MULTIPLY-RMMUL...REAL
MATRIX PACKAGE FOR ARITHMETIC OPERATIONS..
MATRIX SUBTRACTION - RMSUB...REAL
MATRIX SUBTRACTION.CRMSUB)...REAL 860632 B3 890195 B3 860654 B3 860636 B3 851149 83 890204 B3 860652 B3 890352 B3 890288 83 890198 83 MATRIX SUBTRACTION-CHSUB...COMPLEX MATRIX TRANSPOSE (RMTPA)...REAL MATRIX TRANSPOSE-CHTRA...COMPLEX MATRIX TRANSPOSE-RMTRA...REAL 890353 B3 860659 B3 890196 83 860860 83 890209 B3 850842 B3 860653 B3 860460 B3 MEDIA CONVERSION ROUTINE.. 850642 83 860772 B3 860563 B3 MEDIA. 860694 B3 MEMORY ACCESS DIAGNOSTIC PROGRAM... 870001 R3 MEMORY ACCESS DIAGNOSTIC PROGRAM...
MEMORY ADDRESS TEST...
MEMORY ADDRESSING TEST...930 BIG
MEMORY BINARY COPY ROUTINE...DRUM, P.T.
MEMORY CLEAR - BOOTSTRAP...SELECTIVE
MEMORY DIAGNOSTIC PROGRAM... 890896 B3 870008 B3 851052 B3 850704 B3 860737 B3 850755 B3 MAG TAPE EXERCISER...91K EXTEND MODE MULTI MAG TAPE EXERCISER, 4 CHAR. MODE...MTE-3 MAG TAPE EXERCISOR 4 CHAR MODE...MTE 3 MAG TAPE EXERCISOR...EXTENDED MODE MULTI 850625 B3 870002 B3 860794 B3 860764 B3 851056 B3 860738 B3 MEMORY DIAGNOSTIC...
MEMORY DIAGNOSTIC... 850672 B3 860663 B3 MAG TAPE EXERCISOR. .EXTENDED MODE MULTI MAG TAPE EXERCISOR, 3 CHAR MODE...MTE-3 MAG TAPE INPUT MOD....920/930 FORTRAN II MAG TAPE OUTPUT MOD....910/925 FORTRAN II MAG TAPE OUTPUT MOD....920/930 FORTRAN II MAG TAPE POSITION FOUTINE... MAG TAPE ROUTINE... A GENERAL MAG TAPE STANDARD FILL SIMULATOR(910/920.. MAG TAPE SYS EXERCISER, Y BUF...42KC MAG TAPE TEST-INTERUPT AND INTRLACE...15KC MAG TAPE TO BUFFERED LINE PRINTR...CARD OR MEMORY DIAGNOSTIC...BIG
MEMORY DIAGNOSTIC...BIG
MEMORY DIAGNOSTIC...B-1B-32K
MEMORY DIAGNOSTIC...9-1B-32K
MEMORY DIAGNOSTIC...935
MEMORY DIAGNOSTIC...930 EXAMINER
MEMORY DUMP (PRINTER)...ONE CARD OCTAL
MEMORY DUMP for 9372 PRINTER...
MEMORY DUMP FOR 9372 PRINTER... 851055 B3 850992 B3 860696 83 851155 83 850841 B3 850998 B3 851156 B3 851101 B3 890294 **B3** 890541 **B3** 851049 B3 860641 83 850666 83 850682 83 860722 83 890252 B3 850673 B3 850684 B3 MEMORY DUMP...BUFFERED LINE PRINTER
MEMORY LOCK-OUT AND POWER FAIL-SAFE TEST.. 851057 B3

| KEY TITLE | CAT.NO CL | KEY TITLE | CAT.NO CL |
|---|--|--|--|
| MEMORY LOCK-OUT AND POHER FAIL-SAFE TES | | MUA INSTRUCTIONMUASIM -SIMULATED | 851591 83 |
| MEMORY SAVE ON MAG TAPEFORTRAN MEMORY SAVEFORTRAN II | 890304 83 850638 83 | MUASIM -SIMULATED MUA INSTRUCTION MUB INSTRUCTIONMUBSIM -SIMULATED | 851591 83 851592 83 |
| MEMORY TEST FOR THE 3RD 16K 3.0UNIT | 4 870034 B3 | MUBSIM -SIMULATED MUB INSTRUCTION | 851592 83 |
| MEMORY TEST FOR THE 4TH 16K 3.0UNIT MEMORY TEST PROGRAM9161 DRUM | 5 870035 83 850716 83 | MULTI MAG TAPE EXERCISOREXTENDED MODE MULTI-MAG TAPE EXERCISER9TK EXTEND MODE | 860738 B3 850755 B3 |
| MEMORY TESTS FOR THE 2ND 16K 3.0UN11 | 3 870033 B3 | MULTI-MAG TAPE EXERCISER9TK EXTEND MODE | 860794 83 |
| MEMORY TO LINE PRINTER OCTAL DUMP MEMORY TYPE-OUT, REDUNDANCY ELIMINATION | | MULTI-MAGNETIC TAPE EXEREXTENDED MODE MULTI-MAGNETIC TAPE EXERCISER | 851113 83 851171 83 |
| | 050000 07 | MULTI-MAGNETIC TAPE SYSTEM EXERCISER | 850676 B3 |
| MEMORYZERO MERGE (COVER)SORT/ MERGE (COVER)910/925 SORT MERGE (COVER)920/930 SORT | 860740 B3 850848 B3 | MULTIPLE LINEAR REGRESSION MULTIPLEX CHANNEL TEST 925/930DATA | 89020 8 83 85111 5 83 |
| MERGE (COVER)920/930 SORT | 851006 B3 | MULTIPLEX CHANNEL TESTDATA | 860744 B3 |
| MERGE MERGE-EXCHANGESORT-MODIFIED SHELL | 860742 B3 890336 B3 | MULTIPLICATIONMATRIX MULTIPLICATION-CMMULCOMPLEX MATRIX | 890193 B3 860658 B3 |
| META-SYMBOL ASSEMB. COMMON SOFTWARE PKO | 850065 B3 | MULTIPLY (RMMUL)REAL MATRIX | 890195 B3 |
| META-SYMBOL ASSEMBLER-COVER META-SYMBOL PROC93CP | 86007 5 B3 850090 B3 | MULTIPLY SUBROUTINE-DPMDOUBLE PRECISION MULTIPLY-RMMULREAL MATRIX | 860654 83 |
| METHODFREQUENCY BY PRONY'S | 890189 B3 | MUSIC - FOR 910/920 | 990668 B3 |
| MINIMIZATION ROUTINE - FPMINGRADIENT MNEMONIC TABLEXDS 920/930 SYMBOL | 890180 83 89024 3 8 3 | MUSIC BOX NAA DES-1 HYBRID CALL LIBRARY NAA SYSTEMDES-1 SYSGEN FOR | 890307 83 86079 9 83 |
| MO KUGO | 850968 B3 | NAA SYSTEMDES-1 SYSGEN FOR NASA EDWARDS HYBRID EXECUTION LIBRARY | 860791 83 86079 6 83 |
| MOD.9157(INTERLACE)CARD PUNCH TEST F MODE I/O TEST PROGRAMEXTENDED | 851107 B3 | NASA EDWARDS INTERFACE TEST | 860795 B3 |
| MODE 1/0 TEST PROGRAMEXTENDED | 860718 83 | NASA HOUSTON LEMACCEPT TEST PROG.FOR NATURAL GASSUPERCOMPRESSIBILITY FACTORS | 860790 83 |
| MODE MULTI MAG TAPE EXERCISOREXTENDE MODE MULTI-MAG TAPE EXERCISER9TK EXT | | NATURAL LOGFL. PT. EXTENDED PRECISION | 860 646 B3 |
| MODE MULTI-MAG TAPE EXERCISER9TK EXT | END 860794 83 | NATURAL LOGARITHMLN-FLOATING-POINT NAV.TOR.STA.SYS.,ADD-ON)EXT.1/O TEST (| 851149 83 851299 83 |
| MODE MULTI-MAGNETIC TAPE EXEREXTEND MODEMTE 3 MAG TAPE EXERCISOR 4 CHAR | 851056 83 | NAVAL TORPEDO STATIONARRAYS PROGRAM FOR | 851579 B3 |
| MODEMTE-3 MAG TAPE EXERCISER, 4 CHAPMODEMTE-3 MAG TAPE EXERCISOR, 3 CHAPMODEMTE-3 MAG TAPE EXERCISOR. | | NEGATE SUBROUTINE - FLNFLOATING NEGATE SUBROUTINEFLN -FLOATING | 860616 83 851586 83 |
| MODE)MAGNETIC TAPE HANDLER (EXTENDED | | NIMHINNIM - PROGRAM TO PLAY | 890291 B3 |
| MODEL ATMOSPHEREU.S.STANDARD EARTH MODEL 9333 7 OR 8 LEVEL PAPER TAPE TEST | 890279 B3 | NODE OPTIMIZATION ROUTINE NON-LABELINGPLOT PACKAGE - | 890525 83 890235 83 |
| MODEL 9367-A 925/TEST PROGRAM DISC F | ILE 851130 83 | NON-LINEAR CURVE FIT PROGRAM | 890192 B3 |
| MODEL 9372 UNBUFFERED LINE PRINTER SUBF | | NOPRINT, READ AND REREAD PACKAGE (10) NORMAL PROBABILITY INTEGRALGAUSSIAN | 890334 83 89020 6 83 |
| MODIFIED SHELL MERGE-EXCHANGESORT- | 890336 B3 | NORMAL PROBABILITY ORDINATEGAUSSIAN | 890205 83 |
| MODIFIED 160 SYSLABEL TRACE, MOL SYS. CHECK OUT PROGGENERAL ELECT | 890301 83 RIC 860789 83 | NORMALIZE SUBROUTINENORMZ -FLOATING NORMZ -FLOATING NORMALIZE SUBROUTINE | 851593 B3 851593 B3 |
| MOL SYS. CHECK OUT PROGRAMDOUGLAS | 860788 83 | NORTH AMERICAN AVIATION HYBRID EXECUTIVE | 860798 83 |
| MONARCH - LIBPACK MONARCH CDRP | 850669 83 851292 83 | NORTH AMERICAN HYBRID INTERFACE TEST NORTH AMERICANSPECIAL ACCEPT. TESTS FOR | 860797 83 860773 83 |
| MONARCH COMMON SOFTWARE PACKAGE | 850000 83 | NOTES COVER 9-SERIES SOFTHARE | 852000 B3 |
| MONARCH FOR UNBUFFERED PRINTER910/98 MONARCH FOR UNBUFFERED PRINTER920/93 | | NOVA SIMULATOR16K DGC NSC-II TEST FOR GD/C ATSANALOG/ | 89088 6 83 85161 6 83 |
| MONARCH FOR UNBUFFERED PRINTER925 RA | D 851260 B3 | NUM. GEN. TEST PROGRAMBOEING RANDOM | 860777 B3 |
| MONARCH FOR UNBUFFERED PRINTER930 RA MONARCH LIBRARY COMMON SOFTHARE PACKAGE | | NUMBER ASGNT.+P.T.UPDATING ROUTINESSEQ. NUMBER GENERATOR (RANDX)PSEUDO-RANDOM | 850687 83 890214 83 |
| MONARCH MPRNT (UNBUF) | 851290 B3 | NUMBER GENERATORRANDOM | 890211 B3 |
| MONARCH MTAPE MONARCH PRINT (UNBUF) | 851294 83 851291 83 | NUMBER GENERATORUNCORRELATED RANDOM NUMBER GENERATOR, RANDURANDOM | 890212 B3 |
| MONARCH PRINT | 851295 B3 851293 B3 | NUMBER SUBROUTINE (RAND)PSEUDO-RANDOM NUMBER SUBROUTINE (IRAND)PSEUDO-RANDOM | 89021 5 83 |
| MONARCH PTYIO MONARCH RAD LOADER (LOAD) MONARCH SYS. UPDATE FOR UNBUFFERED PRIN | 850004 B3 | NUMERIC DATABCD CONVERSION OF | 890355 83 |
| MONARCH SYS. UPDATE FOR UNBUFFERED PRIN MONARCH SYSTEM (COVER) | IT 860750 83 860530 83 | OCTAL DUMP SUBROUTINEREAL TIME FORTRAN OCTAL DUMPMEMORY TO LINE PRINTER | 890251 83 85117 6 83 |
| | 0005110 87 | OCTAL INPUT-ONE CARD LOADER | 850653 83 |
| MONARCH SYSTEM910/925 TAPE | 850035 83 850037 83 | OCTAL INPUT-1 CARD LOADER OCTAL MEMORY DUMP (PRINTER)ONE CARD | 86072 3 B3 860 6 41 B3 |
| MONARCH SYSTEM UPDATE MONARCH SYSTEM910/925 TAPE MONARCH SYSTEM920/930 TAPE MONARCH SYSTEM925 RAD MONARCH SYSTEM930 RAD MONARCH TAPE LOADER (LOAD) | 850036 83 | OCTAL MEMORY DUMP (TYPEHRITER) ONE CARD | 860722 B3 |
| MONARCH SYSTEM930 RAD MONARCH TAPE LOADER (LOAD) | 850038 B3 850001 B3 | OFF-LINE PRINTER TEST OLDS DIAGNOSTIC SYSTEM (COVER)940 | 850692 83 870042 83 |
| MONARCHBOOTSTRAP GENERATOR FOR RAD | 850023 B3 | OLDS3.0 CONTROL MONITOR OPERATION, FLGPOSINGLE INSTRUCTION FLAG | 87002 9 83 89025 7 83 |
| MONARCHDEMONSTRATION OF LINKING UNDE MONARCHPURGE FOR RAD | R 850678 B3 850022 B3 | OPERATIONSMATRIX PACKAGE FOR ARITHMETIC | 890204 83 |
| MONARCHSYSGEN 2 - BOO | 890842 83 890246 8 3 | OPERATOR PACKAGE (COVER)910/925 PROGRAM OPERATOR PACKAGE920/930 PROGRAMMED | 850765 B3 850919 B3 |
| MONITOR INPUT/OUTPUT PACKAGE-QUINOUT MONITOR PROGRAMSAM9300-SELECTIVE AUT | | OPERATOR'S EXECUTIVE940 | 870011 93 |
| MONITOR SYSTEM (COVER)TAPE MONITOROLDS3.0 CONTROL | 860000 B3 870029 B3 | OPT PUNCH FOR INPUT TABLEONQUBLDR DD- OPTIMIZATION ROUTINENODE | 890539 83 890525 83 |
| MONITORREAL-TIME | 861000 B3 | OPTIMIZERPATTERN | 8901 68 83 |
| MONITORSINE WAVE MONITOR925/930 REAL-TIME | 890190 83 851500 83 | OPTIONAL MAG. TAPECARD SYMBOLIC INPUT/ OPTIONAL MAGPSI OR TSI SYMBOLIC INPUT/ | 890272 83 890271 83 |
| MONITOR940 TIME SHARING SYSTEM | 870017 83 | ORDER ZEROBESSEL FUNCTION-FIRST KIND, | 890177 83 860690 93 |
| MONITOR, EXEC, AND PROCESSORS (CO940 MOSELEY PLOTTER TEST PROGRAM | TSS 870025 83 850706 83 | ORDINARY DIFF. EQUATIADAMS-MOULTON SOLN ORDINATEGAUSSIAN NORMAL PROBABILITY | 890205 B3 |
| MOULTON DIFF. EQUATIONSHYBRID ADAMS- | 860685 B3 | ORIENTED FUNCTION & SUBROUTINEWORD/BIT | 890332 B3 89022 5 B3 |
| MOULTON DIFFERENTIAL EQUATIONSADAMS- MOULTON SOLN ORDINARY DIFF. EQUATIAD | AMS 860690 B3 | OSCILLOSCOPE DISPLAY ROUTINE OSCILLOSCOPE DISPLAY ROUTINE | 890242 B3 |
| MPRNT (UNBUF)MONARCH | 851290 B3 | OUT AND POWER FAIL-SAFE TESTMEMORY LOCK OUT AND POWER FAIL-SAFE TESTMEMORY LOCK | 851057 83 86075 8 83 |
| MTAPE MTAPEMONARCH | 890964 B3 851294 B3 | OUT PROGGENERAL ELECTRIC MOL SYS. CHECK | 860789 B3 |
| MTAPE)MAGNETIC TAPE HANDLER (MTAPE)MAGNETIC TAPE SUBROUTINE (| 860732 83 851169 83 | OUT PROGRAMDOUGLAS MOL SYS. CHECK OUT, REDUNDANCY ELIMINATIONMEMORY TYPE- | 860788 B3 850628 B3 |
| MTE 3 MAG TAPE EXERCISOR 4 CHAR MODE | 851056 B3 | P. EXTENDED PRECISION SIN (COS)-SNFEF. | 860647 B3 |
| MTE-1 MAGNETIC TAPE EXERCISER MTE-2 MAGNETIC TAPE EXERCISER | 851054 B3 851181 B3 | P. SINE/COSINE-SNFR(CSFR)SNFD(CSFD)F. P.T. MEMORY BINARY COPY ROUTINEDRUM, | 860673 83 850704 83 |
| MTE-3 MAG TAPE EXERCISER, 4 CHAR. MODE. | 860764 83 | P.T.COPY ROUTINEFORTRAN SOURCE CARDS TO PACKING AND UNPACKING OF FLOATING POINT | 850641 B3 890337 B3 |
| MTE-3 MAG TAPE EXERCISOR, 3 CHAR MODE. | . 851055 83 | FACTING AND UNFACTING OF FEDALING FORMILL | J. J |

| PROGRAM AVAILABILITY LIST | | | | KHIC INDEX |
|---|----------------------|---|---|---------------------------------------|
| KEY TITLE | CAT.NO CI | L | KEY TITLE | CAT.NO CL |
| | | _ | | |
| PRIORITY INTERRUPT TEST ROUTINESPECIAL | 860759 B | | RELOCATING LOADER FOR 920/930SHORT | 890663 B3 |
| PRIORITY INTERRUPT TEST | 850711 B | | RELOCATING UPPER LOADE BINARY PAPER TAPE | |
| PRNLNON-LINE PRINT ROUTINE, | 890229 B | | REPRO)CARD RESEQUENCE - DUPLICATOR (REPRODUCER PROGRAMPAPER TAPE | 890269 83 85082 6 83 |
| PROBABILITY FUNCTIONS - ERRF, ZGAUSSF, P | 890347 B | | REREAD PACKAGE (10)NOPRINT, READ AND | 890334 83 |
| PROBABILITY INTEGRALGAUSSIAN NORMAL PROBABILITY ORDINATEGAUSSIAN NORMAL | 890205 B | | RESEARCHACCEPT TEST PROG FOR UCLA BRAIN | |
| PROCEDURE DECK92 | 850677 B | | RESEQUENCE - DUPLICATOR (REPRO)CARD | 890269 B3 |
| PROCESSOR-RADLNKFORTRAN II RAD LINKING | 890298 B | | RESPONSE OF DIGITAL TRANSFERFREQUENCY | 890275 B3 |
| PROCESSORS (CO940 TSS MONITOR, EXEC, AND | 870025 B | | REVERSE SEMILOG PLOTTING PACKAGE | 890348 8 3 |
| PROC93CPMETA-SYMBOL | 850090 B | | RE19185 CATHODE RAY TUBE DISPLAY UNIT/S | 850727 B3 |
| PRODUCTPOLYNOMIAL | 890162 B | | REZUEQSUBROUTINE RMADDREAL MATRIX ADDITION- | 890377 83 860651 83 |
| PROG.FOR NASA HOUSTON LEMACCEPT TEST PROGRAINTERRUPT ARM-DISARM FEATURE TEST | 860790 B | | RMADD)REAL MATRIX ADDITION (| 890197 B3 |
| PROGRAMMED ANALOG TOTAL CHECKPATCH, | 850741 B | | RMINVREAL MATRIX INVERSION- | 860655 B3 |
| PROGRAMMED FLOATING POINT PACKAGE-FLPT | 860617 B | | RMINV)REAL MATRIX INVERSION (| 890194 83 |
| PROGRAMMED OPERATOR PACKAGE920/930 | 850919 B | | RMMULREAL MATRIX MULTIPLY- | 860654 B3 |
| PROGRAMSCROSS REFERENCE FOR FORTRAN | 890586 B | | RMMUL)REAL MATRIX MULTIPLY (| 890195 B3 |
| PROGRAMS940 TSS USERS UTILITY | 870026 B | | RMSUBREAL MATRIX SUBTRACTION - | 860652 B3 |
| PROJECT MANAGEMENT SYSTEM (CPM) COVER | 850161 B | | RMSUB)REAL MATRIX SUBTRACTION(RMTRAREAL MATRIX TRANSPOSE- | 89019 8 B3 860653 B3 |
| PROJECT MANAGEMENT SYSTEM (CPM) COVER PROJECT MANAGEMENT SYSTEM (CPM) COVER | 850362 B3 | | RMTRA)REAL MATRIX TRANSPOSE (| 89019 6 83 |
| PRONY'S METHODFREQUENCY BY | 890189 B | | ROOTBIS, ROOTFINDING BY BISECTION | 890171 B3 |
| PRT. COMPILER MOD920/930 RTF II INBUF. | 851014 B | | ROOTFINDERBAIRSTON | 890169 83 |
| PRT. DIAGNOSTIC 9379/9171BUFFERED LINE | 851180 B | | ROOTFINDING BY BISECTION ROOTBIS. | 890171 83 |
| PRT. LIB ROUTALGOL 60 EXT'D UNBUF LINE | 850690 B | 3 | ROOTS OF POLYNOMIALS | 890170 B3 |
| PRT. MOD910/925 FORTRAN II BUFFERED | 850857 B | | ROUT FOR THE LINEPRINTER-PLOTTINGGRAPH | 890259 B3 |
| PRT920/930 FORTRAN 11 COMPILER UNBUF. | 851017 8 | | ROUTALGOL 60 EXT'D UNBUF LINE PRT. LIB | 850690 83 890260 83 |
| PRIR.MOD910/925 FORTRAN II UNBUFFERED | 850859 B | | ROUTINES FOR LINE PRINTER-PLOTTINGGRAPH ROUTINESFORTRAN READ AND WRITE TAPE | 690335 B3 |
| PSEUDO-RANDOM NUMBER GENERATOR (RANDX) PSEUDO-RANDOM NUMBER SUBROUTINE (RAND) | 890214 B | | ROUTINESDECIMAL/BINARY CONVERSION | 880643 B3 |
| PSEUDO-RANDOM NUMBER SUBROUTINE (IRAND) | 890510 B | | ROUTINESMAGNETIC TAPE POSITIONING | 890340 B3 |
| PSI OR TSI SYMBOLIC INPUT/OPTIONAL MAG | 890271 B | | ROUTINESSEMILOG PLOTTING | 890329 B3 |
| PT.EXTENDED PRECISION EXPONENTIALFL. | 860642 B | 3 | | 850687 B3 |
| PTY10MONARCH | 851293 B | | ROUTINES940 TELETYPE PLOT | 890524 B3 |
| PTY10) PAPER TAPE+TYPEHRITER SUBROUTINE(| | | RPL, A DATA REDUCTION LANG. PRECOMPILER | 8902 86 B3 851014 B3 |
| PUNCHX PUNCH SUBROUTINE | 890530 B | | RTF 11 1NBUF. PRT. COMPILER MOD920/930 RTM STAND-ALONE UPDATE | 880784 B3 |
| PURGE FOR RAD MONARCH QED940 | 870019 B | | RTM STAND-ALONE UPDATE925/930 | 851257 B3 |
| QUBLOR DD-OPT PUNCH FOR INPUT TABLEON | 890539 B | | RUN-TIME DEBUG SUBROUTINE FORTRAN II | 850680 B3 |
| QUBLOR)UNIVERSAL BINARY LOADER (| 851162 B | | RUN-TIME DEBUGREAL-TIME FORTRAN | 89052 6 83 |
| QUINOUTMONITOR INPUT/OUTPUT PACKAGE- | 890246 B | 3 | RUN-TIME LISTFORTRAN TO SYMBOL LANGUAGE | |
| R.T.FORTRAN LOADER PATCH FOR UNBUF.PRINT | 850697 B | | RUN-TIME MOD FORTRAN II FORMATS-AT | 850963 B3 |
| RADIANS) ARCSINE , ARCCOSINE (DEGREES- | 860676 B | | RUNGE-KUTTA GILL DIFF. EQU. FLOAT.POINT | 860613 93 860612 93 |
| RADIANS)TANGENT-TANX, TANDX (DEGREES OR | 860680 B | | RUNGE-KUTTA GILL DIFFERENTIAL EQUATIONS RUNGE-KUTTA GILL INTEGRATIONHYBRID | 860681 B3 |
| RADLNKFORTRAN II RAD LINKING PROCESSOR- RAND)PSEUDO-RANDOM NUMBER SUBROUTINE (| 890298 B | | RUNGE-KUTTA INTEGRATION | 890183 B3 |
| RANDOM NUM. GEN. TEST PROGRAMBOEING | 860777 B | | RUNTIME SYSTEMFORTRAN II | 870028 B3 |
| RANDOM NUMBER GENERATOR (RANDX)PSEUDO- | 890214 B | | SAFE INTERRUPT TESTER POHER FAIL- | 850720 B3 |
| RANDOM NUMBER GENERATOR | 890211 B | 3 | SAFE TEST MEMORY LOCK-OUT AND POHER FAIL | 851057 B3 |
| RANDOM NUMBER GENERATORUNCORRELATED | 890513 B | | SAFE TESTMEMORY LOCK-OUT AND POHER FAIL | 860758 B3 |
| RANDOM NUMBER GENERATOR, RANDU | 890212 B | | SAFE TESTPOHER FAIL- SAMPLE AND HOLD TEST FOR G.D./CONVAIR | 851186 B3 851619 B3 |
| RANDOM NUMBER SUBROUTINE (RAND) PSEUDO- | 890215 B | | SAMPLE DATA FROM ANALOG INPUT AND STORE | 890292 B3 |
| RANDOM NUMBER SUBROUTINE (IRAND)PSEUDO- RANDURANDOM NUMBER GENERATOR, | 890212 B | | SAM9300-SELECTIVE AUTO MONITOR PROGRAM | 890882 B3 |
| RANDX)PSEUDO-RANDOM NUMBER GENERATOR (| 890214 B | | SATELLITE ANGLE & RANGE COMPUTESATFIX- | 890664 B3 |
| RANGE COMPUTESATFIX-SATELLITE ANGLE & | 890664 B | | SATFIX-SATELLITE ANGLE & RANGE COMPUTE | 890664 B3 |
| RATIONAL POLYNOMIAL SUBSTITUTION | 890165 B | | SATT) SEMI-AUTOMATIC TYPEHRITER TEST (| 850640 B3 |
| RATIONAL POLYNOMIAL SERIES EXPANSION OF | 890166 B | | SATT)SEMI-AUTOMATIC TYPEHRITER TEST (| 860666 B3 |
| RAY TUBE DISPLAY TEST PROG9158 CATHODE | 850724 B | | SAVE ON MAG TAPEFORTRAN MEMORY SAVEFORTRAN 11 MEMORY | 890304 83 85063 8 83 |
| RAY TUBE DISPLAY UNIT/S RE19185 CATHODE | 850727 B | | SCOOP TAPE PLOTTING ROUTINE, SCOPL-2 | 890227 B3 |
| RAYTUBE DISPLAY SYSTEM TESTCATHODE READ AND REREAD PACKAGE (10)NOPRINT. | 860762 B | | SCOPE TEST PROGRAM | 851182 B3 |
| READ AND WRITE TAPE ROUTINESFORTRAN | 890335 8 | | SCOPL-2SCOOP TAPE PLOTTING ROUTINE. | 890227 83 |
| READ BLOCKED INPUT FROM MAG. TAPE | 890550 B | 3 | SC4020 SUBROUTINES FOR XDS 920/930 | 890299 B3 |
| READ HANDLER (CDR)CARD | 851167 B | | SEARCH ARRAYFORTRAN | 890247 83 |
| READ SUBROUTINE (CDR)CARD | 851109 B | | SEE9300 DISPLAY CONVERSION (DISCV)-S SEISMIC DUMP A AND B FORMATS | 860645 B3 850740 B3 |
| READ SUBROUTINE (216 SYS)FORTRAN CARD READ SUBROUTINE - CDRCARD | 890306 B | 3 | SELECTIVE AUTO MONITOR PROGRAMSAM9300- | 890882 B3 |
| READ TESTSPECIAL PAPER TAPE PUNCH- | 860761 B | | SELECTIVE LABEL TRACE, 160SYS | 890302 B3 |
| READ/PUNCH TEST PROGRAM1622 CARD | 850717 B | | SELECTIVE MEMORY CLEAR - BOOTSTRAP | 850625 B3 |
| READ/HRITE MODIFICATIONFORTRAN II DRUM | 850864 B | | SELF FHIGH SPEED 4 DIGIT BIN TO DEC POP | 8508D3 83 |
| READ/WRITE STATEMENTSFORTRAN DRUM | 851026 B | | SELF FILLING HIGH SPEED ARCTANGENT POP- | 850805 B3 |
| RECON) ENCODED TO SYMBOLIC RECONSTRUCTOR | 850647 B | | SELF FILLING HIGH SPEED SIN-COS POP- | 850804 B3 |
| RECONSTRUCTOR (RECON) ENCODED TO SYMBOLIC | 850647 B | | SEMI AUTO TYPEHRITER TEST SEMI-AUTOMATIC DIAGNOSTICVERIFIER AND | 851135 B3 860682 B3 |
| RECORDS ON MAGNETIC TAPECOUNT FILES/ RECTANGULAR INTEGRATIONHYBRID | 890341 B | | SEMI-AUTOMATIC TYPEHRITER TEST (SATT) | 850640 B3 |
| REDUCTION LANG. PRECOMPILERRPL. A DATA | 890286 B | | SEMI-AUTOMATIC TYPEHRITER TEST (SATT) | 86066 6 93 |
| REDUNDANCY ELIMINATION MEMORY TYPE-OUT, | 850628 B | 3 | SEMI-LOG/LINEAR PLOT PACKAGE | 890233 B3 |
| REFERENCE FOR FORTRAN PROGRAMSCROSS | 890586 B | 3 | SEMILOG PLOTTING PACKAGE | 890351 83 |
| REGEN-A BINARY TO SYMBOLIC TRANSLATOR | 890548 B | | SEMILOG PLOTTING PACKAGEREVERSE | 89032 9 83 |
| REGISTER TESTER P + S | 850702 B | | SEMILOG PLOTTING ROUTINES SEQ. NUMBER ASGNT.+P.T.UPDATING ROUTINES | 850687 83 |
| REGISTER TESTERP AND S REGISTER TESTER925 P-AND-S | 851103 B | | SERIES CARD READER TEST PROGRAM900 | 850656 B3 |
| REGISTER TESTER930 EXAMINER P AND S | 851051 B | | SERIES EXPANSION OF RATIONAL POLYNOMIAL | 890186 B3 |
| REGISTERSSHIFT ROUTINE FOR A AND B | 890254 B | 3 | SERIES FORTRAN II COMPILER DUMP900 | 850662 B3 |
| REGRESSION ANALYSISLINEAR | 890217 B | | SERIES FORTRAN IV COMPILER900 | 851583 B3 |
| REGRESSIONMULTIPLE LINEAR | 890208 B | | SERIES MAG TAPE DIAGNOSTICS9- SERIES SOFTWARE NOTES COVER9- | 89089 8 83 852000 83 |
| RELOCATABLE LOADERBASIC 2 CARD RELOCATABLE LOADERTHREE CARD | 860720 B 850652 B | | SERIES CONVOLUTION, CORR, FILTER., OF TIME | |
| RELOCATABLE LOADER 9300 PAPER TAPE BASIC | | | SERVICE PROGRAM) FOR MAGNETIC TAPEEDIT | 890542 83 |
| RELOCATING BOOTSTRAP BINARY PAPER TAPE | 851160 B | | SHARING SYSTEM DISC DUMP 940 TIME- | 870009 83 |
| | | | | |

890184 B3

890165 B3

861084 83

880652 83 890161 B3

890198 B3

860659 83

890207 **83** 890191 **83**

870013 B3

850065 B3

861083 83

850040 B3

860075 B3

860803 B3

890253 83 890243 83

850090 83 851599 83

851609 83 851605 83

851601 B3 851607 B3

851600 83 851608 83

851603 B3 851610 B3

851598 83 851602 83

851604 B3

851608 83

851611 B3

851612 B3

860751 B3

890965 R3 851158

890272 **83**

890271 83

850663 83

850647 B3

890548 B3

850682 83

860789 83 860788 83

860750 83

890301 83

890306 B3

890308 B3 860791 **83** 890842 **83**

851137 B3 850679 B3

690538 83 690539 83

851601 83 851607 83

890243 83 890309 83

860678 B3

860678 83

860680 **83**

890160 B3 860678 B3

860680 R3

860680 B3

870018 B3 851159 B3

851027 83 860697 83

890524 **83** 851118 **83**

860773 B3 870033 B3

870030 B3

870032 B3

890259 93

870027 83

870033 B3 870034 B3

870035 83 850652 83

890309 B3

851060 B3

860771 83 851187 83

850680 B3 890526 B3

850400 83

850984 B3

860810

870010

890262 B3 851594 B3

TIME DEBUG...9300 REAL TIME FORTRAN COMMON SOFTWARE PKG...REAL-

TIME FORTRAN II (COVER)...920/930 REAL

SUBR...SYMBOL 9372 UNBUFFERED PRINT OUTPUT SUBR...TYPEWRITER (STD)LISTING OUTPUT

SUBRT....SQRT -FLOATING-POINT SQUARE ROOT

| KEY | TITLE | | | KEY | TITLE | CAT.NO CL |
|------------|--|--------|----|-----------|--|-------------------|
| 3.0UNIT | 1 CPU EXERCISER 12 E CHANNEL RAD TEST 15 H CHANNEL RAD TEST 2 FLOATING POINT TESTS 21 H CHANNEL DISC TEST 23 CTE 10/11 COM GEAR TEST | 870031 | B3 | 900 SERIE | S FORTRAN IV COMPILER | 851583 B3 |
| 3.UUNII | IZ E CHANNEL RAD TEST | 870036 | 83 | 900 10 92 | BINARY LANGUAGE TRANSLATOR | XDS 850646 83 |
| 3.0UNII | 13 W CHANNEL RAU IES! | 870037 | 83 | | ARD PUNCH TEST PROGRAM PACKAGE | |
| 3.0 | E PLUATING PUINT TESTS | 870032 | 83 | 9157CA | ARD PUNCH TEST PROGRAM - D PUNCH TEST PROGRAM | 820828 B3 |
| 3.UUNII | 27 OTE 10/11 COM OFER TEST | 870038 | 83 | 9158 CARD | PUNCH TEST PROGRAM | 850661 B3 |
| 3.0UNII | WEMODY TEST FOR THE TOP 164 | 870039 | 83 | 9158 CARD | PUNCH TEST PROGRAM | 851111 83 |
| | 4 MEMORY TEST FOR THE 3RD 16K | | | 9158 CARU | PUNCH TEST PROGRAM | 860730 B3 |
| | 5 MEMORY TEST FOR THE 4TH 16K 3 MEMORY TESTS FOR THE 2ND 16K | | | 9158 CATH | ODE-RAY TUBE DISPLAY TEST PROG | 3 850724 B3 |
| | ONIC CIRCUIT ANALYSIS (ECAP) | | | 9161 0808 | MEMORY TEST PROGRAM | 850716 83 |
| | | | | 9165 0150 | EXERCISER DIAGNOSTIC | 851062 B3 |
| JRU IDK 3. | OUNIT 4 MEMORY TEST FOR THE | 8/0034 | 83 | | ERED LINE PRINTER DIAG 9379/ | |
| 32K MEMURI | DIAGNUSTIC8-16- | 821126 | 83 | | FFERED LINE PRT. DIAGNOSTIC 93 | |
| SEK AFKEIN | DIAGNOSTIC8-16- NDES-1 DIAGNOSTIC2- | 860/82 | 83 | 917479179 | PRINTER DIAGNOSTIC 925/930 | 851122 B3 |
| HK MEMURI | 100VED | 821122 | 83 | 91/5 PLUI | TERPLOT PACKAGE FOR XDS HTER DIAGNOSTIC 925/9309174/ | 880559 B3 |
| WK SYSTEM | (COVER)920/930 ALGOL 60 BASIC | 850970 | 83 | 9179 PRIN | ITER DIAGNOSTIC 925/9309174/ | 851122 83 |
| AK SISIEM. | 910/925 ALGOL 60 BASIC 0UNIT 5 MEMORY TEST FOR THE | 820818 | 83 | | ODE RAY TUBE DISPLAY UNIT/S RE | |
| WIN TOK 3. | UUNII S MEMURT LEST FUR THE | 870035 | B3 | | FILE DIAGNOSTIC-(DFD) | |
| MEKC MAG I | APE SYS EXERCISER, Y BUF | 820685 | B3 | | 8 B LEVEL PAPER TAPE TESTMOD | |
| | TIC TAPE EXERCISER, W BUFFER | | | | 930 RAD DIAGNOSTIC FOR | |
| | TIC TAPE TEST PROGRAM Y BUFFER | | | 9367-A 92 | 5/TEST PROGRAM DISC FILE MO | DEL 851130 83 |
| 42KU MAUNE | TIC TAPE TEST PROGRAM, W BUFFER | 820692 | B3 | 9367-A | TEST PROGRAM FOR DISC FILE | 851185 83 |
| 60 SIMULAT | OR SYSTEM DIAGNOSTICDEE- | 851136 | B3 | 9372 PRIN | ITERMEMORY DUMP FOR | 890252 83 |
| BD SIMULAT | OR SYSTEM HANDLERSDEE- | 850742 | B3 | | F. LINE PRINTER. SUBR. (PRIN | |
| BK VERSION | OR SYSTEM DIAGNOSTICDEE- OR SYSTEM HANDLERSDEE- DES-" RDISCFORTRAN IV LIBRARY | 860779 | B3 | | F.LINE PRINTER DIAGNOSTICMO | |
| 9RDDISC,9W | RDISCFORTRAN IV LIBRARY | 861085 | 83 | | FFERED LINE PRINTER SUBRMOD | |
| | MODE MULTI-MAG TAPE EXERCISER | | | | FFERED LINE PRINTER TEST 925/9 | |
| 9TK EXTEND | MODE MULTI-MAG TAPE EXERCISER | 860794 | 83 | | FFERED LINE PRINTER TESTMOD | |
| 9TRACK MAG | NETIC TAPE TEST PROGRAM | 860793 | 83 | 9372 UNBU | FFERED PRINT OUTPUT SUBRSYM | 180L 880751 B3 |
| 9WRDISC | NETIC TAPE TEST PROGRAM FORTRAN IV LIBRARY GRDDISC, TAPE PUNCH TEST CARD READER TEST PROGRAM FORTRAN II COMPILER DUMP | 861085 | B3 | 9379 PRIN | ITER DIAGNOSTIC 925/930 ITER DIAGNOSTIC BUFFERED LINE PRINTER DIAG | 85112 3 B3 |
| 900 PAPER | TAPE PUNCH TEST | 851623 | 83 | 9379 PRIN | ITER DIAGNOSTIC | 860792 83 |
| 900 SERIES | CARD READER TEST PROGRAM | 850656 | B3 | 9379/9171 | BUFFERED LINE PRINTER DIAG | 860754 B3 |
| 900 SERIES | FORTRAN II COMPILER DUMP | 850662 | B3 | 9379/9171 | BUFFERED LINE PRT. DIAGNOST | IC 851180 83 |

850000 900-SERIES MONARCH COMMON SOFTWARE PACKAGE

AUTHOR: XEROX

ABSTRACT:
ROUTINES THAT PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING OPERATOR INTERVENTION. COMMENTS:

THIS PROGRAM COVERS CATALOG NUMBERS 850001 THRU 850011, 850013 THRU 850023, 850031 THRU 850033, 850689, 851012, 851290 THRU 851298

850001

9-SERIES

MONARCH TAPE LOADER (LOAD)

AUTHOR: XEROX

ABSTRACT:

THIS LOAD PROGRAM PROVIDES THE LOADING CAPABILITY FOR THE 900'S MONARCH TAPE SYSTEM.

PROGRAM TYPE IS ASSEMLBER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL

850004

AUTHOR: XEROX

MONARCH RAD LOADER (LOAD)

ABSTRACT:

THIS LOAD PROGRAM PROVIDES THE LOADING CAPABILITY FOR THE 900'S MONARCH RAD SYSTEM.

PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.

850022 9-SERIES PURGE FOR RAD MONARCH

AUTHOR: XEROX DATA SYSTEMS

ABSTRACT:
THIS ROUTINE IS ON RAD MONARCH SYSGEN TAPE. IT IS USED TO REMOVE USER-ADDED LABELS FROM THE FILE DIRECTORY, AT USERS DISCRETION.

COMMENTS:

850023

900-SERIES

BOOTSTRAP GENERATOR FOR RAD HONARCH

AUTHOR: XEROX

ABSTRACT:

PUNCHES A BOOTSTRAP FOR RAD MONARCH (HITH CURRENT POINTERS) ON PAPERTAPE OR CARDS. USE OUTPUT TO RELOAD SYSTEM.

850035

910/925 TAPE MONARCH SYSTEM

AUTHOR: XEROX

ABSTRACT:

ISTRACT: TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS HITHOUT REQUIRING OPERATOR INTERVENTION, INCLUDES SYMBOL, METASYMBOL, FORTRAN-11 AND R.T. FORTRAN-11 PROCESSORS AND ASSOC-IATED LIBRARIES.

COMMENTS:
ANY XDS 910/925 WITH AT LEAST 8K WORDS OF CORE STORAGE, CONSOLE TYPEWRITER, AND ONE OR MORE MAG TAPES.

850036

9-SERIES

925 RAD MONARCH SYSTEM

AUTHOR: XEROX ABSTRACT:

A SYSTEM TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS HITHOUT REQUIRING OPERATOR INTERVENTION USING A 9367 DISC FILE. INCLUDES SYMBOL, METASYMBOL, FORTRAN-II AND R.I. FORTRAN-II PROCESSORS AND ASSOCIATED LIBRARIES.

COMMENTS:

ANY XDS 925 WITH AT LEAST 8K HORDS OF STORAGE, CONSOLE TYPEWRITER, ONE MAG TAPE, AND A 9367 DISC FILE

850037

9-SERIES

920/930 TAPE MONARCH SYSTEM

AUTHOR: XEROX

ABSTRACT:

TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS MITHOUT REQUIRING OPERATOR INTERVENTION. INCLUDES SYMBOL, METASYMBOL, FORTRAN-11 AND R.T. FORTRAN-11 PROCESSORS AND ASSOC-IATED LIBRARIES. COMMENTS:

ANY XDS 920/930 WITH AT LEAST BK HORDS OF STORAGE, CONSOLE TYPEHRITER, AND ONE OR MORE MAGNETIC TAPES.

850038

9-SERIES

930 RAD HONARCH SYSTEM

AUTHOR: XEROX ABSTRACT:

TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS HITHOUT REQUIRING
OPERATOR INTERVENTION USING A 9367 DISC FILE. INCLUDES SYMBOL, METASYMBOL, FORTRAN-II AND R.T. FORT-II
PROCESSORS AND ASSOCIATED LIBRARIES.

COMMENTS:

ANY XDS 930 HITH AT LEAST 8K HORDS OF MEMORY, CONSOLE TYPEHRITER, AND A 9367 DISC FILE.

9-SERIES CLASS 83 PROGRAM AVAILABILITY LIST PROGRAM SUMMARIES

850040 900-SERIES SYMBOL ASSEMBLER COMMON SOFTWARE PACKAGE

AUTHOR: XEROX

ABSTRACT:
TO ASSEMBLE SOURCE PROGRAMS WRITTEN IN THE SYMBOL ASSEMBLY LANGUAGE.

COMMENTS: THIS PROGRAM COVERS CATALOG NUMBERS: 850041 THRU 850059.

850065 900-SERIES META-SYMBOL ASSEMB. COMMON SOFTHARE PKG

AUTHOR: XEROX

ABSTRACT:

THIS PACKAGE IS THE COVER FOR THE 900-SERIES META-SYMBOL ASSEMBLER. THE SYSTEM IS ONLY AVAILABLE UNDER MONARCH.

COMMENTS:

RELOCATABLE BINARY ON MONARCH SYSTEM TAPES: 850035-85 850036-85, 850037-85, 850038-85, THIS PROGRAM INCLUDES CATALOG NUMBERS 850066 THRU 850090, 851262 THRU 851270, AND 851273 THRU 851281

9-SERIES META-SYMBOL PROC93CP

AUTHOR: XEROX

ABSTRACT:
CONVERTS 900 CODE TO 9300 CODE

MONARCH LIBRARY COMMON SOFTWARE PACKAGE 850095 900-SERIES

AUTHOR: XEROX

ABSTRACT:

THIS PACKAGE CONTAINS THOSE ROUTINES COMMON TO ALL 900 SERIES MONARCH SYSTEMS.

JUNEAUS: 900 SERIES RELOCATABLE BINARY ON MONARCH SYSTEM TAPES. THIS PROGRAM COVERS CATALOG NUMBERS 850101 THRU 850160, 850171 THRU 850202, 850204, 850642, 850647 PART OF CATALOG NO. 850095, MONARCH LIBRARY COMMON SOFTHARE PACKAGE. RELOCATABLE BINARY AVAILABLE AS PART OF 850035-85 FOR TAPE MONARCH AND 850038-85 FOR RAD MONARCH.

PROJECT MANAGEMENT SYSTEM (CPM) COVER 850161

AUTHOR: XEROX

AUTHOR: XERVOX
ABSTRACT:
THIS IS THE COVER NUMBER FOR THE PROJECT MANAGEMENT SYSTEM, WHICH CONSISTS OF THE FOLLOWING PROGRAMS
SCHEDULE SPECTRUM PROGRAM (SSP), DETAIL SCHEDULE REPORT PROGRAM (DSRP) PROGRESS EVALUATION PROGRAM (PEP)
PROGRESS EVALUATION SORT PROGRAM (PEPSORT) RESOURCE ALLOCATION PROGRAM (RAP) BARCHART

COMPUTER CONFIGURATION: 910/925 HITH A MINIMUM OF 8K HORDS OF CORE STORAGE,2 MAGNETIC TAPES,A TYPE HRITER, PAPER TAPE OR PUNCHED CARD INPUT, AND A BUFFERED PRINTER. THIS PROGRAM COVERS CATALOG NUMBERS 850162 THRU 850167, 850362 THRU 850368 THO 2400 FT. TAPES ARE NEEDED FOR SOURCE MAG TAPE

850210 910/925 FORTRAN II COMMON SOFTHARE PACKAGE AUTHOR: XEROX

ABSTRACT:

THE FORTRAN II SYSTEM IS A COMPLETE PACKAGE FOR COMPILING, LOADING, AND EXECUTING FORTRAN II PROGRAMS.

INTERNIS:
SEE MANUALS 900003, FORTRAN 11 REFERENCE MANUAL, AND 900587, XDS 900 SERIES FORTRAN 11 OPERATIONS
MANUAL. RELOCATABLE BINARY AVAILABLE ON 850035-85 FOR TAPE MONARCH. RELOCATABLE BINARY AVAILABLE ON
850036-85 FOR RAD MONARCH. RELOCATABLE BINARY AVAILABLE ON 850808-85 FOR STAND-ALONE (S/A) THIS PROGRAM
COVERS CATALOG NUMBERS 850211, 850212, 850215 THRU 850251, 850256 THRU 850277, 850279 THRU 850294,
851138 THRU 851141, 851282, 851283

910/925 F-II COMPILER (FC-1) 850211 9-SERIES

AUTHOR: XEROX

ABSTRACT:

THE FORTRAN 11 COMPILER IS A ONE-PASS ROUTINE; THAT IS IT READS THE SOURCE PROGRAM ONLY ONCE AND SIMULTANEOUSLY GENERATES THE OBJECT PROGRAM IN A FORM ACCEPTABLE TO THE FORTRAN LOADER.

9-SERIES 920/930 FORTRAN-II COMMON SOFTHARE PKG. 850315

AUTHOR: XEROX

ABSTRACT:
THIS PACKAGE CONTAINS 920/930 FORTRAN II COMPILER, AND LOADER ROUTINES SEE COMPARABLE 910/925 ROUTINES FOR ABSTRACTS.

UNITERIES: SEE MANUALS 900003, FORTRAN II REFERENCE MANUAL, AND 900587, XDS 900 SERIES FORTRAN I<mark>I OPERATIONS</mark> MANUAL. RELOCATABLE BINARY AVAILABLE ON 850037-85 FOR TAPE MONARCH. RELOCATABLE BINARY AVAILABLE ON 850038-85 FOR RAD MONARCH. THIS COVER NUMBER INCLUDES CATALOG NUMBERS 850212, 850318, 850318 THRU 850322, 850325 THRU 850329, 850558 THRU 850623, 851140, 851125, 851126, 851141, 851284, 851285

9-SERIES ALGOL COMMON SOFTHARE PACKAGE (COVER) 850330

AUTHOR: XEROX

ABSTRACT:

THE 900 SERIES ALGOL 80-8 SYSTEM IS A COMPLETE SYSTEM FOR COMPILING, LOADING, AND EXECUTING ALGOL 80-8

850330 CONTINUED ON FOLLOWING PAGE

PAGE 2 - 01/31/75 REPRINT 75.02

850330

ALGOL COMMON SOFTHARE PACKAGE (COVER)

(CONTINUED)

PROGRAMS. COMMENTS:

THIS PROGRAM COVERS CATALOG NO.S: 850818 THRU 850823, 850825, 850826, 850827, 850844 THRU 850846, 850972 THRU 850977, 850979 THRU 850981, 851000 THRU 851002, 850331, 850332, 850335 THRU 850355, 850360, 850361, 850370 THRU 850372.

850362

920

PROJECT MANAGEMENT SYSTEM (CPM) COVER

AUTHOR: XEROX

ABSTRACT:
THIS IS THE COVER NUMBER FOR THE PROJECT MANAGEMENT SYSTEM, SEE COMPARABLE 910/925 ROUTINES FOR ABSTRACTS.

COMMENTS:

COMPUTER CONFIGURATION: ANY XDS 900S HITH A MINIMUM OF 8K HORDS OF CORE STORAGE,2 MAGNETIC TAPES,A TYPE WRITER,PAPER TAPE OF PUNCHED CARD INPUT, AND AN OFF-LINE OR ON-LINE PRINTER. THO 2400 FT. TAPES ARE NEEDED FOR SOURCE MAG TAPE

850400

REAL-TIME FORTRAN COMMON SOFTHARE PKG

AUTHOR: XEROX

ABSTRACT:
TO PROVIDE A REAL-TIME FORTRAN II SYSTEM FOR THE 900 SERIES COMPUTERS. SEE COMPARABLE 910/925 ROUTINES FOR ABSTRACTS. COMMENTS:

RELOCATABLE BINARY AVAILABLE ON 850035-85 FOR TAPE MONARCH RELOCATABLE BINARY AVAILABLE ON 850036-85 FOR RAD MONARCH. THIS PROGRAM COVERS CATALOG NUMBERS 850401, 850403 THRU 850406, 850408 THRU 850476, 850478, 851286, 851287

850480

9-SERIES

920/930 R/T FORTRAN COMMON SOFTHARE PKG

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE BATCH PROCESSING CAPABILITY FOR REAL-TIME FORTRAN II UNDER HONARCH. FOR ABSTRACTS.SEE COMPARABLE ROUTINES IN EITHER 910/925 FORTRAN II OR 910/925 R.T. FORTRAN II.

MINICATABLE BINARY AVAILABLE ON 850037-85 FOR TAPE MONARCH RELOCATABLE BINARY AVAILABLE ON 850038-85 FOR RAD Monarch. This program covers catalog numbers 850481 Thru 850483, 850485 Thru 850557, 851288, 851289

850624

9-SERIES

ZERO MEMORY

AUTHOR: XEROX ABSTRACT:

TO SET ALL OF MEMORY EXCEPT HORD 0007 TO 000000.

COMMENTS:

SIZE:8 DECIMAL. CONFIGURATION: ALL 910 AND 920 SYSTEMS.

850625

9-SERIES

SELECTIVE MEMORY CLEAR - BOOTSTRAP

AUTHOR: XEROX

ABSTRACT:

TO AID THE USER IN CLEARING SELECTED PORTIONS OF MEMORY, BY SELECTIVELY CLEARING MEMORY, THE ROUTINE SAVES PROGRAMS WHICH THE USER MAY WANT TO USE AGAIN.

SIZE: 22 DECIMAL. CONFIGURATION: ALL 910 AND 920

850626 9-SERIES

PAPER TAPE REPRODUCER PROGRAM

AUTHOR: XEROX

ABSTRACT:

TO REPRODUCE BINARY PAPER TAPE. ONLY THOSE TAPES WHICH HAVE AN INTEGRAL MULTIPLE OF FOUR CHARACTERS PER BLOCK CAN BE PRODUCED BY THIS PROGRAM.

SOURCE LANGUAGE: META-SYMBOL. SIZE 355 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH PUNCH, READER AND TYPEWRITER.

850627

9-SERIES

BINARY VERIFY - BOOTSTRAP

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE A SIMPLE METHOD OF ASCERTAINING THE VALIDITY OF INFORMATION LOADED INTO MEMORY FROM TAPE OR OF INFORMATION PUNCHED ON TAPE. THE ROUTINE HILL VERIFY ANY ABSOLUTE BINARY TAPE WHICH HAS A STARTING ADDRESS IN BITS 10-23 OF THE SECOND CONTROL WORD OF EACH BLOCK.

SIZE 30 DECIMAL. CONFIGURATION: ALL 910 AND 920 SYSTEMS.

850628 9-SERIES MEMORY TYPE-OUT, REDUNDANCY ELIMINATION

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM TYPES SPECIFIED SECTIONS OF MEMORY, FOUR WORDS PER LINE, IN EITHER OCTAL OR INSTRUCTION FORMAT. BIT PATTERNS WHICH REPEAT ARE INDICATED, RATHER THAN REDUNDANTLY TYPED.

SIZE 129 DECIMAL. CONFIGURATION: 910 OR 920 COMPUTER WITH TYPEWRITER.

PAGE 3 - 01/31/75

DEBUG 850629 9-SERIES

AUTHOR: XEROX

ABSTRACT:

THIS IS A RELOCATABLE ROUTINE HHICH HILL AID THE USER IN DEBUGGING. FUNCTIONS HHICH MAY BE PERFORMED BY
THIS ROUTINE ARE 1.MAKE IN-CORE CORRECTIONS OR INSERTIONS. 2.DUMP SELECTED MEMORY AREAS ON THE PRINTER
OR TYPEHRITER. 3.PERFORM SNAPSHOTS AT SELECTED POINTS. 4.ALLOH THE USER TO SEIZE CONTROL AT SELECTED POINTS. 5. PERFORM MASKED MEMORY SEARCHES.

COMMENTS:

SIZE 477 DECIMAL. CONFIGURATION: ANY XDS 910 OR 920 COMPUTER.

BINARY PAPER TAPE BOOTSTRAP + GENERATOR 9-SERIES 850634

AUTHOR: XEROX

ABSTRACT:
TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT BY SYMBOL OR META-SYMBOL ON PAPER TAPE IN STANDARD BINARY FORMAT.

COMMENTS:

SOURCE LANGUAGE: SYMBOL/ META-SYMBOL. SIZE 55 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER HITH 4K MEMORY AND PAPER TAPE PUNCH.

9-SERIES BINARY PAPER TAPE LIST 850637

AUTHOR: XEROX

ABSTRACT:

PROVIDE A METHOD OF LISTING A BINARY PAPER TAPE.

COMMENTS:
SOURCE LANGUAGE: SYMBOL/META-SYMBOL, SIZE 140 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH
AN XDS MODEL 9173 LINE PRINTER OR TYPEWRITER.

FORTRAN II MEMORY SAVE 850638 9-SERIES

AUTHOR: XEROX

ABSTRACT:
TO PUNCH A SELF-LOADING PAPER TAPE REPRESENTING THE FORTRAN PROGRAM HHICH IS IN CORE AND OPTIONALLY TO PUNCH ANY OF THE FOLLOHING: 1. THE FORTRAN VARIABLES 2. COMMON 3. RUN-TIME.

SOURCE LANGUAGE: SYMBOL-8, SIZE 355 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER HITH PAPER TAPE READER, PAPER TAPE PUNCH, AND CONSOLE TYPEHRITER. CARD READER OPTIONAL.

FORTRAN SOURCE CARDS TO P.T.COPY ROUTINE 9-SERIES 850641

AUTHOR: XEROX

ABSTRACT:
TO COPY FORTRAN SOURCE CARD IMAGES (COLUMNS 1-72, OR LESS) ONTO PAPER TAPE AND CONVERT ALL CARD BLANKS
(60) TO SPACES (12).

SIZE 70 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER HITH CARD READER AND PAPER TAPE PUNCH.

MEDIA CONVERSION ROUTINE 850642 900-SERIES

AUTHOR: XEROX

ABSTRACT:
TO COPY VARIABLE LENGTH RECORDS ON BINARY OR BCD CARDS, PAPER OR MAGNETIC TAPE, OR TYPED INPUT, TO CARDS, PAPER OR MAGNETIC TAPE, TYPEHRITER OR LINE PRINTER.
COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 1181 DECIMAL. CONFIGURATION: ANY 4K XDS 910, 920, 925 OR 930 MITH ONE OR MORE PERIPHERAL DEVICES ATTACHED TO ANY OR CHANNEL AND A CONSOLE TYPEHRITER ON THE H BUFFER. BINARY IS ALSO AVAILABLE ON MONARCH SYSTEM TAPES. THIS PROGRAM IS PART OF CATALOG NO. 850095.

BINARY DUMP, PAPER TAPE OR CARDS 9-SERIES 850643

AUTHOR: XEROX

ABSTRACT:
TO DUMP HEMORY IN STANDARD BINARY FORMAT OR PAPER TAPE OR CARDS. HHEN DUMPING ONTO PAPER TAPE, THE PROGRAM HILL OPTIONALLY DUMP AN ABSOLUTE BINARY BOOTSTRAP.

JUNEAUER: Source Language: Meta-Symbol. Size 252 decimal. Configuration: any XDS 900 series computer mith paper Tape and/or card 1/0.

BINARY INPUT-BASIC PAPER TAPE LOADER 9-SERIES

AUTHOR: XEROX

ABSTRACT:

TO LOAD RELOCATABLE OR ABSOLUTE OBJECT PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL ON PAPER TAPE, AND TO LOAD THE ''STANDARD CONSTANTS.''

SIZE 79 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A PAPER TAPE READER.

9-SERIES CLASS 83 PROGRAM SUMMARIES

850645 9-SERIES UNIVERSAL LOADER

AUTHOR: XEROX ABSTRACT:

TO LOAD ONE OR MORE PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL AND PRESENTED TO THE LOADER ON EITHER PUNCHED CARDS OR PAPER TAPE. THIS LOADER HAS ESSENTIALLY THE SAME CAPABILITIES AS THE XDS MONARCH LOADER BUT IT FUNCTIONS INDEPENDENTLY OF MONARCH.

SIZE 664 DECIMAL. ASSEMBLY LANGUAGE USED: SYMBOL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER HITH A CARD READER AND/OR PHOTO READER AND A TYPEHRITER. LOADER EXISTS ON CARDS AND PAPER TAPE AND LOADS PROGRAMS HHICH EXIST EITHER ON CARDS OR PAPER TAPE.

850646 9-SERIES XDS 900 TO 92 BINARY LANGUAGE TRANSLATOR

AUTHOR: XEROX

ABSTRACT:
TO TRANSLATE XDS 92 BINARY OBJECT PROGRAMS PRODUCED BY META-SYMBOL FROM THE STANDARD XDS 900 SERIES
BINARY OBJECT LANGUAGE INTO THE STANDARD XDS 92 BINARY OBJECT PROGRAM LANGUAGE.

SOURCE LANGUAGE: SYMBOL. SIZE 622 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH PAPER TAPE READER OR CARD READER, PAPER TAPE PUNCH OR CARD PUNCH.

850647 900-SERIES ENCODED TO SYMBOLIC RECONSTRUCTOR (RECON)

AUTHOR: XEROX

ABSTRACT:

TO RECONSTRUCT FROM AN ENCODED REPRESENTATION OF A PROGRAM ON PAPER TAPE, CARDS OR MAGNETIC TAPE A SYMBOLIC REPRESENTATION OF THE PROGRAM ON CARDS. PAPER TAPE OR MAGNETIC TAPE. COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 1019 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER HITH AT LEAST 4K HORDS OF MEMORY AND A CARD READER, OR PAPER TAPE READER, OR MAGNETIC TAPE UNIT AND CARD PUNCH OR PAPER TAPE PUNCH OR MAGNETIC TAPE UNIT. BINARY ALSO AVAILABLE ON MONARCH SYSTEM TAPES.

850648 9-SERIES BINARY INPUT ONE CARD LOADER

AUTHOR: XEROX

ABSTRACT:

TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT BY SYMBOL OR META-SYMBOL ON CARDS IN STANDARD BINARY FORMAT.

SIZE 39 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH CARD READER.

850649

9-SERIES

BINARY INPUT-THO CARD LOADER

AUTHOR: XEROX

ABSTRACT:

TO LOAD RELOCATABLE OR ABSOLUTE PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL AND PRESENTED TO THE LOADER ON PUNCHED CARDS.

SIZE 78 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A CARD READER.

850650

9-SERIES

ABSOLUTE BINARY LOADER WITH CONSTANTS

AUTHOR: XEROX

ABSTRACT:

TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS HHICH HAVE BEEN OUTPUT BY SYMBOL OR META-SYMBOL ON CARDS IN STANDARD BINARY FORMAT.

SOURCE LANGUAGE: META-SYMBOL. SIZE 63 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH CARD READER.

850651

9-SERIES

CARD FILL SIMULATOR (910/920)

AUTHOR: XEROX ABSTRACT:

TO PROVIDE USERS OF THE XDS 910/920 SERIES COMPUTERS WITH A PAPER TAPE ROUTINE THAT SIMULATES THE CARD FILL SHITCH ON THE XDS 925/930 SERIES COMPUTERS.

SOURCE LANGUAGE: SYMBOL 8. SIZE 12 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A PAPER TAPE Reader and a binary card reader.

850652

9-SERIES

THREE CARD RELOCATABLE LOADER

AUTHOR: XEROX ABSTRACT:

TO LOAD ABSOLUTE OR RELOCATABLE PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL AND PRESENTED TO THE LOADER IN XDS STANDARD BINARY PUNCHED CARD FORMAT. COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE 135 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A CARDS READER.

850653 9-SERIES OCTAL INPUT-ONE CARD LOADER

AUTHOR: XEROX

ABSTRACT

TO ENABLE PROGRAM CORRECTION FROM CARDS PUNCHED IN A CONVENIENT OCTAL FORMAT.

COMMENTS: SIZE 32 DECIMAL. ANY XDS 900 SERIES COMPUTER.

9-SERIES 850662

900 SERIES FORTRAN II COMPILER DUMP

AUTHOR: XEROX ABSTRACT:

TO PROVIDE A MEANS OF DUMPING THE FORTRAN II COMPILER, PRECEDED BY AN ABSOLUTE BINARY LOADER, EITHER ON PAPER TAPE OR CARDS. THIS ALLOHS THE USER TO GENERATE AN EXTENDED COMPILER INCORPORATING ANY OF THE AVAILABLE COMPILER MODIFICATIONS.

COMMENTS:

SOURCE LANGUAGE: SYMBOL. SIZE:391 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER HITH A PAPER TAPE PUNCH OR CARD PUNCH.

850663 Q-SERIES BASIC SYMBOLIC MAGNETIC TAPE EDITOR

AUTHOR: XEROX

ABSTRACT:
TO COPY AND UPDATE MAGNETIC TAPES CONTAINING VARIABLE LENGTH RECORDS (1-33 HORDS) OF BCD INFORMATION.

COMMENTS: SOURCE LANGUAGE: FORTRAN, SYMBOL. SIZE:8000 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH 6K MEMORY, TYPEHRITER, AND THO MAGNETIC TAPES. A CARD READER IS DESIRABLE.

850664

9-SERIES

PAPER TAPE AND MAGNETIC TAPE COPIER

AUTHOR: XEROX

ABSTRACT:

TO COPY PAPER TAPE TO MAGNETIC TAPE AND MAGNETIC TAPE TO PAPER TAPE.

SIZE 347 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH 4K MEMORY AND ONE MAGNETIC TAPE UNIT.

850666

9-SERIES

MAG TAPE STANDARD FILL SIMULATOR (910/920

AUTHOR: XEROX

ABSTRACT:

TO LOAD PROGRAMS FROM MAGNETIC TAPE O VIA THE STANDARD FILL PROCEDURE. COMMENTS:

SI:E 20 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH ONE MAGNETIC TAPE UNIT (SET TO ZERO).

850667

9-SERIES

BINARY INPUT-MAGNETIC TAPE ABSOLUTE LOR

AUTHOR: XEROX

ABSTRACT:

TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT BY SYMBOL OR META-SYMBOL ON LOM DENSITY MAGNETIC TAPE IN STANDARD BINARY FORMAT.

SOURCE LANGUAGE: SYMBOL/META-SYMBOL. SIZE:38 DECIMAL. ANY XDS 900 SERIES COMPUTER HITH MAGNETIC TAPE.

850669

9-SERIES

MONARCH - LISPACK

AUTHOR: XEROX DATA SYSTEMS

ARSTRACT:

TO PROVIDE A GENERALIZED GET/PUT PROGRAM DESIGNED TO CREATE BLOCKED LIBRARY MAG TAPES HRITTEN BCD OR BINARY (ENCODED) TO FACILITATE TAPE STORAGE. THE PROGRAM ALSO PROVIDES THE ABILITY TO RECREATE MARD COPY, PRINTED LISTS AND GENERATE MULTIPLE MASTER COPIES FOR BACK UP AND GENERALL DISTRIBUTION. COMMENTS:

THIS PROGRAM IS PART OF 850000, MONARCH COMMON SOFTHARE PACKAGE. RELOCATABLE BINARY ARE PART OF THE APPROPRIATE SYSTEM TAPE.

850677

9-SERIES

92 PROCEDURE DECK

AUTHOR: XEROX

ABSTRACT:

META-SYMBOL WITH THIS PROC DECK SERVES AS IN INTERIM ASSEMBLER IN PLACE OF 92 SYMBOL.

PROGRAMS ASSEMBLED WITH THIS PROC DECK SHOULD BE PRECEDED BY AORO N, N> 32. THE FOLLOWING SHOULD NOT BE USED: TEXT, BCE, REG, REF, DEF, OPD, LOCAL SYMBOLS. SOURCE LANGUAGE: META-SYMBOL.

850678

9-SERIES

DEMONSTRATION OF LINKING UNDER MONARCH

AUTHOR: XEROX

ABSTRACT:

TO DEMONSTRATE - COMPILING OF THREE LINKS, WRITING THE LINKS ON THE LINKING TAPE AND EXECUTING THE PROGRAM.

SOURCE LANGUAGE: FORTRAN. CONFIGURATION: 900 SERIES WITH AT LEAST THO MAGNETIC TAPES AND CARD READER.

9-SERIES CLASS B3 PROGRAM SUMMARIES

850680 9-SERIES FORTRAN 11 RUN-TIME DEBUG SUBROUTINE

AUTHOR: XEROX ABSTRACT:

TO ALLOH THE USER TO EXAMINE THE VALUES OF VARIABLES DURING THE EXECUTION OF A FORTRAN PROGRAM AND TO CHANGE THESE VALUES CONVENIENTLY.

COMMENTS:

SOURCE LANGUAGE: SYMBOL. SIZE:319 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH TYPENRITER.

850683 9-SERIES BUFFERED LINE PRINTER MEMORY DUMP

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE A METHOD OF PRINTING THE CONTENTS OF MEMORY VIA THE LINE PRINTER.

COMMENTS: SOURCE LANGUAGE: META-SYMBOL. SIZE 248 DECIMAL. CONFIGURATION:ANY XDS 900 SERIES COMPUTER WITH AN XDS BUFFERED LINE PRINTER.

850684 9-SERIES

AUTHOR: XEROX

CARD OR MAG TAPE TO BUFFERED LINE PRINTR

ABSTRACT:

PRINTED TO PROVIDE A METHOD OF PRINTING CARD IMAGES FROM EITHER A CARD READER OR A MAGNETIC TAPE UNIT WITH OR WITHOUT FORMAT CONTROL ON THE LINE PRINTER.

COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 806 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER HITH AN XDS BUFFERED LINE PRINTER AND EITHER AN XDS MODEL 9151 CARD READER OR XDS MODEL (9145 OR 9240) MAGNETIC TAPE

850686

FORTRAN FREE INTERRUPTS SUBROUTINE

AUTHOR: XFROX

ABSTRACT:

TO ALLOW THE USER TO USE LOCATIONS 200-247 FOR INTERRUPTS DURING THE EXECUTION OF A FORTRAN OBJECT COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE:136 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER.

850687 9-SERIES SEQ. NUMBER ASGNT.+P.T.UPDATING ROUTINES

AUTHOR: XEROX
ABSTRACT:
TO LIST THE SOURCE STATEMENT HITH SEQUENCE NUMBERS TO FACILITATE USE OF THE UPDATING PORTIONS OF THE PROGRAM AND TO PUNCH AN UPDATED VERSION OF THE SOURCE PROGRAM.

SOURCE LANGUAGE: META-SYMBOL. SIZE 4009 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH 4K MEHORY, PAPER TAPE 1/0 AND TYPEWRITER.

9-SERIES AUTHOR: XEROX

UTILITY AND DEBUG PACKAGE (AID)

ABSTRACT:

PROVIDE VARIOUS UTILITY ROUTINE AND DEBUGGING AIDS FOR THE PROGRAMMER'S USE DURING ON-LINE PROGRAM CHECKOUT.

COMMENTS .

SOURCE LANGUAGE: META-SYMBOL. SIZE:2584 DECIMAL. CONFIGURATION: ANY 900 SERIES XDS COMPUTER WITH A CONSOLE TYPEWRITER.

850690

900-SERIES AUTHOR: XEROX

ALGOL 60 EXT'D UNBUF LINE PRT. LIB ROUT.

ABSTRACT:

ISTRACT:
TO ALLOH USE OF UNBUFFERED LINE PRINTER IN ALGOL SYSTEM. THIS LIBRARY PROGRAM IS LOADED WHEN OUTPUT TO
THE LINE PRINTER IS CALLED FOR IN AN ALGOL PROGRAM.OUTPUT TO THE LINE PRINTER IS COMMENTS:

SOURCE LANGUAGE: METASYMBOL COMPUTER CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH AN UNBUFFERED PRINTER (XDS MODEL NO. 9372).

850697

9-SERIES

R.T.FORTRAN LOADER PATCH FOR UNBUF.PRINT

AUTHOR: XEROX **ABSTRACT:**

TO ALLOH USE OF THE UNBUFFERED LINE PRINTER WITH THE STANDARD REAL-TIME FORTRAN II LOADER. COMMENTS:

XONENTS: SOURCE LANGUAGE: SYMBOL/META-SYMBOL. SIZE:3420 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER HITH AT LEAST 8K MEMORY AND AN UNBUFFERED LINE PRINTER (XDS MODEL NO. 9372).

850698

9-SERIES

XDS FORTRAN DEMONSTRATION PROGRAM

AUTHOR: XEROX

ABSTRACT:

INVERTS A 10X10 MATRIX.

COMMENTS:

SOURCE LANGUAGE: FORTRAN. SIZE 4000 DECIMAL. CONFIGURATION: ANY XDS COMPUTER WITH A 4K OR GREATER MEMORY.

PROGRAM CORRECTION TAPE GENERATOR 9-SERIES 850701 AUTHOR: XEROX

ABSTRACT:
TO AUTOMATE MODIFICATION OF OBJECT PROGRAMS.

SIZE: 447 DECIMAL. CONFIGURATION: ANY XDS 920 OR XDS 910 WITH PAPER TAPE PUNCH AND TYPEWRITER.

DRUM, P.T. MEMORY BINARY COPY ROUTINE 9-SERIES 850704

AUTHOR: XEROX

ABSTRACT:
TO COPY BINARY INFORMATION FROM MEMORY OR PAPER TAPE TO DRUM AND FROM DRUM TO PAPER TAPE.

SIZE:802 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH 2K MEMORY AND A DRUM.

GENERAL DRUM HANDLER 9-SERIES 850705

AUTHOR: XEROX

ABSTRACT: TO PROVIDE A GENERAL METHOD OF WRITING AND READING FROM THE DRUM.

SIZE:309 DECIMAL. CONFIGURATION: ANY 910/920 COMPUTER HITH A XDS MAGNETIC DRUM MEMORY (MODEL 9161).

MOSELEY PLOTTER TEST PROGRAM 9-SERIES 850706

AUTHOR: XEROX

ABSTRACT: PLOTS AN X-SHAPED CONFIGURATION OF POINTS TO TEST A PLOTTER

COMMENTS:

SIZE: 265 DECIMAL. CONFIGURATION: ANY XDS 910 OR 920 WITH MOSELEY PLOTTER.

LINK D BOOTSTRAP FOR DRUM 7 9-SERIES AUTHOR: XEROX 850707

ABSTRACT TO LOAD LINK O FROM DRUM TO MEMORY

14 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH 14K MEMORY AND A DRUM.

FORTRAN II TYPE SUBR. (LONG CARRIAGE) 850708 9-SERIES AUTHOR: XEROX

ABSTRACT: TO REPLACE THE STANDARD TYPE SUBROUTINE AND TAKE ADVANTAGE OF THE LONG CARRIAGE (130 CHARACTERS)

TYPEHR I TERS COMMENTS

SOURCE LANGUAGE: SYMBOL. SIZE:59 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTERS WITH 4K MEMORY.

GAUSSIAN DISTRIBUTION TEST ANALOG INPUTS 9-SERIES 850710

AUTHOR: XEROX

ABSTRACT:

ITERATIVELY TESTS ONE OR THO SETS OF ANALOG INPUTS FOR ERROR DISTRIBUTIONS.

DECIMAL 1024. CONFIGURATION: ANY 910/920 HITH ONE OR THO ANALOG INPUT MULTIPLEX AND CONVERTERS.

SEISHIC DUMP A AND B FORMATS 850740

AUTHOR: XEROX

ABSTRACT:

XDS 920 SEISMIC TAPE DUMP PROGRAMS FOR 9 TRACK GAPPED OR GAPLESS TAPES WITH A OR B FORMAT. THE OUTPUT FROM THESE PROGRAMS IS UTILIZED FOR VERIFICATION OF SEISMIC DATA TAPES.

COMMENTS: FOUR SEISMIC TAPE DUMP PROGRAMS ARE PROVIDED. ONE FOR EACH OF THE INPUT TAPE FORMATS; A FORMAT GAPPED AFORMAT GAPLESS

DEE-6D SIMULATOR SYSTEM HANDLERS 850742 AUTHOR: XEROX

ABSTRACT:

TO PROVIDE A SOFTWARE INTERFACE TO THE SYSTEM HARDWARE.

SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 930 WITH 32K CORE AND DEE-6D HARDHARE.

900-SERIES ADAPT COMPILER 850754 AUTHOR: XEROX

ABSTRACT: SINAU!: ADAPT IS A SYSTEM FOR THE COMPUTER-ASSISTED PROGRAMMING OF NUMERICALLY CONTROLLED MACHINE TOOLS, FLAME CUTTERS, DRAFTING MACHINES, AND SIMILAR EQUIPMENT. IT IS PRODUCTION ORIENTED, THAT IS, IT IS MRITTEN TO SIMPLIFY THE EFFORT, TIME, AND MONEY NEEDED TO TAKE FULL ADVANTAGE OF NUMERICALLY CONTROLLED TECHIQUES

850754 CONTINUED ON FOLLOHING PAGE

9-SERIES CLASS 83 PROGRAM SUMMARIES

```
ADAPT COMPILER
                                                                                                            (CONTINUED)
850754
        IN ENGINEERING AND MANUFACTURING.
      COMMENTS:
        SOURCE LANGUAGE: FORTRAN II. CONFIGURATION: ANY XDS 900 SERIES COMPUTER. MONARCH OPERATING SYSTEM CONFIGURATION HITH AT LEAST 16K CORE MEMORY, 3 MAGNETIC TAPES A TYPEHRITER A CARD READER, A LINE PRINTER. (BUFFERED OR UNBUFFERED) AND AN 8-LEVEL PAPER TAPE PUNCH. (OR RAD MONARCH CONFIGURATION).
850765
      55 910
AUTHOR: XEROX
                                             910/925 PROGRAM OPERATOR PACKAGE (COVER)
      ABSTRACT:
THIS PACKAGE INCLUDES THE ENTIRE PROGRAM OPERATOR PACKAGE (POP) DESCRIBED IN TECHNICAL MANUAL 900018.
         (910/925 PROGRAM OPERATOR TECHNICAL MANUAL)
      COMMENTS:
         SEE THE TECH MANUAL (900018) FOR THE COMPUTER CONFIGURATION.
850803
                  9-SERIES
                                             HIGH SPEED 4 DIGIT BIN TO DEC POP-SELF F
      AUTHOR: XEROK
ABSTRACT:
        PROVIDES A HIGH SPEED CONVERSION OF FIXED POINT FRACTIONAL BINARY NUMBERS TO BINARY CODED DECIMAL.
      COMMENTS:
        SIZE: 43 DECIMAL. CONFIGURATION: XDS 910. THIS SUBROUTINES USES OPERATION 04430000 (RIGHT CYCLE ONE AND CLEAR A) HHICH IS NOT A STANDARD OPERATION.
                                            HIGH SPEED SIN-COS POP-SELF FILLING
850804
                  9-SERIES
      AUTHOR: XEROX
      ABSTRACT:
         TO SIMULTANEOUSLY COMPUTE BOTH THE SINE AND COSINE OF AN ANGLE WITH 19 BIT ACCURACY.
      COMMENTS
        SIZE: 169 DECIMAL. CONFIGURATION: ANY XDS 910.
850805
                  9-SERIES
                                            HIGH SPEED ARCTANGENT POP-SELF FILLING
      AUTHOR: XEROX
      ABSTRACT:
        TO COMPUTE ARCTAN A/B TO 19 BIT ACCURACY. A AND B ARE NUMBERS IN THE A AND B REGISTER RESPECTIVELY.
      COMMENTS:
        SIZE: 162 DECIMAL. CONFIGURATION: ANY XDS 910.
850808
                  9-SERIES
                                            910/925 FORTRAN II SYSTEM (STAND ALONE)
      AUTHOR: XEROX
      ABSTRACT:
        THIS PROGRAM INCLUDES THE FOLLOWING: TITLES: 910 FORTRAN II COMPILER PERFORMATED TAPE INPUT, 910 FORTRAN II LIBRARY PERFORATED TAPE INPUT, 910 FORTRAN II RUN-TIME PERFORATED TAPE INPUT, AND FORTRAN II
        LOADER-PAPER TAPE VERSION.
      COMMENTS:
        SEE MANUAL 900003, 900 SERIES FORTRAN II REFERENCE MANUAL AND MANUAL 900587, 900 SERIES FORTRAN II
Operations manual. Size:4096 Decimal.
850812
                  9-SERIES
                                            910/925 FORTRAN II MOD. LOADER
      AUTHOR: XEROX
      ABSTRACT
        TO LOAD MODIFICATIONS TO THE FORTRAN II COMPILER.
      COMMENTS:
SIZE 277 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER. THIS MODIFICATION IS APPLICABLE ONLY TO THE
        STAND-ALONE FORTRAN II SYSTEM.
                                            910/925 FORTRAN II 3 CONTR CARDS HOD.
850813
                  9-SERIES
      AUTHOR: XEROX
      ABSTRACT:
        ALLOHS NO MORE THAN THREE CONTINUATION CARDS IN A FORTRAN PROGRAM.
      COMMENTS:
        CONFIGURATION: ANY XDS 910 COMPUTER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN 11
        SYSTEM.
                                            910/925 FORTRAN II 9 CONTR CARDS MOD.
                  9-SERIES
850814
      AUTHOR: XEROX
      ABSTRACT:
     ALLOHS THE USE OF UP TO NINE CONTINUATION CARDS IN A FORTRAN PROGRAM. COMMENTS:
        SIZE: 276 DECIMAL. CONFUGURATION: ANY XDS 910 COMPUTER-THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.
```

910/925 F-II HOLLERITH CONSTANT MOD. 850815 9-SERIES

AUTHOR: XEROX

ABSTRACT:
ALLOHS THE USE OF HOLLERITH CONSTANTS IN FORTRAN STATEMENTS.

COMMENTS:

SIZE: 62 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

9-SERIES 850816

910/925 ALGOL 60 BASIC 4K SYSTEM

AUTHOR: XEROX

ABSTRACT:

TO COMPILE, LOAD AND EXECUTE ALGOL PROGRAMS FROM A FREE STANDING SYSTEM.

COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: 910/925 COMPUTER WITH AT LEAST 4K MEMORY, TYPEHRITER AND PAPER TAPE 1/0. SEE MANUAL NO. 900699.

9-SERIES 850830

910/925 R.T. FORTRAN II (S/A) SYSTEM

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE A REAL-TIME FORTRAN II SYSTEM FOR THE 900 SERIES COMPUTERS. THE COMPILER, LOADER, AND RUN-TIME ARE ALL DISTRIBUTED ON A SINGLE ABSOLUTE BINARY PAPER TAPE.

SOURCE LANGUAGE: SYMBOL, META-SYMBOL. SIZE 8000 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH AT LEAST 8000 HORDS OF MEMORY. SEE MANUALS 901048,900003, AND 900587. THIS PROGRAM INCLUDES THE R.T. FORTRAN II COMPILER, LOADER AND RUN-TIME.

9-SERIES 850831

XDS PINT 910-BUFFERED PRINT

AUTHOR: XEROX

ABSTRACT:

XDS VERSION OF THE PURDUE INTERPRETER. THIS SYSTEM OPERATES WITH A BUFFERED LINE PRINTER .

SEE MANUAL NO. 901023, XDS PINT REFERENCE MANUAL.

9-SERIES

XDS 910 PINT-UNBUFFERED PRINT

AUTHOR: XEROX

ABSTRACT:

850832

XDS VERSION OF THE PURDUE INTERPRETER. THIS SYSTEM OPERATES HITH AN UNBUFFERED LINE PRINTER.

COMMENTS: SEE MANUAL NO. 901023, XDS PINT REFERENCE MANUAL.

9-SERIES 850833

XDS 910/925 FORTRAN II FORMAT STATEMENTS

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE THREE NEW HAYS OF SPECIFYING FORMAT STATEMENTS.

SOURCE LANGUAGE: SYMBOL. SIZE 39 DECIMAL. CONFIGURATION: ANY XDS 910/925 COMPUTER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

9-SERIES 850835

910/925 FORTRAN II CARD INPUT MOD.

AUTHOR: XEROX ABSTRACT:

TO INPUT FORTRAN SOURCE PROGRAMS FROM THE CARD READER.

COMMENTS:
SIZE:10 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER WITH CARD READER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM

850836 9-SERIES 910/925 FORTRAN II CARD PUNCH TAPE HOD.

AUTHOR: XEROX

ABSTRACT:
TO INPUT FORTRAN SOURCE PROGRAMS FROM EITHER THE CARD READER OR PAPER TAPE READER UNDER BREAKPOINT CONTROL.

COMMENTS:
SIZE 71 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER WITH CARD READER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

850837

9-SERIES

910/925 FORTRAN II CARD OUTPUT HOD.

AUTHOR: XEROX

TO PUNCH COMPILED FORTRAN PROGRAMS ON CARDS

SOURCE LANGUAGE:SYMBOL. SIZE:180 DECIMAL. CONFIGURATION: ANY 910/925 COMPUTER HITH CARD PUNCH. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

850841 9-SERIES 910/925 FORTRAN II MAG TAPE OUTPUT MOD. AUTHOR: XEROX

ABSTRACT:

TO HRITE A COMPILED FORTRAN PROGRAM ON MAGNETIC TAPE.

COMMENTS:
SIZE 371 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER WITH A MAGNETIC TAPE. THIS MODIFICATION IS APPLICABLE UNLY TO THE STAND-ALONE FORTRAN II SYSTEM.

9-SERIES 910/925 F-II M.T. PAPER TAPE OUTPUT MOD 850842

AUTHOR: XEROX ABSTRACT:

TO OUTPUT COMPILED FORTRAN PROGRAMS ON EITHER MAGNETIC TAPE OR PAPER TAPE UNDER BREAKPOINT CONTROL. COMMENTS:

ASSEMBLY LANGUAGE USED: SYMBOL B. SIZE 442 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER HITH A MAGNETIC TAPE UNIT. THIS MODIFICATION IS APPLICABLE ONLY TO THE STANDALONE FORTRAN II SYSTEM.

910/925 SORT MERGE (COVER) 9-SERIES 850848

AUTHOR: XEROX ABSTRACT:

THIS NUMBER COVERS CATALOG NUMBERS 850849 (910/925 SORT) AND 850850 (910/925 MERGE). IT PROVIDES COMPREHENSIVE SORTING CAPABILITY FOR 910/925 SYSTEMS. IT IS CONTROL-CARD DRIVEN AND AVAILABLE ON CARDS. SEE XDS REFERENCE MANUAL 90097 FOR DESCRIPTION OF USE. COMMENTS:

THIS PROGRAM HILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.
SOURCE LANGUAGE IS METASYMBOL. REQUIRES BK HORDS FOR FULL CAPACITY VERSION UNDER MONARCH, THREE TAPE UNITS, ONE CARD READER, AND ONE TYPEHRITER.

7 9-SERIES AUTHOR: XEROX 850857 910/925 FORTRAN II BUFFERED PRT. MOD.

ABSTRACT:

TO LIST FORTRAN SOURCE PROGRAMS ON THE BUFFERED LINE PRINTER.

INTERIES: SIZE:53 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER HITH A BUFFERED PRINTER (XDS MODEL NO. 9173). THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

910/925 FORTRAN II FAST LISTING MOD. 850858 9-SERIES

AUTHOR: XEROX ABSTRACT:

TO IMPROVE THE SPEED WHEN LISTING FORTRAN SOURCE PROGRAMS DURING COMPILATION.

COMMENTS:

SOURCE LANGUAGE: SYMBOL. SIZE:4 DECIMAL. CONFIGURATION: ANY XDS 910/925 HITH A LINE PRINTER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

850859 9-SERIES 910/925 FORTRAN II UNBUFFERED PRTR. MOD.

AUTHOR: XEROX

ABSTRACT:
TO LIST FORTRAN SOURCE PROGRAMS ON THE UNBUFFERED LINE PRINTER.

OFFICENCY OF STATE OF

850862 9-SERIES 910 FORTRAN DRUM LINKING SYSTEM

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE THE STANDARD 910 FORTRAN SYSTEM WITH THE DRUM LINKING CAPABILITY.

CONFIGURATION: ANY 910 COMPUTER HITH 4K OF MEMORY AND A DRUM (XDS 9161).

850864 9-SERIES FORTRAN II DRUM READ/HRITE HODIFICATION

AUTHOR: XEROX

ABSTRACT:
ALLOHS THE USE OF DRUM READ/HRITE STATEMENTS IN A FORTRAN PROGRAM.

COMMENTS:

SIZE:33 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER WITH A MAGNETIC DRUM MEMORY (XDS MODEL 9161). THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN 11 SYSTEM.

LINEAR INTERPOLATION-1 INDEPENDENT VARI 850914 9-SERIES

AUTHOR: XEROX

ABSTRACT:
TO FIND A FUNCTION OF A GIVEN ARGUMENT, X, BY STRAIGHTLINE INTERPOLATION IN A TABLE OF X, F(X) PAIRS, HHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.

SIZE 23 DECIMAL. SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: ANY 920/930.

LINEAR INTERPOLATION-2 INDEPENDENT VARI 850915 9-SERIES AUTHOR: XEROX

ABSTRACT:

TO FIND A FUNCTION OF THO GIVEN ARGUMENTS, X AND Y, BY THREE STRAIGHT-LINE INTERPOLATIONS IN A TABLE OF X, Y, F(X,Y), WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.

COMMENTS:

SIZE 74 DECIMAL. SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: ANY 920/930.

LINEAR INTERPOLATION-3 INDEPENDENT VARI 850916 9-SERIES

AUTHOR: XEROX

ABSTRACT:

TO FIND A FUNCTION OF THREE GIVEN ARGUMENTS, X, Y, AND Z, BY SEVEN STRAIGHT-LINE INTERPOLATIONS IN A
TABLE OF X,Y, Z F (X,Y,Z), WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.

SIZE 135 DECIMAL. SOURCE LANGUAGE: META-SYMBOL CONFIGURATION: ANY 920/930.

920/930 PROGRAMMED OPERATOR PACKAGE 850919

AUTHOR: XEROX

ABSTRACT: THIS PACKAGE INCLUDES THE ENTIRE PROGRAM OPERATOR PACKAGE (POP) DESCRIBED IN TECHNICAL MANUAL 900020.

(920/930 PROGRAM OPERATOR TECHNICAL MANUAL).

SEE THE TECH MANUAL (900020) FOR THE COMPUTER CONFIGURATION.

850957 9-SERIES 920/930 FORTRAN II SYSTEM (STAND ALONE)

AUTHOR: XEROX

ABSTRACT:
THIS IS THE STAND-ALONE 920/930 FORTRAN-II PACKAGE CONSISTING OF COMPILER, LOADER AND RUN-TIME/LIBRARY

MMENTS:
SOURCE LANGUAGE:SYMBOL. SIZE 4096 DECIMAL. THIS PROGRAM COVERS 850938,850959,850960. SEE MANUALS 900587.
900 SERIES FORTRAN II OPERATIONS,900003,900 SERIES FORTRAN II REFERENCE MANUAL AND 901048,900 SERIES
FORTRAN II TECHNICAL MANUAL. CONFIGURATION: ANY 920/930 COMPUTER.

FORTRAN 11 FORMATS-AT RUN-TIME MOD. 850963 9-SERIES

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE THREE NEW WAYS OF SPECIFYING FORMAT STATEMENTS.

SOURCE LANGUAGE:SYMBOL. SIZE:39 DECIMAL. CONFIGURATION:ANY 920 /930 COMPUTER.

FORTRAN-9 CONTINUATION CARD HODIFICATION 9-SERIES 850964

AUTHOR: XEROX ABSTRACT:

ALLOHS THE USE OF UP TO NINE CONTINUATION CARDS IN A FORTRAN PROGRAM.

SIZE: 190 DECIMAL. ANY 920/930 COMPUTER.

FORTRAN II MODIFICATION LOADER 850965 9-SERIES AUTHOR: XEROX

ABSTRACT:

TO LOAD MODIFICATIONS TO THE FORTRAN II COMPILER.

COMMENTS

SIZE: 277 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER.

FORTRAN-3 CONTINUATION CARD MODIFICATION 850966 9-SERIES

AUTHOR: XEROX

ABSTRACT:

ALLOHS NO MORE THAN THREE CONTINUATION CARDS IN A FORTRAN PROGRAM.

ANY 920/930 COMPUTER.

FORTRAN HOLLERITH LITERALS MODIFICATION 850967 9-SERIES

AUTHOR: XEROX ABSTRACT:

ALLOWS THE USE OF HOLLERITH CONSTANTS IN FORTRAN STATEMENT.

SIZE:50 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER.

GO MO KU 850968 9-SERIES

AUTHOR: XEROX

ABSTRACT:

GO MO KU IS A SELF-CONTAINED COMPUTER PROGRAM WHICH ENABLES THE COMPUTER TO PLAY GO HO KU (5 IN A ROW.

850968 CONTINUED ON FOLLOWING PAGE

```
GO MO KU

THE RULES OF THE GAME ARE BEST DESCRIBED BY COMPARING IT HITH TIC-TAC-TOE. IF TICTAC-TOE IS DEFINED AS A GAME IN HHICH THE OBJECT IS FOR A PLAYER TO GET 3 IN A ROW ON AS BY 3 BOARD, THEN GO MO KU IS A GAME IN HHICH THE OBJECT IS FOR A PLAYER TO GET 5 IN A ROW ON A 15 BY 15 BOARD.
 850968
         SIZE:4096 DECIMAL. CONFIGURATION: 4K XDS 920.
 850970
                   9-SERIES
                                             920/930 ALGOL 60 BASIC 4K SYSTEM (COVER)
       AUTHOR: XEROX
       ABSTRACT:
         TO COMPILE, LOAD AND EXECUTE ALGOL PROGRAMS FROM A FREE STANDING SYSTEM.
       COMMENTS:
         THIS IS THE STAND-ALONE ALGOL SYSTEM CONSISTING OF COMPILER, LOADER AND LIBRARY/RUNTIME.
 850984
                  9-SERIES
                                             920/930 REAL TIME FORTRAN II (COVER)
       AUTHOR: XEROX
       ABSTRACT:
         FORTRAN II SYSTEM IS A COMPLETE PACKAGE FOR COMPILING, LOADING, AND EXECUTING FORTRAN II PROGRAMS.
         INTERNIS:
SEE MANUAL NO. 901048:920/930 REAL TIME FORTRAN 11 TECHNICAL MANUAL,MANUAL NO.900003: 900 SERIES FORTRAN
11 REFERENCE MANUAL AND MANUAL NO. 900587: 900 SERIES FORTRAN 11 OPERATIONS MANUAL.
850985
                  9-SERIES
                                            PINT 920/930 BUFFERED PRINT
      AUTHOR: XEROX
      ABSTRACT:
      XDS VERSION OF THE PURDUE INTERPRETER. THIS SYSTEM OPERATES WITH A BUFFERED LINE PRINTER. COMMENTS:
         SEE MANUAL NO.901023, XDS REFERENCE MANUAL.
850986
                  9-SERIES
                                            PINT 920/930 UNBUFFERED PRINT
      AUTHOR: XEROX
      ABSTRACT
        XDS VERSION OF THE PURDUE INTERPRETER. THIS SYSTEM OPERATES WITH AN UNBUFFERED LINE PRINTER (9372).
        SEE MANUAL NO.901023, XDS REFERENCE MANUAL.
850989
                 9-SERIES
                                            920/930 FORT II CARD/PAPER TAPE INPT HOD
      AUTHOR: XERDX
      ABSTRACT:
        TO INPUT FORTRAN SOURCE PROGRAMS FROM EITHER THE CARD READER OR PAPER TAPE READER UNDER BREAKPOINT
        CONTROL.
        SIZE 57 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER WITH CARD READER.
850990
                 9-SERIES
                                           920/930 FORTRAN II CARD INPUT HOD.
     AUTHOR: XERDX
     ABSTRACT:
        TO INPUT FORTRAN SOURCE PROGRAMS FROM THE CARD READER.
       SIZE: 8 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER WITH CARD READER.
850991
                                           920/930 FORTRAN II CARD OUTPUT HOD.
                 9-SERIES
     AUTHOR: XEROX
     ABSTRACT:
        TO PUNCH COMPILED FORTRAN PROGRAMS ON CARDS.
     COMMENTS:
        SOURCE LANGUAGE: META/SYMBOL. SIZE: 120 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER HITH CARD PUNCH.
850992
                 9-SERIES
                                           920/930 FORTRAN II MAG TAPE INPUT MOD.
     AUTHOR: XEROX
     ABSTRACT:
       THIS MODIFICATION TO THE XDS 920 FORTRAN II COMPILER REPLACES THE PAPER TAPE INPUT CODING WITH CODING TO INPUT SOURCE CARD IMAGES FROM MAGNETIC TAPE, LOGICAL, UNIT NO. 2.
     COMMENTS
       SIZE 133 DECIMAL. CONFIGURATION: ANY 920 COMPUTER WITH A MAGNETIC TAPE UNIT.
```

AUTHOR: XEROX ABSTRACT:

850997

9-SERIES

TO OUTPUT COMPILED FORTRAN PROGRAMS ON EITHER MAGNETIC TAPE OR PAPER TAPE UNDER BREAKPOINT CONTROL.

SOURCE LANGUAGE: SYMBOL 8. SIZE: 282 DECIMAL. CONFIGURATION ANY 9.0/930 COMPUTER HITH A MAGNETIC TAPE UNIT.

920/930 FORT II HAG TPE/PAPER TPE OUTPUT

920/930 FORTRAN II MAG TAPE OUTPUT MOD. 9-SERIES 850998

AUTHOR: XEROX

ABSTRACT:

TO WRITE A COMPILED FORTRAN PROGRAM ON MAGNETIC TAPE.

SOURCE LANGUAGE: SYMBOL 8. SIZE: 238 DECIMAL. CONFIGURATION ANY 920/930 COMPUTER WITH A MAGNETIC TAPE

920/930 SORT MERGE (COVER) 9-SERIES
AUTHOR:XEROX CORPORATION 851006

ABSTRACT:
THIS NUMBER COVERS CATALOG NUMBERS 851007 (920/930 SORT) AND 851008 (920/930 MERGE). IT PROVIDES A
COMPREHENSIVE SORTING CAPABILITY FOR 920/930 SYSTEMS. IT IS CONTROL-CARD DRIVEN AND AVAILABLE ON CARDS.
SEE XDS REFERENCE MANUAL 900997 FOR DESCRIPTION OF USE.

THIS PROGRAM HILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN

PROGRAM IS HRITTEN IN METASYMBOL.
SOURCE LANGUAGE IS METASYMBOL. REQUIRES BK HORDS FOR FULL CAPACITY VERSION UNDER MONARCH, THREE TAPE UNITS, ONE CARD READER, AND ONE TYPEHRITER.

PAYROLL GENERATOR 9-SERIES 851010

AUTHOR: XEROX

TO COMPUTE PAYROLL EARNINGS, BASED ON DATA CONTAINED ON AN EMPLOYEE MASTER FILE AND A TIME REPORT FILE. THIS PROGRAM HORKS ONLY UNDER MANAGE. ABSTRACT:

9-SERIES BUFFERED LINE PRINTER TRACE 851012

AUTHOR: XEROX

ABSTRACT:

TO ALLOW EXECUTION OF ALMOST ALL OBJECT PROGRAM INSTRUCTIONS AND PRODUCE A LINE PRINTER LISTING OF THE DESIRED INSTRUCTIONS IN SEQUENCE OF THEIR EXECUTION ALONG WITH THE INTERMEDIATE RESULTS.

COMMENTS: SOURCE LANGUAGE: META-SYMBOL. SIZE: 544 DECIMAL. CONFIGURATION: ANY 920 OR 930 WITH LINE PRINTER. RELOCATABLE BINARY CARDS ALSO AVAILABLE ON 930 RAD MONARCH SYSTEM

920/930 RTF II INBUF. PRT. COMPILER MOD 9-SERIES 851014

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE AN UNBUFFERED PRINTER CAPABILITY FOR THE 920/930 REAL TIME FORTRAN II COMPILER.

COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE: 64 DECIMAL. CONFIGURATION ANY 920/930 COMPUTER WITH 8K (OR MORE) MEMORY
AND A MODEL 9372 UNBUFFERED PRINTER ON CHANNEL A.

FORTRAN BUFFERED PRINTER HODIFICATION 9-SERIES 851015

AUTHOR: XEROX

ABSTRACT:

TO LIST FORTRAN SOURCE PROGRAMS ON THE BUFFERED LINE PRINTER.

COMMENTS:

SIZE: 43 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER HITH A BUFFERED PRINTER (XDS MODEL NO. 9173).

920/930 FORTRAN II COMPILER UNBUF. PRT. 851017 9-SERIES

AUTHOR: XEROX

TO LIST FORTRAN SOURCE PROGRAMS ON THE UNBUFFERED LINE PRINTER.

SIZE:80 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER WITH AN UNBUFFERED PRINTER (XDS MODEL NO. 9372).

92 SIMULATOR 851019 9-SERIES

AUTHOR: XEROX

ABSTRACT:
TO PROVIDE THE FUTURE 92 USER HITH THE FACILITY TO DEBUG HIS 92 PROGRAMS PRIOR TO TAKING DELIVERY OF HIS
MACHINE. A COMPLETE SET OF DEBUGGING AIDS IS INCLUDED.

SOURCE LANGUAGE: META-SYMBOL. SIZE: 6844 DECIMAL. CONFIGURATION. ANY 920 HITH A TYPEHRITER AND HITH AT LEAST 8K MEMORY. A LINE PRINTER IS REQUIRED FOR TRACE AND DUMP OPTIONS.

FORTRAN DRUM READ/HRITE STATEMENTS 9-SERIES 851026

AUTHOR: XEROX

ABSTRACT:

ALLOHS THE USE OF DRUM READ/HRITE STATEMENTS IN A FORTRAN PROGRAM.

COMMENTS:

SIZE 27 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER WITH A MAGNETIC DRUM MEMORY (XDS MODEL 9161).

9-SERIES CLASS B3 PROGRAM SUMMARIES

851027

JPL TCP ANALOG EQUIPMENT DEMONSTRATION

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM IS DESIGNED TO DEMONSTRATE AND CALIBRATE THE JPL TCP ANALOG EQUIPMENT EXPANSION KITS.

851047 9-SERIES

AUTHOR: XEROX ABSTRACT:

DOUBLE PRECISION FLOATING POINT POP

TO SIMULATE THE OPERATION OF FLOATING POINT INSTRUCTIONS ON THE XDS 930.

COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 233 DECIMAL. CONFIGURATION: ANY XDS 930 COMPUTER.

851064

AUTHOR: XEROX

ABSTRACT:
TO PROVIDE A LIBRARY OF INTERCONNECTED SUBROUTINES WHICH ENABLES THE USER TO CONTROL HYBRID SYSTEM COMMENTS:

HYBRID EXEC. LIB. FOR AEROSPACE CORP.

SOURCE LANGUAGE: META/SYMBOL. SIZE: 3865. CONFIGURATION: 900 SERIES REAL-TIME MONITOR CONFIGURATION.

851106

9-SERIES AUTHOR: XEROX

PAPER TAPE - TYPEHRITER HANDLER 925/930

ABSTRACT:

TO PROVIDE A CLOSED SUBROUTINE TO PERFORM 1/0 FUNCTIONS ON PAPER TAPE AND TYPEHRITER. BOTH INTERLACE AND INTERRUPTS ARE USED. COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 337 DECIMAL. CONFIGURATION: ANY 925/930 WITH A TYPEHRITER AND/OR PAPER TAPE UNIT ATTACHED TO AN INTERLACED CHANNEL.

851108 9-SE AUTHOR: XEROX

9-SERIES 925/930 CARD PUNCH AND VERIFY PROGRAM

ABSTRACT:
TO COPY CARD IMAGES ON TAPE, AND TO REPRODUCE OR VERIFY THOSE IMAGES.

COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 535 DECIMAL. CONFIGURATION: ANY 925/930, 9158 CARD PUNCH, CHANNEL W. CARD READER, MAG TAPE.

851109

9-SERIES

CARD READ SUBROUTINE (CDR)

AUTHOR: XEROX

ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF ACCEPTING INPUT FROM A CARD READER IN EITHER BCD OR BINARY HODE. INTERLACE IS USED AND THE INTERUPTS ARE ENABLED AND USED.

SOURCE LANGUAGE: META-SYMBOL. SIZE: 134 DECIMAL. CONFIGURATION: ANY 925/930 HITH A CARD READER ATTACHED TO AN INTERLACED CHANNEL.

851112

2 9-SERIES AUTHOR: XEROX

MAGNETIC TAPE HANDLER (EXTENDED MODE)

ABSTRACT:

TO PROVIDE A GENERALIZED ROUTINE TO PERFORM VARIOUS MAGNETIC TAPE OPERATIONS. THE ROUTINE OPERATES IN THE EXTENDED MODE UNDER INTERRUPT CONTROL.

COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 523 DECIMAL. CONFIGURATION: ANY XDS 925/930 HITH MAGNETIC TAPE(S) ON ANY OF THE INTERLACED CHANNELS A-H.

851116

9-SERIES

DSC-I DIAGNOSTIC TEST

AUTHOR: XEROX ABSTRACT:

THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A DMC/DSC-1 TEST INDEPENDENT OF A PERIPHERAL DEVICE.

851121

AUTHOR: XEROX

925/930 LINE PRINTER SUBROUTINE (PRINT)

ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF PRINTING LINES OF UP TO 132 CHARACTERS HITH VERTICAL FORMAT

CONTROL . COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 260 OCTAL HORDS. CONFIGURATION: ANY XDS 925 OR 930 HITH A BUFFERED LINE PRINTER ATTACHED TO AN INTERLACED CHANNEL.

SNAPSHOT SUBROUTINE 900-SERIES 851131

AUTHOR: XEROX

ABSTRACT: THIS PROGRAM HILL PERFORM SNAPSHOT AT SELECTED POINTS IN CORE. SNAPSHOT IS CALLED AS A SUBROUTIME. SNAPSHOT HILL ALSO INSERT CORRECTIONS IN CORE. EACH SNAPSHOT PRINTS THE P.A.B.X REGISTERS ALONG HITH THE BLOCK LIST SPECIFIED. INPUT PARAMETERS ARE READ FROM THE CARD READER. ILLEGAL CONTROL CARDS ARE PRINTED

COMPUTER CONFIGURATION REQUIRED: ANY 910,920,925,930 COMPUTER WITH A CARD READER, PRINTER AND TYPEHRITER. THIS RELOCATABLE PROGRAM REQUIRES 571 OCTAL LOCATIONS. COMMENTS:

900-SERIES 851143

UTILITY PACKAGE

AUTHOR: XEROX

ABSTRACT:

PROVIDES ALL ASPECTS OF MAGNETIC TAPE PROCESSING RELATED TO UTILITY USAGE.

COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CON: ANY XDS 900 SERIES COMPUTER WITH 8K MEMORY, TYPEWRITER, THO MAG TAPES AND CARD READER.

LIST TAPE ROUTINE 900-SERIES 851144

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM WILL LIST A SYMBOLIC TAPE OF UP TO 33 WORDS PER RECORD AT THE I/O DEVICE SPEED. THREE OPTIONS ARE PROVIDED VIA BREAKPOINT SHITCHES LISTING THE FIRST 25 RECORDS OR ALL RECORDS IN A FILE HALTING ON AN EOF ACCEPTING OR IGNORING A RECORD WHEN A READ ERROR OCCURS

COMMENTS: COMPUTER CONFIGURATION: ANY 910,925,920,930 COMPUTER WITH A CARD READER,PRINTER,MAGNETIC TAPE,INTERLACE CONTROL AND TYPEWRITER. THE PROGRAM IS LOADED BY THE STANDARD LOAD PROCEDURES FOR A BINARY PROGRAM

15 KC MAGNETIC TAPE EXERCISER 851145 910

AUTHOR: XEROX

ABSTRACT:
THIS PROGRAM IS INTENDED TO EXERCISE 15 KC MAGNETIC TAPE UNITS SUCH AS THE 9148. THE TAPE UNIT MUST BE
ATTACHED TO THE Y BUFFER. A TYPEHRITER MUST BE CONNECTED TO THE H BUFFER.

COMMENTS: THIS PROGRAM HILL WORK WITH ANY XDS 900 SERIES COMPUTER. THE PROGRAM OPERATES IN EITHER THE PROGRAM CONTROL MODE OR THE INTERLACE CONTROL MODE. THE Y BUFFER INTERRUPTS ARE ULTILIZED BY THE PROGRAM.

LN-FLOATING-POINT NATURAL LOGARITHM 851149

AUTHOR: XEROX

ABSTRACT: TO REPLACE A NORMALIZED FLOATING POINT NUMBER IN THE PSEUDO-ACCUMULATOR (LOCATIONS 1-3) BY 178 EXPONENTIAL (BASE E)

SOURCE LANGUAGE: 92 SYMBOL. SIZE: 133 DECIMAL. CONFIGURATION: ANY XDS 92.

SIN/COS-FLOATING-POINT SINE-COSINE SUBR. 851150

AUTHOR: XEROX

ABSTRACT:

TO REPLACE A NORMALIZED FLOATING-POINT NUMBER IN THE PSEUDO-ACCUMULATOR (LOCATIONS 1-3) BY ITS SINE OR COSINE.

COMMENTS:

SOURCE LANGUAGE: 92 SYMBOL. SIZE: 178 DECIMAL. CONFIGURATION: ANY XDS 92.

ATAN-FLOATING-POINT ARCTANGENT SUBR. 851151

AUTHOR: XEROX

ABSTRACT: TO COMPUTE THE FLOATING POINT ARCTANGENT OF THE RATIO OF THO SPECIFIED NORMALIZED FLOATING-POINT ARGUMENTS.

SOURCE LANGUAGE: 92 SYMBOL. SIZE: 246 DECIMAL. CONFIGURATION: ANY XDS 92.

92 SYMBOL 851158

AUTHOR: XEROX

ABSTRACT: TO ASSEMBLE SOURCE LANGUAGE PROGRAMS WRITTEN IN THE XDS 92 SYMBOL ASSEMBLY LANGUAGE.

COMMENTS:

SOURCE LANGUAGE: 92 SYMBOL. SIZE: 4096 DECIMAL. CONFIGURATION: ANY XDS 92 HITH AT LEAST 4K MEMORY.

PAPER TAPE+TYPEWRITER SUBROUTINE(PTY10) 851159

AUTHOR: XEROX

ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF ACCEPTING INPUT FROM A PAPER TAPE READER OR CONSOLE TYPENRITER
AND TRANSMITTING DATA TO A PAPER TAPE PUNCH OR CONSOLE TYPENRITER AND PERFORMING THESE FUNCTIONS IN

851159 CONTINUED ON FOLLOWING PAGE

851159 PAPER TAPE+TYPEHRITER SUBROUTINE (PTY10) (CONTINUED)
EITHER BCD OR BINARY MODE. THE BUFFER INTERRUPTS MUST BE DISABLED BEFORE ENTERING THIS SUBROUTINE. COMMENTS:

SOURCE LANGUAGE: SYMBOL. SIZE: 276 DECIMAL. CONFIGURATION: ANY XDS 92 COMPUTER WITH A PAPER TAPE READER. A PAPER TAPE PUNCH,OR A CONSOLE TYPEWRITER ATTACHED TO THE 1/0 CHANNEL.

851160 AUTHOR: XEROX BINARY PAPER TAPE RELOCATING BOOTSTRAP

ABSTRACT:

TO LOAD BINARY PAPER TAPES OUTPUT FROM 92 SYMBOL. THIS LOADER HILL LOAD AND RELOCATE ANY OBJECT PROGRAM OUTPUT BY 92 SYMBOL EXCEPT ONE CONTINING AN EXTERNAL REFERENCE/DEFINITION.

SOURCE LANGUAGE: 92 SYMBOL. SIZE: 306 DECIMAL. CONFIGURATION: ANY XDS 92 WITH PAPER TAPE READER.

851161 AUTHOR: XEROX BINARY PAPER TAPE BOOTSTRAP LOADER

ABSTRACT:
TO RELOCATE INTO UPPER MEMORY BINARY PAPER TAPE OUTPUT FROM 92 SYMBOL. THIS LOADER HILL LOAD AND RELOCATE ANY OBJECT PROGRAM OUTPUT BY 92 SYMBOL EXCEPT ON CONTAINING AN EXTERNAL REFERENCE/DEFINITION.

SOURCE LANGUAGE: 92 SYMBOL. SIZE: 302 DECIMAL. CONFIGURATION: ANY XDS 92 HITH PAPER TAPE READER.

851162

COMMENTS:

UNIVERSAL BINARY LOADER (QUBLDR)

AUTHOR: XEROX ABSTRACT:

ISTACLT: TO LOAD ONE OR MORE PROGRAMS INTO MAIN (CORE) MEMORY FOR EXECUTION. PROGRAMS TO BE LOADED MUST BE PRESENTED TO THE LOADER IN THE OBJECT PROGRAM FORMAT EMPLOYED BY XDS 92 SYMBOL.

SOURCE LANGUAGE: 92 SYMBOL. SIZE: 803 DECIMAL. CONFIGURATION: ANY XDS 92 COMPUTER WITH A PAPER TAPE READER AND TYPEWRITER. THE LOADER IS AVAILABLE ON PAPER TAPE BUT CAN LOAD PROGRAMS WHICH EXIST EITHER ON PUNCHED CARDS OR PAPER TAPE.

851163 AUTHOR: XEROX BINARY PAPER TAPE RELOCATING UPPER LOADE

AUTHOR: ACROX
ABSTRACT:

TO LOAD BINARY PAPER TAPES OUTPUT FROM 92 SYMBOL. THIS LOADER HILL LOAD AND RELOCATE ANY OBJECT PROGRAM
OUTPUT BY 92 SYMBOL EXCEPT ONE CONTAINING AN EXTERNAL REFERENCE/ DEFINITION. THIS LOADER DIFFERS FROM
CATALOG NO. 851160, IN THAT IT RESIDES IN UPPER MEMORY (THE LAST 278 LOCATIONS) AND ONCE LOADER, DOES
NOT USE ANY LOHER MEMORY OTHER THAN SCRATCHPAD (0-31). COMMENTS:

SOURCE LANGUAGE: 92 SYMBOL. SIZE: 278 DECIMAL. CONFIGURATION: ANY XDS 92 HITH PAPER TAPE READER.

851167 AUTHOR: XEROX CARD READ HANDLER (COR)

ABSTRACT:

TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF READING 90-COLUMN CARDS PUNCHED IN EITHER BCD (HOLLERITH CODED) OR BINARY FORMAT. THE BUFFER INTERRUPTS MUST BE DISABLED BEFORE ENTERING THIS SUBROUTINE.

SOURCE LANGUAGE: SYMBOL. SIZE: 126 DECIMAL. CONFIGURATION: ANY XDS 92 COMPUTER HITH A CARD READER, ATTACHED TO THE 1/0 CHANNEL.

851169

MAGNETIC TAPE SUBROUTINE (MTAPE)

AUTHOR: XEROX ABSTRACT:

TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF READING AND/OR WRITING VARIABLE LENGTH RECORDS IN EITHER BCD OR BINARY MODES. BUFFER INTERRUPTS MUST BE DISABLED BEFORE ENTERING THIS SUBROUTINE. COMMENTS:

SOURCE LANGUAGE: SYMBOL. CONFIGURATION: ANY XDS 92 COMPUTER HITH A MAGNETIC TAPE UNIT, ATTACHED TO THE 1/0 CHANNEL AT 200, 556, OR 800 BPI DENSITY.

851176

MEMORY TO LINE PRINTER OCTAL DUMP

AUTHOR: XEROX

TO DISPLAY THE CONTENTS OF A SELECTED PORTION OF MEMORY

SIZE 80 DECEMAL. CONFIGURATION: ANY XDS 92 WITH LINE PRINTER AND PAPER TAPE OR CARD READER.

851177

LINE PRINTER SUBROUTINE (PRINT)

AUTHOR: XEROX ABSTRACT:

TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF PRINTING LINES OF UP TO 132 CHARACTERS HITH VERTICAL FORMAT CONTROL. THE BUFFER INTERRUPTS MUST BE DISABLED BEFORE ENTERING THIS SUBROUTINE.

SOURCE LANGUAGE: SYMBOL. SIZE 184 DECIMAL. CONFIGURATION: ANY XDS 92 COMPUTER HITH A PRINTER, ATTACHED TO THE 1/0 CHANNEL. LINE BUFFERED

MOD. 9372 UNBUF. LINE PRINTER. SUBR. (PRIN 851178

AUTHOR: XFROX

ABSTRACT: ISTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF PRINTING LINES OF UP TO 120 CHARACTERS WITH VERTICAL FORMAT CONTROL. THE BUFFER INTERRUPTS MUST BE DISABLED BEFORE ENTERING THIS SUBROUTINE.

COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE 466 DECIMAL. CONFIGURATION: ANY XDS 92 HITH A MODEL 9372 UNBUFFERED LINE PRINTER.

92 BASIC UTILITY PACKAGE 851188

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE A SIMPLE UTILITY SYSTEM FOR USE ON-LINE WITH THE 92.

COMMENTS:
SOURCE LANGUAGE:META-SYMBOL. SIZE: 840 DECIMAL HORDS. CONFIGURATION: ANY XDS 9300 COMPUTER.

MANAGE SYSTEM (COVER) 900-SERIES 851220

AUTHOR: XEROX

ABSTRACT:

SSINACT:
XDS MANAGE IS A GENERALIZED FILE MANAGEMENT SYSTEM EXPRESSLY DESIGNED TO AID CORPORATE DECISION
MAKING.IT PROVIDES A SIMPLIFIED METHOD FOR USING A COMPUTER TO ESTABLISH AND MAINTAIN VITAL COMPANY
RECORDS ON MAGNETIC TAPE, SELECTIVELY RETRIEVE DATA FROM THOSE RECORDS, AND GENERATE PRINTED REPORTS OF
THE DATA WHEN REQUESTED.

900-SERIES 925/930 RTM STAND-ALONE UPDATE 851257

AUTHOR: XEROX

ABSTRACT:

THIS ROUTINE IS USED TO UPDATE 925/930 RTM SYSGEN TAPES.

COMMENTS

SOURCE LANGUAGE: METASYMBOL, CONFIGURATION: XDS 925/930 HITH 8K MEMORY (MINIMUM).

910/925 MONARCH FOR UNBUFFERED PRINTER 851258

AUTHOR: XEROX

ABSTRACT:

TO PREFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING OPERATOR INTERVENTION

INDERVISE ANY XDS 910/925 HITH AT LEAST 8K HORDS OF STORAGE, CONSOLE TYPEHRITER, ONE OR MORE. MAG TAPES, AND UNBUFFERED PRINTER.

920/930 MONARCH FOR UNBUFFERED PRINTER 851259

AUTHOR: XEROX ABSTRACT:

TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING OPERATOR INTERVENTION.

COMMENTS:

INTERVISE ANY XDS 920/930 HITH AT LEAST 8K HORDS OF STORAGE, CONSOLE TYPEHRITER, ONE OR HORE HAG TAPES, AND Unbuffered printer.

925 RAD MONARCH FOR UNBUFFERED PRINTER 851260

AUTHOR: XEROX

ABSTRACT:
TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING OPERATOR INTERVENTION.

COMMENTS:

ANY XDS 925 HITH AT LEAST 8K HORDS OF STORAGE CONSOLE TYPEHRITER, ONE OR HORE HAG TAPES, 9367 DISC FILE, AND UNBUFFERED PRINTER.

930 RAD MONARCH FOR UNBUFFERED PRINTER 930 851261

AUTHOR: XEROX

ABSTRACT: TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING OPERATOR INTERVENTION.

COMMENTS:
ANY XDS 930 HITH AT LEAST BK HORDS OF STORAGE, CONSOLE TYPEHRITER, ONE OR HORE MAG TAPES, 9367 DISC FILE, AND UNBUFFERED PRINTER.

MONARCH MPRNT (UNBUF) 9-SERIES 851290

AUTHOR: XEROX

ABSTRACT TO PRINT CONTROL MESSAGES AND ERROR MESSAGES ON UNBUFFERED LINE PRINTER.

9-SERIES CLASS B3 PROGRAM SUMMARIES

851291 9-SERIES MONARCH PRINT (UNBUF)

AUTHOR: XEROX

ABSTRACT:

TO PRINT CONTROL MESSAGES AND ERROR MESSAGES ON UNBUFFERED LINE PRINTERS.

851292 9-SERIES MONARCH CDRP

AUTHOR: XEROX ABSTRACT

TO OBTAIN A BINARY CARD IMAGE FROM CARD READER.

851293

9-SERIES

MONARCH PTYLO

AUTHOR: XEROX

ABSTRACT:

TO OBTAIN CONTROL MESSAGE RECORDS FROM A PAPER-TAPE READER OR A TYPEHRITER AND TO TYPE CONTROL MESSAGES
AND ERROR MESSAGES ON TYPEHRITER.

851294

9-SERIES

MONARCH HTAPE

AUTHOR: XEROX ABSTRACT:

TO PERFORM MAGNETIC TAPE INPUT AND OUTPUT FUNCTIONS REQUESTED BY THE MONARCH CONTROL AND ACTION ROUTINES.

851295 9-Si AUTHOR: XEROX

9-SERIES

MONARCH PRINT

ABSTRACT:

TO PRINT CONTROL AND ERROR MESSAGES ON LINE PRINTER.

851299

EXT.1/0 TEST (NAV.TOR.STA.SYS..ADD-ON)

AUTHOR:S. GOOD

ABSTRACT:

THIS PROGRAM EXERCISES THE 12 EXTERNAL INPUTS (PIN) AND THE 12 EXTERNAL OUTPUTS (POT) OF THE NAVAL TORPEDO STATION SYSTEM (ADD-ON) ..

COMMENTS:

IN THE 'POT' MODE, THE OPERATOR TYPES IN THE OCTAL VALUE TO BE OUTPUT AND THIS VALUE IS SEQUENTIALLY 'POTTED' BY ALL OF THE 12 EXTERNAL OUTPUTS. IN THE 'PIN' MODE, THE VALUE OF EACH OF THE 12 EXTERNAL INPUTS IS SEQUENTIALLY TYPED, IN OCTAL.

851300

900-SERIES

925/930 FORTRAN IV LIBRARY

AUTHOR : XEROX

ABSTRACT:
THIS PROGRAM IS A COVER NUMBER FOR THE COMPLETE FORTRAN IV LIBRARY. IT INCLUDES CATALOG NUMBERS 851301

851500

900-SERIES

925/930 REAL-TIME MONITOR

AUTHOR: XEROX

ABSTRACT:

THE REAL TIME MONITOR IS A COMPREHENSIVE SYSTEM FOR MONITORING AND CONTROLLING ASSEMBLIES, COMPILATIONS AND OTHER PROGRAM OPERATION IN A REENTRANT, ONLINE REAL TIME MODE HILL NOT RUN ON 910/920. FOR REDUCTION. COMMENTS:

THIS PROGRAM COVERS CATALOG NUMBERS 851502 THRU 851578, THE -85 ELEMENT CONTAINS: REAL TIME MONITOR SYMBOL ASSEMBLER, REAL TIME FORTRAN IV COMPILER, AND REAL TIME FORTRAN IV LIBRARY.

851579

ARRAYS PROGRAM FOR NAVAL TORPEDO STATION

AUTHOR: XEROX
ABSTRACT:
TO TEST THE INPUT HARDHARE THAT SAMPLES THE ARRAYS.

SOURCE LANGUAGE:SYMBOL. COMPUTER CONFIGURATION:NAVAL TORPEDO STATION SYSTEM (ADD-OM) (930)

851583

900-SERIES AUTHOR: XEROX

900 SERIES FORTRAN IV COMPILER

ABSTRACT: THIS PROGRAM ALLOHS COMPILATION ON ANY 900 SERIES HACHINE OF PROGRAMS HRITTEN IN XDS FORTRAN IV. HITH THE EXCEPTION OF THOSE STATEMENTS AS NOTED IN THE XDS FORTRAN IV REF MANUAL AND APPLICABLE NSS MEMOS.

COMMENTS: ITS LIMITATIONS ARE DESCRIBED IN 851500-11 BUT NO OTHER FORMAL DOCUMENTATION EXISTS.

FLN -FLOATING NEGATE SUBROUTINE 851586 AUTHOR: XEROX ABSTRACT: TO NEGATE A FLOATING-POINT NUMBER IN THE PSEUDO ACCUMULATOR

FLOAT -FIXED TO FLOATING SUBROUTINE 851587

AUTHOR: XEROX

ABSTRACT:
TO FLOAT A FIXED-POINT THO'S COMPLEMENT INTEGER IN LOCATIONS 2 AND 3, WITH THO'S COMPLEMENT BINARY SCALING IN THE B REGISTER TO A FLOATING POINT NUMBER IN THE PSEUDO-ACCUMULATOR.

FIX -FLOATING TO A FIXED SUBROUTINE 851588

AUTHOR: XEROX

ABSTRACT:
TO CONVERT A NORMALIZED FLOATING-POINT NUMBER IN THE PSEUDOACCUMULATOR TO A THO'S COMPLEMENT FIXED POINT INTEGER IN LOCATIONS 2 AND 3, HITH THO'S COMPLEMENT BINARY SCALING SPECIFIED IN THE 8 REGISTER.

DVASIM -SIMULATED DVA INSTRUCTION 851589

AUTHOR: XEROX

ABSTRACT:
TO SIMULATE THE OPTIONAL DVA INSTRUCTION WHEN A DVA TRAP OCCURS

DVBSIM -SIMULATED DVB INSTRUCTION 851590

AUTHOR: XEROX ABSTRACT:

TO SIMULATE THE OPTIONAL DVB INSTRUCTION WHEN A DVB TRAP OCCURS

MUASIM -SIMULATED MUA INSTRUCTION 851591

AUTHOR: XEROX

ABSTRACT:

TO SIMULATE THE OPTIONAL MUA INSTRUCTION WHEN AN MUA TRAP OCCURS

MUBSIM -SIMULATED MUB INSTRUCTION 851592

AUTHOR: XEROX

TO SIMULATE THE OPTIONAL MUB INSTRUCTION WHEN AN MUB TRAP OCCURS

NORMZ -FLOATING NORMALIZE SUBROUTINE 851593 92 AUTHOR: XEROX

ABSTRACT:
TO NORMALIZE A FLOATING-POINT NUMBER IN THE PSEUDO-ACCUMULATOR

SQRT -FLOATING-POINT SQUARE ROOT SUBRT. 851594

AUTHOR: XEROX ABSTRACT:

TO REPLACE A NORMALIZED FLOATING-POINT NUMBER IN THE PSEUDOACCUMULATOR BY ITS SQUARE ROOT

EFFADR -EFFECTIVE ADDRESS ROUTINE 851595

AUTHOR: XEROX

ABSTRACT:
TO DETERMINE THE EFFECTIVE ADDRESS OF AN INSTRUCTION. THE EFFECTIVE ADDRESS IS PLACED IN BITS 9-11 OF

LOCATION 20 AND IN LOCATION 21

EXP -FLOATING POINT EXPONENTIAL 851596

8 92 AUTHOR: XEROX

ABSTRACT:
TO REPLACE A NORMALIZED FLOATING-POINT NUMBER IN THE PSEUDOACCUMULATOR BY ITS EXPONENTIAL

FLOATING POINT ARITHMETIC PKGE, FLPT92 851597

AUTHOR: XEROX ABSTRACT:

STRALI:

TO PROVIDE FLOATING-POINT CAPABILITY FOR XDS 92. THE FLOATINGPOINT PACKAGE CONSISTS OF: FLA - FLOATING
ADD FLS - FLOATING SUBTRACT FLM - FLOATING MULTIPLY FLD - FLOATING DIVIDE LDT - LOAD TRIPLE PRECISION
NORMZ - NORMALIZE FLOATING POINT NO.(SEE CAT. NO. 703008)

9-SERIES CLASS B3 PROGRAM SUMMARIES

300-SERIES 910 SYMBOL 4

AUTHOR: XEROX

ABSTRACT:
910 SYMBOL 4 15 DESIGNED TO RUN ON A XDS 910 HITH 4098 HORDS OF MEMORY, A TYPEHRITER, AND PAPER TAPE INPUT/OUTPUT.

851599 900-SERIES 910 SYMBOL 4 BUF. LINE PRINTER MOD.

AUTHOR: XEROX ABSTRACT:

TO CONVERT SYMBOL 4 TO OUTPUT ON THE 9173 LINE PRINTER INSTEAD OF THE TYPEHRITER.

851600 900-SERIES 910 SYMBOL 4 UNBUF. LINE PRINTER MOD

AUTHOR: XEROX

ABSTRACT:
TO CONVERT THE LIST OUTPUT IN SYMBOL FROM THE TYPEHRITER TO THE 9170 LINE PRINTER.

851601 900-SERIES 910 SYMBOL 4 TABLE PRINTER

AUTHOR: XEROX ABSTRACT:

TO LIST THE SYMBOL TABLE AFTER PASS 2 OF THE SYMBOL 4 ASSEMBLER.

851602 910/920 SYMBOL 4

AUTHOR: XEROX

ABSTRACT:
CONFIGURATION: XDS 910/920 HITH 4096 HORDS OF MEMORY, TYPEHRITER, AND PAPER TAPE INPUT/OUTPUT.

851603 900-SERIES 910/920 SYMBOL 4 UNBUF. PRINTER MOD AUTHOR: XEROX

ABSTRACT:

TO CONVERT SYMBOL TO OUTPUT ON THE 9170 LINE PRINTER INSTEAD OF THE TYPENRITER.

851604 9DO-SERIES 920 SYMBOL 4

AUTHOR: XEROX

ABSTRACT:

CONFIGURATION: XDS 920 WITH 4098 WORDS OF MEMORY TYPEWRITER, AND PAPER TAPE INPUT/OUTPUT.

851605 900-SERIES 920 SYMBOL 4 BUF. LINE PRINTER HOD

AUTHOR: XEROX

TO CONVERT SYMBOL TO OUTPUT ON THE 9173 LINE PRINTER INSTEAD OF THE TYPEHRITER.

851606 900-SERIES 920 SYMBOL 4 UNBUF. LINE PRINTER MOD

AUTHOR: XEROX ABSTRACT:

TO CONVERT SYMBOL 4 TO OUTPUT ON THE 9170 LINE PRINTER INSTEAD OF THE TYPEHRITER.

851607 900-SERIES 920 SYMBOL 4 TABLE PRINTER

AUTHOR: XERCIX ABSTRACT:

TO LIST THE SYMBOL TABLE AFTER PASS 2 OF THE SYMBOL ASSEMBLER.

851608 900-SERIES 920/910 SYMBOL 4

AUTHOR: XERCX ABSTRACT:

STRACT: CONFIGURATION: XDS 920/910 HITH 4096 HORDS OF MEMORY TYPEHRITER, AND PAPER TAPE INPUT/OUTPUT.

851609 900-SERIES 920/910 SYMBOL 4 BUF. LINE PRINTER MOD

AUTHOR: XEROX

ABSTRACT: TO CONVERT SYMBOL TO OUTPUT ON THE 9173 LINE PRINTER INSTEAD OF THE TYPEHRITER.

900-SERIES 920/910 SYMBOL 4 UNBUF. PRINTER MOD

AUTHOR: XEROX

TO CONVERT SYMBOL 4 TO OUTPUT ON THE 9170 LINE PRINTER INSTEAD OF THE TYPEHRITER.

900-SERIES 851611

920/930 SYMBOL 8 BUF. PRINTER VERSION

AUTHOR: XEROX

ABSTRACT:

CONFIGURATION: XDS 920/930 HITH 6K-16K MEMORY, 9173 LINE PRINTER, PAPE TAPE INPUT.

900-SERIES 851612

920/930 SYMBOL 8 UNBUF. PRINTER VERSION

AUTHOR: XEROX

ABSTRACT: CONFIGURATION: XDS 920/930 HITH 6K-16K MEMORY, 9170 LINE PRINTER, PAPER TAPE INPUT.

851613

9-SERIES

1-CARD DUMP PUNCH PROGRAM

AUTHOR: XEROX

ABSTRACT:

TO PUNCH OUT A 1-CARD DUMP FOR A CARD-READER ON ANY CHANNEL AND/OR TO PUNCH OUT THE SAME DUMP PROGRAM ON A PAPER TAPE STATION ATTACHED TO ANY CHANNEL. THE DUMP ITSELF MAY BE PLACED ON A PRINTER ATTACHED TO ANY CHANNEL.

COMPUTER CONFIGURATION: ANY 8-SERIES COMPUTER WITH META-SYMBOL ON THE SYSTEM

851614

9-SERIES

RAD TO MAGNETIC TAPE DUMP

AUTHOR: XEROX

ABSTRACT:

RAD-TO-TAPE DUMP HHICH ALLOHS USER TO SPECIFY RAD CHANNEL AND TAPE CHANNEL AND A RAD SIZE OF EITHER 1/2

HILLION, 1 MILLION OR 2 MILLION CHARACTERS. THE TAPE PRODUCED MAY THEN HAVE ITS CONTENTS PLACED BACK ON THE RAD BY EXECUTING A TAPE FILL PROCEDURE.

852000

9-SERIES

9-SERIES SOFTHARE NOTES COVER

AUTHOR: XEROX CORPORATION

ABSTRACT:
THIS CATALOG NUMBER EXISTS FOR THE SOLE PURPOSE OF IMPLEMENTING THE 9-SERIES TECHNICAL NOTE CONCEPT
HILCH IS DESCRIBED IN THE -11. IT IS EFFECTIVELY A REFERENCE COVER NUMBER FOR ALL 9-SERIES SOFTHARE
(INCLUDING USER'S GROUP ITEMS) BUT HAS NO ORDERABLE ELEMENTS OTHER THAN THE PROGRAM DESCRIPTION (-11).

SUBSCRIPTIONS TO THE TECHNICAL NOTE SYSTEM ARE AVAILABLE BUT MUST BE PROCESSED THROUGH THE USERS' GROUP.

860000

9300 AUTHOR: XEROX

TAPE MONITOR SYSTEM (COVER)

AUTHOR: XEROX
ABSTRACT:

TO PROVIDE EFFICIENT SYSTEM OPERATIONS HITH MINIMUM OPERATOR INTERVENTION AND AN EASY-TO-USE INPUT/
OUTPUT FACILITY HAVING MAXIMUM EFFICIENCY HILE TAKING INTO ACCOUNT THE NEEDS OF THE USER'S PROGRAM (1/0
OPERATIONS ARE PERFORMED SIMULTANEOUSLY HITH THE USER'S PROGRAM). THE RESIDENT MONITOR REQUIRES 11853
OCTAL LOCATIONS WITH THE PROCESSORS BEING OVERLAYED ('PING-PONGED') ABOVE THIS LOCATION.

THIS PROGRAM INCLUDES CATALOG NUMBERS 860001 THRU 860008, 860008 THRU 860031, 861080, AND 861081. COMMENTS:

860035

FORT IV COMPILER AND LIBRARIES

AUTHOR : XEROX

COMMENTS:

THIS PROGRAM INCLUDES CATALOG NUMBERS 860036 THRU 860074 AND COVER NUMBERS 860095 AND 860265.

860075

META-SYMBOL ASSEMBLER-COVER

AUTHOR: XEROX ABSTRACT:

THE PRIMARY PURPOSE OF THE META-SYMBOL ASSEMBLY SYSTEM IS TO PROVIDE USER'S OF XDS COMPUTERS A PROCESSOR CAPABLE OF TRANSLATING SYMBOLIC LINES OF CODE (HRITTEN IN AN ADVANCED ASSEMBLY LANGUAGE) TO MACHINE LANGUAGE AND TO PROVIDE THE USER A LISTING OF THE MACHINE LANGUAGE GENERATED AS HELL AS A LOADABLE PROGRAM TAPE OR DECK.

UNDERTO: ANY XDS 9300 WITH A MINIMUM OF BK MEMORY. SEE MANUAL NO. 900827: META-SYMBOL TECHNICAL MANUAL FOR A MORE DETAILED DESCRIPTION OF THE COMPUTER REQUIREMENTS COMMENTS:

860095

9300

FORTRAN IV LIBRARY

AUTHOR: XEROX

COMMENTS:
THIS IS A PROGRAM PACKAGE CONTAINING ALL THE FORTRAN IV LIBRARY ROUTINES. ABSOLUTE BINARY CARDS ARE
AVAILABLE ON MAG TAPE (860000-85), RELOCATABLE BINARY CARDS AVAILABLE ON MAG TAPE (860000-25).

860265

REAL-TIME FORTRAN IV LIBRARY

AUTHOR: XEROX

COMMENTS:
THIS IS THE COVER NUMBER FOR THE REAL TIME FORTRAN IV LIBRARY. ABSOLUTE BINARY CARDS ARE AVAILABLE ON 860265-85, THE ABSOLUTE BINARY TAPE.

PAGE 22 - 01/31/75

9-SERIES CLASS B3 PROGRAM SUMMARIES

860460

MACHINE LANGUAGE LIBRARY (COVER)

AUTHOR: XEROX COMMENTS:

DMMENTS:
THIS COMMON SOFTHARE PACKAGE CONSISTS OF THE FOLLOHING ROUTINES: CARD READ SUBROUTINE-CDR, I/O HANDLER-CDRP, FLOATING POINT ARCTANGENT-ATF, FLOATING POINT SINE (COSINE)-SNF (CSF), FLOATING POINT COMPLEX, FLOATING POINT COMPLEX SQUARE ROOT -SQFC, FLOATING POINT COMPLEX SAQUARE ROOT -SQFC, FLOATING POINT COMPLEX ARCTANGENT-ATFC, FLOATING COMPLEX SINE AND COSINE-SNFC, FLT.PT. EXTENDED PRECISION SQUARE ROOT, FLT.PT. EXTENDED PRECISION NATURAL LOG, FLT. PT. EXTENDED PRECISION ARCTAN-ATFE, DECIMAL/BINARY CONVERSION, DECIMAL TO BINARY CONVERSION-DTBFX, PAPER TAPE AND TYPEHRITER SUBROUTINE-PTYIO, LINE PRINTER SUBROUTINE (PRINT), FLOATING NEGATE SUBROUTINE-FLN, EXPONENTIAL OF A-EXP, SIN OR COS OF A-SIN COS, ARCTAN OF A-ATN, SQUARE ROOT OF A-SQR, SQUARE ROOT FLOATING POINT-SQF, FLOATING POINT LOGARITHM-LOF, AND FLOATING-HYPERBOLIC SINE AND COSINE-SHF.

860475

9300 MANAGE SYSTEM (COVER)

AUTHOR: XEROX

COMMENTS:

THIS IS THE COVER NUMBER FOR THE XDS 9300 MANAGE SYSTEM. THIS PROGRAM PACKAGE CONTAINS THE FOLLOWING
CATALOG NUMBERS: 860476 THRU 860489. PLEASE SEE THE APPROPRIATE PROGRAM FOR THE COMPUTER CONFIGURATION.

860490

9300 BUSINESS LANGUAGE LIBRARY-COVER

AUTHOR: XEROX

ABSTRACT:

TO PERFORM CHARACTER MANIPULATIONS, HORD MANIPULATIONS, DECIMAL ARITHMETIC, EDITING, AND INTERNAL SORTING FOR THE BUSINESS APPLICATIONS PROGRAMMER.

COMMENTS:

SOURCE LANGUAGE: META-SYMBOL/XDS BUSINESS LANGUAGE SIZE: 1585 HORDS, HITH ALL SUBROUTINES RESIDENT. COMPUTER CONFIGURATION: ANY XDS 900 SERIES COMPUTER, UNDER MONARCH, OR THE 9300, UNDER MONITOR.

860530

9300

9300

MONARCH SYSTEM (COVER)

AUTHOR: XEROX

ABSTRACT:

TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING OPERATOR INTERVENTION.

COMMENTS:

COMPUTER CONFIGURATION: ANY XDS 900 SERIES/ 9300 COMPUTER WITH AT LEAST 8K HORDS OF MEMORY, CONSOLE TYPEHRITER, AND ONE OR MORE MAG TAPES. FOR DETAILS, SEE MONARCH REFERENCE MANUAL. (NO. 900586)

860563

MEDIA

AUTHOR : XEROX

ABSTRACT:

MEDIA WILL COPY VARIABLE LENGTH RECORDS FROM BCD OR BINARY CARDS, PAPER OR MAG TAPE OR TYPEWRITER TO CARDS, PAPER TAPE, MAG TAPES, TYPEHRITER AND/OR LINE PRINTER. COMMENTS:

THIS PROGRAM IS INCLUDED ON 860000, 9300 TAPE MONITOR, 860530, 9300 MONARCH. ITS SOURCE IS IDENTICAL TO THAT FOR 850642. THE ABSOLUTE BINARY (STAND-ALONE) DECK CONTAINS THE REQUIRED I/O ROUTINES.

860592

9300

PROJECT MANAGEMENT SYSTEM (CPM) COVER

AUTHOR: XEROX ABSTRACT:

THIS IS THE COVER NUMBER FOR THE PROJECT MANAGEMENT SYSTEM. WHICH CONSISTS OF THE FOLLOWING PROGRAMS: CATALOG NO.-860593 860594 860595 860596 860597 860598

COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MINIMUM OF 8K HORDS OF CORE STORAGE.2 MAGNETIC TAPES, A TYPE WRITER, PAPER TAPE OR PUNCHED CARD INPUT, AND AN OFF-LINE OR ON-LINE PRINTER. THO 2400 FT. TAPES ARE NEEDED FOR SOURCE MAG TAPE.

860605

9300 PAPER TAPE BASIC RELOCATABLE LOADER

AUTHOR: XEROX

ABSTRACT:

TO LOAD AN ABSOLUTE OR RELOCATABLE PROGRAM FROM PAPER TAPE WHICH IS REPRESENTED IN THE XDS STANDARD BINARY LANGUAGE FORMAT ADDRESS MODIFICATION IS RESTRICTED TO ABSOLUTE OR PROGRAM RELOCATABLE.

SIZE: 68 DECIMAL WORDS CONFIGURATION: ANY XDS 9300 COMPUTER WITH PAPER TAPE READER.

860606

9300

9300

9300 DEBUG

AUTHOR: XEROX

ABSTRACT:

ABSTRACT:
THIS IS A RELOCATABLE ROUTINE WHICH WILL AID THE USER IN FUNCTIONS WHICH MAY BE PERFORMED BY THIS
ROUTINE, IE: 1.MAKE IN-CORE CORRECTIONS OR INSERTIONS. 2.DUMP SELECTED MEMORY AREAS ON THE PRINTER OR
TYPEHRITER. 3.PERFORM SNAPSHOTS AT SELECTED POINTS. 4.ALLOW THE USER TO SEIZE CONTROL AT SELECTED
POINTS. 5.PERFORM MASKED MEMORY SEARCHES.
COMMENTS:

SIZE: 498 DECIMAL HORDS.CONFIGURATION: ANY XDS 9300 COMPUTER.

860607 BASIC UTILITY PACKAGE 9300

AUTHOR: XEROX ABSTRACT:

ABSOLUTE BINARY CARDS 860607-84400 BEOLUTE BINARY CARDS
TO PROVIDE A SIMPLE UTILITY SYSTEM FOR USE ON-LINE WITH THE 9300. THE PACKAGE ALLOWS ABSOLUTE OCTAL OR
DECIMAL ENTRY FROM THE KEYBOARD, PAPER TAPE, OR CARD READER AND MILL PRODUCE MEMORY LISTING ON THE
TYPEWRITER OR OUTPUT(ABSOLUTE) ON EITHER PAPER TAPE OR CARDS, AND TO READ ABSOLUTE OR RELOCATABLE BINARY
TAPES OR DECKS. THE PACKAGE CAN BE USED DURING PROGRAM DEBUGGING FOR SETTING INITIAL CONDITIONS IN THE
REGISTERS FROM ONE OF THE ENTRY MEDIA AND THEN STARTING COMPUTATION FROM A PRESELECTED POINT. THE PACKAGE
HILL ALSO PRODUCE A SNAPSHOT OF THE REGISTERS DURING A PROGRAM RUN USING INTERRUPT 32.COMPUTATION CAN BE
DIMENTS.

RESUMED HITH THE REGISTERS RESTORED OR ALTERED FROM THE POINT OF INTERRUPTION.
SOURCE LANGUAGE: META-SYMBOL SIZE: 840 DECIMAL HORDS CONFIGURATION: ANY XDS 9300 COMPUTER

860608

BINARY DUMP PAPER TAPE OR CARDS

AUTHOR: XEROX

AUTHOR: AEROA
ABSTRACT:
TO DUMP MEMORY IN STANDARD BINARY FORMAT ON PAPER TAPE OR CARDS . WHEN DUMPING ONTO PAPER TAPE, THE
PROGRAM HILL OPTIONALLY DUMP AN ABSOLUTE BINARY BOOTSTRAP.

SOURCE LANGUAGE: SYMBOL SIZE: 251 DECIMAL HORDS CONFIGURATION: ANY XDS COMPUTER HITH PAPER TAPE AND/OR CARD 1/0

UNIVERSAL LOADER 860609

AUTHOR: XEROX

ABSTRACT:

TO LOAD ONE OR MORE PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL AND PRESENTED TO THE LOADER ON EITHER PUNCHED CARDS OR PAPER TAPE. THIS LOADER HAS ESSENTIALLY THE SAME CAPABILITIES AS THE XDS MONARCH LOADER BUT IT FUNCTIONS INDEPENDENTLY OF MONARCH.

COMMENTS: SIZE: 546 DECIMAL HORDS CONFIGURATION: ANY XDS 9300 COMPUTER WITH A CARD READER AND/OR PHOTO READER AND A TYPEHRITER. LOADER EXISTS ON CARDS AND PAPER TAPE AND LOADS PROGRAMS WHICH EXIST EITHER ON CARDS OR PAPER TAPE.

9300 REAL TIME DEBUG 9300 860610

AUTHOR: XEROX

ABSTRACT:

THIS IS A RELOCATABLE UTILITY PROGRAM WHICH WILL AID THE USER IN DEBUGGING UNDER AN INTERRUPT ENVIRONMENT. IT IS PARTICULARLY USEFUL FOR LARGE, COMPLEX SYSTEM PROGRAMS, SUCH AS MONITORS AND OTHER REAL-TIME FUNCTIONS. OPERATIONS WHICH MAY BE PERFORMED BY THIS PROGRAM: DUMPS, ALTERATIONS, INSERTIONS, SNAPSHOTS, SELECTIVE TRACING, PROGRAM LOADING AND PUNCHING.

COMPUTER CONFIGURATION: ANY XDS 9300 COMPUTER WITH TYPEHRITER (A CHANNEL) AND INTERLACE. BUFFERED PRINTER, CARD READER, CARD PUNCH, PAPER TAPE READER AND PUNCH ARE OPTIONALLY REQUIRED FOR CERTAIN DEBUG FUNCTIONS.

UTILITY AND DEBUG PACKAGE (AID) 860611

AUTHOR: XFROX

ABSTRACT:
PROVIDE VARIOUS UTILITY ROUTINES AND DEBUGGING AIDS FOR THE PROGRAMMER'S USE DURING ON-LINE PROGRAM CHECKOUT.

COMMENTS:
SOURCE LANGUAGE: META SYMBOL SIZE: 2606 DECIMAL HORDS COMPUTER CONFIGURATION: ANY XDS 9300 COMPUTER HITH A CONSOLE TYPEHRITER.

RUNGE-KUTTA GILL DIFFERENTIAL EQUATIONS 860612

AUTHOR: XEROX

ABSTRACT: TO SOLVE A SYSTEM OF N SIMULTANEOUS, FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. THE PROCESS 1S SELF-STARTING AND THE STEP SIZE MAY BE CHANGED AFTER ANY COMPLETE STEP.HONEVER, THE METHOD REQUIRES FOUR EVALUATIONS OF THE DERIVATIVES AT EACH STEP.

SIZE: 93 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 COMPUTER.

RUNGE-KUTTA GILL DIFF. EQU. FLOAT.POINT 860613

AUTHOR: XEROX

ABSTRACT:

TO SOLVE A SYSTEM OF N SIMULTANEOUS, FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. THE PROCCESS IS

SELF-STARTING AND THE STEP SIZE MAY BE CHANGED AFTER ANY COMPLETE STEP. HOMEVER, THE METHOD REQUIRES FOUR

EVALUATIONS OF THE DERIVATIVES AT EACH STEP.

SIZE: 103 DECIMAL WORDS COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES

860614 9300 POLYNOMIAL EVALUATION (COMPLEX ARGUMENT) AUTHOR: XEROX ABSTRACT: TO EVALUATE AN NTH ORDER POLYNOMIAL WITH REAL COEFFICIENTS FOR A COMPLEX ARGUMENT, A+BI. COMMENTS: SIZE: 61 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES. 860615 9300 ADAMS-MOULTON DIFFERENTIAL EQUATIONS 9300
AUTHOR: XERCX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS, FIRST ORDER ORDINARY DIFFERENTIAL EQUATIONS. THE PROCESS IS STARTED BY THE RUNGE-KUTTA GILL METHOD; THE STEP SIZE MAY BE CHANGED AFTER ANY STOP. SIZE: 208 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 COMPUTER 860616 9300 FLOATING NEGATE SUBROUTINE - FLN AUTHOR: XEROX ABSTRACT:
TO NEGATE THE FLOATING POINT CONTENTS OF (A.B). COMMENTS:
SIZE: 26 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300. 860617 9300 PROGRAMMED FLOATING POINT PACKAGE-FLPT AUTHOR: XEROX ABSTRACT: TO SIMULATE THE FLOATING-POINT HARDWARE ON AN XDS 9300 WHICH DOES NOT HAVE HARDWARE FLOATING-POINT OR ON WHICH THE HARDWARE FLOATING POINT HAS BEEN DISABLED. SIZE: 150 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300. 860619 EXPONENTAIL OF A - EXP AUTHOR: XEROX TO COMPUTE THE EXPONENTIAL (BASE E) OF A SPECIFIED ARGUMENT. SIZE: 63 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300. 860619 SIN OR COS OF A - SIN COS AUTHOR: XEROX TO COMPUTE THE SINE OR COSINE OF AN ARGUMENT SPECIFIED IN RADIANS. SIZE: 59 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300. 860620 ARCTAN OF A - ATN AUTHOR: XEROX ABSTRACT:
TO COMPUTE ARCTAN Y/X IN RADIANS AND QUADRANTAL-LOCATE THE RESULTS. SIZE: 87 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300. 159098 DOUBLE PRECISION MULTIPLY SUBROUTINE-DPM AUTHOR: XEROX ABSTRACT:
TO PROVIDE THE DOUBLE PRECISION PRODUCT OF THO DOUBLE PRECISION FIXED POINT NUMBERS. SIZE: 29 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300. 860622 9300 SQUARE ROOT OF A - SQR AUTHOR: XEROX ABSTRACT: TO COMPUTE THE SQUARE ROOT OF A SPECIFIED ARGUMENT. COMMENTS: SIZE: 54 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300. 860623 SQUARE ROOT FLOATING POINT - SQF AUTHOR: XEROX

TO EXTRACT THE SQUARE ROOT OF A SPECIFIED FLOATING POINT ARGUMENT. DMHENTS: SIZE: 83 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

DOUBLE PRECISION DIVIDE SUBROUTINE-DPD 9300 860624

AUTHOR: XEROX ABSTRACT:

TO PROVIDE THE DOUBLE PRECISION QUOTIENT OF THO DOUBLE PRECISION FIXED POINT NUMBERS.

COMMENTS:

SIZE: 30 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

FLOATING POINT LOGARITHM - LOF 860625

AUTHOR: XEROX

TO COMPUTE THE FLOATING POINT NATURAL LOGARITHM OF A SPECIFIED FLOATING POINT ARGUMENT. COMMENTS:

SIZE: 60 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

FLOATING-HYPERBOLIC SINE AND COSINE-SHF 860626 9300

AUTHOR: XEROX

ABSTRACT:

TO COMPUTE THE FLOATING-POINT HYPERBOLIC SINE AND COSINE OF A SPECIFIED FLOATING POINT ARGUMENT.

SIZE: 80 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

FLOATING POINT EXPONENTIAL - EXP 860627 9300

AUTHOR: XEROX ABSTRACT:

TO COMPUTE THE FLOATING POINT EXPONENTIAL (BASE E) OF A SPECIFIED FLOATING POINT ARGUMENT.

COMMENTS:

SIZE:69 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

FLOATING POINT SINE (COSINE) - SNF (CSF) 860628

AUTHOR: XEROX

ABSTRACT: TO COMPUTE THE FLOATING POINT SINE (COSINE) OF A SPECIFIED FLOATING POINT ARGUMENT IN RADIANS.

COMMENTS: SIZE:74 DECIMAL HORDS. COMPUTER CONFIGURATION:ANY XDS 9300.

FLOATING POINT ARCTANGENT - ATF 860629 9300

AUTHOR: XEROX

ABSTRACT:
TO COMPUTE THE FLOATNG POINT ARCTANGENT OF THE RATIO OF THO SPECIFIED ARGUMENTS.

SIZE: 105 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

FLOATING POINT, COMPLEX ARITH. PACKAGE 9300 860630

AUTHOR: XEROX

STRACT:
TO PROVIDE THE FOLLOHING FLOATING POINT, COMPLEX ARITHMETIC OPERATIONS: LDFC: (CM) REPLACES (CA) STFC:
(CA) REPLACES (CM) FLAC: (CA)+(CM) REPLACES (CA) FLSC: (CA)+(CM) REPLACES (CA) FLMC: (CA)+(CM) REPLACES
(CA) FLDC: (CA)/(CM) REPLACES (CA) FLNC: (CA) REPLACES (CA) (CA DENOTES THE PSEUDO COMPLEX ACCUMULATOR
HITH REAL PART IN CA, CA+1, IMAGINARY PART IN CA+2,CA+3, CM DENOTES COMPLEX OPERAND HITH REAL PART IN M,
H+1 IMAGINARY PART IN M+2,M+3). ABSTRACT:

COMMENTS: SIZE:129 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

FLOATING POINT COMPLEX EXPONENTIAL-EXFC 860631

AUTHOR: XEROX

ABSTRACT: TO COMPUTE THE FLOATING POINT COMPLEX EXPONENTIAL (BASE E) OF A SPECIFIED FLOATING COMPLEX ARGUMENT.

SIZE:15 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860632 WALL AUTHOR: XEROX ABSTRACT: TO COMPUTE FLOATING POINT COMPLEX LOGARITHM - LNFC 9300

TO COMPUTE THE FLOATING POINT COMPLEX, NATURAL LOGARITHM OF A SPECIFIED FLOATING POINT COMPLEX ARGUMENT.

SIZE:21 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

FLOATING POINT COMPLEX SQUARE ROOT-SQFC 860633

AUTHOR: XEROX

TO COMPUTE THE FLOATING POINT COMPLEX SQUARE ROOT OF A SPECIFIED FLOATING POINT COMPLEX ARGUMENT.

COMMENTS

REPRINT 75.02

SIZE:29 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

PAGE 26 - 01/31/75

860634 FLOATING POINT COMPLEX ARCTANGENT - ATFC

AUTHOR: XEROX

ABSTRACT:
TO COMPUTE THE FLOATING POINT COMPLEX ARCTANGENT OF A SPECIFIED FLOATING POINT COMPLEX ARGUMENT.

SIZE: 46 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

FLOATING COMPLEX SINE AND COSINE - SNEC 860635 9300

AUTHOR: XEROX ABSTRACT:

TO COMPUTE THE FLOATING POINT COMPLEX SINE AND COSINE OF A SPECIFIED FLOATING POINT COMPLEX ARGUMENT. COMMENTS

SIZE:30 DECIMAL HORDS. COMPUTER CONFIGURATION:ANY XDS 9300.

LOGARITHM SUBROUTINE TO BASE E OR 10 860636 9300

AUTHOR: XEROX

ABSTRACT:

TO COMPUTE THE LOGARITHM, TO BASE E OR 10, OF AN ARGUMENT IN THE A REGISTER. COMMENTS:

SIZE: 64 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300

FL. PT. EXTENDED PRECISION SQUARE ROOT 860637 AUTHOR: XEROX

ABSTRACT:

TO COMPUTE THE FLOATING POINT EXTENDED PRECISION SQUARE ROOT OF A SPECIFIED FLOATING POINT EXTENDED

PRECISION ARGUMENT.

SIZE:23 DECEMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

EXTENDED PRECISION ARITHMETIC PACKAGE 860638 9300

AUTHOR: XEROX

ABSTRACT: ASTRACT:

TO PROVIDE THE FOLLOHING FLOATING POINT AND FIXED POINT EXTENDED PRECISION ARITHMETIC OPERATIONS.

FLOATING POINT LDFE: (EM) REPLACES (EA) STFE: (EA) REPLACES (EM) FLAE: (EA)+(EM) REPLACES (EA) FLSE:

(EA)-(EM) REPLACES (EA) FLHE: (EA)*(EM) REPLACES (EA) FLDE: (EA)>(EM) REPLACES (EA) FLME: -(EA) REPLACES

(EA) FIXED POINT TPM: (EA)*(EM) REPLACES (EA) TPA: (EA)+(EM) REPLACES (EA) (EA DENOTES THE PSEUDO

EXTENDED ACCUMULATOR AND EM DENOTES THE EXTENDED OPERAND IN MEMORY).

COMMENTS: SIZE: 481 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300

BINARY TO DECIMAL CONVERSION-BIDFLI 860639 9300

AUTHOR: XEROX

ABSTRACT:

TO CONVERT A FLOATING POINT BINARY NUMBER TO ITS 11-DIGIT BCD EQUIVALENT IN SCIENTIFIC NOTATION, AND STORE IT IN 4 CONSECUTIVE LOCATIONS.

SOURCE LANGUAGE: META-SYMBOL. SIZE: 197 DECIMAL HORDS COMPUTER CONFIGURATION: XDS 9300 HITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.

860640 9300 BINARY TO BCD CONVERTED BTDFX2.BTDFL2

AUTHOR: XEROX

ABSTRACT:

TO CONVERT A FLOATING POINT BINARY NUMBER TO ITS 11-DIGIT BCD EQUIVALENT IN SCIENTIFIC NOTATION, AND STORE IT IN 4 CONSECUTIVE LOCATIONS, OR A FIXED POINT BINARY NUMBER TO ITS 7 DIGIT EQUIVALENT STORED IN 3 CONSECUTIVE LOCATIONS

FOUNCE LANGUAGE: META-SYMBOL. SIZE 222 DECIMAL WORDS. COMPUTER CONFIGURATION: XDS 9300 WITH FLOATING POINT MARDWARE OR EQUIVALENT SUBROUTINES.

ONE CARD OCTAL MEMORY DUMP (PRINTER)

AUTHOR: XEROX

TO DISPLAY THE CONTENTS OF A SELECTED PORTION OF MEMORY

COMPUTER CONFIGURATION: ANY XDS 9300 HITH LINE PRINTER.

860642 FL. PT.EXTENDED PRECISION EXPONENTIAL

AUTHOR: XEROX ABSTRACT:

TO COMPUTE THE FLOATING POINT EXTENDED PRECISION EXPONENTIAL (BASE E) OF A SPECIFIED FLOATING POINT EXTENDED PRECISION ARGUMENT.

SIZE: 121 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

DECIMAL/BINARY CONVERSION ROUTINES 860643 9300

AUTHOR: XEROX ABSTRACT:

TO CONVERT A FLOATING POINT BINARY NUMBER TO 1TS 11-DIGIT BCD EQUIVALENT IN SCIENTIFIC NOTATION, AND STORE IT IN 4 CONSECUTIVE LOCATIONS, OR A FIXED POINT BINARY NUMBER TO ITS 7-DIGIT EQUIVALENT STORED IN 3 CONSECUTIVE LOCATIONS; TO CONVERT AN 11-DIGIT NUMBER IN SCIENTIFIC NOTATION TO ITS FLOATING BINARY FOUTVALENT.

COMMENTS:
SIZE:318 DECIMAL WORDS. COMPUTER CONFIGURATION:XDS 9300 WITH FLOATING POINT HARDHARE OR EQUIVALENT SUBROUTINES.

4 9300 AUTHOR: XEROX

DECIMAL TO BINARY CONVERSION - DTBFX

ABSTRACT:

TO CONVERT A SIGNED BCD NUMBER TO ITS FIXED POINT BINARY EQUIVALENT AT A GIVEN SCALING.

SIZE:80 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

9300 DISPLAY CONVERSION (DISCV)-S SEE 9300 860645

AUTHOR: XEROX

ABSTRACT:
TO CONVERT A FLOATING POINT BINARY NUMBER INTO THE FOLLOWING ONE-WORD FORMAT, WITH SPEED OF CONVERSION THE PRIMARY CONSIDERATION:+OR-XXXXOR-EE

SIZE:323 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

FL. PT. EXTENDED PRECISION NATURAL LOG 860646 9300

AUTHOR: XEROX

ABSTRACT:
TO COMPUTE THE FLOATING POINT EXTENTED PRECISION NATURAL LOGARITHM OF A SPECIFIED FLOATING POINT EXTENDED PRECISION ARGUMENT.

SIZE:147 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

F. P. EXTENDED PRECISION SIN (COS)-SNFE 860647

AUTHOR: XEROX

ABSTRACT:

TO COMPUTE THE FLOATING POINT EXTENDED PRECISION SINE (COSINE) OF A SPECIFIED FLOATING POINT EXTENDED PRECISION ARGUMENT IN RADIANS.

COMMENTS:
SIZE: 163 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

PAPER TAPE AND TYPEHRITER SUBROUTINE 9300 860648

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE A CLOSED SUBROUTINE TO PERFORM I/O FUNCTIONS ON PAPER TAPE AND TYPEHRITER. BOTH INTERLACE AND INTERRUPTS ARE USED.

COMPUTER CONFIGURATION: ANY XDS 9300 HITH A

SOURCE LANGUAGE: META-SYMBOL. SIZE:345 DECIMAL HORDS.

FL. PT. EXTENDED PRECISION ARCTAN - ATFE

TYPEHRITER AND/OR PAPER TAPE UNIT ATTACHED TO AN INTERLACED CHANNEL.

860650 AUTHOR: XEROX

ABSTRACT:

TO COMPUTE THE FLOATING POINT EXTENDED PRECISION ARCTANGENT OF THE RATIO OF THO SPECIFIED FLOATING POINT EXTENDED PRECISION ARGUMENTS.

SIZE:222 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

REAL MATRIX ADDITION-RMADD 860651 9300

AUTHOR: XEROX

ABSTRACT:

TO COMPUTE AND STORE THE SUM OF THO RECTANGULAR MATRICES.

SOURCE LANGUAGE: FORTRAN IV. SIZE: 82 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

REAL MATRIX SUBTRACTION - RMSUB 860652 9300

AUTHOR: XEROX

ABSTRACT: TO COMPUTE AND STORE THE DIFFERENCE OF THO RECTANGULAR MATRICES.

SOURCE LANGUAGE: FORTRAN IV. SIZE: 82 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860653 9300 REAL MATRIX TRANSPOSE-RMTRA

AUTHOR: XERDX ABSTRACT:

TO COPY A RECTANGULAR MATRIX OF REAL ELEMENTS, IN TRANSPOSED FROM, INTO ANOTHER REGION OF MEMORY. THE TRANSPOSED MATRIX MAY NOT OVERLAY THE ORIGINAL MATRIX. COMMENTS:

SOURCE LANGUAGE: FORTRAN IV. SIZE: 69 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860654

REAL MATRIX MULTIPLY-RHMUL

AUTHOR: XEROX ABSTRACT:

TO COMPUTE AND STORE THE PRODUCT OF THO MATRICES OF REAL ELEMENTS.

SOURCE LANGUAGE: FORTRAN IV. SIZE: 108 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860655

AUTHOR: XERCIX ABSTRACT:

REAL MATRIX INVERSION-RMINV

TO COMPUTE THE INVERSE AND DETERMINANT OF ANY SQUARE MATRIX OF REAL ELEMENTS.IF THE MATRIX IS SINGULAR, OR IF IT IS SUFFICIENTLY ILL-CONDITIONED SO AS TO MAKE FURTHER COMPUTATION OF NO VALUE, THE SUBPROGRAM RETURNS HITH A DETERMINANT OF ZERO AND INDICATES THE RANK OF THE MATRIX. COMMENTS:

SOURCE LANGUAGE: FORTRAN IV. SIZE: 673 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860656

9300

COMPLEX MATRIX ADDITION-CHARD

AUTHOR: XEROX

ABSTRACT:

TO COMPUTE AND STORE THE SUM OF THO RECTANGULAR MATRICES. COMMENTS:

SOURCE LANGUAGE: FORTRAN IV. SIZE: 85 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860657 AUTHOR: XEROX COMPLEX MATRIX INVERSION-CHINY

AUTHOR: AEROA
ABSTRACT:
TO COMPUTE THE INVERSE AND DETERMINANT OF ANY SQUARE MATRIX OF COMPLEX ELEMENTS. IF THE MATRIX IS
SINGULAR, OR IF IT IS SUFFICIENTLY ILL-CONDITIONED SO AS TO MAKE FURTHER COMPUTATION OF NO VALUE, THE
SUBPROGRAM RETURN HITH A DETERMINANT OF COMPLEX ZERO AND INDICATES THE RANK OF THE MATRIX.

SOURCE LANGUAGE: FORTRAN IV. SIZE: 794 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860658

COMPLEX MATRIX MULTIPLICATION-CHMUL

AUTHOR: XEROX ABSTRACT:

TO COMPUTE AND STORE THE PRODUCT OF THO MATRICES OF COMPLEX ELEMENTS.

COMMENTS

SOURCE LANGUAGE: FORTRAN IV. SIZE: 118 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860659

9300

COMPLEX MATRIX SUBTRACTION-CHSUB

AUTHOR: XEROX

ABSTRACT:

TO COMPUTE AND STORE THE DIFFERENCE BETHEEN THO RECTANGULAR COMPLEX MATRICES.

COMMENTS

SOURCE LANGUAGE: FORTRAN IV. SIZE: 85 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860660

COMPLEX MATRIX TRANSPOSE-CMTRA

AUTHOR: XEROX

ABSTRACT:
TO COPY A RECTANGULAR MATRIX OF COMPLEX ELEMENTS, IN TRANSPOSED FORM, INTO ANOTHER REGION OF MEMORY. THE TRANSPOSED MATRIX MAY NOT OVERLAY THE ORIGINAL MATRIX. COMMENTS:

SOURCE LANGUAGE:FORTRAN IV, SIZE: 71 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860669

SINE/COSINE SINRX, COSRX, SINDX, COSDX

AUTHOR: XEROX ABSTRACT:

TO COMPUTE THE SINE OR COSINE OF AN ARGUMENT SPECIFIED IN RADIANS (SINRX, COSRX) OR DEGREES (SINDX, COSDX) COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 84 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

9300 EXPONENTIAL (E OR 10) EXPNX, EXPTX 860670 9300

AUTHOR: XEROX

ABSTRACT:
TO COMPUTE THE EXPONENTIAL (BASE E OR 10) OF A SPECIFIED ARGMENT.

SOURCE LANGUAGE: META-SYMBOL. SIZE: 78 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

9300 ARCTANGENT ATNRX, ATNDX 9300 860671

AUTHOR: XEROX ABSTRACT:

TO COMPUTE ARCTAN Y/X IN RADIANS OR DEGREES AND QUADRANTALLOCATE THE RESULT.

SOURCE LANGUAGE: META-SYMBOL. SIZE: 98 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

FLOATING POINT EXPONENTIAL EXFN.EXFT 860672

AUTHOR: XEROX ABSTRACT:

TO COMPUTE THE FLOATING POINT EXPONENTIAL (BASE E OR 10) OF A SPECIFIED FLOATING POINT ARGUMENT.

SOURCE LANGUAGE: META-SYMBOL. SIZE: 76 DECIMAL MORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

F. P. SINE/COSINE-SNFR(CSFR)SNFD(CSFD) 3 9300 Author: Xerox 860673

ABSTRACT:
TO COMPUTE THE FLOATING POINT SINE (COSINE) OF A SPECIFIED FLOATING POINT ARGUMENT IN RADIANS R OR

SOURCE LANGUAGE: META-SYMBOL. SIZE: 88 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

LOGARITHM (BASE E OR 10)-LGFN,LGFT 9300 860674

AUTHOR: XEROX

ABSTRACT: TO COMPUTE THE FLOATING POINT LOGARITHM TO BASE E OR 10 OF A SPECIFIED FLOATING POINT ARGUMENT.

COMMENTS: SOURCE LANGUAGE: META-SYMBOL. SIZE: 71 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

FL. PT. ARCTANGENT-ATFR, ATFD 860675

AUTHOR: XEROX

ABSTRACT:

TO COMPUTE THE FLOATING POINT ARCTANGENT (IN DEGREES OR ADIANS) OF THE RATIO OF THO SPECIFIED ARGUMENTS. COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 117 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

ARCSINE, ARCCOSINE (DEGREES-RADIANS) 860676

AUTHOR: XEROX

ABSTRACT: TO COMPUTE (IN DEGREES (D) OR RADIANS) THE FLOATING POINT SIN-1 AND COS-1 OF A GIVEN ARGUMENT. VALUES HILL BE IN THE FIRST OR FOURTH QUADRANT FOR SIN-1, AND IN THE FIRST OR SECOND QUADRANT FOR COS-1.

COMMENTS: 126 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.

ARCSINE, ARCCOSINE-ASNX, ACSX, ASNDC, ACSDX 860677 9300

AUTHOR: XEROX

AUTHOR: XENDX
ABSTRACT:

TO COMPUTE (IN DEGREES (D) OR RADIANS) THE SIN-! AND COS-! OF A GIVEN ARGUMENT IN THE A REGISTER AT A
BINARY POINT OF 1. VALUES HILL BE IN THE FIRST OR FOURTH QUADRANT FOR SIN-!, AND IN THE FIRST AND SECOND
QUADRANT FOR COS-!, VALUES IN RADIANS HILL BE AT A BINARY POINT OF 2. VALUES IN DEGREES HILL BE AT A COMMENTS

SIZE: 101 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

TANGENT-TAN, TAND 860678

AUTHOR: XEROX

TO COMPUTE THE TANGENT OF A FLOATING POINT NUMBER EXPRESSED IN DEGREES (TAND) OR RADIANS (TAN).

SIZE: 123 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 HITH FLOATING POINT HARDHARE OR EQUIVALENT SUBROUTINES.

9-SERIES CLASS 83 PROGRAM SUMMARIES PROGRAM AVAILABILITY LIST

9300

INTERNAL SORT (SORTAC, SORTOC)

AUTHOR: XEROX

860679

ABSTRACT:
TO SORT AN INTERNAL ARRAY IN EITHER ASCENDING OR DESCENDING ORDER. THE ARRAY MAY BE OF ANY NUMBER OF UNIFORMLY LONG ITEMS HHICH MAY BE ONE OR HORE HORDS, BOTH THE KEY BITS AND THEIR ORDER OF PRECEDENCE MAY

COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 485 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860680 AUTHOR: XEROX TANGENT-TANX.TANDX(DEGREES OR RADIANS)

ABSTRACT:

TO COMPUTE THE TANGENT OF A FIXED POINT NUMBER EXPRESSED IN DEGREES (TANDX) OR RADIANS (TANX).

SIZE: 112 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

9300 860681 AUTHOR: XEROX

HYBRID RUNGE-KUTTA GILL INTEGRATION

ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS, FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. THE PROCESS IS SELF-STARTING AND THE STEP SIZE(S) MAY BE CHANGED AFTER ANY COMPLETE STOP. ONE LEVEL OF RECURSIVENESS IS PROVIDED FOR BY THO ENTRIES AND DOUBLE TEMPORARY STORAGE.

SIZE: 111 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.

860682

LINEAR INTERPOLATION (3 ARGUMENTS) 9300

AUTHOR: XEROX

ABSTRACT:

TO FIND A FUNCTION OF THREE GIVEN ARGUMENTS, X, Y, AND Z, BY SEVEN STRAIGHT-LINE INTERPOLATIONS IN A TABLE
OF X, Y, Z, F(X, Y, Z), HHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION. COMMENTS:

SIZE: 131 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860683

9300

9300

LINEAR INTERPOLATION (2 ARGUMENTS)

AUTHOR: XEROX

TO FIND A FUNCTION OF THO GIVEN ARGUMENTS, X AND Y, BY THREE STRAIGHT-LINE INTERPOLATIONS IN A TABLE OF X,Y,F(X,Y), WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION. COMMENTS:

SIZE: 74 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860684

LINEAR INTERPOLATION (1 ARGUMENT)

AUTHOR: XEROX ABSTRACT:

TO FIND A FUNCTION OF A GIVEN ARGUMENT, X, BY STRAIGHT-LINE INTERPOLATION IN A TABLE OF X,F(X) PAIRS, HHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.

SIZE: 30 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860685

9300

HYBRID ADAMS-MOULTON DIFF. EQUATIONS

AUTHOR: XEROX

ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS, FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. ONE LEVEL OF RECURSION IS PROVIDED FOR BY THO ENTRIES AND DOUBLE TEMPORARY STORAGE.

SIZE: 154 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860686

HYBRID RECTANGULAR INTEGRATION

0059 300 AUTHOR: XEROX

ABSTRACT:

TO SOLVE A SYSTEM OF N SIMULTANEOUS FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. ONE LEVEL OF RECURSION
IS PROVIDED FOR BY THO ENTRIES AND DOUBLE TEMPORARY STORAGE.

SIZE: 32 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDHARE OR EQUIVALENT SUBROUTINES.

860687

9300

HYBRID 2-POINT PREDICTOR

AUTHOR: XEROX ABSTRACT:

TO SOLVE A SYSTEM OF N SIMULTANEOUS FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. ONE LEVEL OF RECURSION IS PROVIDED FOR BY THO ENTRIES AND DOUBLE TEMPORARY STORAGE.

SIZE: 54 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.

860688 HYBRID 4-POINT PREDICTOR

AUTHOR: XEROX

ABSTRACT:

TO SOLVE A SYSTEM OF N SIMULTANEOUS FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. ONE LEVEL OF RECURSION
IS PROVIDED FOR BY THO ENTRIES AND DOUBLE TEMPORARY STORAGE.

COMMENTS:
SIZE: 78 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 HITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.

HYRRID 4-POINT CORRECTOR 9300 860689

AUTHOR: XEROX

ABSTRACT:

TO CALCULATE AN IMPROVED ESTIMATE OF THE SOLUTION OF A SYSTEM OF N SIMULTANEOUS FIRST-ORDER ORDINARY

DIFFERENTIAL EQUATIONS. ONE LEVEL OF RECURSION IS PROVIDED FOR BY THO ENTRIES AND DOUBLE TEMPORARY STORAGE.

COMMENTS:

MODELLE: 78 DECIMAL HORDS, COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT

ADAMS-MOULTON SOLN ORDINARY DIFF. EQUATI. 9300 860690

AUTHOR: XEROX

ABSTRACT:

TO SOLVE A SYSTEM OF N SIMULTANEOUS FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. THE PROCESS IS STARTED BY THE RUNGE-KUTTA GILL METHOD; THE STEP SIZE MAY BE CHANGED AFTER ANY STEP.

MINIONIS: 224 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDHARE OR EQUIVALENT SUBROUTINES.

9300 STAND-ALONE SYSTEM-MAKE ROUTINE 860692 9300

AUTHOR: XEROX

ABSTRACT: SYSTEM MAKE IS A FREE-STANDING, CONTROL CARD ORIENTED ROUTINE FOR MAKING AND CHANGING 9300 MONITOR SYSTEM TAPES.

JAMEN 13: SIZE: 5340 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 HITH TYPEHRITER, BUFFERED PRINTER, CARD READER THO MAG. TAPES (A CHANNEL), INTERLACE, AND 16K MEMORY. READER THO MAG. TAPES (A CHANNEL), INTERLACE, AND 16K MEMORY.

MAG TAPE COPY AND VERIFY PROGRAM 860694 9300

AUTHOR: XEROX

ABSTRACT: TO COPY AND VERIFY MIXED MODE (BINARY AND BCD) MAG TAPES ON A FILE BASIS, UTILIZING THE 9300 MONITOR 1/0

COMMENTS: SOURCE LANGUAGE: META-SYMBOL. SIZE: 764 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A TYPEHRITER, CARD READER AND THO MAG TAPE UNITS.

POLYNOMIAL TELESCOPER 860697 9300

AUTHOR: XEROX

ABSTRACT:
TO REDUCE BY STEPS THE DEGREE OF A GIVEN POLYNOMIAL, CALCULATING NEW COEFFICIENTS AT EACH STEP, UNTIL
THE ACCUMULATED ERROR GENERATED EXCEEDS A GIVEN LIMIT.

COMMENTS: SOURCE LANGUAGE: FORTRAN IV. SIZE: 1232 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

KHIC INDEX PROGRAM FOR SIGMA 860698

AUTHOR: XEROX

ABSTRACT:

GIVEN A SET OF SIGMA PROGRAM LIBRARY CARDS AS INPUT, TO PRODUCE A KHIC (KEY HORD IN CONTEXT) INDEX,

ALPHABETICALLY SORTED, KEYING ON ALL HORDS IN THE TITLE THAT HAVE NOT BEEN SPECIFIED AS .DULL, HORDS.

SOURCE LANGUAGE: FORTRAN IV. SIZE: 25000 DECIMAL HORDS. COMPUTER CONFIGURATION: 32K, 9300 MITH AT LEAST 4 MAG TAPES.

FORTRAN IV ERROR CHECKING DEMO 860700 9300

AUTHOR: XEROX

TO ILLUSTRATE COMPILE-TIME ERROR CHECKING CAPABILITY OF 9300 FORTRAN IV. COMMENTS:

SOURCE LANGUAGE: FORTRAN IV. COMPUTER CONFIGURATION: ANY 9300

9-SERIES CLASS 83 PROGRAM SUMMARIES

860716 9300 BINARY INPUT--PAPER TAPE LOADER

AUTHOR: XEROX ABSTRACT:

TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT FROM AN XDS 9300 ASSEMBLER ONTO BINARY PAPER TAPE.

SIZE: 40 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH PAPER TAPE READER.

860720 9300 AUTHOR: XEROX

BASIC 2 CARD RELOCATABLE LOADER

ABSTRACT:

TO LOAD AN ABSOLUTE OR RELOCATABLE PROGRAM FROM CARDS WHICH IS REPRESENTED IN THE XDS STANDARD BINARY
LANGUAGE FORMAT. EXTERNA REFERENCES AND DEFINITIONS ARE NOT ALLOWED AND ADDRESS MODIFICATION IS

RESTRICTED TO ABSOLUTE OR PROGRAM RELOCATABLE. COMMENTS:

SIZE: 79 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A CARD READER.

860721 9300

BINARY INPUT-1 CARD ABS. LOADER

AUTHOR: XEROX ABSTRACT:

TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT FROM AN XDS 9300 ASSEMBLER ONTO BINARY CARDS.

SIZE: 37 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 HITH A CARD READER.

860722 9300 AUTHOR: XEROX

ONE CARD OCTAL MEMORY DUMP (TYPEHRITER)

ABSTRACT:
TO DISPLAY THE CONTENTS OF A SELECTED PORTION OF MEMORY. COMMENTS:

SIZE: 65 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300

860723

9300 AUTHOR: XEROX

OCTAL INPUT-1 CARD LOADER

ABSTRACT:

TO ENABLE PROGRAM CORRECTION FROM CARDS PUNCHED IN A CONVENIENT OCTAL FORMAT. COMMENTS:

SIZE: 30 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860726

9300

CARD READ SUBROUTINE - COR

AUTHOR: XEROX ABSTRACT:

TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF ACCEPTING INPUT FROM A CARD READER IN EITHER BCD OR BINARY MODE. INTERLACE IS USED AND THE INTERRUPTS ARE ENABLED AND USED.

SOURCE LANUGAGE: META-SYMBOL. SIZE: 151 DECIMAL WORDS. COMPUTER CONFIGURATION; ANY XDS 9300 WITHA A CARD READER ATTACHED TO AN INTERLACED CHANNEL.

860731

9300

I/O HANDLER CORP

AUTHOR: XEROX ABSTRACT:

TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF READING OR PUNCHING CARDS IN EITHER BCD OR BINARY HODE. COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 277 OCTAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 HITH A CARD READER/OR PUNCH.

860732

9300

MAGNETIC TAPE HANDLER (HTAPE)

AUTHOR: XEROX

ABSTRACT:
TO PROVIDE A GENERALIZED ROUTINE TO PERFORM VARIOUS MAGNETIC TAPE OPERATIONS. THE ROUTINE OPERATES IN THE EXTENDED MODE UNDER INTERRUPT CONTROL.

SOURCE LANGUAGE: META-SYMBOL. SIZE: 523 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH MAGNETIC TAPE(S) ON ANY OF THE INTERLACED CHANNELS A-H.

860733

9300

CARD OR HAG. TAPE UNIVERSAL LOADER

AUTHOR: XEROX
ABSTRACT:
TO LOAD ONE OR MORE PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL AND PRESENTED TO THE LOADER ON EITHER PUNCHED CARDS OR MAGNETIC TAPE. THIS LOADER HAS ESSENTIALLY THE SAME CAPABILITIES AS THE XDS HONARCH LOADER BUT IT FUNCTIONS INDEPENDENTLY OF MONARCH.

SOURCE LANGUAGE: SYMBOL. SIZE: 1071 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 COMPUTER WITH A CARD READER AND A TYPEHRITER. LOADER EXISTS ON CARDS AND LOADS PROGRAMS WHICH EXIST EITHER ON CARDS OR MAGNETIC TAPE.

MAG TAPE TRANSFORMATION (TRANSFORM) 860734 9300

AUTHOR: XEROX

ABSTRACT:

TO TRANSFORM A FILE OF BLOCKED RECORDS WHOSE LOGICAL RECORD LENGTH (IN CHARACTERS) IS A NON-MULTIPLE OF FOUR (4) TO A NEW FILE WHOSE LOGICAL RECORD LENGTH IN CHARACTERS IS A MULTIPLE OF FOUR. THE OUTPUT RECORD LENGTH IS SPECIFIED BY THE USER. THE ORIGINAL BLOCKING FACTOR IS RETAINED IN THE OUTPUT FILE.

SOURCE LANGUAGE: META-SYMBOL(META 893H). SIZE:3243 DEC. HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 MINIMUM 16K,3 MAG TAPES.

BINARY MAG TAPE EDITOR 860737 9300

AUTHOR: XEROX

ABSTRACT:
TO COPY AND EDIT A BINARY MAG TAPE.

COMMENTS: SOURCE LANGUAGE: META-SYMBOL. SIZE:687 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 HITH THO MAG

SORT/MERGE (COVER) 9300 860740

AUTHOR: XEROX

ABSTRACT:

SEE CATALOG NUMBERS 860741 AND 860742 FOR ABSTRACTS OF SORT AND MERGE.

SOURCE LANGUAGE: META-SYMBOL. SIZE: 4096-8192 DECIMAL HORDS COMPUTER CONFIGURATION:ANY XDS 9300 COMPUTER HITH A MINIMUM OF 16K FOR FULL CAPACITY VERSION OF SORT WHICH PERMITS FIRST AND/OR LAST PASS ONN-CODE SUBPROGRAMS,OR 8K FOR THE LIMITEDCAPACITY VERSION.THREE TAPE UNITS,ONE CARD READER AND ONE TYPEHRITER.

SORT . 860741 9300

AUTHOR: XEROX

PROVIDES A COMPREHENSIVE SORTING CAPABILITY FOR USERS OF XDS 900 SERIES OR 9300 COMPUTER SYSTEMS HAVING AT LEAST THREE MAG TAPE UNITS OR THO MAGPAK UNITS. ABSTRACT:

COMMENTS: THIS PROGRAM IS PART OF CATALOG NUMBER 860740, SEE THIS CATALOG NUMBER FOR COMPUTER CONFIGURATION.

HERGE 860742 9300 AUTHOR: XEROX 9300

ABSTRACT:

MERGE, BASICALLY IS AN ABRIDGEMENT OF SORT, ALLOWS PREVIOUSLY SEQUENCED RECORDS FROM AS MANAY AS SIX REELS OF MAGNETIC TAPE TO BE MERGED INTO ONE STRING.

THIS PROGRAM IS PART OF CATALOG 860740, SEE THIS CATALOG NUMBER FOR THE COMPUTER CONFIGURATION.

PAYROLL GENERATOR PROGRAM 43 9300 AUTHOR: XEROX 860743

ABSTRACT:

TO COMPUTE PAYROLL EARNINGS, BASED ON DATA CONTAINED IN AN EMPLOYEE MASTER FILE AND A TIME REPORT FILE.

COMMENTS: SOURCE LANGUAGE:XDS BUSINESS LANGUAGE. SIZE: 6500 DECIMAL HORDS COMPUTER CONFIGURATION: ANY XDS 9300 HITH A MINIMUM OF 16K OF STORAGE AND THREE MAGNETIC TAPE UNITS.

HODEL 9372 UNBUFFERED LINE PRINTER SUBR 860749

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF PRINTING LINES OF UP TO 120 CHARACTERS HITH VERTICAL FORMAT CONTROL.

SOURCE LANGUAGE: META-SYMBOL. SIZE: 428 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 HITH A MODEL 9372 LINE PRINTER ATTACHED TO AN INTERLACED CHANNEL.

HONARCH SYS. UPDATE FOR UNBUFFERED PRINT 860750 9300

AUTHOR: XEROX

ABSTRACT:
TO RELEASE AN UPDATE PACKAGE WHICH WILL ADAPT A STANDARD MOS 9300 MONARCH SYSTEM TAPE TO THE UNBUFFERED PRINTER. N/A

SYMBOL 9372 UNBUFFERED PRINT OUTPUT SUBR 9300 860751

AUTHOR: XEROX

ABSTRACT TO OUTPUT ON THE PRINTER ONE LINE OF THE SYMBOL OUTPUT LISTING.

COMMENTS:
SOURCE LANGUAGE:SYMBOL. SIZE: 130 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 HITH A MODEL 9372 UNBUFFERED LINE PRINTER.

860752 9300 LINE PRINTER SUBROUTINE (PRINT)

AUTHOR: XEROX ABSTRACT:

TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF PRINTING LINES OF UP TO 132 CHARACTERS HITH VERTICAL FORMAT CONTROL .

COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 185 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 HITH A BUFFERED LINE PRINT ER ATTACHED TO AN INTERLACED CHANNEL.

860772 9300 CFE-1 AND MAG TAPE COMPATABILITY PROGRAM

AUTHOR: XEROX

ABSTRACT:

TO DEMONSTRATE THE CAPABILITY OF THE CFE-1 TO OPERATE INDEPENDENTLY FROM THE CENTRAL PROCESSING UNIT (XDS 9300) IN ALL OPERATING AND STORAGE MODES.

SOURCE LANGUAGE: META-SYMBOL. SIZE: 236 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH CFE-1 AND MAG TAPE.

860774 9300 PATCH

AUTHOR: XEROX

ABSTRACT:

THIS COMPILER-RUN TIME COMBINATION PROVIDES ON-LINE STATIC AND OFF-LINE DYNAMIC CHECK VALUES FOR VERIFICATION OF HYBRID AND ANALOG COMPUTER SOLUTIONS. THE ON-LINE STATIC CHECK ALSO PROVIDES FOR ANALOG COMPONENT DIAGNOSTICS. COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 2550 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860779 DES-1 8K VERSION

AUTHOR: XEROX ABSTRACT:

TO SOLVE DIFFERENTIAL EQUATIONS. COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. COMPUTER CONFIGURATION: ANY DES-1 9300 COMPUTER.

DES-1 16K VERSION 860780

AUTHOR: XEROX

ABSTRACT:

TO SOLVE DIFFERENTIAL EQUATIONS.

SOURCE LANGUAGE: META-SYMBOL. COMPUTER CONFIGURATION: ANY DES-1 9300 COMPUTER.

860781 DES-1 24K VERSION

AUTHOR: XEROX

ABSTRACT:

TO SOLVE DIFFERENTIAL EQUATIONS.

SOURCE LANGUAGE: META-SYMBOL. COMPUTER CONFIGURATION: ANY DES-1 9300 COMPUTER.

860782 DES-1 32K VERSION

AUTHOR: XEROX

ABSTRACT:

TO SOLVE DIFFERENTIAL EQUATIONS.

SOURCE LANGUAGE: META-SYMBOL. COMPUTER CONFIGURATION: ANY DES-1 9300 COMPUTER.

860784 9700 RTM STAND-ALONE UPDATE

AUTHOR: XEROX

ABSTRACT:

THIS ROUTINE IS USED TO UPDATE 9300 RTM SYSGEN TAPES.

SOURCE: METASYMBOL, CONFIGURATION: 9300 WITH 8K MEMORY (MINIMUM).

860791 9300 DES-1 SYSGEN FOR NAA SYSTEM

AUTHOR: R.E. VOSSLER ABSTRACT:

THIS PROGRAM GENERATES THE DES-1 SYSTEM FILE ON THE RAD FOR THE NORTH AMERICAN AVIATION HYBRID SYSTEM. THE DES-1 SYSTEM CONSISTS OF BINARY CARD DECKS WHICH ARE READ INTO MEMORY AND THEN DUMPED ONTO THE RAD.

THIS PROGRAM REQUIRES THE FOLLOHING CONFIGURATION: 24K 9300 XDS COMPUTER 1/2 MILLION CHARACTER RAD CARD READER THE DES-1 ALSO REQUIRES THE FOLLOHING: MAG TAPE LINE PRINTER TELETYPE DES-1 CONSOLE

9-SERIES CLASS B3 PROGRAM SUMMARIES

PROGRAM AVAILABILITY LIST

860796

NASA EDWARDS HYBRID EXECUTION LIBRARY

AUTHOR: XEROX

ABSTRACT:

THE NASA EDHARDS HYBRID EXECUTIVE LIBRARY CONSISTS OF A NUMBER OF FORTRAN IV REENTRANT SUBROUTINES WHICH PROVIDE USER CONTROL OF THE HYBRID SYSTEM HARDWARE.

DMENTS:
THE EXECUTIVE LIBRARY SUBROUTINES MAY BE CALLED BY FORTRAN IV PROGRAMS OR VIA COMMANDS INPUT THROUGH THE
TYPEWRITER HHICH ARE EXERCISED BY THE MANUAL EXECUTIVE PROGRAM. THE HYBRID EXECUTIVE LIBRARY CONSISTS OF
ALL HYBRID HARDHARE INTERFACE ROUTINES, THE SOFTHARE INTERFACE TO THE MONITOR AND THE INTERRUPTS,
INTERVAL TIMER CONTROL, ANALOG-DIGITAL CONVERTERS, SENSE LINES, LOGIC LEVEL OUTPUT LINES, ANALOG MODE
CONTROL, ANALOG POTENTIOMETER SETTING, ANALOG VALUE SCANNING, AND ADIOS CONTROL. A FULL SET OF OPERATOR
AND HARDHARE ERROR DIAGNOSTICS ARE PROVIDED AT RUN TIME.

860798

9300

NORTH AMERICAN AVIATION HYBRID EXECUTIVE

AUTHOR: XEROX

ABSTRACT:

THE HYBRID EXECUTIVE CONSISTS OF A NUMBER OF SUBROUTINES WHICH PROVIDE THE FORTRAN USER CONTROL OF THE HYBRID SYSTEM HARDHARE.

THE ROUTINES MAY BE CALLED FROM A REAL-TIME FORTRAN IV PROGRAM OR MADE TO RESPOND TO MANUAL COMMAND. THE ROUTINES ARE WRITTEN FOR A 9300 COMPUTER WITH SPECIAL HYBRID INTERFACE FOR NAA.

860799

NAA DES-1 HYBRID CALL LIBRARY

AUTHOR: XEROX

ABSTRACT:
THE DES-1 HYBRID CALL LIBRARY CONSISTS OF A NUMBER OF SUBROUTIN ES HHICH PROVIDE THE DES-1 USER CONTROL OF THE HYBRID SYSTEM HARDWARE. COMMENTS:

THE ROUTINES MAY BE CALLED FROM A DES-1 PROGRAM. THE ROUTINES ARE HRITTEN FOR A 9300 COMPUTER HITH DES-1 AND SPECIAL HYBRID INTERFACE HARDHARE FOR NAA.

860803

9300

SYMBOL BOOTSTRAP

AUTHOR: XEROX

ABSTRACT:

LOAD SYMBOL LOADER FROM SYSTEM TAPE.

861000

9300

REAL-TIME MONITOR

AUTHOR: XEROX ABSTRACT:

THE REAL TIME MONITOR IS A COMPREHENSIVE SYSTEM FOR MONITORING AND CONTROLLING ASSEMBLIES, COMPILATIONS AND OTHER PROGRAM OPERATIONS IN A REENTRANT, ONLINE REAL-TIME MODE.

861078

9300

USNPGS HYBRID EXECUTIVE LIBRARY

AUTHOR: XEROX ABSTRACT:

THE HYBRID EXECUTIVE LIBRARY CONSISTS OF A LARGE NUMBER OF SUBROUTINES WHICH PROVIDE USER CONTROL OF HYBRID SYSTEM HARDWARE. THE EXECUTIVE FUNCTIONS MAY BE CALLED BY A REAL-TIME FORTRAN IV PROGRAM OR MADE TO RESPOND TO MANUAL COMMANDS. INCLUDED IN THE LIBRARY ARE FACILITIES FOR INTERRUPT CONTROL, LOGIC LINES OUTPUT, SENSE LINE TESTING, ANALOG POT SETTING, ANALOG VALUE SCANNING, ANALOG TO DIGITAL AND DIGITAL TO ANALOG CONVERTER CONTROL, AND HYBRID SYSTEM MODE CONTROL.

COMMENTS:

THE HYBRID EXECUTIVE LIBRARY IS DESIGNED TO OPERATE UNDER THE XDS 9300 REAL-TIME MONITOR SYSTEM. THE SUBROUTINES IN THE HYBRID EXECUTIVE LIBRARY ARE REENTRANT AND CODED IN XDS 9300 META-SYMBOL. THE USMPGS HYBRID SYSTEM INCLUDES AN XDS 9300 COMPUTER INTERFACED WITH A C15000 ANALOG COMPUTER

861079

USNPGS DISPLAY EXECUTIVE LIBRARY

AUTHOR: XEROX ABSTRACT:

THE USNPGS DISPLAY EXECUTIVE LIBRARY CONSISTS OF A SET OF SUBROUTINES AND INTERRUPT PROCESSORS HHICH PROVIDE USER CONTROL OF ALL DISPLAY FUNCTIONS.

IMMENTS:
THE DISPLAY EXECUTIVE LIBRARY, CODED IN META-SYMBOL, IS CALLABLE FROM META-SYMBOL AS MELL AS FORTRAN IV.
THE DISPLAY EXECUTIVE OPERATES UNDER THE 9300 RTM SYSTEM AND REQUIRES THE REAL-TIME FORTRAN IV LIBRARY.
FUNCTIONS PROVIDED BY THE DISPLAY EXECUTIVE INCLUDE: INITIATION OF OUTPUT SEQUENCE. CHARACTER AND VECTOR
GENERATION. EDITING FUNCTIONS. DISPLAY BUFFER MANAGEMENT. CHARACTER AND VECTOR RASTER GENERATION.
PROGRAM AS MELL AS OPERATOR CONTROL OF DISPLAY FUNCTIONS. A VARIETY OF INPUT SOURCES FOR DISPLAY DATA.
THE ABILITY TO PERFORM THESE FUNCTIONS ON EITHER OF THO DISPLAY

861082

RAD TO MAGNETIC TAPE DUMP

AUTHOR: XEROX

ABSTRACT:

RAD-TO-TAPE DUMP WHICH ALLOHS USER TO SPECIFY RAD CHANNEL AND TAPE CHANNEL AND A RAD SIZE OF EITHER 1/2.
MILLION, 1 MILLION, OR 2 MILLION CHARACTERS. THE TAPE PRODUCED MAY THEN HAVE ITS CONTENTS PLACED BACK ON
THE RAD BY EXECUTING A TAPE FILL PROCEDURE.

861083 9300 AUTHOR: XEROX

SYMBOL ASSEMBLER (COVER)

ABSTRACT:

ASTRACT:
THIS IS THE COVER NUMBER FOR THE SYMBOL ASSEMBLER UNDER 9300 MONARCH SYSTEM, CAT. NO. 880530. ROUTINES
UNDER THIS COVER INCLUDE: 860547-SYMBOL LOADER, 860548-SYMBOL PSI, 860549-SYMBOL CSI, 860550-SYMBOL MSI,
860551-SYMBOL PBO, 860552-SYMBOL CBO, 860553-SYMBOL MBO, 860554-SYMBOL TLO, 860555-SYMBOL LLO, 860556SYMBOL MLO, 860557-SYMBOL SI, 860558-SYMBOL S2, 860559-SYMBOL S3, 860560-SYMBOL M910, 860561-SYMBOL
M920, 860562-SYMBOL M9300.

861084 9300 AUTHOR: XEROX

9300

USNPGS DISPLAY SUBSYSTEM

ABSTRACT:

THESE PROGRAMS ALLOH OPERATION OF THO AGT/10 GRAPHIC DISPLAY SUBSYSTEMS IN CONJUNCTION HITH AN XDS 9300. THEY ALLOH THE AGT/10S TO READ TAPES FROM THE 9300 TAPE DRIVES. THEY ALSO ALLOH THE USER TO OUTPUT CONTROL INFORMATION AND TO INPUT AND OUTPUT TEXTAND GRAPHIC BLOCKS TO THE AGT/10S. COMMENTS:

HARDWARE REQUIRMENTS: AN XDS 9300-ADAGE AGT110 COMPUTER SYSTEM. THO TAPE DRIVES AND VERSION BO! OF THE 9300 REAL-TIME MONITOR ARE REQUIRED

861085

9300

FORTRAN IV LIBRARY SRDDISC. SHRDISC

AUTHOR: XERDX

ABSTRACT:

THESE ROUTINES IMPLEMENT THE READ DISK, HRITE DISK STATEMENTS OF FORTRAN IV FOR THE REAL TIME MONITOR. (SEE FORTRAN IV REF MANUAL PAGE 69).

A BINARY UPDATE PACKAGE (CAT. NO. 861000-64C01) IS AVAILABLE TO UPDATE THE REAL-TIME MONITOR SYSGEN TAPE (CAT. NO. 861000-85C00). IT CONTAINS, IN ADDITION TO 9RDDISC. VERSIONS OF R'RECUR, 9MRDATA, 90ETBUFF, AND M'DOID THAT HAVE BEEN UPDATED TO ACCOMODATE 9RDDISC. NOTE ALSO THAT THE SPELLING OF THE HORD DISK IN THE FORTRAN REF. MANUAL (901107) IS NOT CORRECT. THE CORRECT SPELLING IS D I S K , FOR EXAMPLE, READ DISK.

870009

940 TIME-SHARING SYSTEM DISC DUMP

AUTHOR: XEROX

AUTHOR: XENUX
ABSTRACT:
THE DUMP HAS ALL THE CURRENT MONITOR, EXECUTIVE, UTILITIES PROGRAMS, AND SUBSYSTEMS FILES IN BINARY AND
SYMBOLIC. ALSO THERE ARE DESCRIPTIVE FILES ON: 1. MODIFYING 2. PERIPHERALS 3. SYSTEM MAKE 4. NEW
FEATURES 5. DISC FILES 6. RELEASE

AVAILABLE ON THO TAPE REELS. NOTE: AN ADDITIONAL MINI-REEL IS REQUIRED FOR THE DISC DUMP/LOAD-2.0 AND DISC SHAP-2.0

870010

940 HRITE SUBSYSTEMS ON RAD (HSD)

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM TRANSFERS THE SUBSYSTEMS FROM DISC FILES TO THE RAD.

COMMENTS:

INCLUDED WITH THE SYMBOLIC FILE IS A DETAILED DESCRIPTION FOR GENERATING THIS PROGRAM.

870011

940 OPERATOR'S EXECUTIVE

AUTHOR: XERCX

STRACT:
THE OPERATOR'S EXECUTIVE IS COMPOSED OF THO PARTS: (1) A CONSTANTS AND PART ONE,(2)COMMANDS AND PART THO
THIS PROGRAM IS USED TO VALIDATE ACCOUNTS, PASSHORDS, USER NUMBERS, LEGAL LOG-IN TIMES, BROADCAST
LETTERS, COPY ACCOUNTING DATA TO A FILE, AND COMMANDS THAT ONLY THE OPERATOR CAN ACCESS. THE COMMAND
'HELP' HILL LIST THE ENTIRE AVAILABLE COMMANDS. COMMENTS:

OMMENTS:
THIS PACKAGE CONTAINS ALL SYMBOLIC AND BINARY FILES NECESSAR Y FOR THE GENERATION OF OPERATOR'S
EXECUTIVE. INCLUDED IS A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE. NOTE: THIS PROGRAM IS
REQUIRED AS PART OF THE OPERATING SYSTEM. CHANGES IN OPERATION OF THE MONITOR AND EXECUTIVE CAN CAUSE
THIS PROGRAM TO FAIL.

870012

940 MAP DISC

AUTHOR: XEROX ABSTRACT:

ASSTRACT:

MAP DISC IS RESPONSIBLE FOR CLEARING THE RESIDENT BIT MAP FOR ALL DATA BLOCKS WHICH EXIST ON THE DISC

AND ARE IN THE MAPPED AREA. THIS AREA IS ONLY ONE FOURTH OF THE DISC. THE PROGRAM READS FILE INDEX

BLOCKS AND CHECKS FOR POINTERS INTO THE MAPPED AREA. IF ONE IS FOUND, THE PROGRAM HILL REQUEST THE

MONITOR TO CLEAR ONE BIT IN THE BIT MAP. CONFLICTS ARE PRINTED AND THE FINAL PHASE WILL DELETE A FILE INDEX BLOCK.

COMMENTS:

INTERNIS: A DETAILED GENERATION PROCEDURE IS INCLUDED WITH THE BINARY AND SYMBOLIC FILES. THERE ARE THREE SYMBOLIC Files and five binary files in this package

DISC SHAP 870013

AUTHOR: XEROX

THIS PROGRAM HILL COPY THE MONITOR INTO MEMORY. USE OF BREAKPOINTS 2-4 DETERMINE HHAT DISC HILL BE USED TO COPY FROM. BREAKPOINT 1 IS NOW USED TO SELECT EITHER 84K OR 48K AS THE MEMORY SIZE. ABSTRACT:

COMMENTS: A UTILITY TAPE IS THE COPY WHICH WILL BE SENT ON REQUEST. NOTE: DISC DUMP/LOAD IS INCLUDED AS PART OF THE UTILITY TAPE.

940 DISC DUMP/LOAD 870014

AUTHOR: XEROX

THIS PROGRAM WILL EITHER COPY DATA FROM THE DISC TO MAGNETIC TAPE OR COPY DATA FROM MAGNETIC TAPE TO DISC. THIS PROGRAM IS DELIVERED ON A UTILITY TAPE REEL IN A STANDARD FILL FORM. NOTE: ALSO INCLUDED 18 DSHAP (DISC DUMP/LOAD) ABSTRACT:

COMMENTS: A DETAILED GENERATION DESCRIPTION FILE IS INCLUDED WITH THE BINARY AND SYMBOLIC FILES.

940 TIME-SHARING SYSTEM EXECUTIVE 870016

AUTHOR: XEROX

THE EXECUTIVE IS THE INTERFACE BETHEEN THE 940 TIME-SHARING SYSTEM MONITOR AND THE 940 TERMINAL USER.
THE EXECUTIVE IS RESPONSIBLE FOR USER IDENTIFICATION, MAINTENANCE OF USER FILE DIRECTORIES, SUPERVISION
OF THE USE OF THE SYSTEM VIA LIMITING ACCESS TO COMMANDS WHICH REQUIRE SPECIAL STATUS. THE EXECUTIVE
CONSISTS OF SIX PACKAGES WHICH, WHEN PROPERLY ASSEMBLED AND LOADED PERFORM ALL OF THE EXECUTIVE
FUNCTIONS OF THE 940 TIME-SHARING SYSTEM ABSTRACT:

THE EXECUTIVE AND THE MONITOR OF THE 940 TIME-SHARING SYSTEM INTERACT IN SUCH A MANNER THAT CHANGES IN ONE MAY REQUIRE CHANGES IN THE OTHER AND OFTEN REQUIRE AT LEAST THAT BOTH THE MONITOR AND EXECUTIVE COMMENTS: SHALL BE REGENERATED.

940 TIME SHARING SYSTEM MONITOR 870017

AUTHOR: XEROX

THE MONITOR IS THE SUPERVISOR OF THE USE OF ALL SYSTEM RESOURCES. IT IS RESPONSIBLE FOR SCHEDULING THE USE OF THE CPU, MEMORY MANAGEMENT, I/O DEVICE MANAGEMENT, ALL INTERRUPT PROCESSING, TELETYPE I/O SUPERVISION AND A VARIETY OF USER SERVICES. THE MONITOR CONSISTS OF FOURTEEN PACKAGES HHICH HHEN PROPERLY ASSEMBLED AND LOADED PERFORM ALL OF THE MONITOR FUNCTIONS OF THE 940 TIME-SHARING SYSTEM. ABSTRACT:

THE MONITOR AND EXECUTIVE OF THE 940 TIME-SHARING SYSTEM INTERACT IN SUCH A MANNER THAT CHANGES IN ONE MAY REQUIRE CHANGES IN THE OTHER AND OFTEN REQUIRE AT LEAST THAT BOTH THE MONITOR AND EXECUTIVE SHALL BE REGENERATED.

948 TAP 870018

AUTHOR: XEROX

AUTHOR: AEROX
ABSTRACT:
940 TAP 1S A THO PASS TEXT-ORIENTED MACRO ASSEMBLER FEATURING A HIDE RANGE OF CONDITIONAL AND ITERATIVE
CAPABILITIES, TOGETHER HITH EXTERNAL LABEL AND OPERATION DEFINITIONS. PARAMETRIC PROGRAMMING CAPACITY 18
FURTHER ENHANCED BY NO RESTRICTIONS BEING PLACED UPON THE RECURSIVE INVOCATION AND DEFINITION OF MACROS.
THO FORMS OF OBJECT CODE ARE AVAILABLE: (1) FULLY RELOCATABLE, COMPLETE HITH SYMBOL TABLE FOR INPUT TO
DDT; (2) ABSOLUTE SELF-FILLING BINARY.

THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 TAP, INCLUDING A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /TAP-N.0/.

940 QED 870019

AUTHOR: XEROX

ABSTRACT: 940 QED IS A SOPHISTICATED TEXT EDITOR WHICH ALLOWS ANY SYMBOLIC FILE IN THE 940 SYSTEM TO BE QUICKLY EDITED.

THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 QED, INCLUDING A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /QED-N.O/.

940 FORTRAN II COMPILER 870020

AUTHOR: XEROX

AUTHOR: XEROX
ABSTRACT:
940 FORTRAN II IS COMPOSED OF THREE PARTS:(1) A COMPILER, WHICH TRANSLATES PROGRAMS WRITTEN IN AN
EXTENDED FORTRAN II SYNTAX INCORPORATING MANY FORTRAN IV FEATURES, SUCH AS N-DIMENSIONAL ARRAYS,
GENERALIZED SUBSCRIPT FORMATION, AND MIXED-MODE EXPRESSIONS: (2) A RUN-TIME SYSTEM, CONSISTING OF
RESIDENT PROGRAMMED OPERATORS AND SERVICE ROUTINES, TOGETHER WITH AN OPTIONALLY LOADED DEBUG AID; (3) A
LIBRARY WHOSE ENTRIES ARE CONDITIONALLY LOADED DEPENDING ON THE NEEDS OF THE USER PROGRAM. THE
PROCESSOR RUNS ONLY UNDER TSS-2.0 MONITOR.

THE GENERATION PROCEDURE IS GIVEN IN THE SYMBOLIC FILE /FII-N.O/.

870021 940 DDT AUTHOR: XEROX

AUTHOR: XEROX
ABSTRACT:
940 DDT IS A HIGHLY INTERACTIVE DEBUGGING TOOL, COUPLED HITH A SOPHISTICATED LOADER, HAVING THE
FOLLOHING FEATURES: (1) BREAKPOINTING HHICH ALLOHS THE USER TO INSPECT THE CONDITION OF HIS PROGRAM AT
STRATEGIC FOINTS AND INTERVALS; (2) BLOCK STRUCTURE MANIPULATION OF SETS OF SYMBOLS BELONGING TO
LOGICALLY SEPARATE PROGRAMS; (3) LIMITED ASSEMBLY AND, OPTIONALLY, IMMEDIATE EXECUTION OF INDIVIDUAL
INSTRUCTIONS; (4) ASSEMBLY, INSERTION, AND DELETION OF INSTRUCTIONS OR DATA; (5) A VARIETY OF SERVICE
FUNCTIONS SUCH AS HORD SEARCHES, RELABELING ALTERATION, CONDITIONAL SAVE AND LOAD OF SYMBOL TABLES, ETC.

THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 DDT, INCLUDING A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /DDT-N.0/.

870022 940 CONVERSATIONAL FORTRAN

AUTHOR: XEROX ABSTRACT:

SSTRACT:
940 CONVERSATIONAL FORTRAN IS COMPOSED OF THREE PARTS: (1) AN INCREMENTAL COMPILER, WHICH ALLOWS THE
STATEMENT-BY-STATEMENT PREPARATION OF PROGRAMS WRITTEN IN A LANGUAGE CLOSELY RESEMBLING FORTRAN IV; (2)
A RUN-TIME SYSTEM, WHICH INTERPRETIVELY EXECUTES THE CODE GENERATED BY THE COMPILER: (3) A COMMAND
PROCESSOR, WHICH PERMITS INTERACTIVE CONTROL OF THE COMPILER AND RUN-TIME SYSTEM, PROVIDING EDIT, DEBUG,
AND DIRECT STATEMENT EXECUTION FACILITIES. COMMENTS:

THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 CONVERSATIONAL FORTRAN, INCLUDING A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /FOR-N.D/.

870023 940 CAL 940 AUTHOR: XEROX

ABSTRACT:

ASTRACT:
XDS CAL IS COMPOSED OF THO PARTS: (1) AN INCREMENTAL COMPILER AND EDITOR, WHICH ALLOWS THE STATEMENT BY
STATEMENT PREPARATION OF PROGRAMS WRITTEN IN AN ALGEBRAIC LANGUAGE CLOSELY RESEMBLING JOSS; (2) A
RUN-TIME SYSTEM, WHICH INTEPRETIVELY EXECUTES THE CODE GENERATED BY THE COMPILER, AND IN ADDITION
PERMITS THE IMMEDIATE COMPILATION AND EXECUTION OF STATEMENTS WHICH DO NOT BECOME PART OF THE RESIDENT PROGRAM. COMMENTS:

THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 CAL, INCLUDING A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /CAL-N.0/.

870024 940 BASIC

AUTHOR: XEROX

AUTHOR: XERUX
ABSTRACT:

940 BASIC 15 COMPOSED OF THO PARTS: (1) A COMPILER, WHICH TRANSLATES PROGRAMS WRITTEN IN A SIMPLE
ALGEBRAIC LANGUAGE ON A STATEMENT-BY-STATEMENT BASIS; (2) A RUN-TIME SYSTEM, WHICH CONTROLS EXECUTION OF
THE CODE GENERATED BY THE COMPILER, AND IN ADDITION PERMITS THE IMMEDIATE COMPILATION AND EXECUTION OF
STATEMENTS WHICH DO NOT BECOME PART OF THE RESIDENT PROGRAM.

THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 BASIC, INCLUDING A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /BAS-N.O/.

870025 940 TSS MONITOR.EXEC. AND PROCESSORS (CO.

AUTHOR: XEROX

ABSTRACT:

SSTRACT: THIS IS A COVER NUMBER FOR ALL THE XDS 940 PROCESSORS, INCLUDING THE MONITOR AND EXECUTIVE. IT INCLU THE FOLLOWING PROCESSORS AND UTILITIES: QED-870019, DDT-870021, TAP-870018, BASIC-870024, CAL-870023, FORTRAN II-870020, LIB-870027, FORTRAN II R/T-870028, CONVERS. FORTRAN-870022, WRITE SUBSYSTEMS-RAD-870010, OPERATORS EXECUTIVE-870011, MAP DISC-870012, EXECUTIVE-870016, MONITOR-870017. IT INCLUDES

870026 940 940 TSS USERS UTILITY PROGRAMS

AUTHOR: L. D. HCDANIEL - XDS

ABSTRACT:

SIXTY-ONE ROUTINES IN THE 940 FILES FORMAT. FILES ARE RETRIEVED USING MAGTAPE HANDLER. THE FOURTH FILE IS THE INDEX TO UTILITY PROGRAMS

THE PROGRAMS ARE USED TO SOLVE RELATED PROBLEMS IN BUSINESS, SCIENCE, AND MATH. ADDITIONAL PROGRAMS DEMONSTRATE 940 SUB-SYSTEMS.

870027 FORTRAN II LIBRARY FOR THE XDS 940

AUTHOR: XEROX ABSTRACT:

THIS IS A PART OF SDS940 FORTRAN II SYSTEM. IT CONSISTS OF LIBRARY ROUTINES WHICH ARE CONDITIONALLY LOADED DEPENDING UPON THE NEEDS OF THE USER PROGRAMS.

870028 FORTRAN II RUNTIME SYSTEM AUTHOR: XEROX

AUTHOR: XENUX
ABSTRACT:
THIS IS A PART OF FORTRAN II 940 SYSTEM. IT CONSISTS OF RESIDENT PROGRAMMED OPERATORS AND SERVICE
ROUTINES, TOGETHER HITH AN OPTIONALLY LOADED DEBUG AID.

ARCSIN AND ARCCOS FUNCTIONS 9-SERIES 890158

AUTHOR: SAM H. HARLIN - XDS

ABSTRACT:

THIS FORTRAN II SUBROUTINE COMPUTES THE ARC SINE AND ARC COSINE OF A VALUE AND RETURNS THE ANGLE IN RADIANS. COMMENTS:

PREVIOUSLY XDS USERS GROUP LIBRARY NO. 890180. PROGRAM REQUIRES 234 DECIMAL MEMORY LOCATIONS. REQUIRES

THE XDS FORTRAN II SYSTEM.

890159 9-SERIES AUTHOR: SAM H. HARLIN

ABSTRACT:

THIS FORTRAN II SUBROUTINE CALCULATES THE FACTORIAL OF A FIXED POINT VALUE.

FACTORIAL ROUTINE

PREVIOUSLY XDS USERS GROUP LIBRARY NO. 00800002. PROGRAM REQUIRES 39 DECIMAL MEMORY LOCATIONS AND THE

FORTRAN II SYSTEM.

9-SERIES HYPERBOLIC SINE, COSINE AND TANGENT 890160

AUTHOR: SAM H. HARLIN - XDS

ABSTRACT:

FORTRAN II ROUTINE TO CALCULATE HYPERBOLIC SINE, COSINE AND TANGENT.

COMMENTS: DIMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY NUMBER 00820001. PROGRAM REQUIRES 38 DECIMAL LOCATIONS FOR HSIN AND
HCOS AND 40 DECIMAL LOCATIONS FOR HTAN. TOTAL OF 118 DECIMAL LOCATIONS AND FORTRAN 11 SYSTEM REQUIRED.

9-SERIES POLYNOMIAL ADDITION OR SUBTRACTION 890161

AUTHOR: D. C. BAXTER

ABSTRACT:

ADDS OR SUBTRACTS THO POLYNOMIALS. ONE POLYNOMIAL MAY BE MULTIPLIED BY A SCALAR DURING THE PROCESS.

9-SERIES POLYNOMIAL PRODUCT AUTHOR:D. C. BAXTER - NATIONAL RESEARCH COUNCIL 890162

ABSTRACT:

A FORTRAN II SUBROUTINE TO FORM THE PRODUCT OF THO POLYNOMIALS WHOSE COEFFICIENTS ARE AVAILABLE AS LINEAR ARRAYS.

PREVIOUSLY XDS USERS GROUP LIBRARY NUMBER DDCDDDDD2. PROGRAM REQUIRES 100 DECIMAL LOCATIONS OF STORAGE.

RUNS UNDER THE FORTRAN II SYSTEM.

POLYNOMIAL DIVISION, POLYDIV 890163 9-SERIES

AUTHOR: BAXTER

ABSTRACT:

CALCULATES THE QUOTIENT AND REMAINDER FORMED ON DIVIDING THO POLYNOMIALS.

COMMENTS: PREVIOUSLY XDS USERS GROUP LIBRARY NO. 00C00003.

LINEAR POLYNOMIAL SUBSTITUTION. POLYSUBS 9-SERIES 890164

AUTHOR: D. C. BAXTER

ABSTRACT: COMPUTES THE RATIONAL POLYNOMIAL IN Z WHICH RESULTS FROM SUBSTITUTING ANOTHER RATIONAL POLYNOMIAL FOR THE VARIABLE S IN A POLYNOMIAL F(S).

9-SERIES RATIONAL POLYNOMIAL SUBSTITUTION 890165

AUTHOR: D. C. BAXTER

ABSTRACT: DETITABLE COMPUTES THE RATIONAL POLYNOMIAL IN Z. XN(Z)/XD(Z), WHICH RESULTS FROM SUBSTITUTING ANOTHER RATIONAL POLYNOMIAL FOR THE VARIABLE S IN A RATIONAL POLYNOMIAL FUNCTION OF S, P(S)/Q(S).

SERIES EXPANSION OF RATIONAL POLYNOMIAL 9-SERIES 890166

AUTHOR: R. GAGNE, D. C. BAXTER

ABSTRACT: EXPANDS A RATIONAL POLYNOMIAL INTO A TAYLOR SERIES.

CLIMBI A HILL-CLIMBING SUBROUTINE 9-SERIES

AUTHOR: C. M. HOODSIDE

ABSTRACT

A FORTRAN II SUBROUTINE SUBPROGRAM TO FIND THE SET OF ARGUMENTS WHICH MAXIMIZES OR MINIMIZES A FUNCTION, SUBJECT TO CONSTRAINTS ON THE ARGUMENTS OR ON OTHER FUNCTIONS OF THEM.

COMMENTS: PREVIOUSLY XDS USERS GROUP LIBRARY NUMBER 00C00007. PROGRAM REQUIRES 2134 DECIMAL LOCATIONS OF MEMORY AND THE FORTRAN II SYSTEM.

PATTERN OPTIMIZER 890168 9-SERIES

AUTHOR: PAUL G. FRIEDMAN ABSTRACT:

A FORTRAN 11 PROGRAM TO MINIMIZE A FUNCTION OF UP TO 5 VARIABLES.

PREVIOUSLY XDS USERS GROUP LIBRARY NUMBER 00C00008. PROGRAM REQUIRES 276 HORDS OF MEMORY. REQUIRES A SUBROUTINE LABELED EVAL, CODING INDICATED IN THE HRITE-UP.

9-SERIES AUTHOR:D. C. BAXTER 890169 BAIRSTON ROOTFINDER

ABSTRACT

A FORTRAN II SUBROUTINE SUBPROGRAM TO CALCULATE THE REAL OR COMPLEX ROOTS OF A POLYNOMIAL EQUATION.

COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY PROGRAM 00C20001 PROGRAM REQUIRES 748 DECIMAL MEMORY LOCATIONS AND SUBROUTINE SQRT.

9-SERIES 70 9-SERIES ROOTS OF POLYNOMIALS AUTHOR:D. C. BAXTER - NATIONAL RESEARCH COUNCIL 890170

ABSTRACT:

TO ALLOH INPUT OF THE COEFFICIENTS OF A POLYNOMIAL FROM PAPER TAPE OR TYPEHRITER, AND TO COMPUTE AND TYPE OUT I'S REAL OR COMPLEX ROOTS. THE EFFECT OF AN ACCURACY PARAMETER EPS AND OF A CONVERGENCE LIMIT CAN ALSO BE TESTED.

COMMENTS:

PREVIOUSLY XDS USERS GROUP LIBRARY PROGRAM 00C20002 REQUIRES BAIRSTON ROOTFINDER PROGRAM (PREV. NO. 00C20001) AND A TOTAL OF 3171 (DEC) MEMORY LOCATIONS

890171 71 9-SERIES ROOTBIS, ROOTFINDING BY BISECTION AUTHOR: MISS F. T. STOCK - NATIONAL RESEARCH COUNCIL

ABSTRACT:

A FORTRAN 11 SUBROUTINE TO EVALUATE ONE REAL ROOT OF A FUNCTION IN THE VICINITY OF AN INITIAL GUESS.

THIS METHOD SHOULD BE USED ONLY WHERE OTHER METHODS FAIL AS IT IS NOT TIME EFFICIENT. COMMENTS:

EVIOUSLY XDS USERS GROUP LIBRARY PROGRAM 00C20003 REQUIRES SUBROUTINES (FUNCTION) F(X) AND ABS. 188 (DEC) HEMORY LOCATIONS.

9-SERIES AUTHOR:MISS F. T. STOCK 890172 LEGENDRE POLYNOMIAL

ABSTRACT:
THE PROGRAM EVALUATES THE LEGENDRE POLYNOMIAL PN(X)=(1/2NN1))DN/DXN(X2-1)N BY THE RECURSION FORMULA PN+1=PNX+(N/(N+1))(XPN-PN-1).

890173 73 9-SERIES AUTHOR:HISS F. T. STOCK GAMMA FUNCTION

ABSTRACT:

EVALUATION OF THE FUNCTION (1+F) WHERE ! IS THE INTEGRAL PORTION OF A NUMBER AND F IS THE FRACTIONAL PORTION, OF ALTERNATIVELY TO COMPUTE THE FACTORIAL OF AN INTEGER.

9-SERIES BESSEL FUNCTION JO, JI YO, YI

AUTHOR: HISS F. T. STOCK

ABSTRACT:

EVALUATION OF BESSEL FUNCTIONS OF THE FIRST AND SECOND KIND OF ORDER ZERO AND ONE.

890175 9-SERIES
AUTHOR: MISS F. T. STOCK REAL EXPONENTIAL INTEGRAL

ABSTRACT:

THE PROGRAM COMPUTES THE REAL EXPONENTIAL INTEGRAL -EI(-X)=/X -U/U) DU FOR ANY REAL ARGUMENT GREATER THAN ZERO BY EVALUATING AN APPROXIMATING POLYNOMIAL.

6 9-SERIES AUTHOR:MISS F. T. STOCK 890176 BESSEL FUNCTION KN(X),

ABSTRACT:
THE PROGRAM EVALUATES THE MODIFIED BESSEL FUNCTION OF THE SECOND KIND FOR INTEGRAL AND MALF-INTEGRAL ORDER.

890177 9-SERIES BESSEL FUNCTION-FIRST KIND, ORDER ZERO

AUTHOR: SAM H. HARLIN - XDS

ABSTRACT:
TO COMPUTE THE BESSEL FUNCTION OF THE FIRST KIND, ORDER ZERO, OF A FLOATING POINT ARGUMENT, X.

BESSEL FUNCTION SUBROUTINE 9-SERIES

AUTHOR: G. V. CONIGLIO - BAUSCH + LOMB

ABSTRACT:
TO COMPUTE THE VALUES OF THE BESSEL FUNCTIONS JP(X) FOR REAL ARGUMENT X AND THE SET OF ALL INTEGER ORDERS FROM O TO N.

BESSEL FUNCTIONS-JO, J1, YO, Y1, 10, 11, KO, K1 890179 9-SERIES

AUTHOR: P. VIEILLARD - CAE, CITEC

ABSTRACT:

TO COMPUTE THE FLOATING POINT BESSEL FUNCTIONS, JO, JI, YO, YI, 10, 11, KO, OR KI, OF A SPECIFIED FLOATING POINT ARGUMENT.

GRADIENT MINIMIZATION ROUTINE - FPMIN 9-SERIES 890180

AUTHOR: C. M. HOODSIDE - NATIONAL RESEARCH COUNCIL

ARSTRACT:

A FORTRAN II SUBROUTINE TO FIND THE MINIMUM OF A DIFFERENTIABLE FUNCTION.

DEFINITE INTEGRAL EVALUATION 890181

AUTHOR: HISS F. T. STOCK

ABSTRACT: THE PROGRAM CALCULATES THE INTEGRAL OF A FUNCTION BETHEEN SPECIFIED LIMITS AND HITH SPECIFIED INTERVALS.
THE OPERATOR MUST PROVIDE A FUNCTION F(X) HHICH EVALUATES THE INTEGRAND.

DOUBLE INTEGRATION BY SIMPSONS 9-SERIES 390182

AUTHOR: MISS F. T. STOCK

ABSTRACT:

THE PROGRAM CALCULATES THE DOUBLE INTEGRAL OF A FUNCTION GIVEN THE INNER AND OUTER LIMITS OF INTEGRATION AND THE NUMBER OF INTERVALS TO BE USED BY APPLYING SIMPSONS RULE. THE OPERATOR MUST PROVIDE A FUNCTION V(X,Y,Z) which evaluates the integrand.

RUNGE-KUTTA INTEGRATION 9-SERIES AUTHOR:RICHARD C. BOHMAN - XDS 890183

ABSTRACT:
TO PROVIDE A SOLUTION FOR FIRST-ORDER, SECOND-ORDER, OR COMBINATION OF FIRST AND SECOND ORDER DIFFERENTIAL EQUATIONS

9-SERIES SOLUTION OF DIFFERENTIAL EQUATIONS R-K-6 AUTHOR:D. C. BAXTER - NATIONAL RESEARCH COUNCIL 890184

ABSTRACT:

A PAIR OF FORTRAN II SUBROUTINE SUBPROGRAMS TO ALLOH THE FINITE DIFFERENCE SOLUTION OF A SET OF SIMULTANEOUS, FIRST-ORDER, ORDINARY DIFFERENTIAL EQUATIONS BY THE RUNGE-KUTTA-GILL PROCEDURE. A M PROGRAM IS ALSO INCLUDED AS AN EXAMPLE, WHICH COULD BE USED TO INPUT AND SOLVE COMPLETE EQUATIONS. A MAIN

896185 8-SERIES LAGRANGE - INTERPOLATION

AUTHOR: HISS F. T. STOCK

ABSTRACT:

THE PROPERTY OF THE PROGRAM EVALUATES THE FUNCTION OF ANY SPECIFIED POINT USING LAGRANGE'S FORMULA NOT BE EQUIDISTANT, THE PROGRAM EVALUATES THE FUNCTION OF ANY SPECIFIED POINT USING LAGRANGE'S FORMULA OF INTERPOLATION.

96 9-SERIES POLYNOMIAL CURVI AUTHOR:D. C. BAXTER - NATIONAL RESEARCH COUNCIL POLYNOMIAL CURVE FIT 890186

ABSTRACT:

DESTRUCT: THE PROGRAM FITS A FOLYNOMIAL OF DEGREE LESS THAN 11 THROUGH A SET OF DATA POINTS USING THE METHOD OF LEAST SQUARES. PROVISION IS MADE FOR CHOOSING DEGREE, NUMBER OF POINTS, AND FIRST POINT TO BE USED.

97 9-SERIES LEAST SQUARES POLYNOMIAL AUTHOR:D. C. BAXTER - NATIONAL RESEARCH COUNCIL 890187

AUSTRACT:

PROGRAM READS IN FROM PAPER TAPE OR TYPEHRITER UP TO 200 DATA POINTS. LEAST SQUARES POLYNOMIAL IS
COMPUTED AND COEFFICIENTS TYPED OUT. MAXIMUM AND ROOT-MEAN-SQUARE DEVIATION OF THIS CURVE FROM DATA
POINTS IS TYPED OUT. DEGREE, NUMBER OF DATA POINTS TO BE USED, AND FIRST POINT TO BE USED ARE TYPED IN.

FOURIER COEFFICIENTS PERIODIC FUNCTIONS 9-SERIES 890168

AUTHOR: H. B. LENG - THC

ABSTRACT:

FORTRAN PROGRAM FOR COMPUTING THE FOURIER SERIES COEFFICIENTS OF A PERIODIC FUNCTION AND THE CURVE DERIVED FROM THEM.

FREQUENCY BY PRONY'S METHOD 9-SERIES 890189

AUTHOR: K. P. AMBROSE - DOUGLAS AIRCRAFT CO.

ABSTRACT:

PROVIDES AN APPROXIMATE FREQUENCY COMPUTATION FOR EMPIRIC DATA REPRESENTABLE BY A SINE MAVE.

0 9-SERIES SINE HAVE MONITOR AUTHOR:K. P. AMBROSE - DOUGLAS AIRCRAFT CO.

ASIMALI: PROVIDES A LEAST SQUARE CURVE FIT, INCLUDING THE FREQUENCY, TO A SINE HAVE OF EMPIRIC DATA. ALSO PROVIDES A FOURIER COEFFICIENT RETRIEVAL WHEN ONE USES THE ROUTINE TO SUBTRACT OUT THE LOHER MARMONICS.

91 9-SERIES CURVE/SURFA AUTHOR:K. P. AMBROSE - DOUGLAS AIRCRAFT CO. CURVE/SURFACE FIT ARBITRARY FUNCTION 890191

ABSTRACT:

BENEAUL:
THIS ROUTINE IS USED TO CURVE FIT EMPIRIC DATA TO ANY USER SELECTED COMPUTABLE FUNCTION. BESIDES THE
USUAL POLYNOMIAL FITTING, THIS ROUTINE IS ALMOST AS EASILY USED TO CURVE FIT HITH EXPONENTIALS, FOURIE
EXPANSIONS, ALSO DATA SMOOTHING, INSTRUMENT CALIBRATION CURVES, DAMPED SINE WAVES, SAWTOOTH WAVES,
DOPPLER CURVES, ETC.

9-SERIES NON-LINEAR CURVE FIT PROGRAM 890192

AUTHOR:R. E. AUSTIN - NASA ABSTRACT:

TO DETERMINE TYPE OF CURVE THAT IS REPRESENTATIVE OF PARTICULAR INPUT POINTS AND COMPUTE ADDITIONAL

POINTS.

890193 9-SERIES MATRIX MULTIPLICATION

AUTHOR:D. C. BAXTER

COMPUTES THE PRODUCT OF THO MATRIX ARRAYS. .

REAL MATRIX INVERSION (RMINV) 9-SERIES

AUTHOR: H.S.LASOR, R.C. BOHMAN - XDS.

ABSTRACT:

TO COMPUTE THE INVERSE AND DETERMINANT OF ANY SQUARE MATRIX OF REAL ELEMENTS.

REAL MATRIX MULTIPLY (RMHUL) 9-SERIES

AUTHOR: H.S.LASOR, R.C.BOHMAN - XDS

ARSTRACT:

TO COMPUTE AND STORE THE PRODUCT OF THO MATRICES OF REAL ELEMENTS.

890196 9-SERIES REAL MATRIX TRANSPOSE (RMTRA)

AUTHOR: H.S.LASOR, R.C.BOHMAN - XDS

ABSTRACT:

TO COPY A RECTANGULAR MATRIX OF REAL ELEMENTS, IN TRANSPOSED FORM, INTO ANOTHER REGION OF MEMORY. THE TRANSPOSED MATRIX MAY NOT OVERLAY THE ORIGINAL MATRIX.

97 9-SERIES REALITHOR:H.S.LASOR, R.C.BOHMAN - XDS REAL HATRIX ADDITION (RMADD)

ABSTRACT:
TO COMPUTE AND STORE THE SUM OF THO RECTANGULAR MATRICES.

REAL MATRIX SUBTRACTION(RMSUB) 9-SERIES

AUTHOR: H.S.LASOR, R.C.BOHMAN - XDS

ABSTRACT:

TO COMPUTE AND STORE THE DIFFERENCE OF THO RECTANGULAR MATRICES

890199 99 9-SERIES BOOLIAN MATRIX (FLAG PACKING) AUTHOR:K. P. AMBROSE - DOUGLAS AIRCRAFT CORP.

SAVES CORE STORAGE WHEN LARGE ARRAYS OF YES-NO FLAGS ARE REQUIRED. FOUR POSSIBLE OPERATIONS (INVERT. SET TO ZERO, SET TO ONE, AND TEST) CAN BE PERFORMED ON A DECISION MATRIX WHICH NEEDS ONLY 1/24TH THE USUAL CORE STORAGE.

9-SERIES DETERMINANT EVALUATION 890200

AUTHOR: D. C. BAXTER - NATIONAL RESEARCH COUNCIL ABSTRACT:

COMPUTES THE DETERMINANT OF A MATRIX USING THE METHOD OF TRIANGULARIZATION.

) 9-SERIES MATRIX INVERSION, DETERMINANT CALCULATION AUTHOR:D. C. BAXTER - NATIONAL RESEARCH COUNCIL

ABSTRACT:

PSIMALI: GAUSS-JORDAN ELIMINATION METHOD IS USED TO INVERT MATRIX AND CALCULATE DETERMINANT. ROW AND COLUMN ARE SEARCHED FOR LARGEST ELEMENT TO BE USED AS PIVOT.

D2 9-SERIES SOLUTION OF SIMULTANEOUS EQUATIONS
AUTHOR:D. C. BAXTER - NATIONAL RESEARCH COUNCIL
ARSTBACT. 890202

ABSTRACT:

ISTRACT:
THE GAUSS-JORDAN ELIMINATION METHOD IS USED TO SOLVE SIMULTANEOUS ALGEBRAIC EQUATIONS. ROW
INTERCHANGING IS USED TO PRODUCE A NON-ZERO PIVOT ELEMENT.

PRINCIPAL AXES FACTOR ANALYSIS 890203 9-SERIES

AUTHOR: SHELDON KLEE - XDS

ABSTRACT:
A PROGRAM THAT EXTRACTS ANY NUMBER OF FACTORS FROM A CORRELATION MATRIX.

890204 9-SERIES MATRIX PACKAGE FOR ARITHMETIC OPERATIONS

AUTHOR: H.S. LASOR - XDS

ABSTRACT:

PROVIDES THE USER WITH A SET OF SUBROUTINES ENABLING HIM TO PERFORM ARITHMETIC OPERATIONS ON MATRICES OF ANY SIZE AND TO FACILITATE THE MANIPULATION OF THESE ARRAYS IN STORAGE.

9-SERIES AUTHOR:SAM H. HARLIN - XDS GAUSSIAN NORMAL PROBABILITY ORDINATE 890205

ABSTRACT:
TO COMPUTE THE GAUSSIAN NORMAL PROBABILITY FUNCTION ORDINATE OF AN ARGUMENT.

890208 9-SERIES GAUSSIAN NORMAL PROBABILITY INTEGRAL

AUTHOR: SAM H. HARLIN - XDS

ABSTRACT:

TO COMPUTE THE GAUSSIAN NORMAL PROBABILITY INTEGRAL OF AN ARGUMENT USING AN APPROXIMATION FORMULA.

SUPERCOMPRESSIBILITY FACTORS NATURAL GAS 890207

AUTHOR: TOM HYRICK - TEXAS GAS TRANSHISSION CORP.

ABSTRACT:

A FORTRAN PROGRAM TO CALCULATE AMERICAN GAS ASSOCIATION SUPERCOMPRESSIBILITY FACTORS FOR NATURAL GAS FROM 0 TO 5000 PSIG OVER A RANGE OF -40 TO 240 F.

890208 9-SERIES MULTIPLE LINEAR REGRESSION

AUTHOR: P. G. FRIEDMAN

ABSTRACT:

A FORTRAN II PROGRAM FOR MULTIPLE LINEAR REGRESSION. THIS PROGRAM ACCEPTS INPUT DATA AND SETS UP THE NORMAL EQUATION MATRIX, WHICH IS THEN INVERTED IN THE LSQ SUBROUTINE.

LEAST SQUARE SUBROUTINE. LSQ 890209 9-SERIES

AUTHOR: J. GAINES - XDS

ABSTRACT:

A FORTRAN II SUBPROGRAM TO INVERT THE NORMAL EQUATION MATRIX AND TYPE IN REGRESSION COEFFICIENTS AND OTHER STATISTICAL DATA.

0 9-SERIES AUTHOR: J. GAINES - XDS PSEUDO-RANDOM NUMBER SUBROUTINE (1RAND) 890210

ABSTRACT:

THE DESIRED OF A FORTRAN FUNCTION SUBROUTINE OF ONE PARAMETER, THE SEED OF A RANDOM NUMBER SEQUENCE. THE VARIABLE I IN THE FUNTION CALL IRAND (I) IS THE SEED AND IS ORIGINALLY SET BY THE USER. EACH TIME IRAND (I) IS USED, THE RANDOM NUMBER IS LEFT IN I AND IF I IS UNDISTURBED BETHEEN IRAND (I) USES, A SEQUENCE OF FULL, SINGLE PRECISION INTEGERS WITH TOTAL PERIOD OF 224 IS GENERATED. THE SEQUENCE CAN BE RE-INITIALIZED OR CHANGED BY SETTING I TO THE DESIRED VALUE. CALLING SEQUENCE IS IRAND (I). RESULT IS THE RANDOM NUMBER IN I. RANGE OF VALUES IS -8388608 TO +8388607.

RANDOM NUMBER GENERATOR 890211 9-SERIES

AUTHOR: MICHAEL LINDENMEYER - NASA

ABSTRACT:

A FORTRAN 11 FUNCTION WHICH GENERATES (A) RANDOM NUMBERS FROM THE UNIFORM DISTRIBUTION, NORMALIZED
BETHEEN -1.0 AND +1.0, OR (B) RANDOM NUMBERS TAKEN FROM THE NORMAL (GAUSSIAN) DISTRIBUTION WITH MEAN 0.0
AND VARIANCE 1.0. A FORTRAN TEST PROGRAM IS PROVIDED AS A DEMONSTRATION OF THE USE OF THE PROGRAM AND
TO COMPUTE RANDOM NUMBERS AS A CHECK OF THE VALIDITY OF THE ROUTINE.

9-SERIES CLASS 83 PROGRAM SUMMARIES

RANDOM NUMBER GENERATOR, RANDU 890212 9-SERIES

AUTHOR: BERNARD A. SOBEL - ETHYL CORP.

ABSTRACT:

ASSIMACE:
INITIALLY ENTER THE FUNCTION HITH THE FOLLOWING TYPE STATEMENT: X=RANDU(1). THIS ENABLES THE PROGRAM TO
CYCLE SO "HAT THE STARTING NUMBERS ARE INDETERMINATE. SENSE SHITCHES 4 AND 3 ARE INITIALLY RESET AND
MAY BE SE" AT ANY TIME AFTER FIRST ENTRY (IN ORDER OF SSH4 AND THEN SSH3). ONCE USED, THE SENSE
SHITCHES ARE NEVER RECALLED AND MAY BE USED FOR OTHER PURPOSES. ALL SUBSEQUENT ENTRIES TO THIS FUNCTION
ARE AS FOLLOWS: X= RANDU(2).

3 9-SERIES UNCORRELATED RANDOM NUMBER GENERATOR AUTHOR: HILLIAM B. KENDALL - JET PROPULSION LABS 890213

ABSTRACT:

A FAST AND SIMPLE ROUTINE FOR THE GENERATION OF UNCORRELATED PSEUDO-RANDOM NUMBERS (47-BITS), UNIFORMLY DISTRIBUTED BETHEEN ZERO AND ONE. THIS ROUTINE IS SELF-LOADING, RELOCATABLE AND IS LOADED BY THE NORMAL FILL PROCEDURE. THE ROUTINE IS ENTERED BY A BRM INSTRUCTION. THE CONTENTS OF THE A AND B REGISTERS ARE DESTROY ED AND REPLACED HITH THE NEXT POSITIVE DOUBLE PRECISION 47-BIT PSEUDO-RANDOM NUMBER, THE MOST SIGNIFICANT 23 BITS IN THE A REGISTER, THE LEAST SIGNIFICANT 24 BITS IN THE B REGISTER.

PSEUDO-RANDOM NUMBER GENERATOR (RANDX) 890214

AUTHOR: C. M. HOODSIDE - NATIONAL RESEARCH COUNCIL

ABSTRACT:

GENERATES A SINGLE FLOATING-POINT NORMAL PSEUDO-RANDOM VARIATE. HITH UNIT STANDARD DEVIATION.

890215 9-SERIES PSEUDO-RANDOM NUMBER SUBROUTINE (RAND)

AUTHOR: J. GAINES - XDS

ABSTRACT:

PROVIDES A RANDOM NUMBER GENERATOR IN THE FORM OF A MACHINE LANGUAGE SUBROUTINE.

LINEAR REGRESSION ANALYSIS 890217 9-SERIES

AUTHOR:S. KLEE - XDS

ABSTRACT:

DESIGNED AS AN AID IN LINEAR REGRESSION ANALYSIS TO DETERMINE THE BEST FIT OF COMBINATIONS OF DEPENDENT AND INDEPENDENT VARIABLES, HHERE LITTLE IS KNOHN OF THE FUNCTIONAL RELATIONSHIPS, OR OF THE VARIABLES THAT ARE IMPORTANT. A SUPPLEMENTARY PROGRAM IS PROVIDED THAT WILL COMPUTE THE REGRESSION COEFFICIENTS ASSOCIATED WITH SELECTED OUTPUT VARIABLE COMBINATIONS FROM THE ABOVE PROGRAM.

9 9-SERIES FORTRAN 11 MAGNETIC TAPE 1/0 ROUTINE AUTHOR:R.R.ROSE - DOUGLAS AIRCRAFT CO. 890219

ABSTRACT:

THE H, Y, C, OR D CHANNEL.

READ BLOCKED INPUT FROM MAG. TAPE 9-SERIES

AUTHOR: MARY SPENCER - UNIV. OF CHICAGO

ABSTRACT:

A SUBROUTINE FOR THE MODIFICATION OF THE FORTRAN SYSTEM WHICH WILL ALLOW THE SYSTEM TO ACCEPT BLOCKED LOGICAL RECORDS AS BCD INPUT.

890221 9-SERIES CONVOLUTION & FILTERING UNIT 1/0 ROUTINE

AUTHOR: J. E. MCCARRAN - XDS ABSTRACT:

PROGRAM TO FACILITATE INPUT/OUTPUT TO THE XDS CFE-1 UNIT TO COMPUTE (1) THE CORRELATION OF THO TIME SERIES, (2) THE CONVOLUTION OF A TIME SERIES WITH A FILTER OPERATOR, AND (3)THE OPERATION OF A TIME-REVERSED FILTER ON A TIME SERIES.

9-SERIES AUTHOR: J. E. MCCARRAN - XDS 890222 CONVOLUTION, CORR, FILTER. . OF TIME SERIES

ABSTRACT:
ROUTINE COMPUTES THE CORRELATION OF THO TIME SERIES, THE CONVOLUTION OF A TIME SERIES HITH A FILTER, OR THE OPERATION OF A TIME-REVERSED FILTER ON A TIME SERIES.

890553 9-SERIES BLANK PAPER TAPE LEADER GENERATOR

AUTHOR: DR. D. GOSPODNETIC

ABSTRACT:
PUNCHES 12 CHARACTERS OF BLANK PAPER TAPE LEADER.

890224 FAST FORTRAN PRINT SUBROUTINE

AUTHOR: JOHN LOBDELL - SOUTHERN METHODIST UNIV.

ABSTRACT: INCREASES THE SPEED OF THE XDS FORTRAN PRINT ROUTINE. THIS PROGRAM CHECKS FOR ZONES AND PRINTS ONLY THOSE REQUIRED.

OSCILLOSCOPE DISPLAY ROUTINE 9-SERIES 890225

AUTHOR:S. KLEE - XDS

ABSTRACT:

PROVIDES FORTRAN CALLABLE SUBROUTINES TO UTILIZE SCOPE SYSTEM, INCLUDING VECTOR AND CHARACTER GENERATORS.

PLOT PACKAGE FOR XDS 9175 PLOTTER 9-SERIES 890226

AUTHOR: A. SAVITZKY - PERKIN-ELMER

ABSTRACT:

PROVIDES USERS OF XDS 900 SERIES COMPUTERS AND XDS 9175 PLOTTERS (CALCOMP) THE CAPABILITY OF COMPREHENSIVE GRAPHICAL OUTPUT DISPLAY; OR TO USE ANY PART OF THE PACKAGE AS NECESSARY

SCOOP TAPE PLOTTING ROUTINE, SCOPL-2 890227 9-SERIES

AUTHOR: G. LENTZ - UNIV. OF CHICAGO

ABSTRACT: PROGRAM TO PLOT TAPES PREPARED BY THE CALCOMP SCOOP PROGRAMMING PACKAGE ON THE XDS ON-LINE PLOTTER.

8 9-SERIES GENERAL GRAPHIC GENERA-PLOTTERTER
AUTHOR:R. T. MACINTYRE - BAUSCH + LOMB, INC. 890228

ABSTRACT:

PROVIDES GENERAL PURPOSE PRODUCTION OF MASTER COPIES OF FORMS, CHARTS, DIAGRAMS, ETC. ON THE CALCOMP PLOTTER.

9 9-SERIES ON-LINE PRINT ROUTINE, PRNLN AUTHOR:L.A. LITTLETON, UNIVERSITY OF CHICAGO 890229

ABSTRACT PRNLN PROVIDES A CONVENIENT CALLING SEQUENCE FORMAT FOR PRINTING ON THE TYPEHRITER AND/OR PRINTER.

PLOT PACKAGE WITH LABELING 9-SERIES 890232

AUTHOR: K. M. JAMERSON - HONEYHELL, INC.

ABSTRACT: FACILITATES CREATION OF SCALED, LABELED PLOTS. THIS FORTRAN SUBROUTINE COMPUTES NEW VALUES OF VMIN AND VMAX HITH VARIABLE UNITS/IN. SELECTED FROM 1, 2, 4, 5 AND A POHER OF TEN. LONG IS THE DESIRED LENGTH OF THE AXIS IN INCHES AND IVSC IS THE POHER OF TEN FOUND BY THE SUBROUTINE.

9-SERIES SEMI-LOG/LINEAR PLOT PACKAGE 890233

AUTHOR: J. DARSIE - HONEYHELL, INC.

ABSTRACT: FACILITATES PROGRAMMING SEMI-LOG PLOTS IN FORTRAN. A CALL TO AZIIAXIS SETS UP THE AXIS, DRAMS AND LABELS IT, AND SETS UP AZIIPLOT. A CALL THEN TO AZIIPLOT PLOTS THE CURVE.

PLOT PACKAGE SPECIAL CHART A03 9-SERIES 890234

AUTHOR: K. M. JAMERSON - HONEYHELL, INC.

ABSTRACT: THIS PACKAGE ALLOHS USE OF THE SPECIAL CHART =A03. IT DRAHS THE AXIS, SCALES AS NECESSARY TO MAKE THE DATA FIT THE PAPER, AND SETS UP A200PLOT. THEN A200PLOT SHOULD BE CALLED TO PLOT THE CURVES. THESE SYMBOLS ARE .1 INCH IN SIZE. INTERRUPTS ON THE M BUFFER

9-SERIES PLOT PACKAGE - NON-LABELING 890235

AUTHOR: K. M. JAMERSON - HONEYHELL, INC.

ABSTRACT:
THIS IS A NONLABELING FORTRAN PLOTTING SUBROUTINE WHICH HILL SET UP FOR PLOTTING AND DO AUTOMATIC
SCALING FOR USE HITH A200 PLOT. TO OBTAIN MULTIPLE CURVES ON ONE AXIS(FRAME), ENTER A201 AXIS ONCE AND
A200 PLOT ONCE FOR EACH CURVE.

9-SERIES POLA
AUTHOR: J. DARSIE - HONEYHELL, INC.
ABSTRACT: POLAR PLOT PACKAGE 890236

PRINCE SETS UP A FRAME FOR A POLAR PLOT BY A CALL TO A212 AXIS AND THEN PLOTS IN A POLAR FASHION BY CALLING THE A212PLOT ROUTINE. IT ALSO LABELS THE AXIS.

CALCOMP PLOTTER SUBROUTINE PACKAGE 9-SERIES 890237

AUTHOR: W. G. PECK. R. T. MACINTYRE - BAUSCH AND LOMB, INC.

ABSTRACT:

GENERAL PURPOSE PLOTTING SUBROUTINES WITH MINIMUM SPACE REQUIREMENTS AND MAXIMUM OPERATING SPEED.

9 9-SERIES CORE DUMP TO MAGNETIC TAPE PROGRAM AUTHOR: JOHN LOBDELL -- SOUTHERN METHODIST UNIV. 890239

ABSTRACT:

ALLOHS USER TO DUMP ALL OR ANY PORTION OF CORE MEMORY TO MAGNETIC TAPE. LOAD PROGRAM BY STANDARD FILL FROM EITHER CARDS OR PAPER TAPE. BRU TO LOCATION 37675, SET A REGISTER WITH STARTING LOCATION TO BE DUMPED AND B REGISTER HITH ENDING LOCATION, CLEAR HALF AND GO.

9-SERIES CORE DUMP TO UNBUFFERED LINEPRINTER 890240 AUTHOR: JOHN LOBDELL - SOUTHERN METHODIST UNIV. ABSTRACT:

ALLOWS USER TO DUMP ALL OR ANY PORTION OF CORE MEMORY TO UNBUFFERED LINEPRINTER.

I 9-SERIES FORTRAN CALCOMP PLOTTER ROUTINE AUTHOR: JOHN LOBDELL - SOUTHERN METHODIST UNIVERSITY

ABSTRACT:
THIS SUBROUTINE IS CALLED FROM A FORTRAN II PROGRAM AND CAN DRAH AXES (LINEAR OR LOGARITHMIC), PLOT TITLES, LABEL AXES AND PLOT EITHER CONTINUOUS LINE PLOTS OR POINT PLOTS.

890242 9300 OSCILLOSCOPE DISPLAY ROUTINE AUTHOR:S. KLEE, XDS

ABSTRACT:
TO PROVIDE FORTRAN CALLABLE SUBROUTINES TO UTILIZE SCOPE SYSTEM, INCLUDING VECTOR AND CHARACTER

COMMENTS:

COMPUTER CONFIGURATION: XDS 9300 WITH 21 INCH CRT DISPLAY. SOURCE LANGUAGE: META-SYMBOL. STORAGE:278 DEC

3 9-SERIES XDS 920/930 SYMBOL MNEMONIC TABLE AUTHOR: XDS -- H.B. KENDALL - JET PROPULSION LABS

ABSTRACT:

PROVIDES SYMBOL WITH THE MNEMONIC TABLE OF THE TARGET MACHINE. LOCALIZES OTHER ASSEMBLER FEATURES MHICH ARE ORIENTED SPECIFICALLY TO THE TARGET MACHINE. ESTABLISHES THE RETURN LINKAGE FOR EXIT FROM SYMBOL.

890244 9-SERIES COMPUTER ASSEMBLY PROGRAM FOR 2K-910 AUTHOR: JOHN H. OKERLUND - UNIV. OF HASHINGTON ABSTRACT:

AN ABBREVIATED ASSEMBLY PROGRAM FOR THE XDS 910 HITH 2K CORE MEMORY.

5 9-SERIES AC-DC CIRCUIT ANALYSIS COMPILER AUTHOR:CLIFFORD J. VANDERYACHT - SPARTON ELECTRONICS 890245

ABSTRACT: COMPILES STATEMENTS DESCRIBING AN ELECTRONIC CIRCUIT HRITTEN IN A BRANCH NOTATION INTO A FORTRAN PROGRAM CONTAINING MATRIX EQUATIONS. COMMENTS:

COMPUTER CONFIGURATION: ANY XDS 900 SERIES COMPUTER HITH 4098 HORD OF MEMORY HITH PAPER TAPE READER, AND PUNCH AND CONSOLE TYPEHRITER. PAPER TAPE COMES IN FOUR PARTS

890246 9-SERIES MONITOR INPUT/OUTPUT PACKAGE-QUINOUT

AUTHOR: J. E. MCCARRAN - XDS

ABSTRACT:
DESIGNED TO HANDLE BUFFERED MAGNETIC TAPE, LINE PRINTER, CARD READER, OR TYPEHRITER 1/0 FOR FORTRAN IV AND META-SYMBOL PROGRAMS.

890247 9-SERIES FORTRAN SEARCH ARRAY

AUTHOR: K. M. JAMERSON - HONEYHELL, INC.

ABSTRACT:

SEARCHES A FIXED-POINT ARRAY FOR A MATCHING ITEM AND RETURNS THE LOCATION OF THE ITEM.

9-SERIES SORT SUBROUTINE

AUTHOR: GORDON LENTZ - UNIVERSITY OF CHICAGO

ROUTINE TO SORT AN ARRAY OR ARRAYS OF NUMBERS STORED IN CORE INTO ASCENDING SEQUENCE BASED ON SORT KEY.

890249 9-SERIES EDIT, CHARACTER STREAM EDITING PROGRAM

AUTHOR: JACK HACHANIK

ABSTRACT:
TO MORE EASILY EDIT FORTRAN SOURCE TAPES, SYMBOL SOURCE TAPES, AND FORTRAN BCD DATA TAPES, BY CONTENT AS HELL AS LOCATION.

O 9-SERIES LABEL TRACE ROUTINE, L-FORTRANRAN AUTHOR: PAUL JORGENSEN - AUTOMATIC ELECTRIC LABS 890250

ABSTRACT: PRIMALI: THIS PROGRAM IS A REVISION OF THE LABEL TRACE ROUTINE (SYSIGO) CONTAINED IN THE FORTRAN LIBRARY. BREAKPOINT SMITCH I IS USED TO PERMIT OR SUPPRESS THE LABEL TRACE AT EXECUTION TIME.

9-SERIES 890251

REAL TIME FORTRAN OCTAL DUMP SUBROUTINE

AUTHOR: T. H. VIND

ABSTRACT:

PROVIDES AN OCTAL DUMP FOR DEBUGGING

MEMORY DUMP FOR 9372 PRINTER 890252 9-SERIES

AUTHOR: K. JAMERSON - HONEYHELL, INC.

ABSTRACT:
PRINTS SPECIFIED SECTIONS OF MEMORY, 8 HORDS PER LINE, ON THE 9372 LINE PRINTER. BIT PATTERNS HHICH
REPEAT ARE INDICATED RATHER THAN PRINTED REDUNDANTLY.

3 9-SERIES FORTRAN TO SYMBOL LANGUAGE RUN-TIME LIST 890253

ABSTRACT:

GIVES A RUN-TIME SYMBOLIC LISTING OF ANY FORTRAN ROUTINE IN SYMBOL 8 LANGUAGE.

54 9-SERIES SHIFT ROUTINE FOR A AND B REGISTERS AUTHOR:L.A. LITTLETON - UNIV. OF CHICAGO 890254

ABSTRACT:
SHF POP CONSISTS OF ALS, ARS, BLS AND BRS. THE PACKAGE PROVIDES SINGLE-REGISTER SHIFT INSTRUCTIONS IN EACH DIRECTION FOR BOTH THE A AND B REGISTERS.

9-SERIES HALT AND TRANSFER SIMULATION ROUTINE AUTHOR:L. A. LITTLETON - UNIV. OF CHICAGO 890255

ABSTRACT: PROVIDES A POP TO SIMULATE AN INTERRUPT-PROTECTED 'HALT AND TRANSFER' INSTRUCTION.

9-SERIES SIMULATION OF SKIP ON COMPARISON INST. 890256

ABSTRACT: PROVIDES A POP TO SIMULATE A SINGLE INSTRUCTION 'SKIP IF A LESS THAN OR EQUAL TO M. '

57 9-SERIES SINGLE INSTRUCTION FLAG OPERATION, FLGPO AUTHOR:L. A. LITTLETON - UNIV. OF CHICAGO 890257

CONSISTS OF 5 POPS WHICH PROVIDE SINGLE INSTRUCTION FLAG SETTING, RESETTING, AND TESTING FOR WHICH THE FLAG DOES NOT REQUIRE EXTRA STORAGE.

88 9-SERIES LINE PRINTER PLOTTING PACKAGE AUTHOR: MRS. PATRICIA GRASSLER, THE MITRE CORP.

ABSTRACT:

ROUTINES FOR PLOTTING DATA ON A LINE PRINTER.

GRAPH ROUT FOR THE LINEPRINTER-PLOTTING 9-SERIES

AUTHOR: B. BUND, PERKIN-ELMER AND R.R. BOSE, DOUGLAS AIRCRAFT CO.

ABSTRACT: EIGHT SUBROUTINES PROVIDE CAPABILITY FOR ON-LINE GRAPHING USING THE LINE PRINTER. THESE ROUTINES ALLOM THREE METHODS OF PLOTTING POINTS WITH VERTICAL AND HORIZONTAL AXES WHICH ARE SCALED AND TITLED. THE AXES ARE ALONG THE LEFTHAND AND BOTTOM EDGES OF THE PAGE.

GRAPH ROUTINES FOR LINE PRINTER-PLOTTING 9-SERIES 890260

AUTHOR: BARBARA BUND - PERKIN-ELMER CORP.

ABSTRACT:

PROVIDES CAPABILITY FOR ON-LINE PLOTTING USING THE LINE PRINTER

31 9-SERIES TAPE H AUTHOR:C. A. BURNS - UNIV. OF CHICAGO ABSTRACT: TAPE HANDLING ROUTINE - TAPE 890261

A ROUTINE TO PROVIDE CONVENIENT MAGNETIC TAPE HANDLING.

S2 9-SERIES TYPEHRITER (STD)LISTING OUTPUT SUBR AUTHOR:H. B. KENDALL - JET PROPULSION LABS 890262

ABSTRACT:

TO OUTPUT ON THE TYPEHRITER (STANDARD SELECTRIC) THE SYMBOL OUTPUT LISTING, EITHER UNCONDITIONALLY OR IN A DIAGNOSTIC MODE, UNDER BPT4 CONTROL.

TYPEHRITER (15'CARRIAGE) LISTING OUTPUT 9-SERIES 890263

AUTHOR: H. B. KENDALL - JPL SUBROUTINE.

ABSTRACT:

TO OUTPUT ON A 15' WIDE CARRIAGE SELECTRIC, EITHER UNCONDITIONALLY OR IN A DIAGNOSTIC MODE, UNDER BREAKPOINT 4 CONTROL.

SET OR DETECT ITH BIT OF A HORD 9-SERIES 890264

AUTHOR: MISS G. P. GREEN - NATIONAL RESEARCH COUNCIL

ABSTRACT: A SUBPROGRAM TO SET OR DETECT THE 1TH BIT OF A HORD.

9-SERIES
AUTHOR:P. J. HELLENSTEIN
ABSTRACT: CARD READER END OF FILE TEST 890265

FORTRAN SUBROUTINE TO TEST FOR EOF CONDITION ON CARD READER.

LINE PRINTER LISTING SUBROUTINE 9-SERIES 890266

AUTHOR: H. B. KENDALL - JET PROPULSION LABS

ABSTRACT:
PERMITS OUTPUT LISTING ON A LINE PRINTER, EITHER UNCONDITIONALLY OR IN A DIAGNOSTIC MODE, UNDER BREAKPOINT CONTROL.

900-SERIES FORTRAN FLOHCHART PROGRAM 890267

AUTHOR: D. PIKLEY, BAUSCH & LOMB, INC.

ABSTRACT:

PRODUCES A FLOWCHART FROM ANY GIVEN FORTRAN II PROGRAM.

COMMENTS:

COMPUTER CONFIGURATION: ANY 900 SERIES COMPUTER HITH CARD READER AND LINE PRINTER. 3179 DECIMAL MEMORY SOURCE LANGUAGE: FORTRAN 11

PRINTER UTILITY PROGRAM 8390268 9-SERIES

AUTHOR: D. PIXLEY - BAUSCH + LOMB

ABSTRACT:

PROVIDES A GENERAL MEANS FOR LISTING CARDS ON A HIGH-SPEED PRINTER HITH A VARIETY OF SPECIAL-PURPOSE OPTIONS HHICH HOULD OTHERHISE HAVE TO BE PROGRAMMED SPECIFICALLY FOR A GIVEN TYPE LISTING.

99 9-SERIES CARD RESEQUENCE - DUPLICATOR (REPRO)
AUTHOR:K. P. AMBROSE - DOUGLAS AIRCRAFT CO.

PROVIDES A CONVENIENT IN-HOUSE METHOD OF RESEQUENCING A SYMBOLIC PROGRAM CARD DECK, AND TO PRODUCE A FINAL RESEQUENCED VERSION OF A CARD DECK HITHOUT RELEASING THE DECK TO EAM.

LIBRARY UPDATE EXAMPLE 9-SERIES 890270

AUTHOR: K. P. AMBROSE, DOUGLAS AIRCRAFT CO.

ABSTRACT:

TO PROVIDE A SKELETON FORM, FOR REFERENCE, OF A COMPLETE USERS' FORTRAN LIBRARY PACKAGE INCLUDING ALL CONTROL CARDS NECESSARY TO COMPILE-ASSEMBLE AND INSERT THE BINARY OUTPUT AS THE FIRST ROUTINES IN THE FORTRAN LIBRARY.

9-SERIES PSI OR TSI SYMBOLIC INPUT/OPTIONAL MAG. AUTHOR:H. B. KENDALL - JPL TAPE INTERM. OUTPUT SUBROUTINE 890271

ABSTRACT:

TO READ SYMBOLIC INPUT RECORDS FOR SYMBOL. DURING PASS I THESE RECORDS MAY BE COPIED, IF BPT 3 IS SET, FROM PAPER TAPE (OR TYPEHRITER) TO MAGNETIC TAPE UNIT 1, FROM HHICH THEY ARE READ DURING PASS 2.

2 9-SERIES CARD SYMBOLIC INPUT/OPTIONAL MAG. TAPE AUTHOR:H. B. KENDALL - JPL INTERM. OUTPUT SUBROUTINE (CSI) 890272

ABSTRACT:

ISTRACT: TO READ SYMBOLIC INPUT RECORDS FOR SYMBOL. DURING PASS 1 THESE RECORDS MAY BE COPIED FROM CARDS TO MAGNETIC TAPE UNIT 1 (BPT 3 SET), FROM WHICH THEY ARE READ DURING PASS 2.

BINARY TO DECIMAL CONVERSION 890273 9-SERIES

AUTHOR: H.P.BRIAR - AEROJET-GENERAL CORP. ABSTRACT:

BID A BINARY TO DECIMAL SUBROUTINE HILL CONVERT THE CONTENTS OF A AND B INTO 7 DECIMAL DIGITS AND DECIMAL POINT OR A - SIGN, DECIMAL POINT AND 6 DIGITS. THE CONVERTED BID HILL BE PACKED 2 CH/HD READY FOR OUTPUT HITH LEADING ZEROS SUPPRESSED.

890274 74 9-SERIES XDS 92 PAPER TAPE EDITOR AUTHOR:H. P. BRIAR - AEROJET-GENERAL CORP

ABSTRACT:

PROPER SETTING OF THE BREAKPOINT SWITCHES WITH AUXILIARY TYPING OF THE NUMBER OF RECORDS TO BE PROCESSED ALLOWS REPRODUCTION, LISTING, INSERTION OR DELETION OF SYMBOL SOURCE OR FORTRAN SOURCE STATEMENTS.

9-SERIES FREQUENCY RESPONSE OF DIGITAL TRANSFER 890275

AUTHOR: D. C. BAXTER FUNCTION

ABSTRACT:

COMPUTATION OF AMPLITUDE AND PHASE OF THE RESPONSE OF A LINEAR SAMPLED-DATA SYSTEM TO AN INPUT SINUSOID OF FREQUENCY H.

INVERSE Z-TRANSFORM 890276 9-SERIES

AUTHOR:R. E. GAGNE

ABSTRACT:

CALCULATION OF THE FIRST MTM+1 TERMS OF THE POHER SERIES INVERSION OF A Z TRANSFORM.

, 9-SERIES D-T-L CIRCUIT DESIGN AUTHOR:H. B. LENG AND G. ROGOFF ABSTRACT: 890277

ABSTRACT:
CALCULATES R1, R2, R3, FAN-OUT AND DISSIPATED POWER FOR THE FAMILIAR D-T-L NAND GATE CIRCUIT, GIVING ANSWERS IN EXACT CALCULATED VALUES OR IN COMMERCIALLY AVAILABLE STANDARD RESISTANCES FOR WORST-CASE CONDITIONS.

BASIC CRITICAL PATH PROGRAM 9-SERIES 890278

AUTHOR: R. BOHMAN - XDS

ABSTRACT:
A BASIC PROGRAM THAT CALCULATES THE CRITICAL PATH OF A SPECIFIC PROJECT ON A MINIMUM XDS 900 SERIES
COMPUTER; ALSO, SLACK TIMES ARE COMPUTED FOR ALL TASKS HITHIN THE PROJECT.

9 9-SERIES U.S.STANDARD EARTH MODEL ATMOSPHERE AUTHOR:SAM H. HARLIN- XDS ROUTINE FOR 455 LATITUDE.

ABSTRACT:

CALCULATE PRESSURE, DENSITY, MOLECULAR-SCALE TEMPERATURE AND SPEED OF SOUND AT ANY GIVEN EARTH ALTITUDE,

AT A LATITUDE OF 45.

9-SERIES U.S.STANDARD EARTH ATHOSPHERE ROUTINE 890280

AUTHOR:S. H. HARLIN - XDS

ABSTRACT:
ROUTINE TO CALCULATE PRESSURE, DENSITY, MOLECULAR-SCALE TEMPERATURE, AND SPEED OF SOUND, AT ANY GIVEN
ALTITUDE AND AT ANY GIVEN LATITUDE.

U.S.STANDARD MARS ATMOSPHERE ROUTINE(196 890281 9-SERIES

AUTHOR:S. H. HARLIN - XDS

ABSTRACT: ISTRACT: CALCULATES PRESSURE, DENSITY, MOLECULAR-SCALE TEMPERATURE, AND SPEED OF SOUND, AT ANY GIVEN ALTITUDE WITHIN THE SPHERE OF INFLUENCE OF MARS.

U.S.STANDARD VENUS ATMOSPHERE ROUTINE 9-SERIES 890282

AUTHOR:S. H. HARLIN - XDS

ABSTRACT: CALCULATES PRESSURE, DENSITY, MOLECULAR-SCALE TEMPERATURE, AND SPEED OF SOUND AT ANY GIVEN ALTITUDE OF VENUS' SPHERE-OF-INFLUENCE.

9-SERIES CIRCUIT DESIGN ANALYSIS CIRC DC 890283

AUTHOR:R. D. MCNAIR - XDS ABSTRACT:

A FORTRAN II BASED SOFTHARE PACKAGE TO PERFORM DC CIRCUIT DESIGN ANALYSIS

890284 9-SERIES AIRPLANE LAT-DIR TIME HISTORY

AUTHOR: JAMES L. SAMUELS ABSTRACT:

SOLVES THE THREE DEGREE-OF-FREEDOM LATERAL-DIRECTIONAL AIRPLANE EQUATIONS OF MOTION, USING FOURTH ORDER RUNGE-KUTTA INTEGRATION AND TYPES A TIME HISTORY. USEFUL FOR CHECKING LAT-DIR PORTION OF ANALOG SIMULATIONS.

890285 95 9-SERIES UTILITIES INDUSTRY PACKAGE AUTHOR:C. PASTEL AND V. HRAY - SOUTHERN CALIFORNIA EDISON ABSTRACT

PACKAGE OF SEVEN ROUTINES TO PROVIDE THE FOLLOHING: (1) GENERALIZED METHOD FOR SOLVING POHER SYSTEM LOAD FLOHS; (2) PATE AND REVENUE EVALUATION; (3) LINE PROFILE SURVEY; (4) VOLTAGE DROP AND LOSS EVALUATION. (5) RULING SPAN CALCULATION; (6) PROBABILITY OF LOSS OF LOAD COMPUTATION; (7) TRANSFORMER HEAT RUN.

RPL. A DATA REDUCTION LANG. PRECOMPILER 890286 9-SERIES AUTHOR: FRANK C. BEQUAERT - MITRE CORP.

ABSTRACT:

RPL IS A PRECOMPILER HRITTEN IN FORTRAN II THAT GENERATES FORTRAN 11 OUTPUT STATEMENTS ON MAGNETIC TAPE.

THE PROGRAM ALLONS THE USE OF A DATA BASE DICTIONARY THAT MAKES IT UNNECESS ARY FOR THE USER TO KNOW

HERE HITHIN A MAGNETIC TAPE RECORD PIECES OF DATA ARE RECORDED. RPL PROVIDES A NUMBER OF PROGRAM

GENERATION FUNCTIONS WHICH GENERATE AS OUTPUT FORTRAN PROGRAM SEGMENTS THAT PERFORM DATA REDUCTION

9-SERIES ON-LINE MATHEMATICAL COMPILER 890287

AUTHOR: R. L. SCHHARTZ - XDS

ABSTRACT:

PROVIDES THE USER WITH THE CAPABILITY OF USING HIS XDS 900 SERIES COMPUTER AS A SOPHISTICATED DESK CALCULATOR.

LOGICAL, BIT, AND CHARACTER MANIPULATION B 9-SERIES LOGICAL,BIT AUTHOR:H. PACHON - AUTOMATIC ELECTRIC LABS 890288

ABSTRACT:
A PACKAGE OF ROUTINES TO EXTEND THE FLEXIBILITY OF THE XDS FORTRAN 11 PROGRAMMING SYSTEM TO INCLUDE THE ENCODING OF NON-NUMERICAL PROGRAMS.

9 9-SERIES LINE PRINTER PLOTTING ROUTINE AUTHOR:P. JORGENSEN - AUTOMATIC ELECTRIC LABORATORIES, INC. 890289

PROVIDES A PLOT OF A SET OF POINTS WHOSE COORDINATES ARE STORED IN X AND Y ARRAYS.

9-SERIES HISTOGRAPH PLOT LINE PRINTER-HSTPLOT AUTHOR:P. JORGENSEN - AUTOMATIC ELECTRIC LABORATORIES, INC. 890290

ABSTRACT:

THIS SUBROUTINE PLOTS A HISTOGRAPH AND COMPUTES STATISTICAL PARAMETERS OF AN ARBITRARY ARRAY OF FLOATING POINT NUMBERS.

890291 HINNIH - PROGRAM TO PLAY NIM AUTHOR: P. JORGENSEN - AUTOMATIC ELECTRIC LABORATORIES, INC.

ABSTRACT:
THIS IS A DEMONSTRATION PROGRAM THAT ALLOWS THE USER TO PLAY NIM WITH THE COMPUTER.

9-SERIES SAMPLE DATA FROM ANALOG INPUT AND STORE AUTHOR: I. RAUDZIN - NATIONAL RESEARCH COUNCIL. 890292

ABSTRACT:
A FORTRAN 11 SUBROUTINE TO SAMPLE DATA FROM A SPECIFIED ANALOG INPUT UNDER EXTERNAL CLOCK CONTROL AND STORE IN MEMORY, THO SAMPLES/MORD. CALCULATES THE SUMS OF THE FIRST FOUR POHERS.

9-SERIES BCD CONVERSION, XDS - UNIVAC - XDS AUTHOR: K. P. AMBROSE - DOUGLAS AIRCRAFT CO. 890293

PROVIS BCD CONVERSION BETHEEN THE UNIVAC CHARACTER SET AND THE IBM COMPATIBLE CHARACTER SET USED BY XDS

890294 9-SERIES MAG TAPE POSITION ROUTINE AUTHOR: MISS 1. RAUDZINS - NATIONAL RESEARCH COUNCIL ABSTRACT:

POSITIONS THE MAG TAPE ON UNIT O AT THE NTH FILE, AND OPTIONALLY TO SIMULATE A MAG TAPE FILE TO LOAD THAT FILE.

INTERPOLATION OR EXTRAPOLATION ROUTINE 890295 9-SERIES

AUTHOR: R. M. HELCH - DOUGLAS AIRCRAFT CO. ABSTRACT:

ROUTINE TO INTERPOLATE OR EXTRAPOLATE. TO RETURN EITHER X AS A FUNCTION OF Y OR Y AS A FUNCTION OF X, AND A ROUTINE TO READ DATA CARDS IN AND SET UP NECESSARY TABLES.

PAPER TAPE DUPLICATOR 890298 9-SERIES

AUTHOR: H.P. BRIAR - AEROJET GENERAL CORP.

ABSTRACT: JOINALIE WHEN THE XDS 92 IS EQUIPPED HITH 60 CS PUNCH AND 300 CS READER, THE PROGRAM FURNISHES A READ TAPE/PUNCH TAPE OPERATING MODE FOR THE 300 CS READER TO THE 60 CS PUNCH. THIS PROVIDES A DUPLICATE PAPER TAPE.

97 9-SERIES UNIVERSAL G AUTHOR:K. P. AMBROSE - DOUGLAS AIRCRAFT CO. UNIVERSAL GRAPHIC PACKAGE-CRT4-PLOTTING 890297

ABSTRACT: PROVIDES A CONVENIENT SOFTHARE GRAPHIC PACKAGE (USING THE XDS 9185 GRAPHIC LANGUAGE) FOR PLOTTING ON THE FOLLOWING FIVE DEVICES: XDS 9185 CATHODE RAY TUBE DISPLAY UNIT, LINE PRINTER, TYPEHRITER, CALCOMP, AND SC4020.

9-SERIES FORTRAN II RAD LINKING PROCESSOR-RADLNK 890298

AUTHOR: D. PIXLEY - XDS

ABSTRACT: STRACT:
THE ENTIRE SYSTEM ALLOWS THE USER TO CREATE A LINK TAPE PROCESSOR WHICH WHEN FILLED FROM TAPE 0, ACCEPTS
A STANDARD FORTRAN II LINK TAPE FROM TAPE UNIT 2, PLACES EACH LINK ON THE RAD AND ACCEPTS A THO DIGIT
DECIMAL NUMBER FROM A CARD TO DETERMINE WHICH LINK TO EXECUTE FIRST. SUCCESSIVE LINKS ARE EXECUTED BY
THE CALL LINK(N) OR CALL NEXTLINK FORTRAN II STATEMENTS.

SC4020 SUBROUTINES FOR XDS 920/930 9-SERIES PPS0PR

AUTHOR: GENERAL DYNAMICS-CONVAIR DIVISION

ABSTRACT:

THE SUBROUTINE PACKAGE IS A SUBSET OF THE STANDARD SC SCORS PACKAGE. MOST OF THE CAPABILITIES AS DESCRIBED IN THE SC DOC. 9500056 ARE PRESENT IN THE XDS PACKAGE. A MINIMUM OF 16K MEMORY WITH A MONARCH CONFIGURATION IS NEEDED TO COMPILE AND EXECUTE USING THE PACKAGE. OUTPUT IS A FORMATED SCHOOL TAPE READY FOR PLOTTING.

00 9-SERIES AUTHOR:R. MADDEN - CHEVRON DISK (RAD) HANDLER 890300

ABSTRACT:

TO PROVIDE INPUT AND OUTPUT TO A DISK ON CHANNEL E (DACC)

9-SERIES LABEL TRACE, MODIFIED 160 SYS 890301

AUTHOR: E. A. SEAMAN - PRINCE ALBERT RADAR LAB ABSTRACT:

A PROGRAM THAT INITIALIZES THE OPERATION OF A MODIFIED VERSION OF 180SYS TO PROVIDE: 1. A SELECTIVE Trace of up to 10 labels as specified by the operator at run time. 2. A trace of NO labels. 3. A trace OF ALL LABELS.

USED BY PROGRAM PACKAGE (1605YS, SELTRA, ALLTRA, NOTRA)

SELECTIVE LABEL TRACE, 1605YS 9-SERIES

AUTHOR: E. A.SEAMAN - PRINCE ALBERT RADAR LAB ABSTRACT:

PROVIDE A MODIFICATION OF THE STANDARD XDS VERSION OF 180SYS PLUS THREE ASSOCIATED ROUTINES TO PROVIDE A SELECTIVE TRACE OF STATEMENT LABELS IN A FORTRAN PROGRAM.

REQUIRES SUBROUTINE TRACE.

INSPECTION/CORRECTION BY TYPEHRITER 890303

AUTHOR: D. DUNN, S. SKLAR

THE PROGRAM ALLOWS INSPECTION AND/OR CORRECTIONS OF MEMORY LOCATIONS BASED ON TYPEWRITER INPUT.

FORTRAN MEMORY SAVE ON MAG TAPE

890304 9-SERIES FORTRAN AUTHOR:DR. K. DANSON - UNIV. OF ALBERTA

ABSTRACT: DUMP FORTRAN L OR REAL TIME FORTRAN MEMORY ON A MAG TAPE WITH OPTIONS FOR DUMPING COMMON AND RUN TIME.

9-SERIES B>SORT-BUSINESS LANGUAGE SORT ROUTINE 890305 AUTHOR: L.R. BRENTON - DOUGLAS SPACE CENTER ABSTRACT:

ASTRACT: XDS B)SORT HAS MODIFIED TO PRESERVE THE ORIGINAL SORT SEQUENCE, THUS PROVIDING FOR MORE THAN ONE LEVEL OF SORTING. I.E. MAJOR, INTERMEDIATE, MINOR.

890306 9-SERIES FORTRAN CARD READ SUBROUTINE (216 SYS)

AUTHOR: B.E. ANDREHS ABSTRACT:

UPON READING A CARD CONTAINING A T IN THE FIRST COLUMN, PROGRAM CONTROL IS RETURNED TO MONARCH. COMMENTS:

REVISION OF XDS 216 SYS

890307 9-SERIES AUTHOR: E.A. SEAMAN - PRINCE ALBERT RADAR LAB

ABSTRACT:

A DEMONSTRATION PROGRAM WHICH ENABLES THE COMPUTER TO READ MUSIC IN CODED FORM FROM PUNCHED TAPE AND THEN TO PLAY IT. COMMENTS:

REQUIRES SOME HARDWARE MODIFICATION.

9-SERIES 890308 FORTRAN LABEL TRACE POP (160 SYS)

ABSTRACT:

THIS PROGRAM IS USED TO GIVE A CONDITIONAL LABEL TRACE OF A FORTRAN PROGRAM AND PACKS THE LABELS AT 20/LINE. COMMENTS:

REVISION OF XDS 160 SYS POP.

9-SERIES TIC-TAC-TOE ROUTINE

AUTHOR: A. SEAMAN - PRINCE ALBERT RADAR LAB

ABSTRACT:

A DEMONSTRATION PROGRAM FOR PLAYING TIC-TAC-TOE WITH THE COMPUTER.

890310 FORTRAN EXTENDER LIB. -BIT HANDLING & 1/0

AUTHOR: UNIVERSITY OF DELAHARE

ISTRACT:
THIS PACKAGE OF LIBRARY ROUTINES PROVIDE ADDITIONAL CAPABILITY TO THE FORTRAN USER. THEY INCLUDE CHARACT
ER MANIPULATION, BIT MANIPULATION, INPUT/OUTPUT, AND TIMING.

3 9-SERIES FAST FOURIER TRANSFORM--FOURT AUTHOR:N. BRENNER, MIT DEPARTMENT OF GEOPHYSICS

ABSTRACT:

SUBROUTINE FOR FFT OF MULTI-DIMENSIONAL COMPLEX OR REAL ARRAY IN CORE WHOSE LENGTH IS ARBITRARY. RUNNING TIME IS PROPORTIONAL TO N°LOG(N), MUCH FASTER THAN NON-FFT N°°2.

890314 4 9-SERIES FAST FOURIER TRANSFORM--FOURG AUTHOR: NORMAN BRENNER MIT DEPARTMENT OF GEOPHYSICS

ABSTRACT:

VERY SHORT SUBROUTINE FOR FFT OF ONE-DIMENSIONAL COMPLEX ARRAY MHOSE LENGTH IS ARBITRARY. RUNNING TIME IS PROPORTIONAL TO NO LOG(N), MUCH FASTER THAN NON-FFT NOO2.

890315 9-SERIES FAST FOURIER TRANSFORM -- FOUR?

AUTHOR: NORMAN BRENNER - MIT

ABSTRACT:
SUBROUTINE FOR FFT OF MULTI-DIMENSIONAL COMPLEX OR REAL ARRAY I N CORE WHOSE LENGTH IS A POWER OF THO.
RUNNING TIME IS A POWER OF THO. RUNNING TIME IS PROPORTIONAL TO N*LOG(N). MUCH FASTER THAN NON-FFT

9-SERIES FAST FOURIER TRANSFORM--FOUR1

AUTHOR: NORMAN BRENNER, MIT DEPARTMENT OF GEOPHYSICS

ABSTRACT:
VERY SHORT SUBROUTINE FOR FFT OF ONE-DIMENSIONAL COMPLEX ARRAY IN CORE HHOSE LENGTH IS A POHER OF THO.
RUNNING TIME IS PROPOR TIONAL TO N*LOG(N), MUCH FASTER THAN NON-FFT N**2.

FAST FOURIER TRANSFORM--FOR2D

AUTHOR: NORMAN BRENNER, MIT DEPARTMENT OF GEOPHYSICS

SUBROUTINE FOR FFT OF MULTI-DIMENSIONAL COMPLEX ARRAY ON DESK OR DRUM HHOSE LENGTH IS A POWER OF TWO. RUNNING TIME IS PROPOR TIONAL TO N°LOG(N), MUCH FASTER THAN NON-FFT N°°2.

CIRCUIT DESIGN ANALYSIS - CIRC-AC 900-SERIES 890318

AUTHOR: XEROX

ABSTRACT: BSINACT:

A GENERAL PURPOSE PACKAGE FOR CIRCUIT DESIGN ANALSIS. CIRC-AC ALLOHS QUICK AND ACCURATE ANALYSIS OF THE
AC (SMALL SIGNAL, SINUSOIDAL DRIVE) PERFORMANCE OF CIRCUITS CONTAINING MANY PASSIVE OR ACTIVE COMPONENTS.
CIRC-AC HAS A STORED MODEL FOR TRANSISTORS THAT IMPLEMENTS THO POLE CURRENT DEPENDENCE UPON FREQUENCY.
CIRC-AC DOES NOMINAL SOLUTIONS, FREQUENCY ITERATION SOLUTIONS, AND AUTOMATIC OPEN LOOP SOLUTIONS. CIRCAC HANDLES LARGE CIRCUITS (OVER 50 MODES) AND PLOTS PERFORMANCE CURVES ON THE LINE-PRINTER. CIRC-AC HAS
DEPENDENT CURRENT SOURCE MODELS AND VOLTAGE SOURCE MODELS AND EASILY IMPLEMENTS Y AND H EQUIVALENT CIRCUITS.

CIRCUITS.

COMMENTS:

CIRC-AC IS A FORTRAN + SYMBOL PROGRAM THAT OPERATES AS A LINKED PROGRAM, CIRC HORKS EFFECTIVELY ON A 18K

MEMORY MACHINE (ASSUMED IN THE RELEASE). A SMALL VERSION CAN OPERATE ON 12K. FOUR MAG TAPES ARE IDEAL.

THREE MAG TAPES ARE GOOD, AND THO MAG TAPES COULD SUPPORT A HEAK VERSION HITH AHKHARD OR NO PLOTTING. A

CARD READER AND LINE PRINTER ARE IDEAL. CIRC-AC OPERATES ON ANY 900-SERIES COMPUTER.

20 92 XDS 92 FORTRAN IV COMPILER AUTHOR: COMPAGNIE INTERNATIONAL POUR L'INFORMATIQUE 890320

THIS PROGRAM ALLOWS COMPILATION OF PROGRAMS WRITTEN IN FORTRAN IV.

SEMILOG PLOTTING ROUTINES 900-SERIES 890329

AUTHOR: BRETT VALIQUET - MOTOROLA INC.

ABSTRACT:

SEMIMULT-DRAMS A LINEAR Y-AXIS AND LOGARITHMIC X-AXIS AND PLOTS UP TO 8 CURVES ON THE SAME GRAPH.
SEMIAXI - DRAMS A LINEAR Y-AXIS AND A LOGARITHMIC X-AXIS. REPLOTZ - THIS SUBROUTINE PLOTS UP TO 10
CURVES ON THE AXES PREVIOUSLY DRAWN BY SEMIAXI.

PLOT 'B VECTOR' PLOTTING PACKAGE 900-SERIES 890330

AUTHOR: MOTOROLA INC.

ABSTRACT:

USED FOR TAPE HRITING FOR OFF LINE SYSTEMS. THIS IS THE STANDARD CALCOMP PACKAGE FOR 8 VECTOR PLOTS COMMENTS:

LANGUAGE:SYMBOL ADDITIONAL INFORMATION:INCLUDES SUBROUTINES: PLOTS, WHERE, FACTOR, OFFSET, CLRPLT. EACH SUBROUTINE ALLOHS ON-LINE OR OFF-LINE PLOTTING.

PLOT (24 VECTOR) PLOTTING PACKAGE 900-SERIES

AUTHOR: MOTOROLA INC.

ABSTRACT:

USED FOR TAPE HRITING FOR OFF-LINE SYSTEMS. THIS IS THE STANDARD CALCOMP PLOTTING PACKAGE FOR 24 VECTOR PLOTS.

COMMENTS: PROGRAM TYPE: PACKAGE LANGUAGE:SYMBOL SYSTEM:MONARCH. ADDITIONAL INFORMATION:INCLUDES SUBROUTINES PLOT, PLOTS, HHERE, FACTOR, OFFSET, CLRPLT. EACH SUBROUTINE ALLOHS ON-LINE OR OFF-LINE PLOTTING.

BUO-SERIES HORD/BIT ORIENTED FUNCTION & SUBROUTINE AUTHOR: JOHN DOLS, MOTOROLA, INC. ABSTRACT. 890332

STRACT:
HORD ORIENTED FUNCTIONS AND SUBROUTINES SUBROUTINE FORM HHICH CALLS FUNCTION MULT, FUNCTION 1PART, AND
FUNCTION 1PARTA, ALLOWS MULTIPLE VARIABLE STORAGE IN INTEGER HORD FORMAT. THE BIT CONFIGURATION TO BE
USED BY THE VARIABLES MUST BE SPECIFIED
BIT ORIENTED FUNCTIONS AND SUBROUTINES, FUNCTION AIF, SUBROUTINES EXC, FILL, MUH, AND MUT ALL ARE CALLED
USING SEQUENCE: NAME (ARG1, ARG2, ARG3)
HOMENTS:

PROGRAM TYPE: PACKAGE LANGUAGE: FORT/SYMB SYSTEM: MONARCH

SUBROUTINE SLZDEQ

900-SERIES AUTHOR: J. HERRELL - MOTOROLA

ABSTRACT: THIS SUBROUTINE WILL SOLVE UP TO 20 SIMULTANEOUS COMPLEX EQUATIONS.

PROGRAM TYPE:FORT SUB LANGUAGE:FORTRAN II SYSTEM:MONARCH

900-SERIES NOPRINT, READ AND REREAD PACKAGE (10)
AUTHOR: JOHN DOLS / BOB STEPHENS - MOTOROLA INC. 890334

ABSTRACT: THE NOPRINT, READ, AND REREAD PACKAGE ALLOHS MANIPULATION AND ING THE PREVIOUS DATA TO BE MANIPULATED.

(AS IN 'DECODE'). NOPRINT INHIBITS THE NEXT PRINT STATEMENT, ALLOHING REFORMATTING (AS IN 'ENCODE').

STATEMENT, ALLOHING REFORMATTSUBROUTINE READ UTILIZES INTERLACE DURING 1/0, ALLOHING COMPUTATION

DURING 1/0.

PROGRAM TYPE:FORT SUB LANGUAGE:METASYMBOL SYSTEM:MONARCH STORAGE:56HORDS DOC. PAGES:13 DATE:11/26/69

FORTRAN READ AND WRITE TAPE ROUTINES.

AUTHOR: JOHN DOLS / BOB STEPHENS - MOTOROLA INC.

ALLOH FORTHAN TO READ OR WRITE RECORD BLOCKS OF ANY LENGTH IN BCD OR BINARY ON MAGNETIC TAPE.

PROGRAM TYPE:FORT SUB LANGUAGE:METASYMBOL SYSTEM:MONARCH STORAGE: DOC.PAGES:12 DATE:11/26/69

890336 900-SERIES SORT-MODIFIED SHELL MERGE-EXCHANGE

AUTHOR: JOHN CIOLS - MOTOROLA ABSTRACT:

PERFORMS DESCENDING OR ASCENDING SORTS ON BCD. INTEGER, OR REAL ARRAYS. PROGRAM TYPE:FORT SUB LANG: SYMBOL SYSTEM:MONARCH STORAGE:202 DOC.PAGES:12 DATE:11/28/69.

7 900-SERIES PACKING AND UNPACKING OF FLOATING POINT AUTHOR: BOB STEPHENS / JOHN DOLS - MOTOROLA 890337

ABSTRACT:

A CONVERSION MEDIA BETHEEN DOUBLE AND SINGLE PRECISION FLOATING POINT NUMBERS - CONSERVES STORAGE. COMMENTS:

PROGRAM TYPE:FORT SUB LANGUAGE:METASYMBOL SYSTEM:MONARCH STORAGE:24 DOC.PAGES:3 DATE:11/26/69

END-OF-FILE TEST 900-SERIES

AUTHOR: JOHN DOLS - MOTOROLA INC.

TESTS FOR END-OF-FILE ON TAPE WRITTEN IN EITHER MODE AND BRANCHES TO SOME SPECIFIED STATEMENT WHEN EOF FOUND:

COMMENTS:

PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN SYSTEM:MONARCH STORAGE:21 DOC.PAGES:2 DATE:11/26/69

900-SERIES END-OF-PAGE TEST ROUTINE AUTHOR: BOB STEPHENS / JOHN DOLS - MOTOROLA 890339

ABSTRACT:

TESTS LOCATION OF PRINTER TO DETERMINE IF PRINTER IS READY TO GO TO A NEW PAGE

PROGRAM TYPE:FORT SUB. LANGUAGE:METASYMBOL SYSTEM:MONARCH STORAGE:9 DOC.PAGES:2 DATE:11/28/89.

890340 MAGNETIC TAPE POSITIONING ROUTINES

0 900-SERIES MAG AUTHOR:BOB STEPHENS - MOTOROLA INC.

ABSTRACT:
FORTRAN SUBROUTINES ALLOHING THE USER TO SKIP A SPECIFIED NUMBER OF FILES OR RECORDS EITHER FORHARD OR COMMENTS:

PROGRAM TYPE:FORT SUB LANGUAGE: FORTRAN II SYSTEM: MONARCH STORAGE:128 DOC. PAGES:8 DATE:11/26/69

AUTHOR: BOB STEPHENS - MOTOROLA INC. COUNT FILES/RECORDS ON MAGNETIC TAPE

ABSTRACT:

ALLONS THE USER TO COUNT THE RECORDS IN A FILE, OR THE FILES ON A MAGNETIC TAPE.

PROGRAM TYPE:FORT SUB LANGUAGE:SYMBOL SYSTEM: STORAGE:85 DOC.PAGES:4 DATE:11/28/89

2 900-SERIES TAP AUTHOR: BOB STEPHENS - MOTOROLA INC. 890342 TAPE LABEL AND POSITIONING

ABSTRACT

SUBROUTINES CONSTRUCT AND RECOGNIZE LEVEL 1 MONARCH LABELS.

PROGRAM TYPE:FORT SUB. LANGUAGE:SYMBOL SYSTEM:MONARCH STORAGE:28 HORDS DOC.PAGES:7 DATE:11/28/89

890343 900-SERIES

AUTHOR: JOHN DOLS - MOTOROLA INC. ABSTRACT:

A FORTRAN SUBROUTINE HHICH ALLOWS PROGRAMMED INTERVENTION ON ANY FORTRAN II RUNTIME ERROR NORMALLY CAUS-ING AN ERROR NOTIFICATION. COMMENTS:

PROGRAM TYPE:FORT SUB. LANGUAGE:SYMBOL SYSTEM:MONARCH STORAGE:71WORDS DOC.PAGES:6 DATE:11/28/69

PLOTTER SUBROUTING BLOHUP 890344 900-SERIES

AUTHOR: RON KOLE - MOTOROLA INC.

ABSTRACT:

ENLARGES A PORTION OF A CURVE THAT IS DIFFICULT TO READ WHEN PLOTTED BY 'CALPLOT' (CAT NO 890350)

COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC. PAGES:4 DATE:11/25/89
ADDITIONAL INFORMATION: REQUIRES CALPLOT -890350

```
900-SERIES
                                                            HISTPRINT AND HISTPLOT
890345
        AUTHOR: MOTOROLA, INC.
       ABSTRACT:
PROCESS RAN DATA INTO HISTOGRAM REPRESENTATIONS OF FREQUENCY VERSUS INTERVAL ACCORDING TO SPECIFICATION.
HISTPRNT OUTPUTS ON THE LINE PRINTER HHILE HISTPLOT OUTPUTS ON THE CALCOMP PLOTTER. PLOTTING REQUIRES
THREE TIMES AS MUCH COMPUTER TIME AS PRINTING.
COMMENTS:
           UNITERIES:
PROGRAM TYPE:FORT.SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC.PAGES:
Requires Plot-cat no 890330 Symbol Calcomp Scoop Package Sort 890338
                                                                                                                   DOC.PAGES:12 DATE:11/28/69.
                                                            PLOTTER ROUTINE FOR ON-LINE PRINTER
                        900-SERIES
890346
        AUTHOR: JOHN DOLS - MOTOROLA INC.
        ABSTRACT:
           WILL PLOT ONE OR THO CURVES ON LINE-PRINTER USING 8-1/21 X 111 PAPER. IT LABELS ALL AXES AND PRINTS A
        COMMENTS:
           PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC.PAGES:9 DATE:11/28/69
                                                            PROBABILITY FUNCTIONS - ERRF. ZGAUSSF, P
        47 900-SERIES PR
AUTHOR:JIM HERRELL - MOTOROLA INC.
        ABSTRACT:

ERRF-RETURNS VALUE OF ERROR FUNCTION FOR POSITIVE VALUES OF X. PROBFUNC-RETURNS VALUE OF NORMAL PROBABILITY INTEGRAL. ZGAUSS-INVERSE OF PROBFUNC.
           PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN 11 SYSTEM:MONARCH STORAGE:76,83,96 DOC.PAGES:7 DATE:11/26/69
        900-SERIES REVERSE SEMILOG PLOTTING PACKAGE
AUTHOR:RON KOLE - MOTOROLA INC.
ABSTRACT.
890348
           SEMIREY DRAWS THE AXES FOR A SEMILOG PLOT THAT HAS THE Y-AXIS LOGARITHMIC. THE REPLOTY PLOTS UP TO 10 CURVES ON AXES GENERATED BY SEMIREY.
        COMMENTS:
PROGRAM TYPE:FORT SUB LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:7 DATE:11/26/89
ADDITIONAL INFORMATION: REQUIRES SUBROUTINES: PLOT 890330, LOGA 890351, LOGSCALE 890353, PLUS CACCOMP
ROUTINES:SCALE, CLRPLT, LINE, SYMBOL, AXIS
                                                             STATPAK-STATISTICAL PACKAGE
                        900-SERIES
890349
        AUTHOR: BRETT VALIQUET - MOTOROLA INC.
        ABSTRACT:
STATPAK IS A PACKAGE DESIGNED TO ANALYZE, SUMMARIZE AND STANDARDIZE RELIABILITY DATA. PROGRAMS INCLUDED:
LINK 1 THRU LINK 10 NISTPRINT INPLOT
           PROGRAM TYPE:PACKAGE LANGUAGE:FORTRAN 11 SYSTEM:MONARCH
PROGRAM TYPE:PACKAGE LANGUAGE:FORTRAN 11 SYSTEM:MONARCH
ADDITIONAL INFORMATION:SUBROUTINES REQUIRED: AIF(890332) COMPARE, NOPRINT(890333), HISTPRINT (890345),
REREAD (890334), ALOGIO, LINK, NEXTLINK, SQRT, INPLOT, ALOG, COS, SIN, 18CZ, CALPLOT, SEMILOG, AMIN,
AMAX, ABS, FLOAT.
        COMMENTS:
        900-SERIES GENERAL PLOTTING PACKAGE
AUTHOR:RON KOLE - MOTOROLA INC.
ABSTRACT:
890350
         ABSTRACT:
            PLOTS ONE OR THO CURVES ON 101 X 71 AXES WITH TITLE AND AXIS LABELS.
            VINICALIS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC.PAGES:8 DATE:11/26/89
REQUIRES CALCOMP ROUTINES: SCALE, PLOT, AXIS, SYMBOL, LINE.
        AUTHOR: RON KOLE - MOTOROLA INC.
ABSTRACT:
 890351
         ABSTRACT:
            HILL PLOT ONE OR THO CURVES ON 10'X 7' AXIS, WITH X-AXIS LOGARITHMIC.
            PR)GRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:5 DATE:11/26/69
ADDITIONAL INFORMATION: REQUIRES PROGRAM CAT NO 890353 - LOGSCALE, 890352 - LOGAXIS PLUS CALCOMP
PLOTTING ROUTINES.- LOGSCALE, 890352 - LOGAXIS
                                                             LOGAXIS PLOTTING SUBROUTINE
 890352
                        900-SERIES
         AUTHOR: R. KOLE, MOTORALA
         AUSTRACT:
DRAHS A LOGARITHMIC AXIS AT EITHER 0 OR 90, 'TICS' OFF THE INCREMENTS, AND WRITES THE POWER OF 10
INCREMENTS AT THE BEGINNING OF EACH DECADE.
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:4 DATE:11/26/69
ADDITIONAL INFORMATION: 11/26/69 REQUIRES: PROGRAMS FROM CALCOMP PACKAGE - PLOT, TIC, WHERE,
         COMMENTS:
            DMMENTS:
SYMBOL, WHERE, NUMBER.
DRAWS A LOGARITHMIC AXIS AT EITHER 0 OR 90 , 'TICSI OFF THE INCREMENTS, AND HRITES THE POWER 10
INCREMENTS AT THE BEGINNING OF EACH DECADE.
PROGRAM TYPE:FORT SUB LANGUAGE:FORTRAN 11
SYSTEM:MONARCH
DATE:11/28/89
DATE:11/28/89
PLOT, TIC, WHERE, SYMBOL, WHERE, NUMBER
                                                                             PAGE 56 - 01/31/75
 REPRINT 75.02
```

COMMENTS: PROGRAM TYPE:PACKAGE

```
PLOTTING SUBROUTINE LOGSCALE
890353
                  900-SERIES
      AUTHOR: RON KOLE - MOTOROLA INC.
      ABSTRACT:
         CONVERTS VALUES OF A DATA ARRAY TO LOG FORM. USED IN PLOTTING ON LOG PAPER.
        PROGRAM TYPE:FORT SUB LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:4 DATE:11/26/69
      54 900-SERIES COM
AUTHOR:BOB STEPHENS - MOTOROLA INC.
                                            COMPLEX ARITHMETIC FUNCTIONS
890354
      ABSTRACT:
        FUNCTIONS USED FOR COMPLEX ARITHMETIC MAGNITUDE AND ANGLE; REAL AND IMAGINARY CONVERSIONS; MULTIPLICATION, DIVISION, ADDING AND SUBTRACTING.
        PROGRAM TYPE:PACKAGE LANGUAGE: FORTRAN 11 SYSTEM:MONARCH STORAGE:8 DOC.PAGES:15 DATE:11/28/69
                                           BCD CONVERSION OF NUMERIC DATA
                 900-SERIES
890355
      AUTHOR: BOB STEPHENS / JOHN DOLS - MOTOROLA
      ABSTRACT:
        CONVERSION OF FIXED OR FLOATING POINT NUMERIC DATA TO A4 OR A8 FORMATS AS REQUIRED.
      COMMENTS:
        PROGRAM TYPE:FORT SUB. LANGUAGE:METASYMBOL SYSTEM:MONARCH STORAGE:197 DOC.PAGES:10 DATE:11/26/69
      66 900-SERIES ERA:
AUTHOR: BOB STEPHENS - MOTOROLA INC.
                                            ERASE MAGNETIC TAPE IN FORTRAN
890356
      ABSTRACT:
        SUBROUTINES USED TO ERASE MAGNETIC TAPE TO A SPECIFIED LENGTH.
        PROGRAM TYPE:FORT SUB. LANGUAGE:FORT 11 SYSTEM:MONARCH STORAGE:133 DOC.PAGES:5 DATE:11/28/89
                                           SUBROUTINE RE20EQ
890377
                 900-SERIES
     AUTHOR: J. HERRELL, MOTORALA INC.
      ABSTRACT:
        THIS SUBROUTINE HILL SOLVE UP TO 20 SIMULTANEOUS EQUATIONS HITH REAL COEFFICIENTS AND 20 UNKNOHMS.
      COMMENTS:
        PROGRAM TYPE:FORT SUB LANGUAGE:FORTRAN II SYSTEM:MONARCH
        STORAGE:
                                   DOC.PAGES:8
                                                              DATE: 12/04/69
                                           SUBROUTINE DASHPLOT PLOTTER
890378
                 900-SERIES
      AUTHOR: RON KOLE - MOTOROLA INC.
     ABSTRACT:
DRAWS A DASHED LINE FROM LOCATION OF PEN AT THE TIME OF CALL TO THE POINT(X,Y).
      COMMENTS:
        PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC. PAGES:2 DATE:11/28/89.
REQUIRES CATALOG NUMBER 890330 PLOT
                 900-SERIES
                                           LINEAR PLOTTING PACKAGE
890379
     AUTHOR: BRETT VALIQUET - MOTOROLA INC.
      ABSTRACT:
       PLOTS UP TO 10 CURVES ON LINEAR, LABELED AXIS. CONSISTS OF THREE SUBROUTINES-LINEAR, REPLOT 1. LINAXI.
        PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:11 DATE:11/
ADDITIONAL INFORMATION: REQUIRE PLOTTING PACKAGE FROM CALCOMP AND CATNO 890331 OR EQUIVALENT.
                                                                                              DOC.PAGES:11 DATE:11/26/69
     JUD-SERIES ALPHAXIS PLOTTING ROUTINE
AUTHOR:RON KOLE - MOTOROLA INC.
ABSTRACT:
890380
     ABSTRACT:
        DRAWS AXIS OF SPECIFIED LENGTH AND ANNOTE WITH LABELS INSTEAD OF NUMBERS.
     COMMENTS:
        INTERNIS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC
ADDITIONAL INFORMATION: USES CATALOG NO 890331 AND CALCOMP ROUTINE SYMBOL
                                                                                           DOC.PAGES:4 DATE:11/26/89
     900-SERIES FORTRAN PRECOMPILER FORT II-FORT IVH
AUTHOR:G. SAGER, MONEYHELL, INC.
ABSTRACT:
890384
      ABSTRACT:
        THE PRECOMPILER CONVERTS FORTRANII PROGRAMS TO BASIC FORTRAN 19H, ANNOTATES, GENERATES STATEMENTS CONVERTING FORTRAN 11 NEGATIVE DO LOOPS TO AN EQUIVALENT POSITIVE DO, AND FLAGS IRREGULARITIES WHICH ARE NOT CONVERTIBLE.
```

PE:PACKAGE LANGUAGE:FORTRANII SYSTEM:MONARCH STORAGE:7537 DOCU.PAGES:2 DATE: THE PACKAGE CONSISTS OF A MAIN PROGRAM AND 37 FUNCTIONS AND SUBROUTINES.

940 TELETYPE PLOT ROUTINES 890524

AUTHOR: JOHN ALSTON, XDS ABSTRACT:

940 FORTRAN II PLOTTING ROUTINES (TELETYPE PLOTTING). PLOTTING IS DONE ON A 51 X 51 CHARACTER GRID.

900-SERIES NODE OPTIMIZATION ROUTINE AUTHOR:D. MACNAK, MOTOROLA, INC. ABSTRACT: 890525

DECREASES THE SIZE OF THE MATRIX AS GENERATED BY CIRC. THIS IS DONE RENUMBERING THE NODES AND PRINTING A CONNECTION LIST.

REAL-TIME FORTRAN RUN-TIME DEBUG 920 890526

AUTHOR: J. W. SCHWARTZENBERG, LEEDS AND NORTHRUP ABSTRACT:

A RUN-TIME DEBUG SUBROUTINE FOR USE WITH REAL-TIME FORTRAN II.

DDT-92 DEBUGGING ROUTINE 27 92 DDT-92 (AUTHOR:MARC OBERLY - CAMBRIDGE ELECTRON

AN IN-CORE DEBUGGING PROGRAM OFFERING A COMPUTE-AND-HALT ROUTINE, DIRECT OCTAL OR SYMBOLIC I/O TO AND FROM CORE VIA TYPEWRITER, SYMBOLIC REFERENCING OF STORAGE, PAPER-TAPE SAVE OF THE LABEL TABLE AND PRO-DUCTION OF A SELF-FILLING, SELF-STARTING PAPER-TAPE OF THE PROGRAM IN CORE.

ONVERSATIONAL FUNCTIONAL ASSEMBLER AUTHOR: GERALD CAHILL, RPFTP, EDHARDS, CALIFORNIA 890528

ABSTRACT:
THIS PROGRAM HAS HRITTEN TO ALLOH ENGINEERS AND MATHEMATICANS TO USE THE XDS 910 (OR WHAT YOU) AS THEY
HOULD A MEMORY TYPE OF DESK CALCULATOR HITH THE ADDITIONAL CAPABILITY OF BUILT IN FUNCTIONS AND AN INCREASE OF PRECISION. THIS PROGRAM ALSO SERVES TO INTRODUCE ASSEMBLY LANGUAGE PROGRAMMING TO THOSE INTER-ESTED IN GETTING CLOSER TO THE MACHINE. COMMENTS:

PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN II STORAGE:8K DOC.PAGES:45

PRINTX-PRINTER SUBROUTINE 99 900-SERIES PRINTX-PRINTER SUBF AUTHOR:D.F. KOENIG BROOKHAVEN NATIONAL LABORATORY

PRINT VARIABLE LENGTH RECORDS (120 CHARACTERS MAXIMUM OUTPUT) ON 9372 UNBUFFERED LINE PRINTERFROM VARIABLE-LENGTH BCD MAG TAPE RECORDS HITH SSW OPTIONS FOR HALT/PROCEED/REPEAT AT SINGLE AND DOUBLE END-OF-FILES.

PUNCHX PUNCH SUBROUTINE 30 900-SERIES PUNCHX PUNCH SUBRO AUTHOR:D.F. KOENIG BROOKHAVEN NATIONAL LABORATORY 890530

ABSTRACT:
TO PUNCH VARIABLE LENGTH (80 CHARACTERS MAXIMUM) PAPER TAPE RECORDS FROM VARIABLE LENGTH 8CD MAG TAPE:
RECORDS WITH SSW OPTIONS FOR HALT/PROCEED/REPEAT AT SINGLE AND DOUBLE END-OF-FILES.

BB 92 TABLCON AUTHOR:MARC OBERLY - CAMBRIDGE ELETRON TABLCON

ABSTRACT:

A PROGRAM FOR CONVERTING THE PUNCHED MEMORY MAP FROM "QUBLDR-DD" TO A PUNCHED SYMBOL TABLE ACCEPTABLE FOR READING INTO "DDT-92". IT HILL ADDITIONALLY LIST THE MAP ON THE CONSOLE TYPEHRITER IN BOTH ALPHABET-IC AND ADDRESS VALUE SEQUENCE FLAGGING ANY UNDEFINED REF ITEMS FOUND DURING READ-IN OF THE MAP. COMMENTS: LANGUAGE: SYMBOL STORAGE: 017341

QUBLDR DD-OPT PUNCH FOR INPUT TABLEON 890539

AUTHOR: MARC OBERLY - CAMBRIDGE ELECTRON

ABSTRACT:

A MODIFIED VERSION OF QUBLDR (XDS PROGRAM NO. 720004) OFFERING: OPTIONAL PUNCHING OF THE MAP FOR INPUT
TO THE PROGRAM *TABLEON*, NO LOADING OF PROGRAMS FROM CARDS, THE AUTOMATIC INITIALIZATION OF SCRATCHPAD
FOR ITSELF AFTER FILLING OR USER CALL. COMMENTS:

LANGUAGE: SYMBOL STORAGE: 00844

MONARCH SYSTEM UPDATE O 930 MONARCH SYSTEM AUTHOR: SALLY BRECKENRIDGE UNIV. OF MICHIGAN

ABSTRACT:

UPDATE (850032) AND BOOTSTRAP (890031) COMPRISE THE SYSTEM UPDATE PROGRAM TO CREATE NEW MONARCH SYSTEM T

APES AND TO UPDATE EXISTING SYSTEM TAPES. UPDATED FROM A PROGRAM DEVELOPED BY BARRY MACRAE.

1 930 A GENERAL MAG TAPE ROUTINE AUTHOR: SALLY BRECKENRIDGE - UNIVERSITY OF MICHIGAN 890541 ABSTRACT:

A GENERAL EASY-TO-USE MAGNETIC TAPE ROUTINE FOR THE 930. DEVELOPED FROM A PROGRAM BY DONALD MYCHE.

2 930 EDIT (SERVICE PROGRAM) FOR MAGNETIC TAPE AUTHOR: SALLY BRECKENRIDGE - UNIVERSITY OF MICHIGAN ABSTRACT:

PROVIDES A METHOD FOR UPDATING SOURCE PROGRAMS ON MAGNETIC TAPE. UPDATED FROM A PROGRAM DEVELOPED BY DONALD HYCHE AND BARRY MACRAE.

890548 930 REGEN-A BINARY TO SYMBOLIC TRANSLATOR AUTHOR: J.H. LAYLAND, JET PROPULSION LABORATORY

ABSTRACT: PSIMALI:
REGEN IS A PROGRAM FOR TRANSLATING BETHEEN THE XDS 900 SERIES UNIVERSAL BINARY LANGUAGE AND A SYMBOLIC
EQUIVALANT. THE PROGRAM OPERATES UNDER A BASIC MONARCH SYSTEM HITH ONE SCRATCH TAPE AND USES THE SYSTEM
INPUT/OUTPUT ASSIGNMENTS. BREAKPOINTS 3 AND 4 SELECT THE PRODUCTION OF EITHER A LIST OUTPUT OR AN
ASSEMBLABLE SYMBOLIC DECK OUTPUT. EXTERNAL REFERENCE AND DEFINITION ITEMS IN THE BINARY TEXT PROVIDE
NAMES AND MAKE THE REGENERATED TEXT AS CLOSE AS POSSIBLE TO THE ORIGINAL SOURCE. COMMENTS:

ADDITIONAL INFORMATION: NEEDS 1 SCRATCH TAPE.

CROSS REFERENCE FOR FORTRAN PROGRAMS

AUTHOR: G. SAGER, HONEYHELL, INC. ABSTRACT:

CROSS REFERENCE-LABEL, SUBROUTINE, VARIABLE, BY LINE NUMBER PRINTS FORTRAN PROGRAM, AS IT IS INPUT FROM THE CARD READER, ON THE LINE PRINTER. PRINTS TABLES FOR REFERENCE FOLLOWING LISTING. COMMENTS:

PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC.PAGES:1 DATE:05/01/70. ADDITION: INFORMATION:FUNCTIONS INCL. ICOMP,NXTANC. SUBROUTINES INCL. VSCAN, CREF, READCD, READTP, PRINTCD, INPUT, OUTPUT, LFIELD, LSCAN, CRUNCH, SCAN ADDITIONAL

890663 920 SHORT RELOCATING LOADER FOR 920/930

AUTHOR: A. MOFFET, CALTECH ABSTRACT:

TO LOAD ABSOLUTE OR RELOCATABLE OBJECT PAPER TAPES IN STANDARD BINARY FORMAT. THIS LOADER REPLACES
000019 AND IS SHORTENED TO USE LOCATIONS 000 THROUGH 077 ONLY. THUS IT DOES NOT DESTROY THE POP LINKAGE
TABLE AS DOES 000019. THEISTANDARD CONSTANTS! ARE OMITTED. COMMENTS:

LANGUAGE : SYMBOL DOCU. PAGES: 1

890664 920 SATFIX-SATELLITE ANGLE & RANGE COMPUTE

AUTHOR: R.H. GREAVES, RAYTHEON SERVICE CO.

ABSTRACT:

PROGRAM TO COMPUTE ANGLE AND RANGE OF A SATELLITE TO DIRECT A TRACKING SENSOR FOR ACQUISITION PURPOSES.

REQUIRES BO'BI DEVICE, FORTRAN RUNTIME AND KEYBOARD PRINTER. COMMUNICATION HITH PROGRAM IS HRITTEN TO

BE SELF-EXPLANATORY, PROGRAM CAN BE MODIFIED TO HRITE INFORMATION COMPUTED TO AN INPUT FILE TO BE READ

INTO THE SENSOR DRIVE PROGRAM

COMMENTS: PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN II STORAGE:948 DOCU.PAGES:2

900-SERIES AUTHOR: C. KENDALL, XDS 890668 MUSIC - FOR 910/920

ABSTRACT:
PAPER TAPE (PLUS AN FM RECEIVER) COMBINE HITH THE 910/920 TO PRODUCE A MEDLEY OF OVER 25 SONGS. ALSO ALLOHS YOU TO ADD TO REPERTOIRE.

PROGRAM TYPE: PROGRAM LANGUAGE: MACHINE SYSTEM: S/A STORAGE: 2000

890669 900-SERIES 3GO ELECTRONIC CIRCUIT ANALYSIS (ECAP)

AUTHOR: J. HERRELL, MOTOROLA

ABSTRACT:

ECAP IS AN INTEGRATED SYSTEM OF PROGRAMS FOR USE BY ELECTRICAL ENGINEERS IN THE DESIGN AND ANALYSIS OF ELECTRONIC CIRCUITS. ECAP CAN PRODUCE DC, AC, AND/OR TRANSIENT ANALYSES OF ELECTRICAL NETHORKS FROM A DESCRIPTION OF THE CONNECTIONS OF THE NETHORK, A LIST OF CORRESPONDING CIRCUIT ELEMENT VALUES, A SELECTION OF THE TYPE OF ANALYSIS DESIRED. A DESCRIPTION OF THE CIRCUIT EXCITATION, AND A LIST OR OUTPUT DESIRED.

PROGRAM TYPE PROGRAM PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN 11 COMMENTS: 900 SERIES MONARCH WITH 12K CORE. SYSTEM: MONARCH STORAGE: 7118 DOCU. PAGES: 4

2 910 910 TRACE MODIFICATION AUTHOR: T. FINERAN, CHRYSLER CORPORATION 890772

ABSTRACT:

TRACE (CN 851012) HAS BEEN MODIFIED TO TRACE PREVIOUSLY ASSEMBLED PROGRAMS AS HELL AS PROGRAMS THAT CALL TRACE. THE OUPUT FORMAT HAS BEEN CLEANED UP AN POPS AND EXU'S NOW TRACE PROPERLY. COMMENTS:

THIS PROGRAM HILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

920 TRACE MODIFICATION 890773 920

AUTHOR: T. FINERAN, CHRYSLER CORPORATION

ABSTRACT:

TRACE (CN 851012) HAS BEEN MODIFIED TO TRACE PREVIOUSLY ASSEMBLED PROGRAMS AS HELL AS PROGRAMS THAT CALL TRACE. THE OUTPUT FORMAT HAS BEEN CLEANED UP AND POPS AND EXU'S NOW TRACE PROPERLY.

THIS PROGRAM HILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

4 925 TRACE MODIFICATION AUTHOR: T. FINERAN, CHRYSLER CORPORATION

TRACE (CN 851012) HAS BEEN MODIFIED TO TRACE PREVIOUSLY ASSEMBLED PROGRAMS AS HELL AS PROGRAMS THAT CALL TRACE. THE OUTPUT FORMAT HAS BEEN CLEARED UP AND POPS AND EXU'S NOW TRACE PROPERLY. COMMENTS:

THIS PROGRAM HILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

890775 930 TRACE MODIFICATION

AUTHOR: T. FINERAN, CHRYSLER CORPORATION ABSTRACT:

TRACE (CN 851012) HAS BEEN MODIFIED TO TRACE PREVIOUSLY ASSEMBLED PROGRAMS AS HELL AS PROGRAMS THAT CALL TRACE. THE OUTPUT FORMAT HAS BEEN CLEANED UP AND POPS AND EXU'S NOW TRACE PROPERLY.

COMMENTS: THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

9-SERIES FORTRAN FLOWCHARTER 890776

AUTHOR: P. CLAAR, MCDONALD DOUGLAS

ABSTRACT:

THIS PROGRAM CREATES FLONCHARTS OF FORTRAN PROGRAMS ON THE LINE PRINTER. A MAG TAPE UNIT MUST BE AVAILABLE FOR A SCRATCH TAPE DURING PROGRAM EXECUTION.

THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.

890842 9-SERIES SYSGEN 2 - BOO MONARCH

AUTHOR: L. BRENTON, XEROX CORPORATION

ABSTRACT:

THIS MODIFICATION OF SYSGEN 2 PROVIDES THE CAPABILITY OF PUTTING FORTRAN SUBROUTINES INTO THE FORTRAN LIBRARY (FORTLIB).

THIS PROGRAM HILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BASE LANGUAGE

THIS CHANGE IS BASED ON THE BOO VERSION OF RAD MONARCH. THE -74 CARD DECK CONTAINS BOTH THE SYSGEN 1 AND SYSGEN 2 BINARY DECKS AND LABEL CARDS.

890882 SAM9300-SELECTIVE AUTO MONITOR PROGRAM

AUTHOR: G. KOSSUTH, DRAPER LABORATORY

SELECTED REGIONS OF CORE CAN BE TRACED AND OCTAL CORE DUMPS TAKEN PROVIDING DEBUG INFORMATION TO THE METASYMBOL USER. TRACE HILL LIST EITHER OCTAL, FIXED POINT FRACTIONAL OR FLOATING POINT FORMAT. COMMENTS:

THIS PROGRAM WILL RUN UNDER TAPE MONITOR OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

CARD READER/PUNCH DIAGNOSTIC PROGRAM 890884 9300

AUTHOR: C. OGREN, C.S. DRAPER LABORATORY

ABSTRACT:

THIS PROGRAM PUNCHES A BINARY CARD DECK IN A KNOHN PATTERN (FOUR POSSIBILITIES) HHICH CAN BE READ BACK AND CHEKED FOR ERRORS. THE ERRORS ON THE READ PASS ARE OUTPUT HHEN THEY OCCUR, INDICATING THE CARD NUMBER, ROH, COLUMN, AND ERROR TYPE (DROPPED OR PICKED). ADDITIONALLY, THE ERRORS ARE SUMMARIZED AT THE END OF THE READ PASS INDICATING THE NUMBER OF ERRORS IN EACH ROW AND EACH COLUMN. THE READER AND PUNCH MAY BE OPERATED IN EITHER A CONTINUOUS OR START/STOP MODE, HITH A 250 MS DELAY BETHEEN I/O OPERATIONS. COMMENTS:

THIS PROGRAM HILL RUN UNDER BOO TAPE MONITOR. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN FORTRAN.

9-SERIES CLASS 83 PROGRAM SUMMARIES

MAGNETIC TAPE TEST PROGRAM AUTHOR: C. OGREN & E. HARTNETT, C.S. DRAPER LABORATORY

ABSTRACT:

THE PROGRAM PROVIDES FASTER MULTI-TESTING OF MAGNETIC TAPES HITH A MORE CONVENIENT USER-COMPUTER INTERFACE. THE TAPE TEST RESULTS ARE OUTPUT ON THE LINE-PRINTER. THE INFORMATION PROVIDED IS THE NAME OF THE TAPE, THE DATE TESTED, THE LENGTH OF THE TAPE IN FEET, THE NUMBER OF ERRORS, AND A LIST OF THE POSITIONS OF THE ERRORS IN FEET. THE PROGRAM HAS THE FACILITY TO TEST UP TO SEVEN TAPES HITH A MINIMUM OF USER ATTENTION.

COMMENTS:

THIS PROGRAM HILL RUN UNDER BOD TAPE MONITOR OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN FORTRAN.

16K DGC NOVA SIMULATOR 890886

AUTHOR: J. GARMIL, A. VIRET, G. KOSSUTH ABSTRACT:

A BIT BY BIT DIGITAL SIMULATION OF A DATA GENERAL NOVA LINE COMPUTER WITH EXTENSIVE DEBUG CAPABILITY MAS BEEN DEVELOPED FOR PROGRAM CHECKOUT. FEATURES INCLUDE ADDRESS STOP, EFFECTIVE ADDRESS STOP, TRACE AND MEMORY DUMP HITH 16K SIMULATED MEMORY AND TTI, TTO, PTR, PTP, PTP, RTC, LPT, DEVICES SIMULATED. THE CPURUNS APPROXIMATELY 100 TIMES SLOWER THAN REAL-TIME.

THIS PROGRAM WILL RUN UNDER TAPE MONITOR OPERATING SYSTEM. PROGRAM TYPE IS SIMULATOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN AND METASYMBOL.

96 900-SERIES 9-SERIES MAG TAPE DIAGNOSTICS AUTHOR:T. CHAPMAN, XEROX CORPORATION

A TAPE WHICH CONTAINS ALL EXISTING 9-SERIES DIAGNSOTICS WITH AN EASY-TO-USE INDEXING AND LOADING SCHEME. FEATURES INCLUDE, 'H' AND 'Y' CHANNEL UNIVERSAL LOADERS, LISTABLE CATALOG NUMBERS ON LINE PRINTER OR TELETYPE, LISTABLE OPERATING INSTRUCTIONS FOR ALL DIAGNOSTICS, AND MANY C.E. ORIENTED SERVICE ROUTINES.

THIS PROGRAM WILL RUN UNDER DCP OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

OPERATES UNDER MINIMUM CONFIGURATION OF BK MEMORY FOR 900/9300 SYSTEMS, AND 4K MEMORY FOR 92 SYSTEMS HITH ONE MAG TAPE UNIT AND TELETYPE. THIS UPDATE IS FOR PROGRAM CORRECTIONS AND ADDITIONS. TAPE VERSION IS NOW A01.

890963 9-SERIES MAGTP
AUTHOR:A. MOFFET-CAL. INST. OF TECH., L. BRENTON-XEROX CORPORATION

AUTHOR:A. HOPFET-CAL. 1831. OF IECH., L. BRENION-ZEROZ CURPORATION

ABSTRACT:

HAGTP IS A MODIFICATION TO THE MONARCH MAG TAPE ROUTINES WHICH SPEEDS UP MAG TAPE OPERATIONS BY KEEPING

THE TAPE MCVING DURING ALL MULTI-RECORD TAPE OPERATIONS, IT DOES NOT DISCONNECT THE TAPE UNIT AFTER

EVERY RECORD. THE TAPE IS KEPT MOVING ON ANY MULTI-RECORD OPERATION WITH A SIGNIFICANT DECREASE IN TIME

REQUIRED TO COMPLETE THE OPERATION (AS MUCH AS 50% IN THE CASE OF BCD CARD IMAGES ON 800 BPI TAPE). COMMENTS:

THIS PROGRAM HILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.

890964 9-SERIES HTAPE

AUTHOR: A. MOFFET-CAL. INST. OF TECH., L. BRENTON-XEROX CORPORATION

ABSTRACT:
MTAPE IS A MODIFICATION TO THE MONARCH MAG TAPE ROUTINES WHICH SPEEDS UP MAG TAPE OPERATIONS BY KEEPING THE TAPE MCVING DURING ALL MULTI-RECORD TAPE OPERATIONS, IT DOES NOT DISCONNECT THE TAPE UNIT AFTER EVERY RECORD. THE TAPE IS KEPT MOVING ON ANY MULTI-RECORD OPERATION WITH A SIGNIFICANT DECREASE IN TIME REQUIRED TO COMPLETE THE OPERATION (AS MUCH AS 50% IN THE CASE OF BCD CARD IMAGES ON 800 BPI TAPE). COMMENTS:

THIS PROGRAM HILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN SYMBOL.

890965 9-SERIES SYMBOL

AUTHOR: A. MOFFET-CAL.INST. OF TECH., L. BRENTON-XEROX CORPORATION

AUTHOR:A. MOFFET-CAL.INST. OF TECH., L. BRENTON-ZEROX COMPORATION
ABSTRACT:
SYMBOL IS A MODIFICATION THAT IMPROVES THE SYMBOL ASSEMBLER IN MANY MAYS. OPTIONS ADDED INCLUDE A
SECOND PASS FROM SI DEVICE, LIST-ONLY ERROR LINES, AND MULTIPLE ASSEMBLES MITHOUT GOING BACK TO
MONARCH. IMPROVEMENTS INCLUDE EDITING CARRIAGE RETURNS, TABS, AND BACKSPACES OUT OF BCD AND TEXT
STATEMENTS, SEQUENCE NUMBERS ON CARDS FOR BO, AND FIVE INCHES OF BLANK TAPE ON PAPER TAPE BO.

COMMENTS:
THIS PROGRAM HILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.

850639 PAPER TAPE PHOTO-READER TEST PROGRAM 9-SERIES AUTHOR: XEROX ABSTRACT:
TO TEST THE OPERATIONAL CHARACTERISTICS OF A PAPER TAPE PHOTO READER.

SIZE 340 DECIMAL. CONFIGURATION: ANY 920 OR 910 HITH TYPEHRITER

850640 9-SERIES

SEMI-AUTOMATIC TYPEHRITER TEST (SATT)

AUTHOR: XEROX ABSTRACT:

TO PROVIDE A MEANS OF EXERCISING AND CHECKING KEYBOARD INPUT AND PRINTER OUTPUT CAPABILITIES OF THE TYPEHRITER WHEN USED IN THE ON-LINE MODE.

SOURCE LANGUAGE: META-SYMBOL. SIZE 267 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH TYPEWRITER.

850655 9-SERIES PHOTO READER TEST PROGRAM

AUTHOR: XEROX ABSTRACT:

THIS PROGRAM IS DESIGNED TO EXERCISE THE PHOTO READER AND TO TEST ITS OPERATION IN CONTINUOUS AS WELL AS STOP-START MODES OF OPERATION. THE OPERATOR MAY VARY THE TIME CONSTANTS CONTROLLING THE STOP AND START TO TEST EXTREME CONDITIONS. COMMENTS:

SIZE 146 CECIMAL. CONFIGURATION: ANY 910,920, OR 930 HITH A PHOTO READER

850656 9-SERIES 900 SERIES CARD READER TEST PROGRAM

AUTHOR: XEROX

ABSTRACT:

TO VERIFY THE OPERATION OF THE XDS 9151 OR 9152 CARD READER. COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE 535 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A CARD PUNCH.

850657 CARD PUNCH TEST PROGRAM PACKAGE -9156 9-SERIES

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 9156 CARD PUNCH SYSTEM. COMMENTS:

JUNEAUS: SIZE 172 DECIMAL. SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: ANY XDS 920/930 OR 910/925 WITH A Typehriter, and XDS model 9151 or 9152 Card Reader on Channel A (W). Interlace is not used.

850658 9-SERIES CARD PUNCH TEST PROGRAM -9157

AUTHOR: XEROX

ABSTRACT:
SIZE 223 DECIMAL. CONFIGURATION: XDS 920 OR XDS 910 HITH MODEL 9156 CARD PUNCH SYSTEM. FOR THE VERIFY

TEST, AN XDS MODEL 9151 CARD READER AND A TYPEHRITER ARE REQUIRED.

9-SERIES CARD PUNCH TEST PROG/MOD.9157(INTERLACE) AUTHOR: XEROX

ABSTRACT:

TO PROVIDE A MEANS OF TESTING THE CARD PUNCH.

SOURCE LANGUAGE: META-SYMBOL. SIZE 608 DECIMAL. CONFIGURATION: ANY 910, 920, 925, OR 930 HITH MODEL 9157 CARD PUNCH COUPLER SYSTEM.

850660 9-SERIES STANDARD CARD READER TEST DECK PROGRAM

AUTHOR: XEROX

DOCUMENT STANDARD TEST CARD DECK FOR CARD READER TEST PROGRAM.

CONFIGURATION: ANY 900/9300 SERIES COMPUTER.

850661 9-SERIES 9158 CARD PUNCH TEST PROGRAM

AUTHOR: XEROX

ABSTRACT:
TO PROVIDE A MEANS OF TESTING THE CARD PUNCH.

COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 230 DECIMAL. CONFIGURATION: ANY 925/930 COMPUTER WITH MODEL 9158
CARD PUNCH COUPLER SYSTEM. (WITHOUT INTERLACE AND EXTENDED MODE)

9-SERIES 850670

EXAMINER DIAGNOSTIC SYSTEM 910/920-COVER

AUTHOR: XEROX

ABSTRACT:

THE EXAMINER 910/920 SYSTEM IS COMPLETE DIAGNOSTIC PACKAGE DESIGNED TO GIVE THE OPERATOR THE ABILITY TO EXERCISE AND/OR DIAGNOSE THE MEMORY, THE COMPUTER LOGIC, THE BUFFER AND SOME ASSOCIATED PERIPHERAL EQUIPMENT. THE ENTIRE SYSTEM IS ON ONE TP TAPE FOR EASE OF HANDLING.

COMMENTS:
ALL OF THE ABOVE-MENTIONED TESTS, EXCEPT THE MEMORY TESTS, ARE INCLUDED IN ONE PROGRAM, (MODEL NO. 850870). THE MEMORY PROGRAM MUST BE SEPARATE DUE TO THE NATURE OF THE PROCEDURE. SEE MANUAL 900019: 910/920 EXAMINER DIAGNOSTIC SYSTEM.

850671

9-SERIES

INSTRUCTION DIAGNOSTIC

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM AIDS IN DIAGNOSING FAULTY COMPUTERS BY VERIFYING PROPER EXECUTION OF COMPUTER LOGIC.

COMMENTS:

THIS PROGRAM IS PART OF THE 910/920 EXAMINER DIAGNOSTIC SYSTEM MODEL NUMBER 850870. SEE MANUAL NUMBER 900019: 910/920 EXAMINER DIAGNOSTIC SYSTEM TECH MANUAL.

850672

9-SERIES

MEMORY DIAGNOSTIC

AUTHOR: XEROX

ABSTRACT:

THE PROGRAM EXERCISES MEMORY IN THE MOST STRENUOUS MANNER POSSIBLE, MONITORS THE MEMORY FOR ERRORS WHILE EXPOSED TO SUCH CONDITIONS, AND AIDS THE OPERATOR IN DIAGNOSING MEMORY FAILURES.

MEMORY DIAGNOSTIC IS AVAILABLE ON A SEPARATE TAPE, AND IS ALSO AVAILABLE AS PART OF EXAMINER DIAGNOSTIC SYSTEM MODEL NUMBER 850670. SEE MANUAL 900019: 910/920 EXAMINER DIAGNOSTIC SYSTEM TECH MANUAL.

850673

9-SERIES

15KC MAG TAPE TEST-INTERUPT AND INTRLACE

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM AIDS IN TESTING THE INPUT/OUTPUT CAPABILITIES OF THE 9140 OR 9145 MAGNETIC TAPE UNIT USING INTERRUPT AND/OR INTERLACE.

SIZE: 640 DECIMAL. CONFIGURATION: ANY XDS 910 OR 920 HITH ONE 9140 OR 9145 MAGNETIC TAPE UNIT.

850674

9-SERIES

MAGNETIC TAPE SYSTEM EXERCISER-15KC

AUTHOR: XEROX

ABSTRACT:

TO EXERCISE A TAPE UNIT BY HRITING A FILE CONSISTING OF RANDOM NUMBERS IN RANDOM LENGTH RECORDS BETMEEN

TO EXERCISE A TAPE UNIT BY HRITING A FILE CONSISTING OF RANDOM NUMBERS IN RANDOM LENGTH RECORDS BETMEEN

64 AND 4092 CHARACTERS IN LENGTH AND READING THIS FILE BACK CHECKING FOR ERRORS. COUNTERS SHOHING THE

NUMBER OF ERRORS OR PASSES OVER THE TAPE ARE PRINTED OR PUNCHED WHENEVER AN ERROR OCCURS OR AT THE END OF A PASS.

SIZE: 1024 DECIMAL. CONFIGURATION: EITHER 910 OR 920 HITH ONE TAPE CONNECTED TO THE H BUFFER. TYPEHRITER IS USED TO PRINT RESULTS, BUT IS NOT NECESSARY FOR PROGRAM CONTROL.

850675

9-SERIES

15KC MAGNETIC TAPE TEST

AUTHOR: XEROX

ABSTRACT:
TO PROVIDE A SIMPLE AND EASY MEANS FOR INITIAL CHECKOUT AND TESTING OF 15KC MAGNETIC TAPE UNITS.

COMMENTS:
SIZE: 592 DECIMAL. CONFIGURATION: ALL XDS 920 SYSTEMS AND ANY 910 HITH A TYPEHRITER WHICH HAVE ONE OR MORE MAGNETIC TAPE UNITS CONNECTED TO THE W BUFFER.

850676

9-SERIES

9-SERIES

MULTI-MAGNETIC TAPE SYSTEM EXERCISER

AUTHOR: XEROX

STRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE FROM ONE TO SIXTEEN TAPE UNITS BY FIRST WRITING RANDOM NUMBERS IN
RANDOM LENGTH RECORDS ON ALL TAPES UNDER TEST AND THEN READING THESE RECORDS BACK AND COMPARING THEM
WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING
THE ERRORS MADE, IF ANY, THE MODE OF OPERATION OF EACH UNIT, AND THE NUMBER OF PASSES OVER THE TAPE. ABSTRACT:

COMMENTS:
SIZE 1155 DECIMAL. CONFIGURATION: ALL 820, 925 AND 930 SYSTEMS. OR ANY 910 SYSTEMS HITH A TYPEHRITER,
SIZE 1155 DECIMAL. CONFIGURATION: ALL 820, 925 AND 930 SYSTEMS. OR ANY 910 SYSTEMS HITH A TYPEHRITER,
HHICH HAVE ONE TO SIXTEEN TAPE UNITS ATTACHED TO THE H AND / OR Y BUFFERS. NO INTERLACE IS REQUIRED AND
THE TAPES MAY BE OF ANY DENSITY AND SPEED HITHIN THE LIMITATIONS OF THE BUFFER TO WHICH THEY ARE ATTACHED.

850679

MAGNETIC TP EXERCISER.2 TP SYTM-15KC

AUTHOR: XEROX

ABSTRACT:

TO ALTERNATELY EXERCISE THO TAPE UNITS (NO. 0 AND NO. 4) BY HRITING A FILE CONSISTING OF RANDOM NUMBERS
IN RANDOM LENGTH RECORDS BETHEEN 64 AND 4092 CHARACTERS IN LENGTH ON ONE TAPE, READING THIS FILE BACK
CHECKING FOR ERRORS AND THEN DOING THE SAME ON THE SECOND TAPE. COUNTERS SHOHING THE NUMBER OF ERRORS OR
PASSES OVER THE TAPE ARE PRINTED OR PUNCHED HHENEVER AN ERROR OCCURS OR AT THE

END OF A PASS. SIZE: 1024 DECIMAL. CONFIGURATION:EITHER 910 OR 920 HITH ONE OR THO TAPES CONNECTED TO M BUFFER. TYPEWRITER IS USED TO PRINT RESULTS, BUT IS NOT NECESSARY FOR PROGRAM CONTROL. COMMENTS:

PAGE 2 - 01/31/75

9-SERIES CLASS 83 DIAGNOSTIC SUMMARIES

850681

9-SERIES

42KC MAGNETIC TAPE TEST PROGRAM Y BUFFER

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE A SIMPLE AND EASY MEANS FOR INITIAL CHECKOUT AND SUBSEQUENT TESTING OF TAPE UNITS. COMMENTS:

OFFICIALS: SIZE:593 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES HITH A TYPEHRITER AND ONE OR MORE MAGNETIC TAPE UNITS OF ANY TYPE EXCEPT 9145 ATTACHED TO THE Y BUFFER. THE BUFFER MUST BE INTERLACED.

850682

900-SERIES

42KC MAG TAPE SYS EXERCISER, Y BUF

AUTHOR: XEROX

ABSTRACT:

ASTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE FROM ONE TO EIGHT TAPE UNITS BY FIRST HRITING RANDOM NUMBERS IN
RANDOM LENGTH RECORDS ON ALL TAPES UNDER TEST AND THEN READING THESE RECORDS BACK AND COMPARING THEM
HITH THE NUMBERS HRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING
THE ERRORS MADE, IF ANY, THE MODE OF OPERATION OF EACH UNIT, AND THE NUMBER OF PASSES OVER THE TAPE. COMMENTS:

SIZE 990 DECIMAL. CONFIGURATION: ALL 920 SYSTEMS, OR ANY 910 HITH TYPEHRITER, HHICH HAVE ONE OR MORE TAPE UNITS ATTACHED TO THE Y BUFFER THROUGH A 9248 TAPE CONTROL UNIT. THE Y BUFFER MUST HAVE A 9121 INTERLACE CONTROL ATTACHED.

850691

9-SERIES

BUFFERED LINE PRINTER TEST PROGRAM

AUTHOR: XEROX

ABSTRACT:
A SELF LOADING PROGRAM TO PERMIT VERIFICATION OF THE 9174 AND 9179 PRINTER 1 (H-BUFFER) ON A 910 OR 920. INTERLACE IS NOT REQUIRED. COMMENTS:

SOURCE LANGUAGE:SYMBOL 8. SIZE: 1161 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER HITH AN XDS BUFFERED LINE PRINTER, USING 8 CHANNEL FORMAT TAPE FOR SKIPPING.

850692

9-SERIES

OFF-LINE PRINTER TEST

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE A MEANS FOR TESTING THE OFF-LINE OPERATION OF THE PRINTER. COMMENTS:

SIZE: 406 DECIMAL. CONFIGURATION: ANY 910, 920, OR 930 WITH A TYPEHRITER, PRINTER WITH OFF-LINE FEATURE, AND TAPE UNIT OR CARD READER ATTACHED TO THE W BUFFER.

850693

9-SERIES

BUFFERED PRINTER DIAGNOSTIC

AUTHOR: XEROX

ABSTRACT:

PROVIDE A COMPREHENSIVE TEST OF THE BUFFERED LINE PRINTER BY GENERATING SPECIFIED CHARACTER PATTERNS AND TESTING THE RESPONSE OF THE PRINTER TO NORMAL COMMANDS. COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 1290 DECIMAL. CONFIGURATION: ANY XDS 910, 920, 925, OR 930 COMPUTER WITH A BUFFERED LINE PRINTER CONNECTED TO THE W OR Y BUFFER, AND WITH A TYPEWRITER CONNECTED TO THE W

850694

9-SERIES

UNBUFFERED LINE PRINTER TEST

AUTHOR: XEROX

AUTHOR: AEROA
ABSTRACT:
PROVIDE A TEST OF THE MODEL 9372 PRINTER BY GENERATING SPECIFIED PRINT PATTERSN AND MONITORING THE
PRINTER'S RESPONSE TO PROGRAM GENERATED COMMANDS.

SOURCE LANGUAGE: META-SYMBOL. SIZE 1510 DECIMAL. CONFIGURATION: ANY XDS 910, 920, 925, OR 930 COMPUTER With a model 9372 line printer connected to channels w or y and a typewriter connected to channel w.

850695

9-SERIES

42KC MAGNETIC TAPE TEST PROGRAM, H BUFFER

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE A SIMPLE AND EASY MEANS FOR INITIAL CHECKOUT AND TESTING OF 42KC MAGNETIC TAPE UNITS. COMMENTS: SIZE 587 DECIMAL.

SIZE 587 DECIMAL. ANY 900 SERIES HITH A TYPEHRITER AND ONE OR MORE MAGNETIC TAPE UNITS OF ANY TYPE EXCEPT 9145 ATTACHED TO THE M BUFFER. THE BUFFER MUST BE INTERLACED.

850696

9-SERIES

42KC MAGNETIC TAPE EXERCISER, H BUFFER

AUTHOR: XEROX ABSTRACT:

ISTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE FROM ONE TO EIGHT TAPE UNITS BY FIRST HRITING RANDOM NUMBERS IN
RANDOM LENGTH RECORDS ON ALL TAPES UNDER TEST AND THEN READING THESE RECORDS BACK AND COMPARING THEM
HITH THE NUMBERS HRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING
THE ERRORS MADE, IF ANY, THE MODE OF OPERATION OF EACH UNIT, AND THE NUMBER OF PASSES OVER THE TAPE. COMMENTS:

SIZE 990 DECIMAL. CONFIGURATION: ALL 920 SYSTEMS (OR 910 HITH TYPEHRITER) HHICH HAVE ONE OR MORE TAPE UNITS ATTACHED TO THE H BUFFER THROUGH A 9248 TAPE CONTROL UNIT. THE H BUFFER MUST HAVE A 9121 INTERLACE CONTROL ATTACHED.

9-SERIES 850699

CALCOMP PLOTTER TEST

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 9175-78 INCREMENTAL PLOTTER.

COMMENTS:

SIZE 265 DECIMAL. CONFIGURATION: ANY 910/920 COMPUTER WITH XDS MODEL 9175-76 INCREMENTAL PLOTTER.

850702

9-SERIES

P + S REGISTER TESTER

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM EXERCISES THE P AND S REGISTERS AND THE DATA FLOW BETHEEN THE P.S AND C REGISTERS, BY ACCESSING EVERY CELL IN MEMORY NOT USED BY THE PROGRAM WITH A BRM OR A BRR WHILE TESTING FOR CORRECT RESPONSE AFTER THE ACCESS. THE IA FLIP-FLOP WHICH IS USED TO INCREMENT THE P AND C REGISTERS DURING BRM AND BRR IS ALSO RIGOROUSLY EXERCISED.

THIS PROGRAM IS PART OF THE 910/920 EXAMINER DIAGNOSTIC SYSTEM, MODEL NUMBER 850870.

850703

9-SERIES

910/920/925 DIAGNOSTIC CONTROL PROGRAM

AUTHOR: XEROX ABSTRACT:

STRACT:
THE PURPOSE OF THIS DIAGNOSTIC CONTROL PROGRAM IS TO PROVIDE THE CONTROL INTERFACE, VIA THE TEST
LANGUAGE INTERPRETER, FOR SUBROUTINES THAT DRIVE A PERIPHERAL DEVICE AND TO CONTROL SUBROUTINE
INTERACTIVE FUNCTIONS. BY DESCRIBING THE STRUCTURE OF THE TEST LANGUAGE THAT THE OPERATOR HILL USE IN
ACTIVATING THE DCP, THIS DOCUMENT PROVIDES THE OPERATOR HITH A PERIPHERALINDEPENDENT ON-LINE MEANS OF
DIRECTING THE SEQUENCE OF EVENTS PERFORMED UPON THE PERIPHERAL DEVICE. THIS PROGRAM IS ALSO A SOURCE
REFERENCE FOR DESCRIBING THE SUBROUTINES WHICH MUST BE ASSEMBLED HITH THE DCP, IF IT IS TO COMPRISE A
FREE-STANDING TEST PROGRAM.

850711

9-SERIES

PRIORITY INTERRUPT TEST

AUTHOR: XEROX

ABSTRACT:

FOR USE IN CONJUNCTION HITH A SPECIAL TEST CARD TO FACILITATE TESTING OF PRIORITY INTERRUPTS DURING PRODUCTION OR FIELD MAINTENANCE. OPTIONAL MODES OF TESTING ARE PROVIDED SO THAT THE PROGRAM MAY BE USED AS A THROUGH, AUTOMATIC GO - NO - GO TEST OR AS A SEMIAUTOMATIC DIAGNOSTIC AID.

SIZE 500 DECIMAL. CONFIGURATION: ANY 910/920 COMPUTER.

850712

UNBUFFERED LINE PRINTER TEST PROGRAM

9-SERIES AUTHOR: XEROX

ABSTRACT:

TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS HODEL 9170 LINE PRINTER.

850718

9-SERIES

9161 DRUM HEMORY TEST PROGRAM

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 9161-N DRUM MEMORY SYSTEM.

COMMENTS:

SIZE 1817 DECIMAL. CONFIGURATION: ANY XDS 910 OR 920 WITH TYPEHRITER AND AN XDS MODEL 9161-N DRUM MEMORY SYSTEM AND AN INTERLACED M-BUFFER. THE ''N'' SIGNIFIES THE SIZE OF THE DRUM.

850717

9-SERIES

1622 CARD READ/PUNCH TEST PROGRAM

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 1822 CARD READ/PUNCH.

SOURCE LANGUAGE: SYMBOL B. SIZE 474 DECIMAL. CONFIGURATION: ANY XDS 910 OR XDS 920 COMPUTER WITH Typehriter and an 18m 1622 card reader and punch.

850720

POWER FAIL-SAFE INTERRUPT TESTER

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE A PROGRAM TO TEST THE POHER FAIL-SAFE INTERRUPT SYSTEM.

CONFIGURATION: ANY 910, 920, OR 930.

850721

9-SERIES

ARM/DISARM FEATURE CHECKOUT

AUTHOR: XEROX ABSTRACT:

TO CHECK OUT, THOROUGHLY, THE OPERATION OF THE ARM-DISARM FEATURE.

SIZE 1652 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH TYPEHRITER. 1 TO 896 CHANNELS OF SYSTEM INTERRUPTS AND THE ARM-DISARM FEATURE.

9-SERIES CLASS 83 DIAGNOSTIC SUMMARIES

850722

9-SERIES

FRANKLIN PRINTER TEST PROGRAM

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE A MEANS OF TESTING THE FRANKLIN PRINTER FOR PROPER OPERATION.

COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE 867 DECIMAL. CONFIGURATION: ANY 910 OR 920 COMPUTER WITH 1,2, OR 3

850724

9-SERIES

9158 CATHODE-RAY TUBE DISPLAY TEST PROG.

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE: A MEANS OF CHECKING OUT AND ADJUSTING THE DISPLAY COUPLER AND DISPLAY UNIT ALONG HITH ANY OF
THE OPTIONAL DEVICES SUCH AS VECTOR GENERATOR, CHARACTER GENERATOR, OR LIGHT GUN.
COMMENTS:

UNITERIS:
SIZE 4095 DECIMAL. SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A MODEL
9185-01 DISPLAY COUPLER AND A DISPLAY UNIT USING ONE OF THE FOLLOWING CHANNEL CONFIGURATION: XDS 910 OR
920: 24-BIT Y BUFFER OR PARALLEL INPUT-PARALLEL OUTPUT (PIN-POP) CONNECTOR. XDS 925 OR 930: TMCC
WITH 24-BIT CHARACTER SIZE OPTION OR ANY DACC OR PIN-POT CONNECTOR. A PAPER TAPE READER OR CARD READER
ON CHANNEL WIS REQUIRED FOR PROGRAM LOADING. A TYPEHRITER ON CHANNEL WIS REQUIRED FOR OPERATOR-COMPUTER COMMUNICATION.

850725

9-SERIES

RAD APOCALYPTIC DIAGNOSTIC (RAD)

AUTHOR: XEROX

ABSTRACT:
TO PROVIDE A COMPREHENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF RAD'S.

COMMENTS:

JOHENIS: SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: AN XDS MODEL 910 OR 920 COMPUTER HITH A TYPEHRITER (NO. 1) ATTACHED_TO THE H-BUFFER AND ONE OR MORE (9366) RAD'S ATTACHED TO A 24 BIT Y BUFFER HITH A 9321 INTERLACE.

850726

9-SERIES

MODEL 9333 7 OR 8 LEVEL PAPER TAPE TEST

AUTHOR: XEROX

ABSTRACT:

THE PROGRAM IS DESIGNED TO VERIFY THE CAPABILITIES OF THE READER AND PUNCH MECHANISM AND ELECTRONICS. IT IS SUGGESTED THAT THE APPROPRIATE 7-LEVEL PAPER TAPE TEST PROGRAM BE USED TO EXERCISE THE SPOOLER MECHANISM AND THE START-STOP CHARACTERISTICS OF THE PINCH ROLLER.

SOURCE LANGUAGE: META-SYMBOL. SIZE 861 DECIMAL. CONFIGURATION: ANY XDS 910,920, 925 OR 930 COMPUTER WITH A MINIMUM OF 2K OF MEMORY, A TYPEWRITER, AND A MODEL 933 7- OR 8-LEVEL PAPER TAPE READER AND PUNCH, CONNECTED AS UNIT NUMBER 1 AND 2 TO A H OR Y BUFFER. INTERLACE IS NOT USED.

850727

9-SERIES

9185 CATHODE RAY TUBE DISPLAY UNIT/S RE!

AUTHOR: XEROX

ABSTRACT

TO PROVIDE A MEANS OF CHECKOUT AND ADJUSTMENT OF THE OSCILLOSCOPE COUPLER, DISPLAY UNIT, AND REFRESH MEMORY.

COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 910 COMPUTER WITH A MODEL 9185 CRT + STE-10 REFRESH MEMORY ATTACHED TO THE Y BUFFER. THE PROGRAM REQUIRES INTERLACE FEATURE TO BE PRESENT. A PAPER TAPE READER OR CARD READER ATTACHED TO THE W BUFFER IS REQUIRED FOR PROGRAM LOADING. A TYPEWRITER ATTACHED TO THE W BUFFER IS REQUIRED FOR OPERATOR-COMPUTER COMMUNICATION.

850735

9-SERIES

PRIORITY INTERRUPT SOURCE TEST

AUTHOR: XEROX

ABSTRACT

TO INDICATE HHICH PRIORITY INTERRUPTS ARE BEING RECEIVED ONLY INTERRUPTS 200-237 ARE CONSIDERED.

SIZE 2048 DECIMAL. COMFIGURATION: ANY XDS 910 OR 920 HITH TYPEHRITER AND EXTRA INTERRUPTS.

850739

9-SERIES

ANALOG COMPARISON TEST

AUTHOR: XEROX

ABSTRACT:
INPUTS TEN SETS OF ANALOG DATA AT A 400 CYCLE RATE AND COMPARES LAST NINE DATA SETS WITH THE INITIAL

SIZE:260 DECIMAL. CONFIGURATION: ANY XDS 910 OR 920 WITH TYPEWRITER, AN AD10-9 CONVERTER, MU31-4 20-CHANNEL MULTIPLEXER, AND 9128 PRIORITY INTERRUPT CONTROL. AN ADIO-9 ANALOG TO DIGITAL

850741

PATCH, PROGRAMMED ANALOG TOTAL CHECK

AUTHOR: XEROX

ABSTRACT:

THIS COMPILER-RUN TIME COMBINATION PROVIDES ON-LINE STATIC AND OFF-LINE DYNAMIC CHECK VALUES FOR VERIFICATION OF HYBRID AND ANALOG COMPUTER SOLUTIONS. THE ON-LINE STATIC CHECK ALSO PROVIDES FOR ANALOG COMPONENT DIAGNOSTICS.

SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: 900 SERIES REAL-TIME MONITOR

850743 JPL HSDL TEST PROGRAM

AUTHOR: XEROX

AUTHOR: XENUX
ABSTRACT:
THE PROGRAM TESTS THE TRANSFER OF DATA TO AND FROM THE HSDL UNIT VIA THE COMPUTER'S POT AND PIN LINES.
DATA HORDS ARE SENT OUT AND COMPARED HITH THE WORDS RETURNED. IF THE THO ARE NOT IDENTICAL, AN ERROR
MESSAGE IS PRINTED. THE PROGRAM IS SELF-LOADING.

OPTIONS ARE PROVIDED TO SEND 24 BIT OR 12 BIT PSEUDO-RANDOM NUMBERS. OR TO ALLOW OPERATOR INPUT OF DATA

850744 920 JPL HSDL COUPLER EXERCISER

AUTHOR: XDS DATA SYSTEMS

ABSTRACT:

EXERCISES THE JPL ASDL COUPLER IN TEST MODE BY REPEATEDLY TRANSMITTING, RECEIVING, AND COMPARING A SYNCH-HEADER WORD AND A DATA WORD. BOTH WORDS CAN BE VARIED BY THE OPERATOR. COMPARISON, INTERRUPT, AND SKS ERRORS ARE REPORTED ON THE TYPEWRITER.

CONFIGURATION: ASDL, PAPER TAPE READER, TELETYPE AND 910 OR 920 COMPUTER.

9TK EXTEND MODE MULTI-MAG TAPE EXERCISER 850755

AUTHOR: XEROX

ABSTRACT:
PURPOSE: THE PROGRAM IS DESIGNED TO EXERCISE 1 TO 8 MAGNETIC TAPES ON CHANNELS A THROUGH H.(1 TAPE PER CHANNEL) THE EXERCISER OPERATES UNDER INTERRUPT CONTROL IN THE EXTENDED MODE USING ALL FUNCTION CODES, SKS'S AND EMOS ASSOCIATED WITH THE CHANNEL AND MAGNETIC TAPE.

COMMENTS:

MINIMUM SYSTEM CONFIGURATION: 8K MEMORY KEYBOARD/PRINTER CARD READER OR PAPER TAPE READER 1 TO 8 MODEL
95489 STRACK MAGNETIC TAPE SYSTEMS

850901 9-SERIES 910/925 STANDARD ANALOG TEST PROGRAM

AUTHOR: YEROY

ABSTRACT:

TO CALIBRATE AND TEST ANALOG I/O EQUIPMENT.

COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE 12288. CONFIGURATION: ANY 910/925 WITH ASSOCIATED ANALOG 1/0 EQUIPMENT, TYPEHRITER AND PAPER TAPES 1/0.

930 EXAMINER DIAGNOSTIC SYSTEM (COVER) 851048 9-SERIES

AUTHOR: XEROX

ABSTRACT:

SEE MANUAL NO. 900097: 920/930 EXAMINER DIAGNOSTIC TECHNICAL MANUAL VOL. I AND II.

THIS PROGRAM COVERS CATALOG NO.S 851049,851050 AND 851051.

851049 9-SERIES 930 EXAMINER MEMORY DIAGNOSTIC

AUTHOR: XEROX

ABSTRACT:

TO EXERCISE HEMORY WITH A CHECKERBOARD MEMORY WORD PATTERN; TO MONITOR MEMORY FOR ERRORS AND AID IN DIAGNOSING MEMORY FAILURES.

COMMENTS:

SOURCE LANGUAGE: SYMBOL B ASSEMBLER. CONFIGURATION: XDS 930. THIS PROGRAM IS PART OF CATALOG NO. 851048 (COVER). SEE MANUAL 900097, 930 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. VOL. 1+11.

851050 9-SERIES 930 EXAMINER INSTRUCTION DIAGNOSTIC

AUTHOR: XEROX

ABSTRACT:

TO AID IN DIAGNOSING COMPUTER FAULTS BY VERIFYING PROPER EXECUTION OF COMPUTER LOGIC.

SOURCE LANGUAGE: SYMBOL 8 ASSEMBLER, CONFIGURATION: XDS 930 THIS PROGRAM IS PART OF CATALOG NO. 851048 (COVER). SEE MANUAL 900097, 930 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. VOL. 1 + 11.

851051 9-SERIES 930 EXAMINER P AND S REGISTER TESTER

AUTHOR: XEROX

TO EXERCISE THE P AND S REGISTERS BY STORING AND EXECUTING BRM'S THROUGHOUT MEMORY. BY COMPARING THE ''MARK'' OF THE BRM HITH AN EXPECTED VALUE, THE PROGRAM CHECKS WHETHER THE COMPUTER STORED THE CORRECT LOCATION. THEREFORE, THE TEST CHECK WHETHER THE P AND S REGISTERS FUNCTIONED PROPERLY. COMMENTS:

FORTHER STATES AND BECAUSE BASSEMBLER. CONFIGURATION: XDS 930. THIS PROGRAM IS PART OF CATALOG NO. 851048 (COVER). SEE MANUAL 900097, 930 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. VOL. 1+11.

9-SERIES CLASS B3 DIAGNOSTIC SUMMARIES

851052 9-SERIES 930 BIG MEMORY ADDRESSING TEST

AUTHOR: XEROX ABSTRACT:

THIS DIAGNOSTIC VERIFIES THE ABILITY OF A 930 (20K OR LARGER) TO UNIQUELY ACCESS EVERY LOCATION IN CORE VIA BOTH THE 'MEMORY EXTENSION REGISTERS' AND THE '91903 MEMORY ADDRESS EXTENSION' OPTION.

851054 9-SERIES MTE-1 MAGNETIC TAPE EXERCISER

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM IS DESIGNED TO EXERCISE THE MAGNETIC TAPE UNIT BY FIRST HRITING RECORDS OF RANDOM NUMBERS AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS HRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, AND THE NUMBER OF PASSES OVER THE TAPE

COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE 6120 DECIMAL. CONFIGURATION: XDS 930 COMPUTER HITH A 24-BIT EXTENDED H BUFFER TELETYPE TYPEHRITER CONNECTED TO THE H BUFFER, AND AN MTE-1 MAGNETIC TAPE TRANSPORT CONNECTED TO THE W BUFFER.

851055

55 9-SERIES AUTHOR: XER()X

MTE-3 MAG TAPE EXERCISOR, 3 CHAR MODE

ABSTRACT:

THIS PROGRAM IS DESIGNED TO EXERCISE THE MAG TAPE UNIT BY FIRST HRITING RECORDS OF RANDOM NUMBERS AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE ANDOUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, AND THE NUMBER OF PASSES OVER THE TAPE.

COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 930 COMPUTER HITH A 24-BIT EXTENDED H BUFFERTELETYPE
TYPEHRITER CONNECTED TO THE H BUFFER, AND A MTE-3 MAGNETIC TAPE TRANSPORT CONNECTED TO THE H BUFFER.

851056

HTE 3 MAG TAPE EXERCISOR 4 CHAR MODE

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM IS DESIGNED TO EXERCISE THE MAGNETIC TAPE UNIT BY FIRST WRITING RECORDS OF RANDOM NUMBERS AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, AND THE NUMBER OF PASSES OVER THE TAPE.

COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 930 COMPUTER WITH A 24-BIT EXTENDED W BUFFER, AND A MTE-3 MAGNETIC TAPE TRANSPORT CONNECTED TO THE W BUFFER.

851057

9-SERIES

MEMORY LOCK-OUT AND POHER FAIL-SAFE TEST

AUTHOR: XEROX ABSTRACT:

TO VERIFY THE OPERATION OF THE MEMORY LOCK-OUT/POWER FAIL-SAFE OPTIONS.

SOURCE LANGUAGE: META-SYMBOL. SIZE 369 DECIMAL. CONFIGURATION: ANY XDS 930 WITH MEMORY LOCK-OUT (MANUAL OR PROGRAM CONTROLLED) POWER FAIL-SAFE.

851058

9-SERIES

930 CFE-1 DIAGNOSTIC

AUTHOR: XEROX

ABSTRACT:

TO DISCOVER AND INDICATE CFE-1 FAILURES.

COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 930 HITH 1-2 MEMORY BANKS TOTALING UP TO 32K (ALTHOUGH THE CFE HILL BE TESTED HITH ONLY THE FIRST 16K), CARD OR PAPER TAPE READER, AND CFE-1. (IN ADDITION TO THE ABOVE, IT IS ADVISABLE TO HAVE TYPEWRITER NO. ON CHANNEL H.)

851060

9-SERIES

REAL TIME CLOCK TEST ROUTINE

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM DEMONSTRATES ACCEPTABLE PERFORMANCE OF THE REAL TIME CLOCK.

COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 600 DECIMAL CONFIGURATION: ANY XDS 925 OR 930 COMPUTER WITH A PAPER TAPE READER, A TYPEHRITER ATTACHED TO THE W BUFFER, AND A 91880 REAL TIME CLOCK.

851062

9165 DISC EXERCISER DIAGNOSTIC

AUTHOR: XEROX ABSTRACT:

THE PROGRAM EXERCISES THE DISC UNIT ON A RANDOM BASIS HITHIN THE AREA OF DISC AND CORE SPECIFIED BY THE USER. THE TEST ISSUES A SET OF DISC I/O COMMANDS WHICH ARE IN A SEEK AND WRITE, SEEK, AND SEEK AND READ SEQUENCE. THE DUMMY SEEK IS INSERTED TO MAXIMIZE THE ARM POSITIONING FUNCTION. THE TEST HAS A SEEK/SEARCH RECOVERY THAT MOVES THE ARM TO THE ADDJACENT TRACK BEFORE ATTEMPTING TO RECOVER THE CONSECUTIVE SEEK/SEARCH ERROR ON THE SAME DISC ADDRESS IS DEFINED TO BE A NON-RECOVERABLE ERROR. COMMENTS

THE PROGRAM HILL OPERATE ON A 930 HITH A 9164-01 SINGLE ACCESS DISC FILE CONTROLLER AND A 9165 DISC FILE Storage on the M-Channel.

851063

930 RAD DIAGNOSTIC FOR 9367 RAD

AUTHOR: XEROX ABSTRACT:

THIS PROGRAM TESTS RAD CAPABILITY. RANDOM CONFIGURATIONS OF DATA AND FUNCTIONS ARE GENERATED. ERROR OUTPUTS ARE LISTED ON THE CONSOLE TYPEHRITER. CONTROL PARAMETERS ARE ALSO VARIABLE. A DETAILED ABSTRACT IS PRINTED AT LEAD TIME.

OMMENTS:
THE PROGRAM IS TOTALLY INDEPENDENT INCLUDING FILL. THO BUFFER AREAS ARE USED FOR INPUT AND OUTPUT TO THE RAD. BOTH BUFFERS ARE SET UP BEFORE THE RAD IS DRIVEN. THIS IS NECESSARY TO CHECK THE "EARLY MORD" INTERRPUT OPTION. ALL ERROR MESSAGES AND PARAMETER OPTIONS ARE TRANSMITTED TO THE CONSOLE TYPEHRITER. READ DATA IS CHECKED AGAINST A KNOHN PATTERN. THE ENTIRE SELECTED RAD AREA IS INITIALIZED HITH CONSTANT DATA. CONTROL THEN RANDOMLY SELECTS A RAD STARTING ADDRESS, BLOCKS SIZE, AND READ OR HRITE OPTION. THE MAXIMUM BLOCK SIZE WHICH CAN BE HANDLED IS 12K WORDS. THIS IS EQUAL TO THREE RAD BANDS. BREAKPOINT CONTROL IS DISCUSSED UNDER METHODS. PROGRAM IS LOADED USING THE ONE CARD LOADER CATALOG NUMBER 850648.

9-SERIES 851100

925 EXAMINER DIAGNOSTIC SYSTEM (COVER)

AUTHOR: XEROX

ABSTRACT

SEE MANUAL NO. 900649 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.

THIS PROGRAM COVERS CATALOG NO.'S 851101,851102,851103.

851101

9-SERIES

925 MEMORY DIAGNOSTIC

AUTHOR: XEROX

ABSTRACT:

THE PROGRAM EXERCISES MEMORY WITH THE CHECKERBOARD MEMORY WORD PATTERN: IT MONITORS THE MEMORY FOR ERRORS AND AIDS IN DIAGNOSING MEMORY FAILURES.

INTERNIS:
THIS PROGRAM IS PART OF CATALOG NO. 851100 (COVER). SEE MANUAL 900469, 925 COMPUTER EXAMINER DIAGNOSTIC
SYSTEM TECHNICAL MANUAL. SOURCE LANGUAGE: META-SYMBOL. SIZE: 208 DECIMAL. CONFIGURATION: ANY 925.

851102

9-SERIES

925 INSTRUCTION DIAGNOSTIC

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM AIDS IN DIAGNOSING FAULTY COMPUTERS BY VERIFYING PROPER EXECUTION OF COMPUTER LOGIC.

COMMENTS:

THIS PROGRAM IS PART OF CATALOG NO. 851100 (COVER). SEE MANUAL 900489, 925 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. SOURCE LANGUAGE: SYMBOL 8. SIZE: 2271 DECIMAL. CONFIGURATION: ANY 925.

851103

925 P-AND-S REGISTER TESTER 9-SERIES

AUTHOR: XEROX

ABSTRACT:

THIS TEST PROGRAM EXERCISES THE P-AND-S REGISTERS BY STORING AND EXECUTING BRM'S THROUGHOUT MEMORY. BY COMPARING THE "MARK" OF THE BRM WITH AN EXPECTED VALUE, THE PROGRAM CHECKS WHETHER THE COMPUTER STORED THE CORRECT LOCATION. THEREFORE, THE TEST CHECKS WHETHER THE P-AND-S REGISTER FUNCTIONED PROPERLY.

COMMENTS: THIS PROGRAM IS PART OF CATALOG NO. 851100 (COVER). SEE MANUAL 900469, 925 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. SOURCE LANGUAGE: SYMBOL 8. SIZE: 184 DECIMAL. CONFIGURATION: ANY 925.

851104

9-SERIES

925 CFE-1 DIAGNOSTIC

AUTHOR: XEROX

ABSTRACT: DISCOVER AND INDICATE CFE-1 FAILURES.

DETIRATED SOURCE LANGUAGE: 910 META-SYMBOL. SIZE: 1309 DECIMAL. CONFIGURATION: 925 WITH UP TO 16K OF CORE STORAGE, A CARD OR PAPER TAPE READER, AND CFE-1. (IN ADDITION TO THE ABOVE, IT IS ADVISABLE TO HAVE TYPENRITER •1 ON CHANNEL H.)

851107

EXTENDED HODE I/O TEST PROGRAM 9-SERIES

AUTHOR: XEROX

ABSTRACT:
TO TEST AS MANY OF THE EXTENDED I/O OPERATIONS AS POSSIBLE HITH PAPER TAPE. GIVEN A COMMUNICATION CHANNEL THAT IS KNOHN TO BE GOOD THEN THE PROGRAM SERVES AS A PAPER TAPE TESTER.

SOURCE LANGUAGE: META-SYMBOL. SIZE: 843 DECIMAL. CONFIGURATION: ANY 925/930 COMPUTER WITH A TYPEWRITER ATTACHED TO THE H CHANNEL AND A PAPER TAPE PUNCH AND READER ON ANY INTERLACED COMMUNICATION CHANNEL. THE H CHANNEL NEED NOT BE INTERLACED FOR THE TYPEWRITER.

851110

9-SERIES

925/930 CARD READER TEST PROGRAM

AUTHOR: XEROX

ABSTRACT:

TO VERIFY THE OPERATION OF THE XDS 9151, OR 9153 CARD READER.

COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 611 DECIMAL. CONFIGURATION: ANY 925/930 HITH TYPEHRITER ON CHANNEL A AND XDS HODEL 9151, 9152 OR 9153 CARD READER ATTACHED TO A THCC OR DACC. EXTENDED HODE INTERLACE IS USED FOR CARD READING.

9-SERIES CLASS 83 DIAGNOSTIC SUMMARIES

851111 9-SERIES 9158 CARD PUNCH TEST PROGRAM

AUTHOR: XERCX

ABSTRACT:

TO PROVIDE A MEANS OF TESTING THE CARD PUNCH.

COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 314 DECIMAL. CONFIGURATION: ANY 925/930 HITH INTERLACE, WITH HODEL 9158 CARD PUNCH COUPLER SYSTEM. MAY BE USED ON CHANNELS H,Y,C,D,E,F,G,H.

851113 9-SERIES EXTENDED MODE MULTI-MAGNETIC TAPE EXER.

AUTHOR: XEROX

ABSTRACT:

ISTRACT:
THE PROGRAM IS DESIGNED TO EXERCISE I TO 64 MAGNETIC TAPES ON CHANNELS A THROUGH H. THE EXERCISE
OPERATES UNDER INTERRUPT CONTROL IN THE EXTENDED MODE USING ALL FOUR FUNCTION CODES AND ALL SKS'S AND
EOM'S ASSOCIATED HITH THE CHANNEL AND MAGNETIC TAPE. COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE 1903 DECIMAL. CONFIGURATION: ANY 925/930 HITH A DATA MULTIPLEX UNIT AND DATA SUB CHANNEL I HAVING A PAPER TAPE PUNCH AND PHOTO READER ATTACHED. A TYPEHRITER AND PHOTO READER OR BINARY CARD READER ARE REQUIRED ON CHANNEL A (ZERO).

851114 9-SERIES MAGNETIC TAPE TEST PROGRAM FOR 925/930

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE A COMPREHENSIVE MEANS FOR INITIAL CHECKOUT AND TESTING OF MAGNETIC TAPES UNITS. COMMENTS:

JUMEN'S: SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: AN XDS MODEL 925/930 COMPUTER HITH A TYPEHRITER (NUMBER 1) ATTACHED TO THE H BUFFER AND ONE OR MORE MAGNETIC TAPE UNITS ATTACHED TO ANY CHANNEL USING INTERLACE AND EXTENDED MODE.

851115

9-SERIES

DATA MULTIPLEX CHANNEL TEST 925/930

AUTHOR: XEROX

ABSTRACT:
TO TEST THE OPERATION OF DSC 1 HITH AND HITHOUT INTERRUPTS

COM

SOURCE LANGUAGE: META-SYMBOL, COMPUTER CONFIGURATION ANY 925 OR 930 WITH A DATA MULTIPLEX UNIT AND DATA SUB CHANNEL 1 HAVING A PAPER TAPE PUNCH AND PHOTO READER ATTACHED, A TYPEHRITER AND PHOTO READER OR BINARY CARDREADER ARE REQUIRED ON CHANNEL A (ZERO).

851117

9-SERIES

DSC-II DIAGNOSTIC TEST

AUTHOR: XEROX

ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A DMC/DSC-II TEST INDEPENDENT OF A PERIPHERAL DEVICE.

851118 9-SERIES DACC DIAGNOSTIC TEST WITH JX35 TESTER925

AUTHOR: XEROX

ABSTRACT:

THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A DACC DIAGNOSTIC TEST INDEPENDENT OF A PERIPHERAL DEVICE.

851119 9-SERIES AUTHOR: XEROX

TMCC DIAGNOSTIC TEST FOR 925/930

ABSTRACT:

THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A TIME MULTIPLEXED COMMUNICATION CHANNEL TEST INDEPENDENT OF A PERIPHERAL DEVICE.

851122

9-SERIES

9174/9179 PRINTER DIAGNOSTIC 925/930

AUTHOR: XEROX

AUTHOR: XEND.
ABSTRACT:
A SELF LOADING PROGRAM TO PERMIT VERIFICATION OF THE 9174 AND 9179 BUFFERED LINE PRINTER ON AN XDS 925
OR 930 COMPUTER. THE PROGRAM OUTPUTS IN EXTENDED MODE INTERLACE WITH IORD AND IOSD TERMINATION CODES.
INTERRUPTS ARE NOT USED. THE PRINTER MAY BE UNIT 1 OR 2 CONNECTED TO ANY INTERLACED TMCC OR DACC.

851123

9-SERIES

9379 PRINTER DIAGNOSTIC 925/930

AUTHOR: XEROX

ABSTRACT:

A SELF LOADING PROGRAM TO PERMIT VERIFICATION OF THE 9379 BUFFERED LINE PRINTER ON AN XDS 925 OR 930 COMPUTER. THE PROGRAM OUTPUTS IN EXTENDED MODE INTERLACE WITH TORD AND TOSD TERMINATION CODES. INTERRUPTS ARE NOT USED. THE PRINTER MAY BE UNIT 1 OR 2 CONNECTED TO ANY INTERLACED TMCC OR DACC.

851124

9-SERIES

9372 UNBUFFERED LINE PRINTER TEST 925/93

AUTHOR: XEROX

ABSTRACT:
PROVIDE A TEST OF THE MODEL 9372 PRINTER BY GENERATING SPECIFIED PRINT PATTERNS AND MONITORING THE PRINTER'S FESPONSE TO PROGRAM-GENERATED COMMANDS.

9-SERIES 851127

DISC FILE TEST PROGRAM

AUTHOR: XEROX

ABSTRACT:

THE PROGRAM IS DESIGNED FOR INITIAL DISC CHECKOUT, FIELD MAINTENANCE, AND TO PERFORM DURATION TESTIMO FOR ACCEPTANCE PURPOSE OF THE 9184 MOVABLE ARM DISC.

851128 9-SERIES DISC FILE DIAGNOSTIC (DFD) 925/930

AUTHOR: XEROX

TO PROVIDE THE CAPABILITY TO DIAGNOSE THE OPERATION OF THE HODEL 9267 RAD.

9-SERIES 851129

RAD APOCALYPTIC DIAGNOSTIC (RAD) 925/930

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE A COMPREHENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF R.A.D.'S.

851130 9-SERIES TEST PROGRAM DISC FILE MODEL 9367-A 925/

AUTHOR: XEROX

ABSTRACT:

TO AID IN THE DEVELOPMENT AND CHECKOUT OF DISC FILE UNIT MODEL 9387-A.

851134

9 TRACK MAGNETIC TAPE TEST PROGRAM

AUTHOR: XEROX

ABSTRACT:
PURPOSE: TO PROVIDE A COMPREHENSIVE MEANS FOR INITIAL CHECKOUT AND TESTING OF MODEL 95489 9 TRACK
MAGNETIC TAPE SYSTEM.

MINIMUM SYSTEM CONFIGURATION: 8K MEMORY KEYBOARD/PRINTER CARD READER OR PAPER TAPE READER HODEL 95488 9
TRACK MAGNETIC TAPE SYSTEM COMMENTS:

851135 900-SERIES AUTHOR: XEROX

SEMI AUTO TYPEHRITER TEST

ABSTRACT:

THIS PROGRAM PROVIDES A MEANS OF EXERCISING AND CHECKING KEYBOARD INPUT AND PRINTER OUTPUT CAPABILITIES

OF THE TYPEHRITER HHEN USED IN THE ON-LINE MODE. THE OPERATOR MAY SELECT THE H BUFFER OR THE Y BUFFER AND

TYPEHRITER NO. 1 OR TYPEHRITER NO.2.

THE PROGRAM REQUIRES 368 DECIMAL LOCATIONS, IS SELF-LOADING AND RELOCATABLE. THE PROGRAM HILL OPERATE WITH EITHER THE SELECTRIC OR TELETYPE KEYBOARD/PRINTER DEVICES.

851136

DEE-BD SIMULATOR SYSTEM DIAGNOSTIC

AUTHOR: XEROX

ARSTRACT:

TO DEMONSTRATE AND TEST ALL DEE-6D SIMULATOR SYSTEM INTERFACE HARDWARE.

COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 930 WITH 32K CORE AND DEE-8D HARDHARE.

851137

JPL APS-100 SYSTEMS DIAGNOSTIC PROGRAM

AUTHOR: XEROX

ABSTRACT:

TO DETECT AND DESCRIBE MALFUNCTIONS IN THE JPL APS-100 SYSTEM.

COMMENTS

STAND ALONE ABSOLUTELY LOADED. CODED IN 910 METASYMBOL. STORAGE REQUIRED THROUGH 2820.

851152

AUTHOR: XEROX

INTERRUPT-INTERLACE 1/0 TEST PROGRAM

ABSTRACT:
TO TEST AS MANY OF THE INTERRUPT AND INTERLACE OPERATIONS AS POSSIBLE WITH PAPER TAPE I/O OPERATIONS.
GIVEN IN I/O CHANNEL THAT IS KNOWN TO BE GOOD THEN THE PROGRAM SERVES AS A PAPER TAPE TESTER.

SOURCE LANGUAGE: 920 META-SYMBOL HITH 92 PROCEDURES DECK. SIZE: 993 DECIMAL. CONFIGURATION: ANY XDS 92 COMPUTER HITH PAPER TAPE READER AND/OR PAPER TAPE PUNCH ATTACHED TO THE 1/O CHANNEL. THE INTERRUPT AND/OR INTERLACE FEATURES MAY EXIST IN ANY COMBINATION HITH RESPECT TO THE 1/O CHANNELS.

851153

EXAMINER DIAGNOSTIC SYSTEM (COVER)

AUTHOR: XEROX

ABSTRACT:
THE XDS 92 EXAMINER SYSTEM IS A COMPLETE MAIN FRAME DIAGNOSTIC PACKAGE, HHICH VERIFIES SUCCESSFUL
OPERATION OR ISOLATES ERRORS AND DIAGNOSES THE PROBABLE CAUSE OF ERRORS FRO ALL HARDMARE TESTED BY THE

MITTERIE: SOURCE LANGUAGE: 920 META-SYMBOL. THIS PROGRAM COVERS CATALOG NO. S: 851154 THRU 851158. SEE MANUAL 900878. 92 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.

PAGE 10 - 01/31/75

851154 DIAGNOSTIC (MAIN-FRAME DIAGNOSTIC)

AUTHOR: XEROX

ABSTRACT:

TO TEST ALL OPERATIONS WITHIN THE 92 EXCEPT THOSE RELATED TO 1/O. THESE INCLUDE ALL NON-1/O INSTRUCTIONS, REGISTER TRANSFERS, ADDRESSING MODES, AND ADDRE FUNCTIONS.

COMMENTS:

SOURCE LANGUAGE: 920 META-SYMBOL. SIZE: 2000 DECIMAL. CONFIGURATION: MINIMUM OF 2K CORE AND PAPER TAPE READER. PART OF 851153, EXAMINER DIAGNOSTIC SYSTEM.

2-4K MEMORY DIAGNOSTIC 851155

AUTHOR: XEROX ABSTRACT:

TO VERIFY SUCCESSFUL OPERATION OF MEMORY, OR TO DETECT AND DIAGNOSE ERRORS PRODUCED BY PROGRAM-GENERATED MEMORY PATTERNS.

SOURCE LANGUAGE: 920 META-SYMBOL. SIZE: 4000 DECIMAL. CONFIGURATION: 2K OR 4K CORE AND PAPER TAPE READER. PART OF 851153, EXAMINER DIAGNOSTIC SYSTEM.

8-16-32K MEMORY DIAGNOSTIC 851156

AUTHOR: XEROX

ABSTRACT:
TO VERIFY SUCCESSFUL OPERATIONS, OR TO DETECT AND DIAGNOSE ERRORS PRODUCED BY PROGRAM-GENERATED MEMORY PATTERNS. COMMENTS:

ROURCE LANGUAGE: 920 META-SYMBOL. SIZE: 8000 DECIMAL. CONFIGURATION: 9, 18, 32K CORE AND PAPER TAPE READER. PART OF 851153, EXAMINER DIAGNOSTIC SYSTEM.

851157 92 TYPEHRITER TEST

AUTHOR: XEROX ABSTRACT:

TO EXERCISE THE TYPEHRITER UNDER OPERATOR CONTROL

851166 PAPER TAPE READER TEST

AUTHOR: XEROX ARSTRACT:

TO EXERCISE THE PAPER TAPE READER AND TEST ITS OPERATION.

COMMENTS

SOURCE LANGUAGE: META-SYMBOL/92. SIZE: 2146 DECIMAL. CONFIGURATION: ANY 92 COMPUTER.

851168 CARD READER TEST PROGRAM

AUTHOR: XEROX

ABSTRACT:

TO VERIFY THE OPERATION OF THE XDS 9150, 91510, 9152 OR 9153 CARD READER.

SOURCE LANGUAGE: 92 SYMBOL. SIZE: 904 DECIMAL. CONFIGURATION: ANY XDS 92 HITH TYPEHRITER AND XDS MODEL 9150, 91510, 9152 OR 9153 CARD READER IN UNIT NUMBER 1 POSITION. INTERRUPTS AND/OR INTERLACE ARE NOT REQUIRED FOR OPERATION OR TEST PROGRAM.

851170 MAGNETIC TAPE TEST PROGRAM

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE A SIMPLE AND EASY MEANS FOR INITIAL CHECKOUT AND TESTING OF MAGNETIC TAPE UNITS.

SOURCE LANGUAGE: 92 SYMBOL. SIZE 1412 DECIMAL. CONFIGURATION: ANY XDS 92 COMPUTER HITH 4K MEMORY, A TYPEHRITER AND ONE OR MORE MAGNETIC TAPE UNITS OF ANY TYPE ATTACHED TO THE I/O CHANNEL. INTERLACE AND I/O CHANNEL INTERRUPTS ARE NOTE USED IN THE PROGRAM.

851171 MULTI-MAGNETIC TAPE EXERCISER

AUTHOR: XEROX

ABSTRACT:

TO EXERCISE TAPE UNITS BY HRITING A FILE CONSISTING OF RANDOM LENGTH RECORDS OF RANDOM NUMBERS AND READING THE RAPE BACK CHECKING FOR ERRORS. COUNTERS ARE MAINTAINED BY THE PROGRAM, TALLYING THE NUMBER OF PASSES MADE AND THE NUMBER OF VARIOUS TYPES OF ERRORS. THE PROGRAM HILL EXERCISE UP TO 8 TAPE UNITS.

COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE 2174 DECIMAL. CONFIGURATION: A 92 COMPUTER WITH ONE OR MORE MAGNETIC TAPES AND A TYPEHRITER.

851173 DSC-I DIAGNOSTIC TEST FOR XDS 92

AUTHOR: XEROX

ABSTRACT:
THE PURPOSE OF THIS TEST IS TO MAKE AVAILABLE A DATA MULTIPLEXING CHANNEL TEST, INDEPENDENT OF A PERIPHERAL DEVICE.

COMMENTS: SOURCE LANGUAGE: XDS 920 META-SYMBOL HITH XDS 92 PROCEDURE DECK. SIZE: 2702 DECLYMBOL WITH XDS 92 92, 1/0 TESTER, DSC-1 AND TYPEWRITER. 851174

DSC-II DIAGNOSTIC TEST FOR XDS 92

AUTHOR: XEROX

ABSTRACT:

THE PURPOSE OF THIS TEST IS TO MAKE AVAILABLE A DATA MULTIPLEXING CHANNEL TEST, INDEPENDENT OF A PERIPHERAL DEVICE.

SOURCE LANGUAGE: XDS 920 META-SYMBOL WITH XDS 92 PROCEDURE DECK. SIZE 2358 DECIMAL. CONFIGURATION: ANY XDS 92 WITH 1/0 TESTER, DSC-11 AND TYPEHRITER.

851175 AUTHOR: XFROX INT, BPO, BPI DIAGNOSTIC TEST FOR XDS 92

ABSTRACT:

THE PURPOSE OF THIS TEST IS TO MAKE AVAILABLE A BPO/BPI TEST, AND/OR AN INTERRUPT CHASSIS TEST, BY USING THE 1/0 TESTER INSTEAD OF PERIPHERAL DEVICES.

COMMENTS:

SOURCE LANGUAGE: XDS 920 META-SYMBOL HITH XDS 92 PROCEDURE DECK. SIZE 1905 DECIMAL. CONFIGURATION: ANY XDS 92 HITH 1/0 TESTER, TYPEHRITER, AND INTERRUPT CHASSIS (NOT NECESSARY IF ONLY BPO/BPI IS TO BE TESTED).

851179

MOD. 9372 UNBUF.LINE PRINTER DIAGNOSTIC

AUTHOR: XEROX

ABSTRACT:

THE DIAGNOSTIC PROGRAM HAS BEEN DESIGNED PRIMARILY TO TEST THE BASIC FUNCTIONS OF THE 9372 PRIMTER UTILIZING A LIMITED AMOUNT OF CORE. TO ACHIEVE THESE ENDS SOME LIMITATIONS HAVE BEEN PUT ON KEYBOARD ENTRIES (MUST BE OF COMPLETE NATURE), AND TITLE PRINTOUTS.

SOURCE LANGUAGE: 92 SYMBOL. SIZE 1720 DECIMAL. CONFIGURATION: ANY XDS 92 HITH A MODEL 9372 UNBUFFERED LINE PRINTER.

851180

BUFFERED LINE PRT. DIAGNOSTIC 9379/9171

AUTHOR: XEROX

ABSTRACT:

THE DIAGNOSTIC PROGRAM HILL PROVIDE A COMPREHENSIVE TEST FOR THE BUFFERED LINE PRINTER MITHIN A LIMITED AMOUNT OR CORE.

COMMENTS:

SIZE: 1571 DECIMAL. CONFIGURATION: ANY XDS 92 HITH A MODEL 9379/9171 BUFFERED LINE PRINTER.

851181

HTE-2 MAGNETIC TAPE EXERCISER

AUTHOR: XEROX ABSTRACT:

THIS PROGRAM IS DESIGNED TO EXERCISE THE MAGNETIC TAPE UNIT BY FIRST HRITING RECORDS OF RANDOM NUMBERS AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS HRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUT PUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, AND THE NUMBER OF PASSES OVER THE TAPE.

COMMENTS:

SOURCE LANGUAGE: META-SYMBOL (92 PROC DECK, 850877). SIZE 1800 DECIMAL. CONFIGURATION: XDS 92 COMPUTER AND A 6-BIT 1/0 CHANNEL, A TYPEHRITER CONNECTED TO THE H BUFFER, AND A MTE-2 MAGNETIC TAPE TRANSPORT, UNIT 0, CONNECTED TO THE H BUFFER.

851182

SCOPE TEST PROGRAM

AUTHOR: XEROX ABSTRACT:

TO AID IN SCOPE MAINTENANCE AND VERIFICATION OF SCOPE OPERATION. THE PROGRAM INCLUDES TESTS FOR ALL OPTIONAL SCOPE FEATURES.

COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. CONFIGURATION: XDS 92 HITH PAPER TAPE, TYPEHRITER, 24BIT PIN/POT EXTENDER AND MODEL 9185 OSCILLOSCOPE DISPLAY SYSTEM.

851184

92 RAD ANALYTIC DIAGNOSTIC

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE A COMPRENENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF RADS.

COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE 4037 DECIMAL. CONFIGURATION: AN XDS MODEL 92 COMPUTER WITH A TYPEWRITER (NUMBER 1) ATTACHED AND ONE OR MORE RAD UNITS USING INTERLACE AND 12 BIT EXTENDER.

851185

TEST PROGRAM FOR DISC FILE 9367-A

AUTHOR: XEROX

ABSTRACT:

TO AID IN THE DEVELOPMENT AND CHECKOUT OF DISC FILE MODEL 9367-A.

SOURCE LANGUAGE: 92 SYMBOL. CONFIGURATION: XDS 92 COMPUTER. 8K MEMORY. 12 BIT CHARACTER OPTION ON 1/0 CHANNEL. DISC FILE SYSTEM MODEL 9387-A ATTACHED TO 1/0 CHANNEL (UNIT 26). DISC FILE UNIT MUST BE UNIT 0.

9-SERIES CLASS B3 DIAGNOSTIC SUMMARIES

851186

POWER FAIL-SAFE TEST

AUTHOR: XERCX ABSTRACT:

TO VERIFY PROPER OPERATION OF THE POHER FAIL-SAFE OPTION.

COMMENTS:

SOURCE LANGUAGE: 92 SYMBOL. SIZE: 983 DECIMAL. CONFIGURATION: ANY XDS 92 HITH POHER FAIL-SAFE AND PAPER TAPE READER.

851187

REAL TIME CLOCK TEST

AUTHOR: XEROX

ABSTRACT:

TO VERIFY PROPER OPERATION OF THE REAL TIME CLOCK.

COMMENTS:

SOURCE LANGUAGE: 92 SYMBOL. SIZE 1664 DECIMAL. CONFIGURATION: ANY XDS 92 HITH REAL TIME CLOCK AND PAPER TAPE READER.

851580

INTER-COMPUTER COUPLER TEST

AUTHOR: XEROK ABSTRACT:

THIS PROGRAM EXERCISES THE CCE-25 INTER-COMPUTER COUPLER WHEN IT IS CONNECTED BETWEEN THO 930 COMPUTERS.

THE PROGRAM ALLOHS THE USER TO SPECIFY THE NUMBER OF CHARACTERS PER HORD, THE THCC TO BE USED, THE SEND Interrupt memory location to be used, the receive interrupt memory location to be used and the data to BE TRANSFERRED.

851584

9-SERIES

ACCEPTANCE PROG. FOR DATA COMMUNICATION

AUTHOR: XEROX ABSTRACT:

PROVIDES A MEANS OF TESTING THE OPERATION OF XDS DATA COMMUNICATIONS EQUIPMENT.

COMMENTS:

SOURCE LANGUAGE: META-SYMBOL CONFIGURATION: ANY 900 SERIES COMPUTER WITH DATA COMMUNICATIONS EQUIPMENT.

851585

9-SERIES

COMMUNICATION BUFFER CHECKOUT PROGRAM

AUTHOR: XEROX

ABSTRACT:

COMPUTER CONFIGURATION: ANY XDS 900 SERIES COMPUTER HITH COMMUNICATIONS BUFFER, 4K MEMORY AND ONE OR MORE TELETYPE UNITS OPERATING IN 5 LEVEL OR 8 LEVEL CODE.

SOURCE LANGUAGE: SYMBOL/META-SYMBOL

851615

AUTHOR: XEROX

DIGITAL I/O TEST FOR GD/C ATS

ABSTRACT: THIS PROGRAM HILL TEST THE DIGITAL I/O SUBSYSTEM OF THE GENERAL DYNAMICS/CONVAIR AUTOMATIC TEST SET COMMENTS:

HARDHARE CUNFIGURATION: 930 COMPUTER, 12 'POT' CHANNELS, 12 'PIN' CHANNELS, 128 'SKS' CHANNELS, 220 'EOM' CHANNELS HEHLETT PACKARD 101A OSCILLATOR, SPECIAL XDS 24-BIT TEST REGISTER. THE HP 101A OSCILLATOR IS CONNECTED THROUGH THE SPECIAL SYSTEMS LOGIC TO INTERRUPTS 204-210 (OCTAL).

851616

930

ANALOG/NSC-II TEST FOR GD/C ATS

AUTHOR: XEROX ABSTRACT:

THIS PROGRAM HILL TEST THE OPERATION OF THE ANALOG/DSC-II SUBSYSTEM HITHIN THE GENERAL DYNAMICS/CONVAIR AUTOMATIC TEST SET SYSTEM.

MARDHARE CONFIGURATION: 930 COMPUTER HITH DSC-II'S CONNECTED TO THE H AND X CHANNELS OF THE DMC, A 18 CHANNEL MULTIPLEXER AND A 15 BIT ADC. THE DSC-II'S ACCESS THE UPPER 8K OF THE 16K MEMORY. INTERRUPTS 200, 203 AND 211 (OCTAL) ARE USED BY THE MULTIPLEXER/DSC-II'S.

851617

AUTHOR: XEROX

ANALOG ACCURACY TEST FOR GD/C ATS

ABSTRACT: THIS PROGRAM HILL TEST THE ACCURACY OF THE EIGHTDAC CHANNELS AND THE 128 MULTIPLEXER CHANNELS HITHIN THE GENERAL DYNAMICS/CONVAIR AUTOMATIC TEST SET SYSTEM.

HARDHARE CONFIGURATION: 930 COMPUTER, KEYBOARD/PRINTER ON THE THCC H CHANNEL, DSC 11 ON THE DHC X CHANNEL.

851618

ANALOG TEST FOR G.D./CONVAIR

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM GIVES OPEN END AND CLOSED LOOP TESTS FOR ANALOG TO DIGITAL INPUTS. STATISTICAL TABULATIONS ARE MADE ON RESULTS OF MASS READINGS.

851618 CONTINUED ON FOLLOWING PAGE

9-SERIES CLASS B3 DIAGNOSTIC SUMMARIES

851618

ANALOG TEST FOR G.D./CONVAIR

(CONTINUED)

COMMENTS: MARDHARE REQUIREMENTS: XDS 910 COMPUTER CONFIGURATION FOR GENERAL DYNAMICS/CONVAIR. 8K OF MEMORY, TTY, AND ANALOG FRONT END.

851619

SAMPLE AND HOLD TEST FOR G.D./CONVAIR

AUTHOR: XEROX ABSTRACT:

PRINTAL!: This program gives an open end test for sample and hold analog to digital channels. Voltages are input Through these channels to XDS 910 computer. Sample and hold values of a single input are compared for ACCURACY.

HARDWARE REQUIREMENTS= XDS 910 COMPUTER CONFIGURATION FOR GENERL DYNAMICS/CONVAIR. 5 CHANNELS OF SAMPLE AND HOLD ADC'S.

851620

SPECIAL ACCEPTANCE TEST FOR G.D./CONVAIR

AUTHOR: XEROX ABSTRACT:

THIS PROGRAM GIVES A DEMONSTRATION FOR THE VARIOUS FEATURES OF THE GENERAL DYNAMICS/CONVAIR 910 COMPUTER SYSTEM.

MARDHARE REQUIREMENTS= XDS 910 COMPUTER CONFIGURATION FOR G.D.
DEMONSTRATES D/A, A/D, SYSTEM POT/PIN, SYSTEM EOM'S, SYSTEM SKS'S, AND SPECIAL REAL-TIME CLOCK.

851623

9-SERIES AUTHOR: XEROX

900 PAPER TAPE PUNCH TEST

THIS PROGRAM PROVIDES A TEST WITH VARIABLE START-STOP DELAY WHICH SIMULATES CONDITIONS ENCOUNTERED WHEN PUNCHING OBJECT PROGRAMS UNDER FORTRAN OR META-SYMBOL.

COMMENTS

JHHENIS:
THE PROGRAM REQUIRES APPROXIMATELY 192 DECIMAL LOCATIONS (0130 THRU 0435). THE PROGRAM CAN BE USED II
ANY 900 SERIES COMPUTER HITH PAPER TAPE READER AND PUNCH ON THE H-BUFFER. THE PROGRAM PUNCHES OUT 84
DECIMAL CHARACTER GROUPS ARRANGED IN BLOCKS HITHOUT GAP. EACH GROUP CONSISTS OF AN ASCENDING BINARY
SEQUENCE ARRANGED FROM 00 TO 77 OCTAL. THE PROGRAM CAN BE USED IN

860007

7/8 LEVEL READER/PUNCH TEST

AUTHOR: XEROX

ABSTRACT:

VERIFIES THE CAPABILITIES OF THE READER AND PUNCH MECHANISMS AND ELECTRONICS. IT WILL OPERATE BOTH READER AND PUNCH AT THEIR MAXIMUM SPEED. INTERLACE IS NOT USED.

REQUIRES AN XDS 9300 COMPUTER HITH A MINIMUM OF 2K OF MEMORY, KEYBOARD PRINTER,AND A MODEL 9333 7-OR B-LEVEL PAPER TAPE READER OR PUNCH CONNECTED AS UNIT NUMBER 1 OR 2 TO CHANNEL A.

860661

9300

9300

EXAMINER DIAGNOSTIC (COVER)

AUTHOR: XEROX

ABSTRACT:

SEE MANUAL NO.900624: 9300 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.

SEE MANUAL NO. 900624: FOR THE COMPUTER CONFIGURATION.

860662

VERIFIER AND SEMI-AUTOMATIC DIAGNOSTIC

AUTHOR: XEROX COMMENTS:

SEE MANUAL NO. 900824: 9300 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. THIS PROGRAM IS PART OF CATALOG 880681, SEE THIS CATALOG NUMBER FOR THE COMPUTER CONFIGURATION.

860663

9300 AUTHOR: XEROX

MEMORY DIAGNOSTIC

ABSTRACT

SEE MANUAL NO.900624: 9300 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.

THIS PROGRAM IS PART OF CATALOG 860681, SEE THIS CATALOG NUMBER FOR COMPUTER CONFIGURATION.

860664

AUTOMATIC INSTRUCTION DIAGNOSTIC

AUTHOR: XEROX ABSTRACT:

SEE MANUAL NO. 800824: 9300 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.

THIS PROGRAM IS PART OF CATALOG 860661, SEE THIS CATALOG NUMBER FOR THE COMPUTER CONFIGURATION.

9-SERIES CLASS 83 DIAGNOSTIC SUMMARIES

860665 9300 P AND S REGISTER TESTER

AUTHOR: XEROX ABSTRACT:

SEE MANUAL NO. 900624: 9300 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.

THIS PROGRAM IS PART OF CATALOG NUMBER 860661, SEE THIS CATALOG NO. FOR THE COMPUTER CONFIGURATION.

SEMI-AUTOMATIC TYPEHRITER TEST (SATT) 860666 9300

AUTHOR: XEROX ABSTRACT:

TO PROVIDE A MEANS OF EXERCISING AND CHECKING KEYBOARD INPUT AND PRINTER OUTPUT CAPABILITIES OF THE TYPEWRITER WHEN USED IN THE ON-LINE MODE.

SOURCE LANGUAGE: META-SYMBOL. SIZE: 267 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 HITH A

860667 INTERRUPT EXERCISER

AUTHOR: XEROX

ABSTRACT:

THIS EXERCISER HILL EXECUTE THE 9300 AUTOMATIC INSTRUCTION DIAGNOSTIC (DOC), CA INTERRUPT ENVIRONMENT. A SPECIAL PURPOSE DIAGNOSTIC MAY BE SUBSTITUTED FOR DOC. CATALOG NO.860664. IN AN

SOURCE LANGUAGE: SYMBOL.SIZE: 151 DECIMAL HORDS. COMPUTER CONFIGURATION:ANY XDS 9300 HITH INTERLACE. BUFFERED PRINTER 1, CHANNEL A, AND AT LEAST 8K MEMORY.

860696 BIG MEMORY DIAGNOSTIC

AUTHOR: XEROX

ABSTRACT:

TO VERIFY SUCCESSFUL OPERATION OF MEMORY,OR TO DETECT AND DIAGNOSE ERRORS PRODUCED BY PROGRAM GENERATED MEMORY PATTERNS. COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 20000 DECIMAL HORDS. COMPUTER CONFIGURATION: 20K CORE MINIMUM AND PAPER TAPE OR CARD READER.

860718 EXTENDED MODE I/O TEST PROGRAM

AUTHOR: XEROX

ABSTRACT:
TO TEST AS MANY OF THE EXTENDED 1/O OPERATIONS AS POSSIBLE HITH PAPER TAPE. GIVEN A COMMUNICATION CHANNEL THAT IS KNOWN TO BE GOOD THEN THE PROGRAM SERVES AS A PAPER TAPE TESTER.

JOHENIS: SOURCE LANGUAGE: META-SYMBOL. SIZE: 843 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY 9300 HITH A TYPEHRITER ATTACHED TO THE A CHANNEL AND A PAPER TAPE PUNCH AND READER ON ANY INTERLACED COMMUNICATION CHANNEL. THE A CHANNEL NEED NOT BE INTERLACED FOR THE TYPEHRITER.

PHOTO-READER TEST PROGRAM 860719 9700

AUTHOR: XEROX

ABSTRACT:
TO TEST THE OPERATIONAL CHARACTERISTICS OF A PAPER TAPE PHOTOREADER.

COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 455 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 HITH PAPER TAPE PHOTOREADER.

860727 CARD READER TEST PROGRAM

AUTHOR: XEROX

TO VERIFY THE OPERATION OF THE XDS 9151.9152 OR 9153 CARD READER.

SOURCE LANGUAGE: META-SYMBOL. SIZE: 611 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 HITH TYPEHRITER ON CHANNEL A AND XDS MODEL 9151,9152 OR 9153 CARD READER ATTACHED TO A THCC OR DACC. EXTENDED MODE INTERLACE IS USED FOR CARD READER.

860729 9300 CARD PUNCH TEST PROGRAM

AUTHOR: XEROX ABSTRACT:

TO PROVIDE A MEANS OF TESTING THE CARD PUNCH.

COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 608 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY 9300 COMPUTER HITH MODEL 9157 CARD PUNCH COUPLER SYSTEM ATTACHED TO ANY CHANNEL.

860730 9158 CARD PUNCH TEST PROGRAM AUTHOR: XEROX

ABSTRACT:
TO PROVIDE A MEANS OF TESTING THE CARD PUNCH. SOURCE LANGUAGE: META-SYMBOL. SIZE: 317 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY 9300 HITH MODEL 9158 CARD PUNCH COUPLER SYSTEM MAY BE USED ON CHANNELS A-M. 860738 9300 EXTENDED MODE MULTI MAG TAPE EXERCISOR

AUTHOR: XEROX ABSTRACT:

THE PROGRAM IS DESIGNED TO EXERCISE I TO 64 MAGNETIC TAPES ON CHANNELS A THRU H. THE EXERCISE OPERATES UNDER INTERRUPT CONTROL IN THE EXTENDED MODE USING ALL FOUR FUNCTION CODES.

SOURCE LANGUAGE: META-SYMBOL. SIZE: 1978 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 SYSTEM HITH 1 TO 64 TAPE UNITS ATTACHED TO INTERLACED CHANNELS A THRU H. THE TYPEHRITER ON CHANNEL A(H) IS USED FOR CONTROL.

860739 9300 AUTHOR: XEROX

MAGNETIC TAPE TEST PROGRAM

ABSTRACT:

TO PROVIDE A COMPREHENSIVE MEANS FOR INITIAL CHECKOUT AND TESTING OF MAGNETIC TAPE UNITS.

TO PROVIDE A COMPRESENTE NAME OF THE PROPERTY OF THE PROPERTY

860744 9300 DATA MULTIPLEX CHANNEL TEST

AUTHOR: XEROX

ABSTRACT:

TO TEST THE OPERATION OF DSC 1 HITH AND HITHOUT INTERRUPTS.

COMMENTS:

JAMEN'S: ANY 9300 HITH A DATA MULTIPLEX UNIT AND DATA SUB CHANNEL HAVING A PAPER TAPE PUNCH AND A PHOTO READER ATTACHED. A TYPEHRITER AND PHOTO READER OR BINARY CARD READER ARE REQUIRED ON CHANNEL A (ZERO).

860745

DACC DIAGNOSTIC TEST FOR 9300

AUTHOR: XEROX

ABSTRACT:

THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A DACC DIAGNOSTIC TEST INDEPENDENT OF A PERIPHERAL DEVICE.

COMMENTS: SOURCE LANGUAGE: META-SYMBOL. SIZE: 1977 DECIMAL HORDS. COMPUTER CONFIGURATION: XDS 9300, DACC, JX35

860746

9300

9300

TMCC DIAGNOSTIC TEST FOR 9300

AUTHOR: XEROX ABSTRACT:

THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A TMCC DIAGNOS TIC TEST INDEPENDENT OF A PERIPHERAL Device.

COMMENTS: SOURCE LANGUAGE: META-SYMBOL. SIZE: 1878 DECIMAL HORDS. COMPUTER CONFIGURATION: XDS 9300. TMCC. JX35

860747

AUTHOR: XEROX

DSC-I DIAGNOSTIC TEST

ABSTRACT

THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A DMC/DSC-11 TEST INDEPENDENT OF A PERIPHERAL DEVICE.

COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1858 DECIMAL HORDS. COMPUTER CONFIGURATION: XDS 9300 WITH A
TYPEHRITER AND JX35 TESTER.

860748

9300

DSC-11 DIAGNOSTIC TEST

AUTHOR: XEROX

ABSTRACT:

TEST INDEPENDENT OF A PERIPHERAL DEVICE.

COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 1463 DECIMAL HORDS. COMPUTER CONFIGURATION: XDS 9300 HITH TYPEHRITER AND JX35 TESTER.

860753

AUTHOR: XEROX

PRINTER DIAGNOSTIC

ABSTRACT: A SELF LOADING PROGRAM TO PERMIT VERIFICATION OF THE 9174 AND 9179 BUFFERED LINE PRINTERS ON A XDS 9300. THE PROGRAM OPERATES IN EXTENDED MODE INTERLACE WITH 10RD AND 10SD TERMINATION CODES. INTERRUPTS ARE NOT USED. THE PRINTER MAY BE UNIT 1 OR 2 CONNECTED TO ANY TMCC OR DACC.

JUNIOLIUS: SIZE: 866 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 HITH AN ATTACHED 9174 OR 9179 BUFFERED Line Printeris).

9-SERIES CLASS B3 DIAGNOSTIC SUMMARIES

860754

9379/9171 BUFFERED LINE PRINTER DIAG

AUTHOR: XEROX

ABSTRACT

PROVIDE A COMPREHENSIVE TEST OF THE BUFFERED LINE PRINTER BY GENERATING SPECIFIED CHARACTER PATTERNS AND TESTING "HE RESPONSE OF THE PRINTER TO NORMAL COMMANDS. COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 1275 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 HITM A BUFFERED LINE PRINT ER AND A TYPEHRITER CONNECTED TO CHANNEL A.

860755 9300 AUTHOR: XEROX

MODEL 9372 UNBUFFERED LINE PRINTER TEST

ABSTRACT:

PROVIDE A TEST OF THE MODEL 9372 LINE PRINTER CONNECTED TO ANY CHANNEL WITH INTERLACE, AND A TYPEWRITER CONNECTED TO CHANNEL A.

COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 1560 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 HITH A MODEL 9372 LINE PRINTER CONNECTED TO ANY CHANNEL HITH INTERLACE, AND A TYPEHRITE R CONNECTED TO CHANNEL

860757 9300 PLOTTER TEST

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 9175-76 INCREMENTAL PLOTTER.

COMMENTS:

MINERIS: SOURCE LANGUAGE: META-SYMBOL. SIZE: 261 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 HITH A HODEL 9175-76 Incremental plotter on any TMCC.

860758

9300

MEMORY LOCK-OUT AND POHER FAIL-SAFE TEST

AUTHOR: XEROX

ABSTRACT:

TO VERIFY THE OPERATION OF THE MEMORY LOCK-OUT/POHER FAIL-SAFE OPTIONS.

COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 297 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH MEMORY LOCK-OUT (MANUAL OR PROGRAM CONTROLLER)/POWER FAIL-SAFE.

860759

9300

SPECIAL PRIORITY INTERRUPT TEST ROUTINE

AUTHOR: XEROX

ABSTRACT

TO PROVIDE A CHECK FOR PROPER OPERATION OF OPTIONAL INTERRUPTS.

SOURCE LANGUAGE: META-SYMBOL. SIZE: 284 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 930D HITH TYPERRITER ON CHANNEL A. OPTIONAL INTERRUPTS, AND SPECIAL HARDHARE TO ALLOH INTERNAL INITIATION OF OPTIONAL INTERRUPTS.

860760 0.500 SPECIAL TYPEWRITER TEST ROUTINE

AUTHOR: XERDX

ABSTRACT:
TO TEST THE 1/0 TYPEHRITER FOR PROPER INPUT-OUTPUT. THE ROUTINE PERFORMS THIS FUNCTION HITHOUT USING INTERLACE OR INTERRUPTS. COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 90 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH AN 1/0 TYPEHRITER.

860761

9:300

SPECIAL PAPER TAPE PUNCH-READ TEST

AUTHOR: XERDX

ABSTRACT:

TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS 92340 PAPER TAPE UNIT COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 190 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 HITH TYPEHRITER ON CHANNEL A AND AN XDS 92340 PAPER TAPE UNIT (MODIFIED FOR SEVEN UNIT).

860762

9300 AUTHOR: XERDX

CATHODE RAYTUBE DISPLAY SYSTEM TEST

ABSTRACT: TO PROVIDE A MEANS OF CHECKING OUT AND ADJUSTING THE DISPLAY COUPLER AND DISPLAY UNIT ALONG WITH ANY OF THE OPTIONAL DEVICES, SUCH AS VECTOR GENERATOR, CHARACTER GENERATOR, OR LIGHT GUN.

SIZE: 4095 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 HITH A MODEL 9185-01 DISPLAY COUPLER AND A DISPLAY UNIT USING THE FOLLOWING CHANNEL CONFIGURATION. XDS 9300: TMCC WITH 24-BIT CHARACTER SIZE OPTION OR ANY DACC OR PIN-POT CONNECTOR.

DES-1 DIAGNOSTIC PROGRAM 9300 860763

AUTHOR: XEROX

ABSTRACT:

TO TEST DES-1 CONSOLE AND EIGHT D/A CONVERTERS.

SOURCE LANGUAGE: META-SYMBOL. SIZE: 518 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY DES-1 9300 COMPUTER.

MTE-3 MAG TAPE EXERCISER, 4 CHAR. MODE 860764 AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM IS DESIGNED TO EXERCISE THE MAGNETIC TAPE UNIT BY FIRST HRITING RECORDS OF RANDOM NUMBERS AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS HRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, AND THE NUMBER OF PASSES OVER THE TAPE.

SOURCE LANGUAGE: META-SYMBOL. SIZE: 12843 DECIMAL HORDS. COMPUTER CONFIGURATION:XDS 9300 HITH A 24-BIT EXTENDED A BUFFER TELETYPE TYPEHRITER CONNECTED TO THE A BUFFER, AND A MTE-3 MAGNETIC TAPE TRANSPORT CONNECTED TO EITHER CHANNEL A,B,C OR D.

860765 9300 9267 DISC FILE DIAGNOSTIC-(DFD)

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE A COMPREHENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF 9267 RAD DISC.

COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 3510 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XOS 9300 HITH INTERLACE, EXTENDED MODE, TYPEHRITER (NUMBER 1,A-CHANNEL), AND ONE OR MORE MODEL 9267 RAD,S.

CFE-1 DIAGNOSTIC 9300 860766

AUTHOR: XEROX

ABSTRACT:

TO DISCOVER AND INDICATE CFE-1 FAILURES.

SOURCE LANGUAGE: META-SYMBOL. SIZE: 1325 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 HITH 1-4 MEMORY BANKS TOTALING UP TO 32K, CARD OR PAPER TAPE READER, AND CFE-1. (IN ADDITION A TYPEHRITER 1 ON CHANNEL A IS HIGHLY ADVISED.

RAD APOCALYPTIC DIAGNOSTIC 9300 860767

AUTHOR: XEROX

ABSTRACT:

TO PROVIDE A COMPREHENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF RADS.

POURCE LANGUAGE: META-SYMBOL. SIZE: 3707 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 HITH A Typewriter (no. 1) attached to channel a and one or more rads attached to any channel using interlace.

DPD TEST PROGRAM 860768 9300

AUTHOR: XEROX ABSTRACT:

THE PROGRAM IS DESIGNED FOR INITIAL DISC CHECKOUT, FIELD MAINTENANCE, AND TO PERFORM DURATION TESTING FOR ACCEPTANCE PURPOSE

SOURCE LANGUAGE: HETA-SYMBOL. SIZE: 3700 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 HITH XDS MODEL 9164-01/ 9164-02 DISC FILE CONTROLLER ATTACHED TO 1 OR 2 1/0 CHANNELS A-H. THE TYPEWRITER IS USED FOR PROGRAM CONTROL AND MUST BE CONNECTED TO CHANNEL A.

INTERRUPT ARM-DISARM FEATURE TEST PROGRA 9300

AUTHOR: XEROX

ABSTRACT:

TO CHECK OUT, THOROUGHLY, THE OPERATION OF ARM-DISARM FEATURE.

DMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 3000 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY 9300 HITH
TYPEHRITER,! TO 896 CHANNELS OF SYSTEM INTERRUPTS AND THE ARM-DISARM FEATURE. ALSO REQUIRED TO PERFORM
THE TEST IS SPECIAL MODULE CARD = 109745. HHEN THIS CARD,S INPUT IS CONNECTED TO COMPUTER SIGNAL RTI,
ANY PIN COMMAND SHOULD SET ALL ARMED INTERRUPTS.

CECIS SPECIAL ACCEPTANCE TEST 860770

AUTHOR: XEROX

ABSTRACT: TO DEMONSTRATE PERFORMANCE OF SPECIAL PARTS OF THE SYSTEM.

COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 778 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 FOR CECIS

860771 9300 REAL TIME CLOCK TEST ROUTINE

AUTHOR: XEROX ABSTRACT:

THIS PROGRAM DEMONSTRATES ACCEPTABLE PERFORMANCE OF THE REAL TIME CLOCK.

COMMENTS:

TOURCE LANGUAGE: META-SYMBOL. SIZE: 367 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 HITH A PAPER Tape reader or card reader, a typehriter attached to channel a, and a 91880 real time clock.

9300 860773

SPECIAL ACCEPT. TESTS FOR NORTH AMERICAN

AUTHOR: XEROX

ABSTRACT:

THE PURPOSE OF THESE PROGRAMS IS TO DEMONSTRATE THE REAL TIME SIMULATION SYSTEM CONFORMANCE TO REQUIREMENTS OF NAA PROCUREMENT SPECIFICATION MC 470-0080

SIZE: 2926 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 FOR NAA REAL TIME SIMULATION SYSTEM.

860776

STANDARD ANALOG TEST PROGRAM

AUTHOR: XEROX ABSTRACT:

TO CALIBRATE AND TEST ANALOG I/O EQUIPMENT.

COMMENTS:

SIZE: 12288 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH ASSOCIATED ANALOG 1/0 EQUIPMENT.

860777

BOEING RANDOM NUM. GEN. TEST PROGRAM

AUTHOR: XEROX

ABSTRACT

SSTRACT:
THIS PROGRAM TESTS THE RANDOM NUMBER GENERATOR AND MEMORY INCREMENT HARDHARE IN SIX HAYS. 1.)
SINGLE-HORD RANDOM NUMBER MODE. 2) MEMORY INCREMENT MODE 3) RANDOM NUMBER BLOCK MODE 4) TIMING OF RANDOM
NUMBER BLOCK MODE 5) TIMING OF MEMORY INCREMENT MODE 6) REGISTER TEST SOURCE LANGUAGE: META-SYMBOL.
SIZE: 6098 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300, DSC-II, INTERLACED A CHANNEL, PAPER TAPE
READER, TYPEHRITER, SPECIAL HARDWARE.

860778

9300

BOEING FAULT TREE TEST PROGRAM

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM TESTS THE BOEING FAULT TREE SYSTEM EOM'S AND SKS LINES. THERE ARE FOUR MAJOR PARTS TO THE PROGRAM: 1) CHECK ALL EOM FLIP FLOPS (FF,S) EXCEPT THE 7 TRIGGER FF,S USING ONE EOM CONNECTOR FOR OUTPUT. 2) CHECK ALL SKS INPUTS (EXCEPT THE INDIRECT SENSORS) USING ONE EOM CONNECTOR FOR OUTPUT. 3) CHECK THE 7 TRIGGER FF. 4) CHECK THE 20 INDIRECT SENSORS. COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 2322 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300, PAPER TAPE READER, INTERLACED A CHANNEL, TYPEHRITER, 4K MEMORY, SPECIAL HARDWARE.

860783

9300

ACCEPT TEST PROG FOR UCLA BRAIN RESEARCH

AUTHOR: XEROX

ABSTRACT:

TO DEMONSTRATE THE CAPABILITIES OF THE UCLA BRAIN RESEARCH SYSTEM.

SOURCE LANGUAGE: META-SYMBOL. SIZE: 20000 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH MAG TAPE, PAPER TAPE, TYPEWRITER, PRINTER, AND ASSOCIATED ANALOG 1/0 EQUIPMENT.

860787

9-TRACK MAGNETIC TAPE TEST PROGRAM

AUTHOR: XEROX

ABSTRACT:
TO TEST THE 9-TRACK MAGNETIC TAPE UNIT AND ITS COUPLER.

COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 12625 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH AT LEAST 8,192 WORDS OF MEMORY, PAPER TAPE OR CARD READER AND TYPEWRITER ON CHANNEL A, AND 9-TRACK MAGNETIC TAPE UNIT (MODEL NO.92469) WITH COUPLER (MODEL NO.92489) CONNECTED VIA A TMCC OR DACC WITH INTERLACE.

860788

9300

DOUGLAS HOL SYS, CHECK OUT PROGRAM

AUTHOR: XEROX

ABSTRACT:

TO DEMONSTRATE FUNCTIONS OF THE SYSTEM HARDWARE (MIC, SAM, CIU, ETC). COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 850 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300, 32K MEMORY.

860789

GENERAL ELECTRIC HOL SYS. CHECK OUT PROG

AUTHOR: XEROX ABSTRACT

TO DEMONSTRATE FUNCTIONS OF THE SYSTEM HARDWARE (MIC, SAM, CIV, ET C).

SOURCE LANGUAGE: META-SYMBOL. SIZE: 849 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 MITH 32K **MEMORY.**

860790 9300 ACCEPT TEST PROG. FOR NASA HOUSTON LEM

AUTHOR: XEROX

ABSTRACT:

TO CHECKOUT ANALOG I/O EQUIPMENT FOR NASA-MSC SYSTEM.

COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE: 6143 DECIMAL HORDS. COMPUTER CONFIGURATION: ANY XDS 9300 HITH MIC, MAH, THO MAG TAPES, CARD READER, PAPER TAPE 1/0, TYPEHRITER, LINE PRINTER, AND ASSOCIATED ANALOG 1/0 EQUIPMENT.

860792

9300

9379 PRINTER DIAGNOSTIC

AUTHOR: XEROX

ABSTRACT:

A SELF LOAGING PROGRAM TO PERMIT VERIFICATION OF THE 9379 BUFFERED LINE PRINTER ON AN XDS 9300 COMPUTER. THE PROGRAM OUTPUTS IN EXTENDED MODE INTERLACE WITH 10RD AND 10SD TERMINATION CODES. INTERRUPTS ARE NOT USED. THE PRINTER MAY BE UNIT 1 OR 2 CONNECTED TO ANY TMCC OR DACC.

SIZE: 768 DECIMAL. CONFIGURATION: ANY XDS 9300 COMPUTER HITH AN ATTACHED 9379 BUFFERED LINE PRINTER(\$).

860793

STRACK MAGNETIC TAPE TEST PROGRAM

AUTHOR: XEROX

ABSTRACT:
PURPOSE: TO PROVIDE A COMPREHENSIVE MEANS FOR INITIAL CHECKOUT AND TESTING OF MODEL 95489 9 TRACK MAGNETIC TAPE SYSTEM.

COMMENTS:

MINIMUM SYSTEM CONFIGURATION: 8K MEMORY KEYBOARD/PRINTER CARD READER OR PAPER TAPE READER MODEL 95489 9
TRACK MAGNETIC TAPE SYSTEM

860794

9300

9TK EXTEND HODE MULTI-MAG TAPE EXERCISER

AUTHOR: XEROX

ABSTRACT:
PURPOSE: THE PROGRAM IS DESIGNED TO EXERCISE 1 TO 8 MAGNETIC TAPES ON CHANNELS A THROUGH H. (1 TAPE PER
CHANNEL) THE EXERCISER OPERATES UNDER INTERRUPT CONTROL IN THE EXTENDED MODE USING ALL FUNCTION CODES,
SKS'S AND EDMS ASSOCIATED HITH THE CHANNEL AND MAGNETIC TAPE.

COMMENTS:
MINIMUM SYSTEM CONFIGURATION: 8K MEMORY KEYBOARD/PRINTER CARD READER OR PAPER TAPE READER 1 TO 8 MODEL 95489 STRACK MAGNETIC TAPE SYSTEMS

860795

NASA EDHARDS INTERFACE TEST

AUTHOR: XEROX

ABSTRACT:

INTERFACE TEST PROGRAM FOR THE NASA EDWARDS XDS 9300 HYBRID SYSTEM.

COMMENTS:

THE MINIMUM COMPUTER CONFIGURATION REQUIRED FOR OPERATION OF THE NASA EDMARDS INTERFACE TEST PROGRAM MUST INCLUDE THE FOLLOWING: 16K XDS 9300, MIC, MAM, CARDREADER, TYPEURITER, LINE PRINTER, JBE-34/35 DATA CHANNELS, AND ASSOCIATED ANALOG 1/0 EQUIPMENT. THIS PROGRAM INCLUDES THELVE MODES FOR ANALOG INTERFACE TESTING. THESE MODES ARE MODIFICATIONS TO CATALOG =699004B, XDS 9300 STANDARD ANALOG TEST PROGRAM, MINE OTHER MODES ARE INCLUDED TO TEST OTHER 1/0 FUNCTIONS.

860797

NORTH AMERICAN HYBRID INTERFACE TEST

AUTHOR: XEROX

ABSTRACT:

THIS IS A DIAGNOSTIC PROGRAM TO CALIBRATE AND TEST THE ANALOG AND DIGITAL INTERFACE EQUIPMENT FOR THE NAA HYBRID SYSTEM

MINIMUM CONFIGURATION IS 24K 9300, CARD READER, TELETYPE, AND SPECIAL SYSTEM INTERFACE HARDHARE(AS DESIGNED FOR THE NAA HYBRID SYSTEM

INTER-COMPUTER COUPLER TEST

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM EXERCISES THE CCE-25 INTER-COMPUTER COUPLER WHEN IT IS CONNECTED BETWEEN THO 9300 COMPUTERS.

COMMENTS:

THE PROGRAM ALLOHS THE USER TO SPECIFY THE NUMBER OF CHARACTERS PER HORD, THE TMCC TO BE USED, THE SEND INTERRUPT MEMORY LOCATION TO BE USED, THE RECEIVE INTERRUPT MEMORY LOCATION TO BE USED AND THE DATA TO

861076

USNPGS HYBRID INTERFACE TEST

AUTHOR: XEROX

ABSTRACT:

THE USPPOS HYBRID INTERFACE TEST PROGRAM IS DESIGNED TO CALIBRATE AND TEST THE HYBRID INTERFACE EQUIPMENT.

COMMENTS:

DMMENTS:
THE USNPGS HYBRID SYSTEM CONSISTS OF AN XDS 9300 DIGITAL COMPUTER INTERFACED HITH A CI 5000 ANALOG
COMPUTER. THE INTERFACE TEST PROGRAM INCLUDES CLOSED LOOP STATISTICAL COMPUTATIONS FOR TESTING A-D.D-A
CONVERTERS, TESTS FOR INTERRUPT PROCESSING, HODE CONTROL, LOOIC LINE CONTROL, DVM READOUT, POT SETTING, AND
REAL-THE CLOCK CONTROL. THE INTERFACE TEST IS A STAND-ALONE PROGRAM AVAILABLE ON BINARY CARDS HHICH CAN
BE FILLED INTO MEMORY BY USING THE ONE DR THO CARD BINARY LOADER.

9-SERIES CLASS 83 DIAGNOSTIC SUMMARIES

861077 AUTHOR: XEROX USNPGS DISPLAY TEST PROGRAM

THE USNEGS DISPLAY TEST PROGRAM PROVIDES FOR OPERATOR SELECTION OF TEST PATTERNS AND DISPLAY FUNCTIONS FOR TESTING, ADJUSTING, AND DEMONSTRATING THE THO TASKER DISPLAYS AND DISPLAY INTERFACE HARDHARE. COMMENTS:

DMMENTS:
THE DISPLAY TEST IS A STAND-ALONE PROGRAM AVAILABLE ON BINARY CARDS. IT CAN BE LOADED BY USE OF THE
STANDARD FILL PROCEDURE HITH THE ONE OR THO CARD BINARY PROGRAM LOADER. THE DISPLAY TEST PROGRAM
PROVIDES FOR TRANSMISSION OF 17 DIFFERENT TEST PATTERNS, AN END OF TRANSMISSION INTERRUPT TESTS
CHARACTER AND VECTOR RASTER GENERATION, LIGHT PEN USAGE, SCOPE KEYBOARD INPUT, AND FUNCTION PANEL INPUT.

870000

EXAMINER DIAGNOSTIC SYSTEM (COVER)

AUTHOR: XEROX

ABSTRACT:

THE 940 COMPUTER DIAGNOSTIC SYSTEM USES THE SAME TECHNIQUES AS THE 930 COMPUTER EXAMINER HHEREVER POSSIBLE, AND IT ENABLES AN OPERATOR TO EXERCISE AND DIAGNOSE THAT PORTION OF CORE MEMORY NOT REACHED BY THE 930 EXAMINER AND ALL FEATURES OF THE 940 MAIN-FRAME LOGIC NOT COMMON TO THE 930.

THIS PROGRAM INCLUDES: 860001, 860002, 860003, 860004, MEMORY ACCESS, MEMORY DIAGNOSTIC, INSTRUCTION DIAGNOSTIC AND INTERRUPT DIAGNOSTIC PROGRAMS. SEE MANUAL 900634, XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. SIZE: 16384 DECIMAL.

870001

MEMORY ACCESS DIAGNOSTIC PROGRAM

AUTHOR: XEROX

ABSTRACT:

TO DETECT AND ISOLATE PROBLEMS IN THE MEMORY RELABELING LOGIC.

COMMENTS:

SIZE: 18384 DECIMAL. THIS PROGRAM IS PART OF MODEL NO. 870000 XDS 940 EXAMINER DIAGNOSTIC SYSTEM (COVER). SEE MANUAL 900634, XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.

870002

MEMORY DIAGNOSTIC PROGRAM

AUTHOR: XEROX

ABSTRACT:

TO EXERCISE HEHORY HITH A CHECKERBOARD HORD PATTERN. MONITOR MEMORY FOR ERRORS, AND AID IN DIAGNOSING HEMORY FAILURE.

COMMENTS:

SIZE: 16384 DECIMAL. THIS PROGRAM IS PART OF MODEL NO. 870000 XDS 940 EXAMINER DIAGNOSTIC SYSTEM (COVER). SEE MANUAL 900634, XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.

870003

INSTRUCTION DIAGNOSTIC PROGRAM

AUTHOR: XEROX

TO AID IN DETERMINING AND ISOLATING FAULTS IN THE 940 INSTRUCTION LOGIC.

SIZE: 18384 DECIMAL. THIS PROGRAM IS PART OF MODEL NO. 870000 XDS 840 EXAMINER DIAGNOSTIC SYSTEM (COVER). SEE MANUAL 900634, XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.

870004

INTERRUPT DIAGNOSTIC PROGRAM

AUTHOR: XEROX

ABSTRACT:

TO DETECT AND ISOLATE PROBLEMS IN THE 940 INTERRUPT LOGIC.

COMMENTS: SIZE: 16384 DECIMAL. THIS PROGRAM IS PART OF MODEL NO. 870000 XDS 940 EXAMINER DIAGNOSTIC SYSTEM (COVER). SEE MANUAL 900634. XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.

870006

AUTHOR: XEROX

MEMORY ADDRESS TEST

ABSTRACT:

THE PROGRAM PERFORMS MEMORY ACCESSES AND CHECKS FROM THE CPU TO THE MEMORY OF A 940 COMPUTER. THE ACCESSES ARE MADE THROUGH RELABELING BYTES RO - R7 AND MB - M7. IN ADDITION LOCATIONS 4000 - 17777 OCTAL ARE ACCESSED DIRECTLY. READ ONLY AND OUT OF BOUNDS TRAPS ARE CHECKED THROUGH ALL RELABELING BYTES.

THE PROGRAM HILL OPERATE ON ANY 940 COMPUTER HITH 48K OR 64K MEMORY HORDS AND EITHER PAPER TAPE OR CARD READER FACILITIES. THE PROGRAM REQUIRES THAT THE 940 INSTRUCTION DIAGNOSTIC OPERATES CORRECTLY. CONTROL OF THE PROGRAM IS THROUGH THE CONTROL CONSOLE.

870007

AUTHOR: XEROX

940 DISC EXCERCISER DIAGNOSTIC

ABSTRACT: ISTRACT:
THE PROGRAM EXERCISES THE DISC UNIT ON A RANDOM BASIS HITHIN THE AREA OF DISC AND CORE SPECIFIED BY THE
USER. THE TEST ISSUES A SET OF DISC 1/0 COMMANDS HHICH ARE IN A SEEK AND HRITE SEEK AND SEEK AND READ
SEQUENCE. THE DUMMY SEEK IS INSERTED TO MAXIMIZE THE ARM POSITIONING FUNCTION. THE TEST HAS A SEEK/
SEARCH RECOVERY THAT HOVES THE ARM TO THE ADJACENT TRACK BEFORE ATTEMPTING TO RECOVER. THO CONSECUTIVE SEEK/SEARCH ERROR ON THE SAME DISC ADDRESS IS DEFINED TO BE A NON-RECOVERABLE ERROR.

COMMENTS:

THE PROGRAM WILL OPERATE ON ANY 940 COMPUTER WITH A CARD READER OR PAPER TAPE READER.

940 RAD DIAGNOSTIC EXERCISER 870008

AUTHOR: XEROX

ABSTRACT: THIS PROGRAM TESTS RAD CAPABILITY. RANDOM CONFIGURATIONS OF DATA AND FUNCTIONS ARE GENERATED. ERROR OUTPUTS ARE LISTED ON THE CONSOLE TYPHRITER. CONTROL PARAMETERS ARE ALSO VARIABLE. A DETAILED ABSTRACT IS PRINTED AT LOAD TIME. THE PROGRAM IS TOTALLY INDEPENDENT INCLUDING FILL.

COMMENTS:

OMMENTS:
THO BUFFER AREAS ARE USED FOR INPUT AND CUTPUT TO THE RAD. BOTH BUFFERS ARE SETUP BEFORE THE RAD IS DRIVEN. THIS NECESSARY TO CHECK THE ''EARLY HORD'' INTERRUPT OPTION. ALL ERROR MESSAGE AND PARAMETER OPTIONS ARE TRANSMITTED TO THE CONSOLE TYPHRITER READ DATA IS CHECKED AGAINST A KNOHN PATTERN. THE ENTIRE SELECTED RAD AREA IS INITIALIZED HITH CONSTANT DATA. CONTROL THEN RANDOMLY SELECTS A RAD STARTING ADDRESS, BLOCKS SIZE, AND READ OR HRITE OPTION. THE MAXIMUM BLOCK SIZE HHICH CAN BE HANDLED IS 12K HORDS. THIS IS EQUAL TO THREE RAD BANDS. BREAKPOINT CONTROL IS DISCUSSED UNDER METHODS. PROGRAM IS LOADED USING THE ONE CARD LOADER, CATALOG NUMBER 850648.

870029

OLDS3.0 CONTROL MONITOR

AUTHOR: XEROX

ABSTRACT:
THIS IS THE CONTROL MONITOR NECESSARY TO CORRECTLY RUN THE 940 OLDS SYSTEM UNITS.

UNIT 0 CPU TESTS 3.0

870030

AUTHOR: XEROX

ABSTRACT:
THIS UNIT TESTS PRELIMINARY FUNCTION OF THE 940 TO ASSURE MINIMUM OPERATIONAL EFFICIENCY.

UNIT 0 MUST BE RUN HITH THE OLDS CONTROL MONITOR

UNIT 1. CPU EXERCISER 3.0 870031

AUTHOR: XEROX

ABSTRACT:

THIS UNIT TESTS ALL CPU FUNCTIONS INCLUDING ARITHMETIC, LOGICAL, AND INTERRUPTS.

THIS UNIT MUST BE RUN HITH THE OLDS CONTROL MONITOR

UNIT 2 FLOATING POINT TESTS 3.0 870032

AUTHOR: XEROX

ABSTRACT:

THIS UNITS TESTS THE OPERATION OF THE 94400 FLOATING POINT ARITHMETIC UNIT

THIS PROGRAM MUST BE RUN HITH THE OLDS 3.0 CONTROL MONITOR

870033 940 AUTHOR: XEROX UNITS MEMORY TESTS FOR THE 2ND 16K 3.0

ABSTRACT: THIS UNIT RUNS A MEMORY DIAGNOSTIC FOR ADDRESSES 40000 TO 77777

MMENTS: This unit must be run with the OLDS 3.0 CONTROL MONITOR

UNIT 4 MEMORY TEST FOR THE 3RD 16K 3.0 870034

AUTHOR: XEROX

ABSTRACT:
THIS UNIT IS A MEMORY DIAGNOSTIC FOR ADDRESSES 100000 TO 13777
COMMENTS:

THIS UNIT MUST BE RUN WITH THE OLDS3.0 CONTROL MONITOR

UNIT 5 MEMORY TEST FOR THE 4TH 16K 3.0 870035

AUTHOR: XEROX

ABSTRACT:

THIS UNIT RUNS A DIAGNOSTIC FOR ADDRESSES 140000 TO 17777

COMMENTS: THIS UNIT MUST BE RUN WITH THE OLDS 3.0 CONTROL MONITOR

UNIT 12 E CHANNEL RAD TEST 3.0 870036 940 AUTHOR: XEROX

ABSTRACT:
THIS UNIT RUNS A TEST FOR THE 9367 RAD ADDRESS 26.66 ON E CHANNEL

THIS UNIT MUST BE RUN WITH THE OLDS 3.0 CONTROL MONITOR

870037 UNIT 15 H CHANNEL RAD TEST 3.0

AUTHOR: XEROX ABSTRACT:

THIS UNIT RUNS A DIAGNOSTIC ON THE 9317 RAD ADDRESS 26,66 ON H CHANNEL

THIS UNIT MUST BE RUN WITH THE OLDS 3.0 CONTROL MONITOR

870038 UNIT 21 H CHANNEL DISC TEST 3.0

AUTHOR: XEROX

ABSTRACT:
THIS UNIT RUNS A DIAGNOSTIC ON THE 9164 DISC ON H CHANNEL COMMENTS:

THIS UNIT MUST BE RUN WITH THE OLDS 3.0 CONTROL MONITOR

870039 UNIT 23 CTE 10/11 COM GEAR TEST 3.0

SY SY UNIT 23 CTE 10/11 COM GEAR TEST 3.0
AUTHOR: XERIX
ABSTRACT:
THIS UNITS RUNS A DIAGNOSTIC ON THE 64 CHANNELS OF THE CTE 10/11 ASYNCHRONOUS TELEPHONE INTERFACE
EQUIPTHENT

COMMENTS:
THIS UNIT MU BE RUN HITH THE OLDS 3.0 CONTROL MONITOR

870040 UNIT 18 E CHANNEL DISC

AUTHOR: XEROX ABSTRACT:

THIS UNIT TESTS THE 940 DISC FILE CONNECTED TO CHANNEL E. IT IS SIMILAR TO UNIT 21 FOR THE 9184 DISC FILE COMMENTS:

THIS PROGRAM MUST BE RUN WITH THE OLDS CONTROL MONITOR

UNIT 19 F CHANNEL DISC 870041

AUTHOR: XEROX

ABSTRACT:

THIS UNIT TESTS THE DISC CONNECTED TO CHANNEL E IT IS SIMILAR TO UNIT 21 FOR THE 8164 DISC

THIS PROGRAM MUST BE RUN HITH THE OLDS CONTROL MONITOR

870042 940 OLDS DIAGNOSTIC SYSTEM (COVER)

AUTHOR: XERCX ABSTRACT:

THIS DIAGNOSTIC ANALYZES AND EXERCISES THE 940 TIME-SHARING SYSTEM. COMMENTS:

THIS SYSTEM TAPE INCLUDES THE PROGRAMS LISTED UNDER CATALOG NUMBERS: 870029 THRU 870040

| ACEPTANCE TEST SYSTEM. SCU - MFG 88081 B3 ACEA SHULTION PROGRAM. 88081 B3 ACEA SHULTON PROGRAM. ACEA SHULTON PROGRAM. ACEA SHULTON PROGRAM. 88081 B3 ACEA SHULTON PROGRAM. ACEA SHULTON PROGRAM. ACEA SHULTON PROGRAM. B8081 B3 ACEA SHULTON PROGRAM. B8 | KEY | TITLE | CAT.NO | | KEY | | TITLE | | NO CL | |
|--|---------------------|------------------------|--------|------------|-----------------|------------|-----------------------|---------|----------------|--|
| COLOR DISPLAY SYSTEM DIAGNOSTIC PROGRAM B80018 B3 DEBUG PROGRAMSCU DIABLO DISK MIAGNOSTICSCU - B80018 B3 B80005 B3 DIAGNOSTIC PROGRAMSCU DIAGNOSTIC PROGRAMSCU B80018 B3 B80005 B3 DIAGNOSTIC PROGRAMSCU DIAGNOSTIC PROGRAMSCU B800018 B3 B80005 B3 DIAGNOSTIC PROGRAMSCU DIAGNOSTIC PROGRAMSCU B800018 B3 B800018 B3 BRITTER DIAGNOSTICSCU - B80018 B3 BROTTOTALE SCU LOADER PROGRAM (RECULE) B800018 B3 BROTTOTALE SCU LOADER PROGRAM (RECULE) B800018 B3 BROTTOTALE SCU LOADER PROGRAM (B80018 B3) BROTTOTALE SCU BROTT BROTTOTALE SCU B800018 B3 BROTTOTALE SCU LOADER PROGRAM (B80018 B3) BROTTOTALE SCU BROTT BROTTOTALE SCU B800018 B3 BROTTOTALE SCU LOADER PROGRAM (B80018 B3) BROTTOTALE SCU BROTT BROTTOTALE SCU BROTT BROTTOTALE SCU BROTT BROTTOTALE SCU BROTT BROTT BROTT BROTTOTALE SCU BROTT BRO | ACCEPTANCE TEST SY | STEMSCU - MFG | 880610 | B3 | MULTIPLY | DOUBLE PRE | CISION | 8909 | 931 B3 | |
| COLOR DISPLAY SYSTEM DIAGNOSTIC PROGRAM B80018 B3 DEBUG PROGRAMSCU DIABLO DISK MIAGNOSTICSCU - B80018 B3 B80005 B3 DIAGNOSTIC PROGRAMSCU DIAGNOSTIC PROGRAMSCU B80018 B3 B80005 B3 DIAGNOSTIC PROGRAMSCU DIAGNOSTIC PROGRAMSCU B800018 B3 B80005 B3 DIAGNOSTIC PROGRAMSCU DIAGNOSTIC PROGRAMSCU B800018 B3 B800018 B3 BRITTER DIAGNOSTICSCU - B80018 B3 BROTTOTALE SCU LOADER PROGRAM (RECULE) B800018 B3 BROTTOTALE SCU LOADER PROGRAM (RECULE) B800018 B3 BROTTOTALE SCU LOADER PROGRAM (B80018 B3) BROTTOTALE SCU BROTT BROTTOTALE SCU B800018 B3 BROTTOTALE SCU LOADER PROGRAM (B80018 B3) BROTTOTALE SCU BROTT BROTTOTALE SCU B800018 B3 BROTTOTALE SCU LOADER PROGRAM (B80018 B3) BROTTOTALE SCU BROTT BROTTOTALE SCU BROTT BROTTOTALE SCU BROTT BROTTOTALE SCU BROTT BROTT BROTT BROTTOTALE SCU BROTT BRO | ALFA EMULATOR PROGI | RAM | 880617 | B3 | NBDE - COIN | SLIM FIEL | D VERIFICATIONSC | 9800 | 318 B3 | |
| COLOR DISPLAY SYSTEM DIAGNOSTIC PROGRAM B80018 B3 DEBUG PROGRAMSCU DIABLO DISK MIAGNOSTICSCU - B80018 B3 B80005 B3 DIAGNOSTIC PROGRAMSCU DIAGNOSTIC PROGRAMSCU B80018 B3 B80005 B3 DIAGNOSTIC PROGRAMSCU DIAGNOSTIC PROGRAMSCU B800018 B3 B80005 B3 DIAGNOSTIC PROGRAMSCU DIAGNOSTIC PROGRAMSCU B800018 B3 B800018 B3 BRITTER DIAGNOSTICSCU - B80018 B3 BROTTOTALE SCU LOADER PROGRAM (RECULE) B800018 B3 BROTTOTALE SCU LOADER PROGRAM (RECULE) B800018 B3 BROTTOTALE SCU LOADER PROGRAM (B80018 B3) BROTTOTALE SCU BROTT BROTTOTALE SCU B800018 B3 BROTTOTALE SCU LOADER PROGRAM (B80018 B3) BROTTOTALE SCU BROTT BROTTOTALE SCU B800018 B3 BROTTOTALE SCU LOADER PROGRAM (B80018 B3) BROTTOTALE SCU BROTT BROTTOTALE SCU BROTT BROTTOTALE SCU BROTT BROTTOTALE SCU BROTT BROTT BROTT BROTTOTALE SCU BROTT BRO | BUUTSTRAP/ABSULUTE | LUADERSCU | 880603 | BI | NBDE IDS 10 | CONTROL P | ROGRAMSCU/ | 8800 | 311 B1 | |
| DEBUG PROGRAMSCU SB0516 B3 SB0516 | CASETTE TAPE TO SCI | J DIAGNOSTICXST | 880624 | 83 | PORTACORDER | TO SCU DR | RIVERXST | 8800 | 118 83 | |
| DEBUG PROGRAMSCU DIABLO DISK DIAGNOSTICSCU - BROOST BY DIABLO DISK DIAGNOSTICSCU - BROOST BY DIAGNOSTIC PROGRAMCLOR DISPLAY SYSTEM BROOST BY DIAGNOSTIC PROGRAMCLOR DISPLAY SYSTEM BROOST BY BR | | | | | PRINTER DIA | GNOSTIC PR | OGRAMHITYPE | 8800 | 314 B3 | |
| DIAGNOSTIC PROGRAMCLOR DISPLAY SYSTEM DIAGNOSTIC PROGRAMSCUTPE PRINTER DIAGNOSTIC PROGRAMSCUTPE PRINTER B80618 B3 B80617 B3 B80617 B3 B80617 B3 B80618 B3 B80 | | | | | | | | | | |
| DIAGNOSTIC PROGRAMCLOR DISPLAY SYSTEM DIAGNOSTIC PROGRAMSCUTPE PRINTER DIAGNOSTIC PROGRAMSCUTPE PRINTER B80618 B3 B80617 B3 B80617 B3 B80617 B3 B80618 B3 B80 | DEBUG PROGRAMSCL | J | | | RELOCATABLE | SCU LOADE | R PROGRAM (RSCULE). | 8806 | | |
| DIAGNOSTIC PROGRAMHITYPE PRINTER 080819 83 DIAGNOSTICSCU - DIABLO DISK 080807 83 DIAGNOSTICSCU - DIABLO DISK 080807 83 DIAGNOSTICSCU - VECTOR GENERAL INTERFACE 080807 83 DIAGNOSTICSCI - VECTOR GENERAL INTERFACE 080808 83 DIAGNOSTICSCI - DIABLO DISK 080808 83 DIAGNOSTICSCI - DIABLO DISK 080808 83 DIAGNOSTICSCI - DIABLO 080802 83 DISCLI - DIAGNOSTICSCI - CONTOL PROGRAM 080803 81 DIAGNOSTICSCI - DIABLO 080802 83 DIAGNOSTICSC | DIABLO DISK DIAGNOS | STICSCU - | | | ROM VERIFIC | ATION PROG | RAMSCU | 8806 | | |
| DIAGNOSTIC | | | | | ROUTINES | SCU MODULE | TEST | 8806 | | |
| DOUBLE PRECISION DIVIDE B90932 B3 SCU FUNCTION GENERATOR PROGRAM B90931 B3 SCU LOADER PROGRAM (RSCULE) RELOCATABLE B90802 B3 SCU LOADER PROGRAM (RSCULE) B90802 B3 SCU NBDE - COIN SLIM FILED VERIFICATION PROGRAM B90802 B3 SCU NBDE - COIN SLIM FILED VERIFICATI | | | | | RSCULE)RI | ELOCATABLE | SCU LOADER PROGRAM | (8806 | 327 BI | |
| DOUBLE PRECISION DIVIDE B90932 B3 SCU FUNCTION GENERATOR PROGRAM B90931 B3 SCU LOADER PROGRAM (RSCULE) RELOCATABLE B90802 B3 SCU LOADER PROGRAM (RSCULE) B90802 B3 SCU NBDE - COIN SLIM FILED VERIFICATION PROGRAM B90802 B3 SCU NBDE - COIN SLIM FILED VERIFICATI | | | | | SCU - DIABLE | O DISK DIA | GNOSTIC | 8806 | 313 B3 | |
| DOUBLE PRECISION DIVIDE B90932 B3 SCU FUNCTION GENERATOR PROGRAM B90931 B3 SCU LOADER PROGRAM (RSCULE) RELOCATABLE B90802 B3 SCU LOADER PROGRAM (RSCULE) B90802 B3 SCU NBDE - COIN SLIM FILED VERIFICATION PROGRAM B90802 B3 SCU NBDE - COIN SLIM FILED VERIFICATI | | | | | SCU - MFG A | CCEPTANCE | TEST SYSTEM | 8806 | 310 B3 | |
| DOUBLE PRECISION DIVIDE B90932 B3 SCU FUNCTION GENERATOR PROGRAM B90931 B3 SCU LOADER PROGRAM (RSCULE) RELOCATABLE B90802 B3 SCU LOADER PROGRAM (RSCULE) B90802 B3 SCU NBDE - COIN SLIM FILED VERIFICATION PROGRAM B90802 B3 SCU NBDE - COIN SLIM FILED VERIFICATI | DIAGNOSTICSCU-VE | CTOR GENERAL INTERFACE | 880608 | 83 | SCU BOOTSTR | AP/ABSOLUT | E LOADER | 8806 | 303 B1 | |
| DOUBLE PRECISION DIVIDE B90932 B3 SCU FUNCTION GENERATOR PROGRAM B90931 B3 SCU LOADER PROGRAM (RSCULE) RELOCATABLE B90802 B3 SCU LOADER PROGRAM (RSCULE) B90802 B3 SCU NBDE - COIN SLIM FILED VERIFICATION PROGRAM B90802 B3 SCU NBDE - COIN SLIM FILED VERIFICATI | DIAGNOSTICXST CA | SETTE TAPE TO SCU | 880624 | B3 | SCU DEBUG PI | ROGRAM | | 8806 | 105 83 | |
| DOUBLE PRECISION DIVIDE B90932 B3 SCU FUNCTION GENERATOR PROGRAM B90931 B3 SCU LOADER PROGRAM (RSCULE) RELOCATABLE B90802 B3 SCU LOADER PROGRAM (RSCULE) B90802 B3 SCU NBDE - COIN SLIM FILED VERIFICATION PROGRAM B90802 B3 SCU NBDE - COIN SLIM FILED VERIFICATI | DIAGNOSTIC XST ST | ENOTYPER TO SCU | 880622 | 83 | SCU DIAGNOS | TICXST | CASETTE TAPE TO | 8606 | 124 B3 | |
| DOUBLE PRECISION DIVIDE B90932 B3 SCU FUNCTION GENERATOR PROGRAM B90931 B3 SCU LOADER PROGRAM (RSCULE) RELOCATABLE B90802 B3 SCU LOADER PROGRAM (RSCULE) B90802 B3 SCU NBDE - COIN SLIM FILED VERIFICATION PROGRAM B90802 B3 SCU NBDE - COIN SLIM FILED VERIFICATI | DISK DIAGNOSTIC | SCU - DIABLO | 880613 | 83 | SCU DIAGNOS | TICXST | STENOTYPER TO | 8806 | 355 B3 | |
| DOUBLE PRECISION DIVIDE B90932 B3 SCU FUNCTION GENERATOR PROGRAM B90931 B3 SCU LOADER PROGRAM (RSCULE) RELOCATABLE B90802 B3 SCU LOADER PROGRAM (RSCULE) B90802 B3 SCU NBDE - COIN SLIM FILED VERIFICATION PROGRAM B90802 B3 SCU NBDE - COIN SLIM FILED VERIFICATI | DISK DRIVER FOR SCU | J5C433/43-44 | 880620 | B3 | SCU DRIVER. | XST PORT | ACORDER TO | 8808 | 319 B3 | |
| DOUBLE PRECISION DIVIDE B90932 B3 SCU FUNCTION GENERATOR PROGRAM B90931 B3 SCU LOADER PROGRAM (RSCULE) RELOCATABLE B90802 B3 SCU LOADER PROGRAM (RSCULE) B90802 B3 SCU NBDE - COIN SLIM FILED VERIFICATION PROGRAM B90802 B3 SCU NBDE - COIN SLIM FILED VERIFICATI | DISPLAY DRIVER FOR | XSTKEYBOARD/ | 880621 | B 3 | SCU DRIVER. | XST STEN | IOTYPER TO | 8806 | 123 B3 | |
| DOUBLE PRECISION DIVIDE B90932 B3 SCU FUNCTION GENERATOR PROGRAM B90931 B3 SCU LOADER PROGRAM (RSCULE) RELOCATABLE B90802 B3 SCU LOADER PROGRAM (RSCULE) B90802 B3 SCU NBDE - COIN SLIM FILED VERIFICATION PROGRAM B90802 B3 SCU NBDE - COIN SLIM FILED VERIFICATI | | | | | SCU FIELD VE | ERIFICATIO | N PROGRAM | 8808 | 106 B1 | |
| FIELD VERIFICATION PROGRAMSCU 880808 83 FIELD VERIFICATION PROGRAMSCU 880808 83 FIELD VERIFICATION PROGRAMSCU 880808 83 FUNCTION GENERATOR PROGRAMSCU 880808 83 GENERATOR PROGRAMSCU 880808 83 GENERATOR PROGRAMSCU FUNCTION 8 | DIVIDE DOUBLE PRE | CISION | 890932 | 83 | 200 1 1 1 1 1 1 | | M PROUNAMI.I.PRUIDIII | -F 000C | 301 B 1 | |
| FIELD VERIFICATION PROGRAMSCU 880808 83 FIELD VERIFICATION PROGRAMSCU 880808 83 FIELD VERIFICATION PROGRAMSCU 880808 83 FUNCTION GENERATOR PROGRAMSCU 880808 83 GENERATOR PROGRAMSCU 880808 83 GENERATOR PROGRAMSCU FUNCTION 8 | DOUBLE PRECISION DI | VIDE | 890932 | 83 | | | | | | |
| FIELD VERIFICATION PROGRAMSCU 880808 83 FIELD VERIFICATION PROGRAMSCU 880808 83 FIELD VERIFICATION PROGRAMSCU 880808 83 FUNCTION GENERATOR PROGRAMSCU 880808 83 GENERATOR PROGRAMSCU 880808 83 GENERATOR PROGRAMSCU FUNCTION 8 | DOUBLE PRECISION MU | LTIPLY | 890931 | 83 | SCU LOADER | PROGRAM (R | SCULE)RELOCATABLI | 8806 | 327 BI | |
| FIELD VERIFICATION PROGRAMSCU 880808 83 FIELD VERIFICATION PROGRAMSCU 880808 83 FIELD VERIFICATION PROGRAMSCU 880808 83 FUNCTION GENERATOR PROGRAMSCU 880808 83 GENERATOR PROGRAMSCU 880808 83 GENERATOR PROGRAMSCU FUNCTION 8 | DRIVER FOR SCUSC | 433/43-44 DISK | 880620 | 83 | SCU LOADER F | PROGRAM (S | CULE) | 8806 | 500 B1 | |
| FIELD VERIFICATION PROGRAMSCU 880808 83 FIELD VERIFICATION PROGRAMSCU 880808 83 FIELD VERIFICATION PROGRAMSCU 880808 83 FUNCTION GENERATOR PROGRAMSCU 880808 83 GENERATOR PROGRAMSCU 880808 83 GENERATOR PROGRAMSCU FUNCTION 8 | DRIVER FOR XSTKE | YBOARD/DISPLAY | 880621 | B3 | SCU MODULE 1 | TEST ROUT! | NES | 8806 | 105 BS | |
| FIELD VERIFICATION PROGRAMSCU 880808 83 FIELD VERIFICATION PROGRAMSCU 880808 83 FIELD VERIFICATION PROGRAMSCU 880808 83 FUNCTION GENERATOR PROGRAMSCU 880808 83 GENERATOR PROGRAMSCU 880808 83 GENERATOR PROGRAMSCU FUNCTION 8 | DRIVERXST PORTAC | ORDER TO SCU | 880619 | 83 | SCU NBDE - (| COIN SLIM | FIELD VERIFICATION. | . 9806 | 118 B3 | |
| FIELD VERIFICATION PROGRAMSCU 880808 83 FIELD VERIFICATION PROGRAMSCU 880808 83 FIELD VERIFICATION PROGRAMSCU 880808 83 FUNCTION GENERATOR PROGRAMSCU 880808 83 GENERATOR PROGRAMSCU 880808 83 GENERATOR PROGRAMSCU FUNCTION 8 | DRIVERXST STENOT | YPER TO SCU | 880623 | 83 | SCU ROM VER | IFICATION | PROGRAM | 9806 | 109 B3 | |
| FIELD VERIFICATION PROGRAMSCU 880808 83 FIELD VERIFICATION PROGRAMSCU 880808 83 FIELD VERIFICATION PROGRAMSCU 880808 83 FUNCTION GENERATOR PROGRAMSCU 880808 83 GENERATOR PROGRAMSCU 880808 83 GENERATOR PROGRAMSCU FUNCTION 8 | EMULATOR PROGRAM | ALFA | 880617 | 83 | SCUSC433/ | /43-44 DIS | K DRIVER FOR | 8806 | 150 83 | |
| SENERATOR PROGRAMSCU PORTION BBUBLE B3 STENOTYPER TO SCU DIAGNOSTICXST BBUBLE B3 STENOTYPER TO SCU DRIVERXST SBUBLE B3 STENOTYPER TO SCU DR | FIELD VERIFICATION | PROGRAMPROTOTYPE SCU | 880601 | B1 | SCU-VECTOR (| BENERAL IN | ITERFACE DIAGNOSTIC. | . 8806 | 108 83 | |
| SENERATOR PROGRAMSCU PORTION BBUBLE B3 STENOTYPER TO SCU DIAGNOSTICXST BBUBLE B3 STENOTYPER TO SCU DRIVERXST SBUBLE B3 STENOTYPER TO SCU DR | | | 880606 | B1 | SCU/NBDE IDS | S 10 CONTR | OL PROGRAM | 8806 | 111 0 1 | |
| SENERATOR PROGRAMSCU PORTION BBUBLE B3 STENOTYPER TO SCU DIAGNOSTICXST BBUBLE B3 STENOTYPER TO SCU DRIVERXST SBUBLE B3 STENOTYPER TO SCU DR | FIELD VERIFICATION. | SCU NBDE - COIN SLIM | 880618 | B 3 | SCULE) SCU | J LOADER P | ROGRAM (| 8806 | 100 B1 | |
| SENERATOR PROGRAMSCU PORTION BBUBLE B3 STENOTYPER TO SCU DIAGNOSTICXST BBUBLE B3 STENOTYPER TO SCU DRIVERXST SBUBLE B3 STENOTYPER TO SCU DR | FUNCTION GENERATOR | PROGRAMSCU | 890628 | 83 | SC411 DIAGNO | OSTIC PROG | RAM | 8806 | 107 B3 | |
| SENERATOR PROGRAMSCU PORTION BBUBLE B3 STENOTYPER TO SCU DIAGNOSTICXST BBUBLE B3 STENOTYPER TO SCU DRIVERXST SBUBLE B3 STENOTYPER TO SCU DR | GENERAL INTERFACE D | IAGNOSTICSCU-VECTOR | 890608 | 83 | SC433/43-44 | DISK DRIV | ER FOR SCU | 8806 | 120 B3 | |
| IDS 10 CONTROL PROGRAMSCU/NBDE B80611 B1 VECTOR GENERAL INTERFACE DIAGNOSTICSCU- B80608 B3 INTERFACE DIAGNOSTICSCU- B80608 B3 VERIFICATION PROGRAMSCU FIELD B80608 B1 VERIFICATION PROGRAMSCU FIELD B80608 B1 VERIFICATION PROGRAMSCU ROM B80608 B1 VERIFICATION PROGRAMSCU ROM B80608 B3 B80608 B3 | GENERATOR PROGRAM | .SCU FUNCTION | 880628 | B3 | SLIM FIELD Y | VERIFICATI | ONSCU NBDE - COI | 8080 | 118 83 | |
| IDS 10 CONTROL PROGRAMSCU/NBDE B80611 B1 VECTOR GENERAL INTERFACE DIAGNOSTICSCU- B80608 B3 INTERFACE DIAGNOSTICSCU- B80608 B3 VERIFICATION PROGRAMSCU FIELD B80608 B1 VERIFICATION PROGRAMSCU FIELD B80608 B1 VERIFICATION PROGRAMSCU ROM B80608 B1 VERIFICATION PROGRAMSCU ROM B80608 B3 B80608 B3 | HANDLERHITYPE | | 880615 | B 3 | STENOTYPER 1 | TO SCU DIA | GNOSTICXST | 8806 | 125 B3 | |
| IDS 10 CONTROL PROGRAMSCU/NBDE B80611 B1 VECTOR GENERAL INTERFACE DIAGNOSTICSCU- B80608 B3 INTERFACE DIAGNOSTICSCU- B80608 B3 VERIFICATION PROGRAMSCU FIELD B80608 B1 VERIFICATION PROGRAMSCU FIELD B80608 B1 VERIFICATION PROGRAMSCU ROM B80608 B1 VERIFICATION PROGRAMSCU ROM B80608 B3 B80608 B3 | HITYPE HANDLER | | 880615 | B3 | | | | 8806 | 23 83 | |
| IDS 10 CONTROL PROGRAMSCU/NBDE B80611 B1 VECTOR GENERAL INTERFACE DIAGNOSTICSCU- B80608 B3 INTERFACE DIAGNOSTICSCU- B80608 B3 VERIFICATION PROGRAMSCU FIELD B80608 B1 VERIFICATION PROGRAMSCU FIELD B80608 B1 VERIFICATION PROGRAMSCU ROM B80608 B1 VERIFICATION PROGRAMSCU ROM B80608 B3 B80608 B3 | HITYPE PRINTER DIAG | NOSTIC PROGRAM | 880614 | 83 | SYNCHRONOUS | LINE INTR | FACE MODULE TEST | | | |
| INTERFACE DIAGNOSTICSCU-VECTOR GENERAL 880608 B3 VERIFICATION PROGRAMPROTOTYPE SCU FIELD 880601 B1 INTERFACE MODULE TESTSYNCHRONOUS LINE 880625 B3 VERIFICATION PROGRAMSCU FIELD 880608 B1 KEYBOARD/DISPLAY DRIVER FOR XST 880621 B3 UNDERFACE MODULE TESTSYNCHRONOUS LINE 880601 B1 VERIFICATION PROGRAMSCU FIELD 880608 B3 VERIFICATION PROGRAMSCU FIELD 880608 B3 VERIFICATION PROGRAMSCU FIELD 880608 B3 VERIFICATION PROGRAMPROTOTYPE SCU FIELD 880608 B1 VERIFICATION PROGRAMSCU FIELD 880608 B3 VERIFICATION PROGRAMSCU FIELD 880608 B1 VERIFICATION PROGRAMSCU FIELD 880608 B3 | IDS 10 CONTROL PROG | RAMSCU/NBDE | 880611 | B1 | VECTOR GENER | RAL INTERF | ACE DIAGNOSTIC SCI | J- 8806 | 108 83 | |
| INTRFACE MODULE TESTSYNCHRONOUS LINE 880625 B3 VERIFICATION PROGRAMSCU FIELD 880606 B1 KEYBOARD/DISPLAY DRIVER FOR XST 880621 B3 VERIFICATION PROGRAMSCU ROM 880609 B3 LOADER PROGRAM (ESCULE) PELOCATABLE SCU. 880621 B3 VERIFICATION SCU. 880609 B3 | INTERFACE DIAGNOSTI | CSCU-VECTOR GENERAL | 880608 | 83 | VERIFICATION | PROGRAM. | PROTOTYPE SCU FIEL | D 8806 | 101 M1 | |
| KEYBOARD/DISPLAY DRIVER FOR XST 880621 83 VERIFICATION PROGRAMSCU ROM 880602 83 | INTRFACE MODULE TES | TSYNCHRONOUS LINE | 880625 | B3 | | | | | | |
| I MADER PROGRAM (ESCULE) PELOCATABLE SCU. BROSZER BI VERIELCATION SCU. NORE - CAIN BLIM SIELD - BROSZER BY | KEYBOARD/DISPLAY DR | IVER FOR XST | 880621 | 83 | | | | | | |
| LOADER PROGRAM (SCULE)SCU 880600 B1 XST CASETTE TAPE TO SCU DIAGNOSTIC 880624 B3 LOADERSCU BOOTSTRAP/ABSOLUTE 880603 B1 XST PORTACORDER TO SCU DRIVER 880619 B3 MFG ACCEPTANCE TEST SYSTEMSCU 880610 B3 XST STENOTYPER TO SCU DIAGNOSTIC 880622 B3 MODULE TEST ROUTINESSCU 880602 B2 XST STENOTYPER TO SCU DRIVER 880623 B3 MODULE TESTSYNCHRONOUS LINE INTRFACE 880625 B3 XSTKEYBOARD/DISPLAY DRIVER FOR 880621 B3 | LOADER PROGRAM (RSC | ULE) RELOCATABLE SCU | 880627 | 81 | | | | | | |
| LOADERSCU BOOTSTRAP/ABSOLUTE BB0603 B1 XST PORTACORDER TO SCU DRIVER 880619 83 MFG ACCEPTANCE TEST SYSTEMSCU - 880610 B3 XST STENOTYPER TO SCU DIAGNOSTIC 880622 83 MODULE TEST ROUTINESSCU BB0602 B2 XST STENOTYPER TO SCU DRIVER 880623 83 MODULE TESTSYNCHRONOUS LINE INTRFACE 880625 B3 XSTKEYBOARD/DISPLAY DRIVER FOR 880621 83 | LOADER PROGRAM (SCU | LE)SCU | 880600 | Bi | XST CASETTE | TAPE TO S | CU DIAGNOSTIC | 8806 | | |
| HFG ACCEPTANCE TEST SYSTEMSCU - 880610 B3 XST STEMOTYPER TO SCU DIAGNOSTIC 880622 B3 MODULE TEST ROUTINESSCU 880602 B2 XST STEMOTYPER TO SCU DRIVER 980623 B3 MODULE TESTSYNCHRONOUS LINE INTRFACE 880625 B3 XSTKEYBOARD/DISPLAY DRIVER FOR 880621 B3 | LOADERSCU BOOTST | RAP/ABSOLUTE | 880603 | Bi | XST PORTACOR | RDER TO SC | U DRIVER | 8804 | | |
| MODULE TEST ROUTINESSCU BB0602 B2 XST STENOTYPER TO SCU DRIVER 880823 83 MODULE TESTSYNCHRONOUS LINE INTRFACE BB0625 B3 XSTKEYBOARD/DISPLAY DRIVER FOR 880821 83 | MFG ACCEPTANCE TEST | SYSTEMSCU - | 880610 | B3 | XST STENOTY | PER TO SCU | DIAGNOSTIC | 8804 | | |
| MODULE TESTSYNCHRONOUS LINE INTRFACE 880625 83 XSTKEYBOARD/DISPLAY DRIVER FOR 880621 83 | MODULE TEST ROUTINE | SSCU | 880602 | B2 | XST STENOTY | PER TO SCU | DRIVER | 8604 | | |
| | HODULE TEST SYNCH | RONOUS LINE INTRFACE | 880625 | B3 | XSTKEYBOA | ARD/DISPLA | Y DRIVER FOR | 9806 | | |

SI XEROX SCU DOUBLE PRECISION MULTIPLY AUTHOR:D. MCGINNES, L. BRENTON, XEROX CORPORATION ABSTRACE: 890931

ABSTRACT:
A FIXED POINT MULTIPLY ROUTINE FOR MULTIPLYING THO 16-BIT SIGNED NUMBERS AND PRODUCING A 32-BIT SIGNED PRODUCT. THE CODE CHECKS THE INPUTS FOR MAGNITUDE TO MINIMIZE CALCULATION EXECUTION TIME.

COMMENTS:
THIS PROGRAM HILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

890932

32 XEROX SCU DOUBLE PRECISION DIVIDE
AUTHOR:D. MCGINNES, L. BRENTON, XEROX CORPORATION
ABSTRACT:
A FIXED POINT DIVIDE ROUTINE FOR DIVIDING A 32-BIT SIGNED NUMBER BY A 16-BIT SIGNED DIVISOR AND PRODUCING A 16-BIT SIGNED QUOTIENT AND A 16-BIT REMAINDER.

COMMENTS:
THIS PROGRAM HILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

D XEROX SCU SCU LOA AUTHOR:XEROX, HESTERN TECHNOLOGY CENTER SCU LOADER PROGRAM (SCULE) 880600

AUTHORIZERUA, MESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS NON RELOCATABLE PROGRAM LOADS PAPER TAPE INPUT* (HHICH IS IN SIGMA 5/9 STANDARD OBJECT LANGUAGE
FORMAT DERIVED FROM PROGRAMS ASSEMBLED UNDER THE SCU ASSEMBLER HITH THE ASECT DIRECTIVE) INTO CONTROL
MEMORY (RAM) AND/OR HAIN HEMORY OF THE SCU.
*THIS PROGRAM IS DESIGNED FOR ASR33/35 OR HIGH SPEED OPTICAL READER. THESE OPTIONS ARE SELECTED VIA MCP
DATA SHITCHES.

DATA SHITCHES.

COMMENTS:

COMMENTS:

THIS PROGRAM HILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE

MAIN PROGRAM IS HRITTEN IN SCU ASSEMBLY LANGUAGE.

MINIMUM CONFIGURATION: SCU HITH CONTROL MEMORY AND EITHER AN ASR33/35 OR HIGH SPEED OPTICAL READER.

OPTIONAL: HAIN MEMORY. CONTROL MEMORY REQUIREMENTS: 172 HORDS PLUS 3 LOCATIONS OF RAM FOR TEMPORARY

STORAGE (ADDRESSES BETMEEN 0 AND FF).

XEROX SCU PROTOTYPE SCU FIELD VERIFICATION PROGRAM 880601

AUTHOR: XEROX, HESTERN TECHNOLOGY CENTER

ABSTRACT: THIS PROGRAM IS CONTAINED ON THE SCU DIAGNOSTIC MODULE AND IS USED FOR FIELD TESTING OF PROTOTYPE SCU'S. COMMENTS:

DMMENTS: PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN SCU META-SYMBOL. Locations x'fod'-x'fff' of control memory of all scu's Hill contain thi**s program**.

SCU BOOTSTRAP/ABSOLUTE LOADER 880603 XEROX SCU

AUTHOR: XEROX, HESTERN TECHNOLOGY CENTER

ABSTRACT: STRACT:
THIS RELOCATABLE PROGRAM FUNCTIONS AS EITHER A BOOTSTRAP OR ABSOLUTE LOADER FOR PAPER TAPE INPUT. AS A
BOOTSTRAP, ITS FUNCTION IS TO LOAD THE SCU LOADER PROGRAM INTO CONTROL MEMORY. AS AN ABSOLUTE LOADER,
IT HILL LOAD PAPER TAPE INPUT INTO CONTROL MEMORY OR (HITH A MINOR CHANGE) INTO MAIN MEMORY. THIS
PROGRAM IS FOR TTY PAPER TAPE INPUT BUT MAY BE MODIFIED FOR THE HIGH SPEED READER; INPUT TAPE IS IN SOCM
FORMAT (SIGMA-SUPPRESS OBJECT CONTROL HORD).

COMMENTS: PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN SCU ASSEBLER LANGUAGE.
CONFIGURATION: SYSTEM CONTROL UNIT (SCU) WITH CONTROL MEMORY AND/OR MAIN MEMORY AND ASR33/35 TELETYPE.
REQUIRES 9 WORDS OF CONTROL MEMORY.

B XEROX SCU SCU FIELD VERIFICATION PROGRAM AUTHOR:XEROX, WESTERN TECHNOLOGY CENTER ARSTRACT 880606

ABSTRACT: PRIMALI: THIS PROGRAM IS CONTAINED ON THE SCU DIAGNOSTIC MODULE, AND IS USED FOR FIELD VERIFICATION OF THE SCU'S OPERATION. THIS IS FOR PRODUCTION MODELS OF SCU'S ONLY.

PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS SCU META-SYMBOL. Locations x'foo'-x'fff' of the scu control memory are occupied by this routine.

1 XEROX SCU SCU/NBDE IDS 10 CONTROL PROGRAM-AUTHOR: XEROX CORPORATION, MESTERN TECHNOLOGY CENTER 880611

ABSTRACT:
ALLOWS THE NBDE IDS 10 KEYBOARD/DISPLAY TERMINAL TO INTERFACE WITH A XEROX 530 COMPUTER VIA A SCU.
XEROX 530 PROGRAMS MAY COMMUNICATE WITH THE NBDE IDS 10 TERMINAL USING A SUBSET OF THE STANDARD SCIOO COMMUNICATIONS PROTOCOL.

COMMUNICATIONS PROTOCOL.

COMMENTS:

PROGRAM TYPE IS CONTROL PROGRAM IN SCU. BASE LANGUAGE MAIN PROGRAM IS MRITTEN IN SCU.

DESIGNED SPECIFICALLY FOR THE NBDE IDS 10 INTERFACE TO A XEROX 530. REQUIRES MODIFICATION TO THE

STANDARD XEROX 530 MCCD AND SKD HANDLER. USES MALF DUPLEX SYNCHEOMOUS CC33 AND SLIM. REQUIRES 2K OF

CONTROL MEMORY, 512 HORDS OF FAST MEMORY, AND 1152 HORDS OF MAIN MEMORY FOR EACH OF UP TO 12 TERMINALS FOR REFRESH MEMORY.

7 XEROX SCU RELOCATABLE SCU LOADER PROGRAM (RSCULE)
AUTHOR: MESTERN TECHNOLOGY CENTER, XEROX CORPORATION

AUTHORIMESTERM TECHNOLOGY CENTER, ABOUT COMMENT THE RELOCATABLE SCU LOADER (RSCULE) LOADS PAPER TAPE INPUT (HHICH IS IN SIGHA 5-9 STANDARD OBJECT LANGUAGE FORMAT DERIVED FROM PROGRAMS ASSEMBLED UNDER THE SCU ASSEMBLER HITH THE ASECT DIRECTIVE) INTO CONTROL HEMORY (RAM) AND/OR MAIN MEMORY OF THE SCU.

INTICALIS: THIS PROGRAM HILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN Program is written in Xerox Scu.

880602 XEROX SCU SCU MODULE TEST ROUTINES
AUTHOR:XEROX, MESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS ROUTINE TESTS SCU MODULES. THE TEST DATA IS SUPPLIED FROM THE OUTPUT OF THE PARAMETER PREPERATION ROUTINE.
COMMENTS:
PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN SCU METASYMBOL.
USING THIS ROUTINE, THE PARAMETER TAPES, AND THE MODULE TEST HARDWARE, SCU LOGIC MODULES ARE TESTED.

880605 XEROX SCU SCU DEBUG PROGRAM

AUTHOR: XEROX, HESTERN TECHNOLOGY CENTER

ARSTRACT:

THE SCU DEBUG PROGRAM (DEBUG) PROVIDES AN INTERACTIVE SOFTHARE DIAGNOSTIC ROUTINE FOR THE SYSTEM CONTROL UNIT. ITS CAPABILITIES INCLUDE THE DISPLAY AND MODIFICATION OF CONTROL AND SCRATCH PAD/MAIN MEMORIES IN ADDITION TO PROVIDING EXECUTION TIME BREAKPOINTS.

COMMENTS:

THIS PROGRAM HILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN SCU META-SYMBOL.

DEBUG REQUIRES A SCU HITH A MAIN MEMORY MODULE, AN ALTERABLE CONTROL MEMORY AND A TELETYPE TERMINAL AND INTERFACE MODULE.

880607 XEROX SCU SC411 DIAGNOSTIC PROGRAM

AUTHOR: XEROX, HESTERN TECHNOLOGY CENTER

ABSTRACT:
THIS PROGRAM IS KEYBOARD INTERACTIVE AND RUNS STAND ALONE. THE COMPUTER CONNECTED TO THE OTHER END OF SCHIL CABLES MUST RUN A COMPATIBLE PROGRAM. THIS PROGRAM IS PAL#708489 FOR SIGMA 5/9 COMPUTERS. COMMENTS:

THIS PROGRAM HILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN Program is Hritten in Scu meta-symbol.

SCU-VECTOR GENERAL INTERFACE DIAGNOSTIC 880608 XEROX SCU

AUTHOR: XEROX CORPORATION, HESTERN TECHNOLOGY CENTER

ABSTRACT:
THIS PROGRAM VERIFIES THE CORRECT FUNCTIONING OF THE INTERFACE BETHEEN A SYSTEM CONTROL UNIT AND A
VECTOR GENERAL GRAPHIC DISPLAY UNIT. THE PROGRAMMED INPUT/OUTPUT FUNCTION, THE REFRESH DATA FUNCTION,
AND THE DISPLAY INTERRUPT FUNCTION ARE TESTED. COMMENTS

THIS PROGRAM WILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

CONFIGURATION REQUIRED TO RUN THIS PROGRAM IS 9 XEROX GDIOIA, HHICH INCLUDES THE SCU AND THE VG DISPLAY.

880609 SCU ROM VERIFICATION PROGRAM AUTHOR: HESTERN TECHNOLOGY CENTER, XEROX CORPORATION

ABSTRACT:

ISTRACT:
THE SCU ROM VERIFICATION PROGRAM IS DESIGNED TO TEST AND CONFIRM THE CONTENTS OF A ROM. USING THE
MANUFACTURING ACCEPTANCE TEST DUAL SCU SYSTEM. THE PROGRAM READS THE ROM AND A COMPARISON PAPER TAPE
CONCURRENTLY AND REPORTS ERRORS ON THE TELETYPE TERMINAL.

THIS PROGRAM HILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN SCU METASYMBOL.

PROGRAM REQUIRES THE MANUFACTURING ACCEPTANCE TEST DUAL SCU CONFIGURATION AND A TELETYPE.

O XEROX SCU SCU - HFG ACCEPTANCE TEST SYSTEM AUTHOR:XEROX, HESTERN TECHNOLOGY CENTER 880510

ABSTRACT:
THE TEST SYSTEM IS AN OPERATOR CONTROLLED SYSTEM WHICH CONSISTS OF AN ORDERED SET OF TESTS WHICH WHEN
EXECUTED DRIVES AND TESTS ANOTHER SCU SO AS TO GIVE ASSURANCE OF WORKABILITY OF THIS SCU-UNDER-TEST. COMMENTS:

THIS PROGRAM HILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC OR QUALITY ASSURANCE. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN SCU.
TTY TIED TO MASTER SCU FOR INPUT/OUTPUT FACILITIES. SCU-UNDER-TEST DRIVEN AND TESTED BY MASTER SCU VIA INTERFACE CONNECTOR HARDMARE.

880613 3 XEROX SCU SCU - DIABLO DISK DIAGNOSTIC AUTHOR: XEROX CORPORATION, MESTERN TECHNOLOGY CENTER

ABSTRACT:

THIS DIAGNOSTIC TESTS THE SCU SC433 HODULE AND A DIABLO HODEL 43 OR 44 DISK DRIVE. THIS DIAGNOSTIC MAY ALSO BE USED TO INITIALIZE DISK SURFACES. COMMENTS:

PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. THIS DIAGNOSTIC REQUIRES A SCU WITH 2K CONTROL MEMORY, AND A MAINTANCE PANEL, AND IK MAIN MEMORY.

4 XEROX SCU HITYPE PRINTER DIAGNOSTIC PROGRAM AUTHOR: XEROX CORPORATION, MESTERN TECHNOLOGY CENTER 880614

ABSTRACT:

THE HITYPE PRINTER DIAGNOSTIC TESTS THE DEVICE AND CONTROLLER (DIM) ON THE SYSTEM CONTROL UNIT (SCU).

THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.
REQUIRES 280 HORDS OF CONTROL MEMORY AND 100 HORDS OF MAIN/SCRATCH.

HITYPE HANDLER 880615 XEROX SCU AUTHOR: XEROX CORPORATION, HESTERN TECHNOLOGY CENTER

ABSTRACT: THE HITYPE HANDLER IS A GENERAL PURPOSE HANDLER THAT WILL CONTROL THE HITYPE PRINTER.

880815 CONTINUED ON FOLLOWING PAGE

880615

HITYPE HANDLER

(CONTINUED)

COMMENTS: THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. REQUIRES 180 HORDS OF CONTROL MEMORY AND 10 HORDS OF MAIN/SCRATCH.

8 XEROX SCU COLOR DISPLAY SYSTEM DIAGNOSTIC PROGRAM AUTHOR: XEROX CORPORATION, HESTERN TECHNOLOGY CENTER 880616

ABSTRACT:

THE COLOR DISPLAY SYSTEM (CDS) DIAGNOSTIC PROGRAM HILL TEST BOTH THE CDS DISPLAY AND KEYBOARD.

THIS PROGRAM HILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
CDS DIAGNOSTIC REQUIRES 500 WORDS OF CONTROL MEMORY AND 1800 WORDS OF MAIN/SCRATCH.

7 XEROX SCU ALFA EMULATOR PROGRAM AUTHOR:XEROX CORPORATION, WESTERN TECHNOLOGY CENTER

THE COLOR DISPLAY SYSTEM (CDS) DIAGNOSTIC PROGRAM HILL TEST BOTH THE CDS DISPLAY AND KEYBOARD.

THIS PROGRAM HILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL.

CDS DIAGNOSTIC REQUIRES 500 HORDS OF CONTROL MEMORY AND 1800 HORDS OF MAIN/SCRATCH.

SCU NBDE - COIN SLIM FIELD VERIFICATION XEROX SCU 880618

AUTHOR: XEROX CORPORATION

AUTHORIZERUS CONFORMATION
ABSTRACT:
THIS PROGRAM IS USED TO TEST AND EXERCISE THE SYNCHRONOUS LINE INTERFACE MODULE (SLIM) REPORTING ONLY A
IGOI OR INO-GOI STATUS HHEN IT IS ATTACHED TO THE I/O BUS OF THE SCU. THE TEST PERFORMS ONLY IN A
SYNCHRONOUS MODE OF COMMUNICATIONS, 7-BIT CHARACTER LENGTH HITH AN BTH BIT ODD PARITY GENERATION. THE
TEST IS PERFORMED HITHIN THE ILOOP! MODE CAPABILITY OF THE MODULE. A FIXED TRANSHIT BUFFER (32
CHARACTERS) IS CHECKED AGAINST THE RECEIVE BUFFER FOR VALIDATING THE STATUS OF THE SLIM.

THIS PROGRAM HILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS FIELD DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN XEROX SCU.

9 XEROX SCU XST PORTACORDER TO SCU DRIVER AUTHOR: XEROX CORPORATION, MESTERN TECHNOLOGY CENTER

ABSTRACT:
THE PORTACORDER CASSETTE HANDLER IS A TABLE DRIVEN PROGRAM. IT CONTROLS THE PORTACORDER CASSETTE
DEVICE FOR READING AND HRITING 7 BIT DATA AND READING PRE-RECORDED STENO FORMS.

THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. THE DRIVER REQUIRES 390 HORDS OF CONTROL MEMORY AND 20 HORDS OF MAIN/SCRATCH MEMORY.

SC433/43-44 DISK DRIVER FOR SCU XEROX SCU 880620

AUTHOR: XEROX CORPORATION, HESTERN TECHNOLOGY CENTER

ABSTRACT: THIS PROGRAM IS DESIGNED TO BE USED AS A DISK DRIVER BY AN ALPHA 16 PROGRAM RUNNING UNDER THE ALPHA EMULATOR. HITH AN APPROPRIATE CALLING SEQUENCE THE PROGRAM MAY ALSO BE USED IN A STAND-ALONE MODE. I DRIVER IS DRIVEN BY A FUNCTION PARAMETER TABLE AND HILL READ OR HRITE ONE OR MORE SECTORS INTO A USER BUFFER.

THIS PROGRAM WILL RUN UNDER SCU OPERATING SYSTEM. PROGRAM TYPE IS 10 DRIVER. BASE LANGUAGE MAIN PROGRAM IS MRITTEN IN METASYMBOL. THE PROGRAM MUST BE ASSEMBLED WITH THE SCU METASYMBOL PROC DECK. THE DRIVER USES 450 HORDS OF CONTROL MEMORY AND 40 HORDS OF MAIN MEMORY.

21 XEROX SCU KEYBOARD/DISPLAY DRIVER FOR XST AUTHOR:XEROX CORPORATION, HESTERN TECHNOLOGY CENTER 880621

AUTHOR: KERGY COMPORATION, RESIDENT TECHNOLOGY OF THE USER WITH A DISPLAY DRIVER FOR THE COLOR DISPLAY THE SCU KEYBOARD/DISPLAY DRIVER PACKAGE PROVIDES THE USER WITH A DISPLAY DRIVER FOR THE COLOR DISPLAY SYSTEM (CDS) AND A KEYBOARD DRIVER FOR THE XST 105-10 TYPE KEYBOARD. THE CDS DESCRIPTION DOCUMENT IS DRAWING #207728.

COMMENTS: THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DRIVER. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. THESE DRIVERS REQUIRE 2K OF MAIN MEMORY AND 512 HORDS OF CONTROL MEMORY.

XST STENOTYPER TO SCU DIAGNOSTIC 880622 YEROY SCU

AUTHOR: XEROX CORPORATION, HESTERN TECHNOLOGY CENTER

ABSTRACT:

JENIAULE THIS DIAGNOSTIC READS STROKES FROM AN XST STENOTYPER AND PRINTS THE STROKES IN A READABLE FORM ON A Diablo printer. Various error conditions are indicated by error messages logged to the printer.

880622 CONTINUED ON FOLLOHING PAGE

COMMENTS:

XST STENOTYPER TO SCU DIAGNOSTIC (CONTINUED)

THIS PROGRAM HILL RUN UNDER SCU OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN
PROGRAM IS WRITTEN IN METASYMBOL.
THE DIAGNOSTIC RUNS STAND-ALONE. THE DIAGNOSTIC USES 750 HORDS OF CONTROL MEMORY AND 100 HORDS OF MAIN 880622 MEMORY.

XST STENOTYPER TO SCU DRIVER XST STENOTYPER TO SE AUTHOR: XEROX CORPORATION, HESTERN TECHNOLOGY CENTER 880623

AUTHORISERUS CORPORATION, NECTION ABSTRACT:

THIS PROGRAM IS DESIGNED TO BE USED AS A STENOTYPER DRIVER BY AN ALPHA 18 PROGRAM RUNNING UNDER THE ALPHA EMULATOR. HITH AN APPROPRIATE CALLING SEQUENCE, THE PROGRAM MAY ALSO BE USED IN A STAND-ALONE MODE. THE DRIVER IS DRIVEN BY A FUNCTION PARAMETER TABLE AND HILL READ ONE OR MORE STENO STROKES INTO A MODE. THE DUSER BUFFER.

THIS PROGRAM WILL RUN UNDER SCU OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

THE DRIVER PACKS THE 23 BITS GENERATED BY THE STENO INTO A FORMAT DESCRIBED IN THE -11. THE DRIVER USES 200 WORDS OF CONTROL MEMORY AND 30 WORDS OF MAIN MEMRORY.

XST CASETTE TAPE TO SCU DIAGNOSTIC 880624 XEROX SCU AUTHOR: XEROX CORPORATION, HESTERN TECHNOLOGY CENTER

ABSTRACT:

THIS DIAGNOSTIC READS STENG STROKES FROM AN XST CASETTE TAPE AND PRINTS THEM IN A READABLE FORM ON THE DIABLO PRINTER. ALSO THE DIAGNOSTIC HILL HRITE DATA RECORDS ON A TAPE AND THEN READ AND VERIFY THE RECORDS. THE DIAGNOSTIC HILL ALSO TEST DEVICE STATUS AND PRINT ERROR MESSAGES WHERE REQUIRED.

THIS PROGRAM WILL RUN UNDER SCU OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN METASYMBOL. THE DIAGNOSTIC USES 1500 HORDS OF CONTROL MEMORY AND 300 HORDS OF MAIN MEMORY. THE DIAGNOSTIC RUNS STAND-ALONE. A HY-TYPE PRINTER IS REQUIRED.

SYNCHRONOUS LINE INTRFACE MODULE TEST AUTHOR: XEROX CORPORATION, HESTERN TECHNOLOGY CENTER 880625

ABSTRACT: THIS PROGRAM IS OPERATED VIA THE SCU OPERATOR'S PANEL ONLY AND IS USED TO TEST AND EXERCISE THE SYNCHRONOUS LINE INTERFACE MODULE (SLIM). THE SYNCHRONOUS, ISOCHRONOUS, OR ASYNCHRONOUS MODE OF COMMUNICATIONS WITH EVEN/ODD PARITY SELECTION AND PARITY INHIBIT/NO INHIBIT SELECTIONS ARE ALLOMED.

COMMENTS:

THIS PROGRAM HILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNSOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN SCU. THE PROGRAM USES 500 HORDS OF CONTROL MEMORY AND 200 HORDS OF MAIN MEMORY.

XERDX SCU SCU FUNCTION GENERATOR PROGRAM AUTHOR: XEROX CORPORATION, HESTERN TECHNOLOGY CENTER ABSTRACT: 880628

THE FUNCTION GENERATOR PROGRAM IS A SOFTHARE PROCESSOR, OPERATING IN THE SCU (SYSTEMS CONTROL UNIT), WHICH HILL GENERATE VALUES FOR FUNCTIONS OF 1, 2, OR 3 INDEPENDENT VARIABLES USING LINEAR INTERPOLATION. THE PROGRAM IS DESIGNED TO BE USED IN CONJUNCTION WITH A USER PROGRAM EXECUTING IN THE SIGMA 5-9. COMMENTS:

THIS PROGRAM HILL RUN UNDER SCU (IN CONJUNCTION HITH SIGMA 5-9) OPERATING SYSTEM. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN SCU ASSEMBLY LANGUAGE.

PROGRAM AVAILABILITY LIST

| KEY TITLE | CAT.NO CL | KEY TITLE | CAT.NO CL |
|---|---|--|---|
| BASIC CPU TESTMODULE 2. BOOTSTRAP LOADERREAD ONLY MEMORY CPU INSTRUCTION TESTMODULE 8. EXTENDED CPU TESTMODULE 2. BASIC DIAGNOSTIC SOFTMARE SYSTEM (DSS) DRIVERTHID TEST MONITOR/TEST DSS SUPERVISORMODULE 1. DSS)DIAGNOSTIC SOFTMARE SYSTEM (EPCP)EXTENDED PRINTER CONTROL PROGRAM (EXERCISERMODULE 4. TCI RANDOM EXTENDED CPU INSTRUCTION TESTMODULE 8. EXTENDED PRINTER CONTROL PROGRAM (EPCP) FUNCTIONAL TESTMODULE 3. TCI FUNCTIONAL TESTMODULE 3. TCI FUNCTIONAL TESTMODULE 5. PSCI INITIALIZATION PROG. MODULEPCP LOADER & INSTRUCTION TESTMODULE 8. EXTENDED CPU LOADER & INITIALIZATION PROG. MODULEPCP LOADER & INITIALIZATION PROG. MODULEPCP MEMORY BOOTSTRAP LOADERREAD ONLY MODULE 1. DSS SUPERVISOR MODULE 2. BASIC CPU TEST MODULE 3. TCI FUNCTIONAL TEST | 880553 81 880559 81 880553 81 880553 81 880550 81 880552 81 880552 81 880555 81 880555 81 880555 81 880554 81 880554 81 880554 81 880559 81 880559 81 880551 81 880551 81 880551 81 880551 81 | MODULE 8. EXTENDED CPU INSTRUCTION TEST MODULEPCP LOADER & INITIALIZATION PROG. MODULEPRINTER CONTROL PROGRAM MONITOR/TEST DRIVERTMTD TEST PANEL TESTMODULE 7. CONTROL PCP LOADER & INITIALIZATION PROG. MODULE PCP)PRINTER CONTROL PROGRAM (PCP)EXTENDED PRINTER CONTROL PROGRAM (PCP)EXTENDED PRINTER CONTROL PROGRAM MODULE PSCI FUNCTIONAL TESTMODULE 5. PSCI UTILITY TESTMODULE 4. TCI READ ONLY MEMORY BOOTSTRAP LOADER SUPERVISORMODULE 1. DSS TCI FUNCTIONAL TESTMODULE 3. TCI RANDOM EXERCISERMODULE 4. THTD TEST MONITOR/TEST DRIVER 1. DSS SUPERVISORMODULE 2. BASIC CPU TESTMODULE 3. TCI FUNCTIONAL TESTMODULE 4. TCI RANDOM FXFRCISERMODULE 4. TCI RANDOM FXFRCISERMODULE 4. TCI RANDOM FXFRCISERMODULE | 800559 81 800502 81 800503 81 800507 81 800507 81 800502 81 800500 81 800500 81 800505 81 800505 81 800557 81 800557 81 800552 81 800554 81 800554 81 800554 81 800555 81 |
| MODULE 4. TOI RANDOM EXERCISER MODULE 5. PSCI FUNCTIONAL TEST MODULE 6. PSCI UTILITY TEST MODULE 7. CONTROL PANEL TEST | 980556 B1 980557 B1 | 5. PSCI FUNCTIONAL TESTMODULE 6. PSCI UTILITY TESTMODULE 7. CONTROL PANEL TESTMODULE 8. EXTENDED CPU INSTRUCTION TESTMODULE | 880557 8 1 88055 9 8 1 |

PRINTER CONTROL PROGRAM (PCP) XEROX 1200 880500

AUTHOR: XEROX ABSTRACT:

STRACT:
THE XEROX 1200 PRINTER CONTROL PROGRAM IS A DEDICATED, REAL-TIME OPERATING SYSTEM WHICH CONTROLS THE
COMPLETE OFF-LINE PRINTING SYSTEM INCLUDING THE INPUT, VERIFICATION, AND CONVERSION OF CERTAIN CUSTOMER
GENERATED DATA FORMATS, THE PRINTING OF SAID DATA AND THE SUPERVISION OF THE ELECTROMECHANICAL
NON-IMPACT XEROGRAPHIC PRINTING AND OUTPUT COLLECTION MECHANISMS. THE PCP CAN ALSO BE USED IN CONJUNCTON
HITH THE CP-V OPERATING SYSTEM TO PROVIDE CONTROL OF THE XEROX 12XX COMPUTER PRINTING SYSTEM OPERATING
ON-LINE TO A XEROX COMPUTER SYSTEM CAPABLE OF SUPPORTING THE CP-V OPERATING SYSTEM.
THE SYSTEM TEST TAPE CONSISTS OF JOL FILE AND 12 DATA FILES TO BE USED AS INPUT TO THE XEROX 1200 CPS.
THE TAPE HILL TEST THE LIMITS OF PCP DATA PROCESSING FUNCTIONS AS REQUIRED BY VARIATIONS IN THE
INPUT DATA STREAM. IT HILL ASSESS THE GENERAL OPERATIONAL STATUS OF THE XEROX 1200 CPS.
THE TAPE HILL NOT TEST PCP ERROR HANDLING CAPABILITIES, MULTI-VOLUME SEQUENCE; AND IS NOT A
SYSTEM EXERCISOR BUT A SUPPLEMENT TO THE XEROX 1200 CPS.
THE TAPE REQUIRES FULL OPERATIONAL XEROX 1200 CPS FOR ES EXECUTION.

DOMENTS:

THIS PROGRAM HILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN ALPHA-16 ASSY. LANGUAGE. THE XEROX 1200 PRINTER CONTROL PROGRAM IS CONSIDERED TO BE A IXEROX RESTRICTED PROPRIETARY PROGRAMI ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTINGS WILL NOT BE AVAILABLE TO THE CUSTOMER.

XEROX 1200 PCP LOADER & INITIALIZATION PROG. MODULE 880502

AUTHOR: XEROX

ABSTRACT:

THE PCP LOADER AND INITIALIZATION PROGRAM MODULE LOADS THE PRINTER CONTROL PROGRAM MODULE AND THE JOB DESCRIPTOR LIBRARY.

JOHENISI THIS PROGRAM HILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN ALPHA-18 ASSY. LANGUAGE. THE XEROX 1200 PRINTER CONTROL PROGRAM IS CONSIDERED TO BE A IXEROX RESTRICTED PROPRIETARY PROGRAM! ALTHOUGH NC LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTINGS HILLNOT BE AVAILABLE TO THE CUSTOMER.

PRINTER CONTROL PROGRAM MODULE **XEROX 1200** 880503

AUTHOR: XEROX ABSTRACT:

THE PRINTER CONTROL PROGRAM MODULE CONTROLS THE ON-LINE XEROX 1200 COMPUTER PRINTING SYSTEMS AND THE OFF-LINE XEROX 1200 COMPUTER PRINTING SYSTEM.

COMMENTS: THIS PROGRAM WILL RUN UNDER S/A ÖPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BASE Language main program is Hritten in Alpha-16 assy. Language. The Xerox 1200 printer control program is considered to be a ixerox restricted proprietary program! Although no Licensing agreement is required. Program Listings Will not be available to the customers.

880505 XEROX 1200 EXTENDED PRINTER CONTROL PROGRAM (EPCP)

AUTHOR: XEROX CORPORATION

AUTHOR: XEROX CORPORATION

ABSTRACT:

THE XEROX 1200 EXTENDED PCP IS A DEDICATED, REAL-TIME OPERATING SYSTEM WHICH CONTROLS THE COMPLETE

OFF-LINE COMPUTER PRINTING SYSTEM INCLUDING THE INPUT, VERIFICATION, AND CONVERSION OF CERTAIN CUSTOMER

GENERATED DATA FORMATS, THE PRINTING OF SAID DATA AND THE SUPERVISION OF THE ELECTROMECHANICAL

NON-IMPACT XEROGRAPHIC PRINTING AND OUTPUT COLLECTION MECHANISMS. THE PCP CAN ALSO BE USED IN

CONJUNCTION HITH THE CP-V OPERATING SYSTEM TO PROVIDE CONTROL OF THE XEROX 12XX COMPUTER PRINTING SYSTEM

OPERATING ON-LINE TO A XEROX COMPUTER SYSTEM CAPABLE OF SUPPORTING THE CP-V OPERATING SYSTEM. THE SYSTEM

TEST TAPE CONSISTS OF 12 DATA FILES TO BE USED AS INPUT TO THE XEROX 1200 CPS. THE TAPE HILL TEST THE

LIMITS OF EPCP DATA PROCESSING FUNCTIONS AS REQUIRED BY VARIATIONS IN THE INPUT DATA STREAM. IT MILL

ASSESS THE GENERAL OPERATIONAL STATUS OF THE XEROX 1200 CPS. THE TAPE HILL NOT TEST EPCP ERROR HANDLING

CAPABILITIES; MULTI-VOLUME SEQUENCE; AND IS NOT A SYSTEM EXERCISOR BUT A SUPPLEMENT TO THE XEROX 1200

DSS. THE TAPE REQUIRES FULLY OPERATIONAL XEROX 1200 CPS FOR EXECUTION.

COMMENTS:

THIS PROGRAM WILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BASE LANGUAGE MAIN

THIS PROGRAM HILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BASE LANGUAGE MAIN PROGRAM IS MRITTEN IN ALPHA-16 ASSY.
THE XEROX 1200 EXTENDED PCP IS CONSIDERED TO BE A IXEROX RESTRICTED PROPRIETARY PROGRAM! ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTINGS HILL NOT BE AVAILABLE TO THE CUSTOMER.

XEROX 1200 DIAGNOSTIC SOFTHARE SYSTEM (DSS) 880550

AUTHOR: XEROX CORPORATION

ARSTRACT:

THE XEROX 1200 DIAGNOSTIC SOFTMARE SYSTEM IS TO BE USED BY XEOX FIELD SERVICE PERSONNEL AS AN AID DURING THE COURSE OF PREVENTATIVE AND EMERGENCY MAINTENANCE PROCEDURES. DSS PROVIDES TESTING CAPABILITIES FOR UP TO THREE LEVELS OF PROBLEM DIAGNOSIS - UTILITY TESTS, RANDOM TESTS AND FUNCTIONAL TESTS. COMMENTS:

THIS PROGRAM WILL RUN UNDER XEROX 1200 OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS HRITTEN IN BETA-B. THE XEROX DIAGNOSTIC SOFTMARE SYSTEM IS CONSIDERED COLLECTIVELY AS A IXEROX RESTRICTED PROPRIETARY PROGRAM! ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTINGS HILL NOT BE AVAILABLE TO THE CUSTOMER.

880551 **XEROX 1200** READ ONLY HEMORY BOOTSTRAP LOADER

AUTHOR: XEROX

ABSTRACT:
THE ROM PROGRAM PROVIDES A MINIMUM SET OF TESTS TO VERIFY THE OPERATION OF THE CPU, MEMORY, TAPE COMTROL
INTERFACE (TCI) AND TAPE STATION PRIOR TO A PROGRAM LOAD. IT ALSO CONTROLS AND VERIFIES THE LOADING OF

880551 CONTINUED ON FOLLOWING PAGE

880551

READ ONLY MEMORY BOOTSTRAP LOADER

(CONTINUED)

THE FIRST RECORD FROM TAPE.

COMMENTS:

THE XEROX DIAGNOSTIC SOFTHARE SYSTEM IS CONSIDERED COLLECTIVELY AS A IXEROX RESTRICTED PROPRIETARY PROGRAM! ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTINGS WILL NO BE AVAILABLE TO THE CUSTOMER.

880552

XEROX 1200

MODULE 1. DSS SUPERVISOR

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM PROVIDES COMMUNICATION AND CONTROL BETHEEN THE USER AND THE DIAGNOSTIC SOFTWARE SYSTEM, SELECTS AND LOADS THE DIAGNOSTIC PROGRAM MODULE TO BE EXECUTED NEXT AND PERFORMS THE NEXT LEVEL OF DIAGNOSTIC TESTING AFTER EXECUTION OF THE ROM PROGRAM.

COMMENTS:

THE XEROX DIAGNOSTIC SOFTWARE SYSTEM IS CONSIDERED COLLECTIVELY AS A IXEROX RESTRICTED PROPRIETARY PROGRAM! ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTNGS WILL NOT BE AVAILABLE TO THE CUSTOMER.

880553 XEROX 1200 MODULE 2. BASIC CPU TEST

AUTHOR: XEROX ABSTRACT:

THIS PROGRAM EXERCISES THE CPU IN A BASIC, STRAIGHT FORHARD MANNER BY EXECUTING A SERIES OF SIMPLE, SEQUENTIAL AND NON-EXHAUSTIVE TEST DESIGNED TO CHECK THOSE HARDHARE ELEMENTS INVOLVED IN INSTRUCTION EXECUTION. IT ALSO CHECKS THE READ ONLY MEMORY. (ROM) FOR CORRECT CONTENTS AND IT TESTS THE REAL TIME CLOCK (RTC) TO ASSURE THAT IT CAN PROVIDE INTERRUPTS AT 10 +.004 MSEC INTERVALS.

THE XEROX DIAGNOSTIC SOFTHARE SYSTEM IS CONSIDERED COLLECTIVELY AS A IXEROX RESTRICTED PROPRIETARY PROGRAM! ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTINGS WILL NOT BE AVAILABLE TO THE CUSTOMER.

880554

XEROX 1200

MODULE 3. TCI FUNCTIONAL TEST

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM PROVIDES A COMPREHENSIVE SET OF FUNCTIONAL TESTS TO DETECT SOLID AND INTERMITTENT FAILURES IN THE TAPE CONTROL INTERFACE (TCI) AND IN THE TAPE STATION. IT IS DESIGNED TO CHECK INDIVIDUAL FUNCTIONAL SECTIONS OF LOGIC, SO THAT FAILURES CAN BE ISOLATED TO A SPECIFIC FUNCTION. SIMPLE FUNCTIONS ARE CHECKED FIRST, AND THEN USED TO VERIFY MORE COMPLEX FUNCTIONS, THUS PYRAMIDING FUNCTION TESTING. COMMENTS:

THE XEROX DIAGNOSTIC SOFTHARE SYSTEM IS CONSIDERED COLLECTIVELY AS A IXEROX RESTRICTED PROPRIETARY PROGRAM! ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTINGS HILL NOT BE AVAILABLE TO THE CUSTOMER.

HODULE 4. TC1 RANDOM EXERCISER

ABSTRACT:

AUTHOR: XEROX

THIS PROGRAM PROVIDES A COMPREHENSIVE SET OF RANDOM AND UTILITY TESTS TO DETECT SOLID AND INTERMITTENT FAILURES UNDER CONDITIONS SIMILAR TO THAT OF THE PRINTER CONTROL PROGRAM (PCP) OPERATING ENVIRONMENT.

THE XEROX DIAGNOSTIC SOFTHARE SYSTEM IS CONSIDERED COLLECTIVELY AS A IXEROX RESTRICTED PROPRIETARY PROGRAM! ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTINGS WILL NOT BE AVAILABLE TO THE CUSTOMER.

880556

XEROX 1200 AUTHOR: XEROX

MODULE 5. PSCI FUNCTIONAL TEST

ABSTRACT: SSIMACI:
THIS PROGRAM PROVIDES A COMPREHENSIVE SET OF FUNCTIONAL TESTS TO DETECT SOLID AND INTERNITTENT FAILURES
IN THE PSCI'S LOGIC AND TRACKING MECHANISM. IT IS DESIGNED TO CHECK INDIVIDUAL FUNCTIONAL SECTIONS OF
THE LOGIC SO THAT FAILURES CAN BE ISOLATED TO A SPECIFIC FUNCTION. IT DOES THIS FIRST BY CHECKING
SIMPLE FUNCTIONS. THEN IT USES THESE CHECKED OUT FUNCTIONS TO VERIFY MORE COMPLEX FUNCTIONS, THUS
BUILDING TESTING ON PREVIOUSLY CHECKED FUNCTIONS.

COMMENTS: THE XEROX DIAGNOSTIC SOFTHARE SYSTEM IS CONSIDERED COLLECTIVELY AS A IXEROX RESTRICTED PROPRIETARY PROGRAM! ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTINGS WILL NOT BE AVAILABLE TO THE CUSTOMER.

880557

XEROX 1200

MODULE 6. PSCI UTILITY TEST

AUTHOR: XEROX

THIS PROGRAM PROVIDES A COMPREMENSIVE SET OF UTILITY TESTS TO DETECT SOLID AND INTERMITTENT FAILURES.
UNDER PAPER MOTION AND PATTERN CONDITIONS SIMILAR TO THAT OF THE PRINTER CONTROL PROGRAM (PCP) OPERATING ENVIRONMENT.

THE XEROX DIAGNOSTIC SOFTHARE SYSTEM IS CONSIDERED COLLECTIVELY AS A IXEROX RESTRICTED PROPRIETARY PROGRAM! ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTINGS WILL NOT BE AVAILABLE TO THE CUSTOMER.

PAGE 2 - 01/31/75

880556

MODULE 7. CONTROL PANEL TEST

AUTHOR: XEROX

ABSTRACT:

THIS PROGRAM PROVIDES A MEANS FOR INTERACTIVELY TESTING AND VISUALLY CONFIRMING THE PROPER OPERATION OF ALL SHITCHES, INDICATORS, AND DISPLAYS ON THE ALPHA-16 CONSOLE AND ALL PROGRAM CONTROLLABLE SHITCHES. INDICATORS, AND DISPLAYS ON THE OPERATOR CONTROL PANEL.

THE XEROX DIAGNOSTIC SOFTHARE SYSTEM IS CONSIDERED COLLECTIVELY AS A IXEROX RESTRICTED PROPRIETARY PROGRAM! ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTINGS HILL NOT BE AVAILABLE TO THE CUSTOMER.

880559

XEROX 1200

XEROX 1200

MODULE 8. EXTENDED CPU INSTRUCTION TEST

AUTHOR: XEROX

ABSTRACT:
THIS PROGRAM EXERCISES THE CPU BY EXECUTING A SERIES OF SEQUENTIAL AND EXHAUSTIVE TESTS DESIGNED TO
CHECK ALL POSSIBLE BIT CONFIGURATIONS OF THOSE CPU REGISTERS AND INSTRUCTION HORD FIELDS INVOLVED IN THE
EXECUTION OF A PARTICULAR INSTRUCTION.

COMMENTS:

THE XEROX DIAGNOSTIC SOFTHARE SYSTEM IS CONSIDERED COLLECTIVELY AS A IXEROX RESTRICTED PROPRIETARY PROGRAM! ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTINGS WILL NOT BE AVAILABLE TO THE CUSTOMERS.

880567

THTD TEST MONITOR/TEST DRIVER

XEROX 1200 AUTHOR: XEROX ABSTRACT: THIS PRO-ISTRACT:
THIS PROGRAM CONSISTS OF THO SUBROUTINES (THE TEST MONITOR AND THE TEST DRIVER) WHICH ARE USED BY OTHER
PROGRAM MODULES DURING THE COURSE OF DIAGNOSTIC TESTING. THE TEST MONITOR INTERFACES WITH THE
SUPERVISOR AND IS USED TO TRANSFER CONTROL TO THE TEST SELECTED BY THE USER. THE TEST DRIVER IS USED TO
PERFORM I/O OPERATIONS DURING DIAGNOSTIC TESTING OF BOTH THE MAGNETIC TAPE AND PRINTER/STACKER UNITS.

THE XEROX DIAGNOSTIC SOFTWARE SYSTEM IS CONSIDERED COLLECTIVELY AS A IXEROX RESTRICTED PROPRIETARY PROGRAM! ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTINGS WILL NOT BE AVAILABLE TO THE CUSTOMER.

| THOUSANT ATAIEADIE! | | | | | | | •~ |
|---------------------|--|--------|------------|------------------------|--|-------------------------|------------|
| KEY | TITLE | CAT.NO | CL | KEY | TITLE | CAT.NO | CL. |
| ABLEASSEMBLER - | TEST - APT | 880000 | 81 | MANUFACTURING DIAGN | OSTICPE20HD - PE20 | 880094 E | 31 |
| ANALOG PERFORMANCE | TEST - APT | 880100 | Bi | MATH PACKAGE M-1 | | 880015 8 | 21 |
| APT ANALOG PERFO | RMANCE TEST - | 880100 | 81 | MATH BACKAGE M-2 | | 880016 | ài |
| ASSEMBLER - ABLE | | 880000 | Bi | MEMORY DIAGNOSTIC - | CMDCORE | 880011 8 | |
| ASSM. ORJECT CONVE | RTER - CROSCNVCROSS | 880098 | Bi | MEMORY DIAGNOSTIC - | PHPMHORST PATTERN | 880009 | |
| RDP RINARY LOAD/ | DUMP - BLD/ | 880004 | | MINIDISC DIAGNOSTIC | | 880085 8 | |
| BUD / BOP BINARY I | DUMP - BLD/ DAD/DUMP - GNOSTIC DSIG16 - | 880004 | | | CROSCNVCROSS ASSM. | 880098 | |
| CE-16 MINIDISC DIA | SNOSTIC | 880085 | | OBJECT LANGUAGE LOA | | 880019 | |
| CEIR - SIGNA 3 DEM | 051016 - | 880089 | | OR IECT LANGUAGE LOAD | DEP-POLL PELOCATABLE | 990005 6 | |
| CELE INTERCOMMUNIC | ATION DEMOSIGMA 3- | 880088 | | OF IN DIAGNOSTIC OF | FIND - | 880001 | ši |
| CMD CODE MEMORY | DIAGNOSTIC - | 880011 | | OF IN I /O MANDI ER | 0F1410 - | 990090 | ái |
| COMPILER FORTRAN | DIAGNOSTIC - | 880018 | | OF IND OF IN DIAGNO | CTIC | 990001 6 | . : |
| | VCROSS ASSM. OBJECT | 880098 | | 051410 - 0514 1/0 H | AND ED | 880090 | ** |
| CORE MEMORY DIAGNO | | 880011 | | OE18-0518 1/0 HANDI | FR OFFICE - | 000000 | ** |
| CROLL | 5110 - CHO | 880099 | | OFIS / IS DEMONSTRATIO | DN 50000AM | 990046 | • |
| | SM. OBJECT CONVERTER - | 880098 | | OF IS DIACHORTIC OF | UN PRUUKAH | 900000 8 | ** |
| | CONVERTER - CROSCNV | 880088 | | OFIR I/O HANDLER | EIND - OEINIO - STIC ANDLER EROE5/8D - ON PROGRAM E180 - OE5/8D - OE15- STIC 1/O HANDLER | 900000 | : : |
| DBUGDEBUG - | CONVERTER - CROSCRY | 880008 | | OFICE - OFICE OTACHO | 052/00 - 0512- | 900007 | ** |
| 05000 0000 | | | | OCE (SO DE LE OCIO | 3/16 | 000000 | :: |
| DEBUG - DBUG | CORE NEMORY | 880006 | | 0E3/00 - 0E13-0E16 | IC - HSPTDHIGH SPEED | 99008/ 6 | " |
| DIAGNOSTIC - CMD | HIGH SPEED PAPER TAPE | 880011 | | CALCH TALE DIVOUAN | TO - MOLIDITION OFFED | 990017 5 | •• |
| DIAGNOSTIC - MOFIL | RIUR SPEEU PAPER IAPE | | | | NOSTIC - PHPMHORST | 880009 | |
| | HORST PATTERN MEMORY | 880009 | | PERFORMANCE TEST - | | 880100 | |
| DIAGNOSTIC - TOP | | 880013 | | PEZO FIELD DIAGNOST | | 880093 | |
| DIAGNOSTIC PROGRAM | - IDPINSTRUCTION | 880012 | | PE20 I/O DRIVERP | F5010 - | 880092 | |
| DIAGNOSTICCF-16 | MINIDISC - 0E14 - 0E16 - PE20 FIELD - PE20 MANUFACTURING | 880085 | | | DIAGNOSTICPE20MD - | | |
| DIAGNOSTIC OE 14D | - OE14 | 880091 | | PESOLD - PESO LIELD | DIAGNOSTIC RIVER | 880093 | |
| DIAGNOSTICOEIBD | - 0E18 | 880080 | | | | 880092 | |
| DIAGNOSTICPE20F | - PEZO FIELD | 880093 | | PEZOMO - PEZO MANUF | ACTURING DIAGNOSTIC | 880094 | " |
| DIAGNOSTICPEZOM | - PEZD MANUFACTURING | 880094 | 81 | PE25 FIELD DIAGNOST | ICPE25FD - | 880088 E | 31 |
| DIAGNOSTICPE25F | - PE25 FIELD | 880098 | 81 | PE25 I/O HANDLER | PE2510 - | 880095 E | 31 |
| DRIVER PE2010 - | E20 1/0 | 880085 | 81 | PESSED - PESS FIELD | DIAGNOSTIC | 880086 | " |
| DUMP - BLD/80P81 | NARY LOAD/ | 880004 | BI | PE2510 - PE25 1/0 | HANDLER | 880095 | 11 |
| FIELD DIAGNOSTIC | PEZOFD - PEZO | 880093 | 81 | PREPARATION - STP | .SOURCE TAPE | 880007 | 91 |
| FIELD DIAGNOSTIC | PE25FD - PE25 | 880098 | Bi | PHPMHORST PATTER | ICPE25FD - PE25IO - DIAGNOSTIC HANDLERSOURCE TAPE N MEMORY DIAGNOSTIC - | 880009 | 31 |
| FOLL FORTRAN OBJECT | D - PEES FIELD PEED I/O NARY LOAD/ PEEDFD - PEED PEESFD - PEES LANGUAGE LOADER | 880018 | B1 | RELOCATABLE OBJECT | LANGUAGE LOADER-ROLL | 880002 (| Jl |
| FORTRAN COMPILER | OUAGE LOADERFOLL 0E14 1/0 0E15-0E18 1/0 - PE25 1/0 | 880018 | - | ROLLRELOCATABLE | OBJECT LANGUAGE LOADER- | 880005 | 11 |
| FORTRAN OBJECT LANG | BUAGE LOADERFOLL | 880018 | | RTS RUN TIME SYSTEM | ••• | 880020 1 |) 1 |
| HANDLEROE1410 - | 0E14 1/0 | 880090 | | RUN TIME SYSTEMR | TS | 88 0020 (| 31 |
| HANDLEROE5/6D - | 0E15-0E16 I/0 | 880087 | | SIG16 - CF16 - SIGM | A 3 DEMO | 880089 | 31 |
| HANDLERPE2510 - | PE25 1/0 | 880095 | Bl | SOURCE TAPE PREPARA | TION - STP | 880007 6 | 91 |
| HIGH SPEED PAPER TA | NPE DIAGNOSTIC - HSPTD | 880014 | | STPSOURCE TAPE P | OBJECT LANGUAGE LOADER- TS A 3 DEMO TION - STP REPARATION - NOSTIC TOP CKAGE - TUP UN ITY PACKAGE - V DIAGRETIC - BURN | 880007 | 1 |
| | PAPER TAPE DIAGNOSTIC - | | | TDPTELETYPE DIAG | NOSTIC - | 880013 | 1 |
| |)IAGNOSTIC PROGRAM - | 880015 | | TELETYPE DIAGNOSTIC | - TDP | 880013 | 11 |
| INSTRUCTION DIAGNOS | STIC PROGRAM - IDP | 880012 | Bl | TELETYPE UTILITY PAR | CKAGE - TUP | 880008 | 31 |
| INTERCOMMUNICATION | DEMOSIGMA 3-CF16 | 880088 | B 3 | TIME SYSTEM RTS R | UN | 880020 (|)1 |
| LOAD/DUMP - BLD/BDF | PBINARY | 880004 | Bl | TUPTELETYPE UTIL | ITY PACKAGE - | 880008 | 31 |
| LOADER FOLL FORTE | DEMOSIGMA 3-CF18 PBINARY NAN OBJECT LANGUAGE | 880019 | 81 | HORST PATTERN MEMOR | Y DIAGNOSTIC - PHPM | 400044 | •• |
| LOADER-ROLL RELOC | ATABLE OBJECT LANGUAGE | 880005 | 81 | 6D - 0E15-0E16 1/0 | HANDLEROE5/ | 880087 | 91 |
| | | | | | | | |

CORE MEMORY DIAGNOSTIC - CMD 880011 CF-16

AUTHOR: XEROX, SYSTEM PRODUCTS

ABSTRACT:
CMD TESTS ALL OF CORE MEMORY FOR PICKED UP OR DROPPED BITS AND VERIFIES MEMORY ADDRESSING, CONTROLS ARE AVAILABLE FOR SPECIFYING THE BLOCK OF MEMORY UPON HHICH TESTS ARE TO BE RUN AND HHICH TESTS ARE TO BE PERFORMED. DIAGNOSTIC PRINTOUTS ARE MADE ON TELETYPE TO IDENTIFY ERRORS.

COMMENTS:
CMD IS LOADED BY BLD AT LOCATION :800 AND RUNS FROM :800. CMD AUTOMATICALLY RELOCATES ITSELF TO TEST ALL
OF CORE. PROGRAM RESIDENCE IS 175 LOCATIONS.

INSTRUCTION DIAGNOSTIC PROGRAM - IDP

AUTHOR: XEROX, SYSTEM PRODUCTS

AUTHOR:XEROX, SYSTEM PRODUCTS
ABSTRACT:
IDP EXERCISES ALL PROCESSOR LOGIC TO VERIFY FUNCTIONAL PERFORMANCE. TESTS ARE PERFORMED SERIALLY. EACH
TEST EXERCISES A SMALL SECTION OF THE PROCESSOR, AND RESULTS ARE IMMEDIATELY VERIFIED. IF THE
VERIFICATION FAILS, IDP IS HALTED AND THE CONTENTS OF REGISTERS COMBINED HITH THE IDP LISTING PROVIDE
THE BASIS FOR FAILURE ANALYSIS. THE PROGRAM MAY BE LOOPED ON THE FAILED TEST FOR A TROUBLESHOOTING AID.

COMMENTS:
1DP 1S SUPPLIED ON ABSOLUTE BINARY TAPE WHICH LOADS AT :FO AND RUNS FROM :100.

TELETYPE DIAGNOSTIC - TOP 3 CF-16 AUTHOR:XEROX, SYSTEM PRODUCTS 880013

ABSTRACT:
TOP TESTS ALL TELETYPE I/O LOGIC AND CHECKS THE READER, PUNCH, AND PRINTER FOR ALL POSSIBLE CHARACTER
CODES (0-FF). THE KEYBOARD INPUT IS CHECKED FOR ANY CHARACTERS THE USER MAY CHOOSE TO TEST. TOP VERIFIES
ALL I/O FUNCTIONS. COMMENTS:

TOP LOADS AT LOCATION : 100 VIA THE BLD BINARY LOADER AND OCCUPIES : 175 LOCATIONS.

HIGH SPEED PAPER TAPE DIAGNOSTIC - HSPTD 880014 CF-16

AUTHOR: XEROX, SYSTEM PRODUCTS

ABSTRACT:
HSPTD IS THE DIAGNOSTIC PROGRAM FOR THE HIGH SPEED PAPER TAPE SYSTEMS. THE PROGRAM WILL TEST THE HIGH
SPEED READER ALONE, OR IN CONJUNCTION WITH THE HIGH SPEED PUNCH. THE PUNCH PORTION REQUIRES A HIGH SPEED
READER TO VERIFY THE PUNCH OUTPUT. COMMENTS:

M-1 MATH PACKAGE 880015 CF-16

AUTHOR: XEROX

ABSTRACT:
H-1 CONTAINS THELVE (12) COMMON SINGLE AND DOUBLE PRECISION ARITHMETIC FUNCTIONS. THESE ROUTINES ARE
EXTERNAL (DEF) ROUTINES, AND THEREFORE MUST BE DEFINED IN THE CALLING PROGRAM (BY A REF).

REFER TO XEROX PUBLICATION #901838 FOR A DESCRIPTION OF THE ROUTINES.

H-2 HATH PACKAGE 880016

AUTHOR: XEROX

ABSTRACT: M-2 CONTAINS THELVE MATHEMATICAL FUNCTIONS IN OBJECT FORMAT. THESE ROUTINES ARE EXTERNAL ROUTINES (DEF)
AND THEREFORE MUST BE DEFINED IN THE CALLING PROGRAM (BY A REF).

COMMENTS:
REFER TO XEROX PUBLICATION #901638 FOR A DESCRIPTION OF THE ROUTINES.

FORTRAN COMPILER 880018 CF-16

AUTHOR: XEROX

ABSTRACT:
FORTRAN IS COMPATIBLE WITH ANSI BASIC FORTRAN WITH THE VARIATIONS AS NOTED IN APPENDIX A OF THE BASIC FORTRAN REFERENCE MANUAL (#901735).

COMMENTS: FORTRAN GENERATES OBJECT TAPES OF MAIN BODY PROGRAMS AND SUBROUTINES. THESE OBJECT TAPES ARE LOADED BY FOLL.

FOLL FORTRAN OBJECT LANGUAGE LOADER 880019 CF-16

AUTHOR: XEROX

ABSTRACT: FOLL IS USED TO LOAD FORTRAN GENERATED OBJECT TAPES, SUBROUTINES, AND REQUIRED RUN TIME SYSTEM ROUTINES.

FOLL IS SUPPLIED AS A RELOCATABLE BINARY TAPE WITH A LOAD POINT OF :DEG.

CF-16 CLASS BI PROGRAM SUMMARIES

RTS RUN TIME SYSTEM

AUTHOR: XEROX

ABSTRACT THE FORTRAN RUN TIME SYSTEM CONTAINS ALL OF THE SUBROUTINES REQUIRED BY THE CF18 BASIC FORTRAN.

COMMENTS:

RUN TIME SYSTEM SUBROUTINES ARE LOADED AND LINKED BY FOLL.

880080

880020

OE16D - OE16 DIAGNOSTIC

AUTHOR: XEROX, SYSTEMS ENGINEERING

ABSTRACT:

CF-18

THIS PROGRAM IS DESIGNED TO ALLOW TESTING AND TROUBLESHOOTING OF THE OE16.

MMENTS: THO CF18 COMPUTERS HITH OE16'S MUST BE USED HHEN RUNNING THIS PROGRAM. THE BINARY PAPER TAPE SUPPLIED 18 FOR A OE16 HITH A DEVICE ADDRESS O :98, AND A BASE INTERRUPT ADDRESS OF :50.

880086

OE15/16 DEMONSTRATION PROGRAM

AUTHOR: XEROX, SYSTEMS ENGINEERING

AUTHOR:XERUX, STRIETS ENGINEERING
ABSTRACT:
THE 0E15/18 DEMO PROGRAM IS USED TO DEMONSTRATE THE CORRECT OPERATION OF AN 0E15 OR 0E18. THE PROGRAM
HAS 4 MODES OF OPERATION, SINGLE TRANSFER OF INPUT DATA, CONTINUES
TRANSFER OF A VARYING BIT PATTERN, AND CONTINUES TRANSFER OF A FIXED PATTERN USING BLOCK I/O. COMMENTS:

THIS PROGRAM REQUIRES 2 IDENTICAL CF16 SYSTEMS. EACH SYSTEM MUST HAVE AT LEAST 4K OF CORE, A TTY, AND THE SAME TYPE OF INTERCOMPUTER INTERFACE, 0E15, OR 0E16.

880097

055/6D - 0515-0516 1/0 HANDLER CF-16

AUTHOR: XEROX, SYSTEMS ENGINEERING

ABSTRACT:

THIS HANDLER IS USED TO DRIVE EITHER AN OEIS OR AN OEIS. THE COMPUTER CONNECTED TO THE OEIS/16 HUST HAVE A COMPATIBLE HANDLER. THIS HANDLER INCORPORATES A HANDSHAKING, ERROR DEDECTING, VERIFICATION PROTOCOL.

THIS HANDLER IS SELF-CONTAINED, REQUIRES :113 LOCATIONS IN UPPER CORE, AN :A LOCATIONS STARTING HITH THE DEVICE INTERRUPT ADDRESS. CALLING THE HANDLER IS DONE WITH A PARAMETER LIST TECHNIQUE. THE HANDLER USES THE AUTO I/O HODE, AND CAN BE USED IN REAL-TIME APPLICATIONS.

880089

SIG16 - CF16 - SIGMA 3 DEMO CF-18

AUTHOR: XEROX, SYSTEM PRODUCTS

ABSTRACT:
SIG16 IS A DEMONSTRATION PROGRAM TO VERIFY THE DATA TRANSFERS BETHEEN A CF16 COMPUTER AND A SIGMA 3 COMPUTER. THE CF16 COMPUTER REQUIRES A PE15 MODULE. THE SIGMA 3 COMPUTER REQUIRES A MI/OP AND A 7908.

PROGRAM #706147 MUST BE RUN ON THE SIGMA 3. SIG16 IS SUPPLIED ON BINARY TAPE.

00 CF-18 AUTHOR:XEROX, SYSTEM PRODUCTS OE1410 - OE14 I/O HANDLER

ABSTRACT:
THIS IS THE I/O HANDLER SUBROUTINES FOR THE DE14 MODULE. THE SUBROUTINES ARE DIVIDED INTO THO
CATEGORIES: SINGLE HORD I/O ROUTINE, AND MULTIPLE HORD I/O ROUTINES.

COMMENTS: THESE SUBROUTINES ARE SUPPLIED IN OBJECT FORM ON PAPER TAPE, WITH THE SINGLE HORD I/O ROUTINE FIRST AND SEPARATED FROM THE MULTIPLE I/O ROUTINES BY 12 INCHES OF BLANKS.

880091

OE14D - DE14 DIAGNOSTIC CF-18

AUTHOR: XEROX, SYSTEM PRODUCTS

ABSTRACT:
THIS IS A VERIFICATION PROGRAM WHICH TESTS THE OPERATION OF THE 0E14 MODULE. ALL 0E14 COMMANDS AND DATA
PATHS ARE TESTED AND FAILURES ARE REPORTED ON TELETYPE. THE PROGRAM MAY BE SET TO LOOP AND EXERCISE THE
FAILED CONDITION. COMMENTS:

DELYO IS SUPPLIED ON ABSOLUTE BINARY PAPER TAPE TO BE LOADED BY BLD. THE PROGRAM IS LOADED IN THO SECTIONS STARTING AT :40 AND :200 AND THE LAST LOCATION USED IS :388. ENTRY POINT IS :200.

880092

PE2010 - PE20 I/O DRIVER

CF-16
AUTHOR:XEROX, SYSTEM PRODUCTS

ABSTRACT:
THE PE20 I/O PROGRAM IS A MULTIMODE DRIVER FOR THE PE20 MODULE. THE PROGRAM HAS THE CAPABILITY OF
DRIVING THE PE20 IN ANY OF ITS 24 MODES OF OPERATION.

THE PERO 1/0 PROGRAM OCCUPIES 211 HEX. LOCATIONS. THE PROGRAM IS SUPPLIED IN OBJECT FORM ON PAPER TAPE.

880093

PEZOFD - PEZO FIELD DIAGNOSTIC

CF-16
AUTHOR:XEROX, SYSTEM PRODUCTS

ABSTRACT: THE PEZOFD IS A FIELD CHECKOUT AND VERIFICATION PROGRAM FOR THE PEZO MODULE. ANY ONE OF THE 24 MODES OF

880093 CONTINUED ON FOLLOHING PAGE

REPRINT 75.02

PEZOFD - PEZO FIELD DIAGNOSTIC OPERATION MAY BE SELECTED FOR TESTING. 880093

(CONTINUED)

COMMENTS:

THE PEZOFO IS SUPPLIED ON ABSOLUTE BINARY PAPER TAPE, TO BE LOADED BY BLD. THE PROGRAM IS LOADED STARTING AT ADDRESS :100, AND CONTINUES THROUGH LOCATION :3E7.

880094 CF-16 AUTHOR: XEROX, SYSTEM PRODUCTS PEZOMD - PEZO MANUFACTURING DIAGNOSTIC

ABSTRACT:

THE PEZOMD IS A MANUFACTURING CHECKOUT PROGRAM THAT TESTS THE OPERATION OF THE PEZO ANALOG INPUT COUPLER. ALL DATA PATHS AND COMMANDS ARE TESTED. FAILURES ARE LISTED ON THE TELETYPE. THE PROGRAM MAY BE SET TO LOOP ON THE ERROR CONDITION.

THE PEZOMD IS SUPPLIED ON ABSOLUTE BINARY PAPER TAPE, TO BE LOADED BY BLD, THE PROGRAM IS LOADED STARTING AT LOCATION :FI, AND CONTINUES THROUGH :77F. THE PEZO TURNAROUND CABLE MUST BE USED WHEN RUNNING THIS TEST.

880095

CF-16 PE2510 - PE25 I/O HANDLER

AUTHOR: XEROX, SYSTEM PRODUCTS

ABSTRACT:

THIS ROUTINE HANDLES THE I/O INSTRUCTIONS NECESSARY TO DRIVE A PE25-DAC SYSTEM.

COMMENTS:
THIS I/O HANDLER ALLOHS THE SYSTEM PROGRAMMER TO USE LOGICAL I/O WHEN EXCERCISING THE PE25-DAC SYSTEM. THE MODE OF OPERATION IS SPECIFIED BY A PARAMETER AT HANDLER CALL TIME.

880096

PE25FD - PE25 FIELD DIAGNOSTIC

AUTHOR: XEROX, SYSTEM PRODUCTS

ABSTRACT:

THE PE25 FIELD DIAGNOSTIC IS USED TO VERIFY THE PROPER OPERATION OF A DIGITAL TO ANALOG SUBSYSTEM ATTACHED TO A CF16 COMPUTER.

COMMENTS:
THE PE25FD PROGRAM HILL GENERATE SELECTABLE PATTERNS ON THE OUTPUT OF DAC CHANNEL. THE CORRECTNESS OF THE PATTERNS ARE VERIFIED BY USE OF AN OSCILLOSCOPE.

880098

CROSS ASSM. OBJECT CONVERTER - CROSCNY

SE CF-16 AUTHOR:XEROX, SYSTEM PRODUCTS

ABSTRACT:

CROSONY CONVERTS CROSS ASSEMBLER OBJECT TAPES TO ROLL FORMAT COMPATIBLE TAPES.

COMMENTS:

CROSCONY CONVERTS 4 LEVEL OBJECT TAPE TO 8 LEVEL OBJECT TAPES. THE FORMAT OF THE 8 LEVEL TAPE IS THE SAME FORMAT THAT ABLE PRODUCES.

880099

CF-16 CROLL AUTHOR: XEROX, SYSTEM PRODUCTS

ABSTRACT:
CROLL IS A MODIFIED VERSION OF ROLL. CROLL HILL ACCEPT OBJECT TAPE FORMATTED BY THE TERMINAL VERSION OF
THE CROSS ASSEMBLED.

CROLL REPLACES ROLL WHEN USING OBJECT TAPES PRODUCED BY THE CROSS ASSEMBLER.

ANALOG PERFORMANCE TEST - APT

AUTHOR: XEROX, SYSTEM PRODUCTS ABSTRACT:

APT IS A PROGRAM FOR TESTING THE CD51/DM40 COMBINATION ON A CF18 COMPUTER. APT ACQUIRES DATA FROM 'N' CHANNELS OF THE CD51/DM40 AND REDUCES IT TO THO STATEMENTS FOR EACH CHANNEL: (1) MEAN VALUE OF 1024 SAMPLES AND (2) A HISTOGRAM OF 1024 SAMPLES ABOUT THE MEAN VALUE. A MAXIMUM OF 82 CHANNEL\$ TESTED. COMMENTS:

COMPUTER CONFIGURATION: CF16, 4K, TELETYPE, PE20, CD51/DM40. SUBROUTINES USED: NONE. STORAGE: :ABC LOCATIONS: :C4-:B2F. LOADING PROCEDURE:BLD.

880085 CF-18 CF-18 HINIDISC DIAGNOSTIC
AUTHOR:XEROX HESTERN TECHNOLOGY CENTER
ABSTRACT:
TEST AND VERIFY THE 727 MINIDISC ELECTRONICS AND PE80 MINIDISC CONTROLLER UNDER THE CONTROL OF A CF-18 COMPUTER.
COMMENTS:
MINIMUM REQUIREMENTS INCLUDE 4K CORE MEMORY, TELETYPE HITH PAPER TAPE READER,727 MINIDISC AND PE80 CONTROLLER.

880088

88 CF-16 SIGMA 3-CF16 INTERCOMMUNICATION DEMO
AUTHOR:XEROX, SYSTEM PRODUCTS
ABSTRACT:
THIS PROGRAM GIVES A DEMO OF MESSAGE TRANSMISSION BETHEEN SIGMA 3 AND CF16.
COMMENTS:

INTERNIS: HARDMARE REQUIREMENTS: SIGMA 2/3 HITH TELETYPE, MODEL 7930 OR 7935 SIU, CF18 HITH TELETYPE, MODEL OE15. THIS PROGRAM MUST OPERATE IN CONJUNCTION HITH SIGMA 3-CF18 INTERCOMMUNICATION DEMO PROGRAM FOR SIG3.

CF-18 CLASS BI PROGRAM SUMMARIES

ASSEMBLER - ABLE 880000

AUTHOR: XEROX, SYSTEM PRODUCTS ABSTRACT:

THIS PROGRAM IS THE TELETYPE STAND-ALONE VERSION OF THE CF16 ABLE ASSEMBLER. IT READS SYMBOLIC SOURCE LANGUAGE, CONVERTS IT TO MACHINE LANGUAGE (OBJECT) PROGRAMS, OUTPUTS THE OBJECT PROGRAM ON PAPER TAPE AND PRINTS AN ASSEMBLY LISTING ON TELETYPE, THE OBJECT PROGRAM MAY BE LOADED BY THE ROLL LOADER.

DMMENTS:
ABLE IS SUPPLIED ON ABSOLUTE BINARY TAPE TO BE LOADED BY THE BLD BINARY LOADER. ABLE CONTROLS IN A MK
CF16 HITH TELETYPE. RESIDENCY IS APPROXIMATELY 2500 HORDS. ADJUSTMENT TO OPERATE HITH HIGH SPEED PAPER
TAPE IS MADE THROUGH A SIMPLE OPERATOR ROUTINE WHICH IS PART OF ABLE. ABLE PROCEDURES ARE DEFINED IN
PUBLICATION 901367A. ABLE LOADS AT LOCATION :20 AND RUNS FROM :100.

BINARY LOAD/DUMP - BLD/BOP 880004

AUTHOR: XEROX, SYSTEM PRODUCTS

AUTHOR:XENUX, STRICT FRODOTS
ABSTRACT:
BLD/BDP IS THE BASIC CF16 BINARY LOAD/DUMP (PUNCH) AND VERIFY PROGRAM. ALL CF16 BINARY PAPER TAPES MAY
BE LOADED VIA BLD. BDP PUNCHES BLD COMPATIBLE PAPER TAPE. THE VERIFY ROUTINE MAY BE USED TO VERIFY ANY
BINARY TAPE PUNCHED BY BDP.

BLD/BDP IS SUPPLIED ON BINARY RELOCATABLE TAPE. IN A 4K SYSTEM IT IS ORDINARILY LOADED AT FAO BY BOOT. THE LOADER AND VERIFY RUN FROM THE LOAD ADDRESS (NOMINALLY FAD) AND DUMP RUNS FROM 48 LOCATIONS HIGHER (NOMINALLY FDD). BLD/BDP OCCUPIES 86 LOCATIONS.

RELOCATABLE OBJECT LANGUAGE LOADER-ROLL CF-16
AUTHOR:XEROX, SYSTEM PRODUCTS

AUTHOR: RENUX, SYSTEM PRODUCTS
ABSTRACT:
THIS PROGRAM IS THE PAPER TAPE OBJECT LANGUAGE LOADER WHICH IS REQUIRED TO LOAD AND LINK RELOCATABLE
OBJECT TAPES PRODUCED BY THE ABLE ASSEMBLER. SUCCEEDING PROGRAM MODULES ARE LOADED AT THE NEXT AVAILABLE
HEMORY LOCATION AND ENTRY POINTS OF EXTERNAL SUB-PROGRAMS ARE LISTED ON THE TELETYPE. LOADING ERRORS
OBJECT TAPES PRODUCED BY THE ABLE ASSEMBLER. SUCCEEDING PROGRAM MODULES ARE LOADED AT THE NEXT AVAILABLE MESSAGE.

TRESAME.
COMMENTS:
ROLL IS AVAILABLE ON EITHER ABSOLUTE BINARY OR RELOCATABLE OBJECT PAPER TAPE. THE STANDARD ABSOLUTE
BINARY VERSION LOADS AT C10 AND OCCUPIES APPROXIMATELY 475 HORDS OF HEMORY. ROLL LOADS AT 100 AND RUNS
FROM 100.

DEBUG - DBUG 880006 6 CF-16
AUTHOR:XEROX, SYSTEM PRODUCTS

ABSTRACT:

DBUG IS AN ON-LINE CONVERSATIONAL UTILITY PROGRAM USED AS AN AID IN TEST AND MODIFICATION OF USER GENERATED PROGRAMS. FACILITIES INCLUDE SEARCH, MODIFY, PRINT, BREAKPOINTS, REGISTER DISPLAY, ETC. EIGHTEEN BASIC DBUG COMMANDS FACILITATE PROGRAM ADJUSTMENTS.

COMMENTS:

DBUG IS SUPPLIED ON BINARY RELOCATABLE PAPER TAPE. ON MK SYSTEMS DBUG IS ORDINARILY LOADED AT DFO AND OCCUPIES 331 LOCATIONS. IT MAY BE OPERATED AT ANY OTHER LOCATION BY LOADING AT AN ARBITRARY START ADDRESS VIA BLD. DBUG IS ENTERED AT THE LOAD ADDRESS.

SOURCE TAPE PREPARATION - STP 7 CF-16
AUTHOR:XEROX, SYSTEM PRODUCTS 880007

ABSTRACT:

THIS PROGRAM PROVIDES A METHOD FOR PREPARING AND/OR EDITING SOURCE TAPES FOR INPUT TO THE ABLE ASSEMBLER OR THE FORTRAN COMPILER. SOURCE LINES ARE ENTERED FROM THE TTY KEYBOARD, THE TTY TAPE READER, OR THE HIGH SPEED TAPE READER. EDITING AND CONTROL IS ACCOMPLISHED FROM THE TTY KEYBOARD. THE NEW SOURCE TAPE IS PUNCHED ON THE TTY PUNCH OR THE HIGH SPEED TAPE PUNCH. STP RESPONDS TO 22 BASIC COMMANDS. COMMENTS:

STP IS SUPPLIED ON OBJECT TAPE AND BINARY TAPE. THE BINARY TAPE IS ORGINATED AT :100. STP OCCUPIES LESS THAN :500 LOCATIONS PLUS APPROXIMATELY :A LOCATIONS PER SOURCE LINE.

TELETYPE UTILITY PACKAGE - TUP 80008

AUTHOR: XEROX, SYSTEM PRODUCTS ABSTRACT:

THE TELETYPE UTILITY PACKAGE CONSISTS OF 15 OBJECT ROUTINES. THESE ROUTINES PERFROM THE HOST COMMON TELETYPE 1/0 FUNCTIONS.

COMMENTS:
THE 15 ROUTINES ARE SUPPLIED ON A SINGLE OBJECT TAPE, MITH THE ROUTINES SEPARATED BY BLANK LEADER. THE
ORDER OF THE ROUTINES IS THE SAME AS THE LISTING.

HORST PATTERN MEMORY DIAGNOSTIC - PHPM 9 CF-16 AUTHOR:XEROX, SYSTEM PRODUCTS 880009

ABSTRACT:
PHPM IS THE HORST PATTERN MEMORY DIAGNOSTIC FOR THE CF16 COMPUTER. IT TESTS ALL CORE LOCATIONS (+26 -:F9F) FOR WORST PATTERN NOISE SUSCEPTIBILITY. COMMENTS:

PHPM IS LOADED AT :000 BY BLD AND TESTS CORE LOCATIONS :26 - F9F. THE LAST ADDRESS CHECKED MAY BE CHANGED AT EXECUTION TIME. ERRORS CAUSE THE COMPUTER TO HALT, DISPLAYING THE BAD BITS IN THE A REG., AND THE BAD CELL IN THE X REG.

CORE MEMORY DIAGNOSTIC - CMD 880011 CF-18

AUTHOR: XEROX, SYSTEM PRODUCTS

AUTHORIZEROA, STSTET FRODOLIS

ABSTRACT:
CMD TESTS ALL OF CORE MEMORY FOR PICKED UP OR DROPPED BITS AND VERIFIES MEMORY ADDRESSING, CONTROLS ARE
AVAILABLE FOR SPECIFYING THE BLOCK OF MEMORY UPON WHICH TESTS ARE TO BE RUN AND WHICH TESTS ARE TO BE
PERFORMED. DIAGNOSTIC PRINTOUTS ARE MADE ON TELETYPE TO IDENTIFY ERRORS.

CMD IS LOADED BY BLD AT LOCATION :800 AND RUNS FROM :800. CMD AUTOMATICALLY RELOCATES ITSELF TO TEST ALL OF CORE. PROGRAM RESIDENCE IS 175 LOCATIONS.

880012 INSTRUCTION DIAGNOSTIC PROGRAM - IDP

CF-16
AUTHOR: XEROX, SYSTEM PRODUCTS

ABSTRACT:

STRACT:

IDP EXERCISES ALL PROCESSOR LOGIC TO VERIFY FUNCTIONAL PERFORMANCE. TESTS ARE PERFORMED SERIALLY. EACH
TEST EXERCISES A SMALL SECTION OF THE PROCESSOR, AND RESULTS ARE IMMEDIATELY VERIFIED. IF THE
VERIFICATION FAILS, IDP IS HALTED AND THE CONTENTS OF REGISTERS COMBINED HITH THE IDP LISTING PROVIDE
THE BASIS FOR FAILURE ANALYSIS. THE PROGRAM MAY BE LOOPED ON THE FAILED TEST FOR A TROUBLESHOOTING AID.

IDP IS SUPPLIED ON ABSOLUTE BINARY TAPE WHICH LOADS AT :FO AND RUNS FROM :100.

CF-16 TELETYPE DIAGNOSTIC - TOP 880013

AUTHOR: XEROX, SYSTEM PRODUCTS

ABSTRACT:

TOP TESTS ALL TELETYPE I/O LOGIC AND CHECKS THE READER, PUNCH, AND PRINTER FOR ALL POSSIBLE CHARACTER CODES (0-FF). THE KEYBOARD INPUT IS CHECKED FOR ANY CHARACTERS THE USER MAY CHOOSE TO TEST. TOP VERIFIES ALL I/O FUNCTIONS. COMMENTS:

TOP LOADS AT LOCATION :100 VIA THE BLD BINARY LOADER AND OCCUPIES :175 LOCATIONS.

HIGH SPEED PAPER TAPE DIAGNOSTIC - HSPTD 880014 CF-16

AUTHOR: XEROX, SYSTEM PRODUCTS
ABSTRACT:

HSPTD IS THE DIAGNOSTIC PROGRAM FOR THE HIGH SPEED PAPER TAPE SYSTEMS. THE PROGRAM HILL TEST THE HIGH SPEED READER ALONE, OR IN CONJUNCTION HITH THE HIGH SPEED PUNCH. THE PUNCH PORTION REQUIRES A HIGH SPEED READER TO VERIFY THE PUNCH OUTPUT. COMMENTS:

H-1 HATH PACKAGE 880015 CF-18

AUTHOR: XEROX

ABSTRACT:

M-1 CONTAINS THELVE (12) COMMON SINGLE AND DOUBLE PRECISION ARITHMETIC FUNCTIONS. THESE EXTERNAL (DEF) ROUTINES, AND THEREFORE MUST BE DEFINED IN THE CALLING PROGRAM (BY A REF). THESE ROUTINES ARE

REFER TO XEROX PUBLICATION #901838 FOR A DESCRIPTION OF THE ROUTINES.

880016 H-2 HATH PACKAGE

AUTHOR: XEROX

ABSTRACT:

H-2 CONTAINS THELVE MATHEMATICAL FUNCTIONS IN OBJECT FORMAT. THESE ROUTINES ARE EXTERNAL ROUTINES (DEF)

AND THEREFORE MUST BE DEFINED IN THE CALLING PROGRAM (BY A REF).

REFER TO XEROX PUBLICATION #901638 FOR A DESCRIPTION OF THE ROUTINES.

FORTRAN COMPILER 880018

AUTHOR: XEROX ABSTRACT:

PORTRAN IS COMPATIBLE HITH ANSI BASIC FORTRAN HITH THE VARIATIONS AS NOTED IN APPENDIX A OF THE BASIC FORTRAN REFERENCE MANUAL (#901735).

FORTRAN GENERATES OBJECT TAPES OF MAIN BODY PROGRAMS AND SUBROUTINES. THESE OBJECT TAPES ARE LOADED BY

FOLL FORTRAN OBJECT LANGUAGE LOADER 880019 AUTHOR: XEROX

FOLL IS USED TO LOAD FORTRAN GENERATED OBJECT TAPES, SUBROUTINES, AND REQUIRED RUN TIME SYSTEM ROUTINES.

FOLL IS SUPPLIED AS A RELOCATABLE BINARY TAPE WITH A LOAD POINT OF :DEG.

Publication Revision Sheet

JANUARY 1975

This Publication Revision Sheet summarizes the changes to user programming manuals since the last quarterly update. These changes, and the changes to diagnostic program manuals, are identified in the text of the Publications Catalog by revision bars.

New User Programming Manuals

| Publication Number | Title | Description |
|-----------------------|--|--|
| . 90 31 21A | Xerox 1200 CPS EPCP General Reference Manual | Describes external characteristics of the extended printer control program version of the Xerox 1200 computer printing system. |
| 90 31 23A | Xerox 1200 CPS EPCP Operator's Reference Card | Describes key operating features of the extended printer control program of the Xerox 1200 computer printing system. |
| 90 31 24A | Xerox 1200 CPS EPCP System Pro- grammer's Reference Card | Describes the key system programmer's features of the extended printer control program of the Xerox 1200 computer printing system. |
| 90 31 13A | Xerox CP-V System Programming Reference Manual (Xerox 560 and Sigma 6/7/9) | Describes the external characteristics of the system programming features. |
| 90 31 31A | Xerox CP-V Pocket Guide | Describes the key programming features of time-sharing processors. |

Revised User Programming Manuals

| Publication Number | <u>Title</u> | Description |
|-----------------------|---|--|
| 90 19 83C - 3 | Xerox 1200 CPS General Reference Manual | This revision package documents the BO1 version of the PCP. |
| 90 19 81D | Xerox 1200 CPS System Programmer's Reference Card | This edition documents the BO1 version of the PCP. |
| 90 15 55G | Xerox RBM OPS Reference Manual (Xerox 530 and Sigma 2/3) | This edition documents the G00 version of the software. |
| 90 11 53E-1 | Xerox RBM System Technical Manual (Xerox 530 and Sigma 2/3) | This revision package documents the F01 version of the software. |
| 90 30 85C | Xerox CP-R RT, BP Reference Manual (Xerox 550 and Sigma 9) | This edition documents the C00 version of CP-R. |
| 90 30 86C | Xerox CP-R OPS Reference Manual (Xerox 550 and Sigma 9) | This edition documents the C00 version of CP-R. |
| 90 30 87B | Xerox CP-R RT User's Guide (Xerox 550 and Sigma 9) | This edition documents the C00 version of CP-R. |

Revised User Programming Manuals (cont.)

| Publication Number | <u>Title</u> | Description |
|---------------------------|--|--|
| 90 31 10B | Xerox CP-R Availability Features Reference Manual (Xerox 550 and Sigma 9) | This edition documents the C00 version of CP-R. |
| 90 18 03C-1 | Xerox BTM/BPM/CP-V Overlay Loader Technical Manual (Xerox 560 and Sigma 5-9) | This edition documents the BOO of CP-V and the HO1 version of BPM/BTM. |
| 90 1 <i>7</i> 6 4F | Xerox CP-V BP Reference Manual (Xerox 560 and Sigma 6/7/9) | This edition documents the C00 version of CP-R. |
| 90 09 07F-1 | Xerox CP-V TS Reference Manual (Xerox 560 and Sigma 6/7/9) | This revision package documents the C00 version of CP-V. |
| 90 16 7 4 G | Xerox CP-V SM Reference Manual (Xerox 560 and Sigma 6/7/9) | This edition documents the C00 version of CP-V. |
| 90 16 75G | Xerox CP-V OPS Reference Manual (Xerox 560 and Sigma 6/7/9) | This edition documents the C00 version of CP-V. |
| 90 18 83D | Xerox CP-V TS Reference Card (Xerox 560 and Sigma 6/7/9) | This edition documents the C00 version of CP-V. |
| 90 19 95C | Xerox CP-V Data Base Technical Manual (Xerox 560 and Sigma 6/7/9) | This edition documents the C00 version of CP-V. |
| 90 18 51B | Xerox TEXT OPS Reference Manual (Xerox 560 and Sigma 6/7/9) | This edition documents the A02 version of TEXT. |
| 90 16 97B | Xerox CIRC-DC Reference Manual (Sigma 5-9) | This edition merely incorporates the 90 16 97A-1 revision package into the manual. |



Program Availability List

Contents of Publications Section

| 4.1 CENERAL INICORMATION | | | |
|--|----------|---------------------------------------|----------|
| 6-1 GENERAL INFORMATION | 1 | BCM | |
| Introduction | • | RBM-1 | 33 |
| Introduction Diagnostic Program Manuals | | RBM | |
| User Programming Manuals | | CP-R | |
| Tunes of Llear Durantum to Advantage | { | BPM | 37 |
| Types of User Programming Manuals | | BPM/BTM/CP-V | 40 |
| Identification of User Programming Ma | nuals2 | CP-V/CP-R | 41 |
| Publications Subscription Service | | CP-V | 41 |
| Payment | 4 | Sigma 5-9 Processors and Applications | 50 |
| Pricing | | Assemblers | 50 |
| Revisions to User Programming Manuals | 5 | FORTRAN IV | 51 |
| User-Contributed Manuals | 5 | Math Routines | |
| | | FORTRAN IV-H | |
| | | FORTRAN Debug | 53 |
| 4 2 VEROV 520 550 570 AND STOLLAR | | FORTRAN Load and Go | |
| 6-2 XEROX 530, 550, 560 AND SIGMA COM | PUTERS 7 | COBOL | 54 |
| | | IDP | 55 |
| User Programming Manuals | 7 | RPG | 56 |
| Central Processing Units | | APL | 56 |
| Peripherals | 11 | BASIC | 56 |
| Card Equipment | | EASY | 57 |
| Magnetic Tape Units | 11 | Miscellaneous | 58 |
| Direct Access Units | | Sort | 59 |
| Displays | | Manage | 59 |
| Plotters | 15 | TEXT | 60 |
| Paper Tape Units | 15 | FMPS | 60 |
| Communications Equipment | | SL-1' | 61 |
| Peripheral Switch Equipment | | CIRC | 61 |
| Line Printers | 16 | DMS | 63 |
| 1200 Computer Printing System | 19 | GPDS | 64 |
| Remote Batch Terminals | | GPDSHardware Diagnostics | 65 |
| Automatic Dialing Equipment | | Xerox 530 and Sigma 2/3 Diagnostic | |
| Keyboard Printers | 21 | Manuals | 65 |
| Xerox 530 and Sigma 2/3 Operating Sy | stems 23 | Central Processing Units | 65 |
| Stan d -Alone | 23 | Peripherals | 66 |
| . BCM | 23 | Sigma 5–9 Diagnostic Manuals | |
| 530 and 2/3 RBM | 24 | Central Processing Units | 68 |
| Xerox 530 and Sigma 2/3 Processors and | | Peripherals | |
| Applications | 27 | | |
| Symbol | 27 | | |
| FORTRAN | 27 | | |
| Scientific Subroutine | 29 | 6-3 9-SERIES COMPUTERS | 72 |
| Sort | 30 | | , 2 |
| ans cobol | 30 | User Programming Manuals | 72 |
| RPG | 30 | Hardware | 72 |
| Sigma 5-9 Operating Systems | 32 | Operating Systems | 73 |
| Computer Center Subsystem | 32 | Language Processors | /3 73 |
| Stand-Alone | | Hardware Diagnostics | |



INTRODUCTION

The Publications Section of the PAL Manual contains information for two types of Xerox Computer publications: diagnostic program manuals and user programming manuals. (Marketing literature is contained in the Sales Aid Catalog, 63 24 02A). Only one line of information appears for diagnostic program manuals. This line contains

Publication Revision
Number Date Price Title

Additional information is supplied for user programming manuals to define the contents of each manual and the intended audience.

DIAGNOSTIC PROGRAM MANUALS

Diagnostic program manuals describe the directives and operating procedures for programs that have been written to test and exercise central processor or peripheral units. All diagnostic program manuals for hardware are included.

USER PROGRAMMING MANUALS

User programming manuals are classified into two general categories: hardware and software. Hardware programming manuals define the programming characteristics of central processors and input/output devices. Software programming manuals define the programming characteristics of operating systems, language processors, and application programs.

TYPES OF USER PROGRAMMING MANUALS

For software products, three types of user programming manuals are produced: reference manuals, user's guides, and technical manuals. For hardware products, only one type of user programming manual (reference manual) is produced.

The Xerox Computer programming <u>reference manual</u> is the overall source of information for a hardware or software product. It defines the external programming and operating characteristics of a product and is designed primarily for reference purposes. It is usually organized by command set (i.e., job control commands, system procedures, etc.), by command type (i.e., control statements, I/O statements, etc.), or software feature. Although examples are often included, they are normally used to illustrate command structure and not the relationship between commands.

The Xerox Computer programming <u>user's guide</u> is a tutorial manual and usually contains only a part of the information given in the corresponding reference manual. It shows how to use the product and is commonly organized by function (i.e., compiling, debugging, executing). Numereous examples are employed in user's guides to illustrate typical usage.

The Xerox Computer programming <u>technical manual</u> defines the internal structure of a software product. It is designed for use with program listings and normally contains an overview of the product, table structure, module descriptions, and flowcharts. The primary purpose of the technical manual is to provide maintenance programmers with sufficient information about the structure of the product to allow them to modify it.

Some software products require more than one manual of each type. For example, an operating system may require reference manuals for each of the following kinds of information:

| Information | Description |
|-------------------|---|
| Batch Processing | Includes information to allow programmers to write batch programs and to submit them to the batch job stream through a central site I/O device. |
| Remote Processing | Includes information to allow programmers to submit jobs through a remote batch processing terminal. |
| Time-Sharing | Includes information to allow programmers to use on-line time-sharing terminals. This includes the terminal executive language and some of the terminal subsystems. |
| System Management | Includes information to allow system programmers to tailor the system to user requirements via system generation options, to monitor the system through a performance monitor, and to adjust the system to changing requirements by varying operational parameters. |
| Operations | Includes information to allow operations management to prepare detailed, step-by-step procedures for computer operators. |
| Real-Time | Includes information to allow real-time programmers to write programs that will operate in real-time mode and to submit these programs for execution at the central site. |

A language processor normally requires material to describe the language, and additional material to describe the operating system interface. The operating system interface description contains compile and execute options and other operational information. Sometimes the interface material is extensive enough to warrant two separate manuals: a language manual and an operations manual.

The technical information for a product may also require several volumes. For example, certain parts of an operating system, such as the SYSGEN module or Loader, are designed to operate within more than one operating system. These modules are sometimes described in separate volumes.

IDENTIFICATION OF USER PROGRAMMING MANUALS

Each line of Xerox Computer software manual title has a specific function, as follows:

Line 1 Product name

Line 2 Applicable computers

Line 3 Manual content Line 4 Manual type

Product name is the formal name of the product.

Xerox Universal Time-Sharing System (UTS)

Applicable computers are the computers on which the software product operates.

Xerox Universal Time-Sharing System (UTS)
Sigma 6/7/9 Computers

Manual content identifies the information contained in the manual.

Xerox Universal Time-Sharing System (UTS)
Sigma 6/7/9 Computers

Batch Processing

Typical content designations for reference manuals and user's guides are as follows:

Batch Processing Remote Processing Time-Sharing System Management Operations Real-Time Utilities Language

<u>Manual type</u> identifies one of the three types of Xerox Computer manuals; reference manual, user's guide, technical manual.

Xerox Universal Time-Sharing System (UTS) Sigma 6/7/9 Computers

> Batch Processing Reference Manual

All central processor hardware programming manuals are identified by a two-line title consisting of lines 1 and 4.

Xerox Sigma 9 Computer

Reference Manual

All peripheral I/O device programming manuals are identified by a three-line title consisting of lines $1,\ 2,\$ and $4,\$ where line 2 identifies model numbers instead of applicable computers.

Xerox Buffered Line Printer Model 7441

Reference Manual

In the manual descriptions in this section, these multiline titles are expressed in the

product name/manual content, manual type (applicable computers).

Manual content is abbreviated as follows:

| BP | Batch Processing |
|-----|-------------------|
| LN | Language |
| OPS | Operations |
| RP | Remote Processing |
| RT | Real-Time |
| SM | System Management |
| TS | Time-Sharing |
| ÚŤ | Utilities |

PUBLICATIONS SUBSCRIPTION SERVICE

The publications subscription service provides a customer-oriented service for registration and automatic distribution of programming publications. Subscriptions are accepted for a one or two year period. Subscribers have two options:

- They have the option of requesting the latest edition and all revision packages of a given publication to be sent immediately. In this case, the subscription starts upon receipt of the subscription request.
- 2. They have the option of requesting that the subscription not be made effective until the next edition of the publication is printed. In this case, the subscription starts with the printing of the next edition of the publication. Until that time, the subscriber receives all revision packages.

A subscription terminates prior to the issuance of a new edition of a given publication after the first or second anniversary of the subscription. The subscriber is notified in advance that his subscription to that publication has expired so that he can respond early enough to avoid an interruption of service. The expiration of a subscription for one publication does not affect the subscription to any other publication that may have been listed on the same request.

Subscribers are not allowed to apply educational discounts against subscription prices. However, to prevent bookstores from being faced with the prospect of absorbing the loss for unsold publications, full credit is given for all publications returned within 60 days of shipping.

PAYMENT

The subscription request must be accompanied by payment in full for the total request (i.e., deferred subscriptions that do not go into effect until the printing of the next edition of the associated publication must be included in the payment.) Payment may be in the form of a billable purchase order or a check made payable to the Xerox Corporation.

PRICING

Subscription prices are based on the base price of the publication and take into account the frequence of change of the publication. Since the subscription price is a factor of the base price, it is necessary to increase this factor for those publications with a higher frequence of change. Thus, central processor and peripheral publications have the smallest factor, processor and application publications have the next smallest factor, and operating systems have the largest factor.

Subscription prices are reviewed and adjusted annually. The new subscription prices appear in the January reprint of the PAL Manual.

A more detailed discussion of the subscription service is included in the General Information Section of the PAL Manual along with a sample subscription form.

REVISIONS TO USER PROGRAMMING MANUALS

A revision to a user programming manual is made either by a revision package or by a revision and reprint of the entire manual. The type of revision that is made depends primarily on the size of the revision. A revision package is assigned a number made up of the number of the publication being revised the current revision letter for that edition, the number of the revision package, and the current date; e.g., 30 16 54B-2 (6/71). Revision packages are incorporated into the manual during the next reprint of the manual (normally every six months to a year). All manuals listed in the Sigma and 9-Series publications sections that have outstanding revision packages have them listed below the basic publication number. For example,

| Publication Number | Revision Date | <u>Price</u> | Title and Contents |
|---|----------------------|----------------|---|
| 90 16 54B 90 16 54B-1 90 16 54B-2 | 4/71 4/71 6/71 | 4.00 C C | Xerox FLAG/Reference Manual (Sigma 5-8) Software Version: B01 |
| | | | Describes external programming characteristics of FLAG, and is intended for use by FORTRAN programmers. Contents: FLAG compiler, data, expressions, assignment, statement, control statement, input/output, declaration statements, program and subprograms, operations, FLAG statements. |

A revision and reprint is made when the changes are too numerous to make with a revision package. In this case, the entire manual is reprinted and given a new revision letter. A revision notice on the back of the title page briefly describes the purpose of the revision.

USER-CONTRIBUTED MANUALS

Xerox Computer users may submit manuals they have written to the User's Group for publication. These manuals should be submitted to EXCHANGE (Attention: Sheri Penney) and should be in the form of typed, reproducible drafts. All drawings should be in ink (those drawn in pencil do not reproduce adequately).

User-contributed manuals are not supported by Xerox. Those submitted for publication will be assigned a publication number and published as is. All user-contributed manuals will be listed in this section of the PAL manual and should be ordered in the same way other manauls are ordered.



| USER PRO | OGRAMMING | MANUALS |
|----------|------------------|----------|
| CENTRAL | PROCESSIN | WG UNITS |

| Publication <u>Number</u> | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | Title and Contents |
|------------------------------|------------------|-----------|-------------------|-------------------|---|
| 90 19 60B 90 19 60B-1 | 9/73 10/73 | 3.75 C | 4.50 C | 7.50 C | Xerox 530 Computer Reference Manual |
| 30 13 805-1 | 10/73 | | | | Describes programming and operating characteristics of Xerox 530 computers and is intended for use by machine and assembly language programmers. Contents: General characteristics, real-time and multiusage features, standard and optional features, information nomenclature and formats, system organization, instruction repertoire, input/output systems, operator controls, reference tables, instruction timing, read/write instructions. |
| 90 30 76A 90 30 76A-1 | 1/74 1/74 | 7.25 C | 8.70 C | 14.50 C | Xerox 560 Computer/Reference Manual |
| | | | | | Describes programming and operating characteristics of Xerox 560 computer and is intended for use by machine and assembly language programmers. Contents: General characteristics, system organization, instruction repertoire, input/output operations, operational control, system configuration control, reference tables, glossary of symbolic terms, fault status registers. |
| 90 30 77A | 2/74 | 6.50 | 7.80 | 13.00 | Xerox 550 Computer/Reference Manual |
| · | | | | | Describes programming and operating characteristics of Xerox 550 computer and is intended for use by machine and assembly language programmers. Contents: General characteristics, system organization, instruction repertoire, input/output operations, operational control, system configuration control, reference tables, glossary of symbolic terms, fault status registers. |
| 90 09 64F | 12/69 | 2.00 | 2.40 | 4.00 | Xerox Sigma 2 Computer/Reference Manual |
| | | | | | Describes programming and operating characteristics of Sigma 2 computers and is intended for use by machine and accomply: |

intended for use by machine and assembly language programmers. Contents: General characteristics, real-time and multiusage features, system organization, instruction

USER PROGRAMMING MANUALS CENTRAL PROCESSING UNITS

| Publication Number | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | Title and Contents |
|-----------------------|------------------|-------|-------------------|-------------------|--|
| | | | | | repertoire, input/output operations, operator control, reference tables, instruction execution cycle, memory addressing, watchdog timer. |
| 90 15 96D | 1972 | С | С | С | Xerox Sigma 2/3 Computer/Reference Card |
| · | | | | | Specifies key reference information for Sigma 2/3 computers and is intended for use by programmers. Contents; Mnemonic listing of instructions, code listing of instructions, instruction format, condition codes, interrupt locations, Sigma 2/3 interrupt system control, hexadecimal integer conversion table, device orders, I/O status information, I/O control doublewords and I/O tables, program status doubleword, read direct internal control functions, write direct internal control functions. |
| 30 15 92 D | 5/72 | 2.75 | 3.30 | 5.50 | Xerox Sigma 3 Computer/Reference Manual |
| | | | | | Describes programming and operating characteristics of Sigma 3 computer and is intended for use by machine and assembly language programmers. Contents: System design features, system organization, instruction repertoire, input/output operations, operator controls, reference tables, instruction timing, watchdog timer, model 8150 Sigma 5/7 memory adaptor. |
| 90 09 59F | 7/72 | 4.50 | 5.40 | 9.00 | Xerox Sigma 5 Computer/Reference Manual |
| | | | | | Describes programming and operating characteristics of Sigma 5 computer and is intended for use by machine and assembly language programmers. Contents: System design features, system organization, instruction repertoire, input/output operations, operator controls, reference tables, reference diagrams, instruction list, execution times. |
| 90 16 24D | 1971 | C | С | С | Xerox Sigma 5 Computer/Reference Card |
| | | | | | Specifies key reference information for Sigma 5 computer and is intended for use by programmers. Contents: Instruction list and |

USER PROGRAMMING MANUALS CENTRAL PROCESSING UNITS

| | | | | | • |
|--------------------------|--------------------|--------------|-------------------|-------------------|---|
| Publication Number | n Revision Date | <u>Price</u> | 1 Year Subscr. | 2 Year Subscr. | <u>Title and Contents</u> |
| | · | | | | codes, loading operation sequence, program status doubleword, trap system summary, IOP command doublewords, input/ output operations, status bits for I/O instructions, interrupt locations. |
| 90 17 13B | 6/71 | 5.25 | 6.30 | 10.50 | Xerox Sigma 6 Computer/Reference Manual |
| | | | | | Describes programming and operating characteristics of Sigma 6 computer and is intended for use by machine and assembly language programmers. Contents: System design features, system organization, instruction repertoire, input/output operations, operator controls, reference tables, reference diagrams, instruction list, instruction timing. |
| 90 09 50 J | 11/73 | 5.25 | 6.30 | 10.50 | Xerox Sigma 7 Computer/Reference Manual |
| | | | | | Describes programming and operating characteristics of Sigma 7 computer and is intended for use by machine and assembly language programmers. Contents: System characteristics, system organization, instruction repertoire, input/output operations, operator control, reference tables, reference diagrams, instruction list, instruction timing. |
| 90 15 29 E | 3/73 | С | С | С | Xerox Sigma 6/7 Computer/Reference Card |
| | | | | | Specifies key reference information for Sigma 6/7 computer and is intended for use by programmers. Contents: Basic instructions, loading operation, input/output instructions, status bits for I/O instructions, command doubleword format, peripheral device order codes, hexadecimal-decimal integer conversion table Sigma 6/7 basic operation codes, instruction format, program status doubleword, summary of Sigma 6/7 trap system, Sigma 6/7 interrupt locations, dedicated core memory locations. |
| 90 17 49A 90 17 49A-1 | 1/71 3/71 | | | 11.50 C | Xerox Sigma 8 Computer/Reference Manual |

USER PROGRAMMING MANUALS CENTRAL PROCESSING UNITS

| Publication Number | Revision Date | Price | 1 Year Subscr. | 2 Year Subscr. | Title and Contents |
|--------------------------|------------------|-----------|-------------------|-------------------|---|
| 90 17 49A-2 | 9/73 | С | C | С | |
| | | | | | Describes programming and operating characteristics of Sigma 8 computer and is intended for use by machine and assembly language programmers. Contents: General characteristics, system organization, instruction repertoire, input/output operations, operator controls, reference tables, instruction list, instruction timing, system reliability and maintainability, glossary of symbolic terms. |
| 90 17 33C 90 17 33C-1 | 6/72 4/74 | 7.00 C | 8.40 C | 14.00 C | Xerox Sigma 9 Computer/Reference Manual |
| | • | | | | Describes programming and operating characteristics of Sigma 9 computer and is intended for use by machine and assembly language programmers. Contents: system design features, system organization, instruction repertoire, input/output operations, operator controls, reference tables, instruction list, instruction timing, system reliability and maintainability, glossary of symbolic terms. |
| 90 18 54A | 4/73 | С | С | С | Xerox Sigma 8/9 Computer/Reference Card |
| | | | | | Specifies key reference information for Sigma 8/9 computers and is intended for use by programmers. Contents: instructions, instruction list, computer operating and addressing mode, program status doublewords, loading operation, command doubleword formats, instruction word formats, shift instructions, input/ output instruction formats, condition code, status bits for I/O instructions, read/write directs, memory (homespace) layout, interrupt locations, map location summary. |
| 90 09 57A | 3/66 | С | С | С | Xerox Sigma Glossary of Computer Terminology |
| | | | | | Provides brief definitions of special terms associated with Sigma Computers. |

USER PROGRAMMING MANUALS PERIPHERALS

| Publication Number | Revision Date | Price | 1 Year Subscr. | 2 Year Subscr. | Title and Contents | | | | | | |
|--------------------------------|------------------|-----------|-------------------|-------------------|--|--|--|--|--|--|--|
| 90 15 30C | 1971 | С | С | С | Xerox Sigma Symbols and Codes/Reference Card | | | | | | |
| | | | | | Specifies Standard EBCDIC and ANSCII codes. Contents: 8-bit EBCDIC codes and 7-bit ANSCII codes. | | | | | | |
| totototoCARD EQUIPMENTitototot | | | | | | | | | | | |
| 90 09 70E | 11/70 | 1.00 | 1.20 | 2.00 | Xerox Card Reader/Reference Manual (Models 7120/7122/7140) | | | | | | |
| | | | | | Describes external programming and operating characteristics of card reader and is intended for use by assembly and machine language programmers. Contents: functional description, program interface, operations, EBCDIC card codes, programming examples. | | | | | | |
| 90 09 710 | 8/68 | .75 | .90 | 1.50 | Xerox Card Punch/Reference Manual (Model 7160) | | | | | | |
| | • | | | | Describes external programming and operating characteristics of card punch and is intented for use by assembly and machine language programmers. Contents: functional description, program interface, operations, EBCDIC card codes, Sigma 7 card punch program. | | | | | | |
| 90 15 67A | 7/69 | 1.00 | 1.20 | 2.00 | Xerox 100 Card/Minute Card Punch/ Reference Manual (Model 7165) | | | | | | |
| | | | | | Describes external programming and operating characteristics of card punch and is intended for use by assembly and machine language programmers. Contents: functional description, program interface, operations, programming examples, standard codes. | | | | | | |
| *******MAGNET I | C TAPE UN | (TSiddidd | f | | | | | | | | |
| 90 09 770 | 11/70 | 1.00 | 1.20 | 2.00 | Xerox 9-Track Magnetic Tape System/ Reference Manual (Models 7320/7322/7323) | | | | | | |
| | | | | | Describes external programming and operating | | | | | | |

characteristics of 9-track magnetic tape system and is intended for use by assembly and machine language programmers. Contents: Functional description, program interface,

USER PROGRAMMING MANUALS PERIPHERALS

| Publication Number | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | Title and Contents |
|-----------------------|------------------|----------|-------------------|-------------------|--|
| | | | | | operations, Sigma 5/6/7/9 programming examples, Sigma 2/3 programming example. |
| 90 09 78A | 9/67 | 1.25 | 1.50 | 2.50 | Xerox 7-Track Magnetic Tape System/ Reference Manual (Models 7361/7362/7371/7373) |
| | | | | | Describes external programming and operating characteristics of 7-track magnetic tape system and is intended for use by assembly or machine language programmers. Contents: Operating characteristics, physical dimensions, environmental conditions, functional description, program interface, operator controls, BCD-EBCDIC conversion chart, example of Sigma 5/7 and Sigma 2 programming. |
| 90 19 13A | 1/73 | 1.75 | 2.10 | 3.50 | Xerox High Performance Magnetic Tape System (Models 7330/7332/7333/ 1038/7322) |
| | | | | | Describes external programming and operating characteristics of high performance magnetic tape system and is intended for use by assembly or machine language programmers. Contents: General description, functional description, program interface, operations. |
| 90 30 91A | 6/74 | 1.75 | 2.10 | 3.50 | Xerox Magnetic Tape System/Reference Manual (Models 3322/3325/3332/3335/1045/1046) |
| | | | | | Describes external programming characteristics of magnetic tape unit and is intended for use by assembly language programmers. Contents: General description, functional description, program interface, operations. |
| sossos DIRECT . | ACCESS UNI | TS****** | | | |
| 90 09 790 | 2/72 | 1.25 | 1.50 | 2.50 | Xerox RAD Storage System/Reference Manual (Models 7201/7202/7203/7204) |
| | | | | | Describe external programming and operating characteristics of RAD storage system and is |

| Publication Number | Revision Date | Price | l Year <u>Subscr.</u> | 2 Year Subscr. | Title and Contents |
|-----------------------|------------------|-------|--------------------------|-------------------|--|
| | | | | | intended for use by assembly and machine language programmers. Contents: Characteristics, functional description, program interface, examples of Sigma 5-9 and Sigma 2/3 programming. |
| 90 09 80A | 6/68 | .75 | .90 | 1.50 | Xerox High Speed RAD Storage System/ Reference Manual (Models 7211/7212) |
| | | | | | Describes external programming and operating characteristics of high speed RAD storage system and is intended for use by assembly and machine language programmers. Contents: Functional description, program interface, programming example. |
| 90 ₁ 5 57D | 5/73 | 1.25 | 1.50 | 2.50 | Xerox Extended Performance RAD Storage System/Reference Manual (Models 7231/7232) |
| • | | | | | Describes external programming and operating characteristics of extended performance RAD storage system and is intended for use by assembly and machine language programmers. Contents: Functional description, program interface, programming examples for Sigma 5-9 and Sigma 2/3. |
| 80 16 71B | 8/71 | 1.75 | 2.10 | 3.50 | Xerox Removable Disk Storage System/ Reference Manual (Models 7240/7242/7246) |
| | | | | | Describes external programming and operating characteristics of removable disk storage system and is intended for use by assembly and machine language programmers. Contents: General description, functional description, program interface, operations. |
| 30 18 75B | 8/73 | 2.00 | 2.40 | 4.00 | Xerox Removable Disk Storage Systems/ Reference Manual (Models 7260/7261) |
| | | | | | Describes external programming and operating characteristics of removable disk stances |

characteristics of removable disk storage systems and is intended for use by assembly and machine language programmers. Contents: General description, functional description,

| Publication Number | Revision Date | <u>Price</u> | l Year Subscr. | 2 Year Subscr. | Title and Contents |
|-----------------------|------------------|--------------|-------------------|-------------------|---|
| | | | | | program interface, programming considerations, operations. |
| 90 30 24A | 6/73 | 1.50 | 1.80 | 3.00 | Xerox Cartridge Disk System/Reference Manual (Models 7250/7251/7252) |
| | | | | | Describes external programming and operating characteristics of cartridge disk system and is intended for use by assembly and machine language programmers. Contents: General description, functional description, program interface, operations. |
| 90 30 57A | 11/73 | 1.50 | 1.80 | 3.00 | Xerox Removable Disk Reference Manual (Models 7270/7271) |
| | | | | | Describes external programming and operating characteristics of removable disk storage system and is intended for use by assembly and machine language programmers. Contents: Functional description, program interface, operations. |
| 90 30 79A | 11/73 | 1.50 | 1.80 | 3.00 | Xerox Removable Disk Reference Manual (Models 7275/7276) |
| | · | | | | Describes external programming and operating characteristics of removable disk storage system and is intended for use by assembly and machine language programmers. Contents: Functional description, program interface, operations. |
| ☆☆☆☆DISPLA | A2,uqqqq | | | | |
| 90 09 82A | 5/69 | .75 | .90 | 1.50 | Xerox Multipurpose Keyboard/Reference Manual (Models 7550/7555) |
| | | | | | (Obsolete) |
| | | | | | Describes external programming and operating characteristics of multipurpose keyboard display and is intended for use by assembly and machine language programmers. Contents: Functional description program interface, operations. |

| | | 3 | | | |
|-----------------------|------------------|----------|-------------------|-------------------|---|
| Publication Number | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | Title and Contents |
| 30 15 66B | 11/69 | .75 | .90 | 1.50 | Xerox Graphic Display Unit/Reference Manual (Model 7580) |
| • | | | | | (Obsolete) |
| • | | | | | Describes external programming and operating characteristics of graphic display unit and is intended for use by assembly and machine language programmers. Contents: Functional description, program interface, operations, programming example. |
| | | | | | |
| ******PLOTTER | Statatata | | | | |
| 90 11 94B | 11/70 | .75 | .90 | 1.50 | Xerox Graph Plotters/Reference Manual (Models 7530/7531) |
| | | | | | Describes external programming and operating characteristics of graph plotters and is intended for use by assembly and machine language programmers. Contents: Functional description, program interface, operations, programming examples, sample plots. |
| idddin PAPER TA | APE UNITS | ininini | | | |
| 30 09 83C | 10/72 | .75 | .90 | 1.50 | Xerox Paper Tape Input/Output System/ Reference Manual (Model 7060) |
| | | | | | Describes external programming and operating characteristics ofpaper tape input/ output system and is intended for use by assembly and machine language programmers. Contents: Functional description, program interface, operations, program examples. |
| *****COMMUNIC | CATIONS EQU | JIPMENT* | nininini | | |
| 90 15 68B | 12/69 | 1.00 | 1.30 | 2.00 | Xerox Message-Oriented Communications Equipment/Reference Manual (Models 7601/7604) |
| | | | | | Describes external programming and operating characteristics of message-oriented |

characteristics of message-oriented

communications equipment and is intended for

USER PROGRAMMING MANUALS PERIPHERALS

| Publication Number | Revision Date | Price | 1 Year Subscr. | 2 Year Subscr. | Title and Contents |
|-----------------------|------------------|---------|-------------------|-------------------|--|
| | | | | | use by assembly and machine language programmers. Contents: Functional description, program interface, standard codes. |
| 90 09 81C | 4/73 | 1.25 | 1.50 | 2.50 | Xerox Character-Oriented Communications Equipment/Reference Manual (Models 7611- 7616/7620-7623) |
| | | | | | Describes external programming and operating characteristics of character-oriented communications equipment and is intended for use by assembly and machine language programmers. Contents: General description, functional description, program interface, programming examples, standard codes. |
| 90 30 14A | 6/73 | 1.00 | 1.20 | 2.00 | Xerox Procedure-Oriented Communications Equipment/Reference Manual (Model 7605) |
| | | | | | Describes external programming and operating characteristics of procedure-oriented communications equipment and is intended for use by assembly and machine language programmers. Contents: General description, hardware, functional description, program interface, standard symbols, codes, and correspondences, IBM EBCDIC and six-bit transcode character sets and conversions. |
| *******PERIPH | ERAL SWITC | H EQUIP | MENT***** | • | |
| 90 16 00A | 4/69 | .75 | .90 | 1.50 | Xerox Peripheral Switching Equipment/ Reference Manual (Models 7710/7720-7722) |
| | | | | | Describes external programming and operating characteristics of peripheral switching equipment and is intended for use by assembly and machine language programmers. contents: General and functional description program interface, sample programs. |
| noncontline F | RINTERS | n'oric | | | |
| 90 16 01B | 4/73 | 1.00 | 1.20 | 2.00 | Xerox Buffered Line Printer/Reference Manual (Model 7450) |
| | | | | | |

| | Publication Number | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | Title and Contents |
|---|-----------------------|------------------|-------|-------------------|-------------------|---|
| | | | | | | Describes external programming and operating characteristics of buffered line printer and is intended for use by assembly and machine language programmers. Contents: Functional description, program interface, operations, programming examples. |
| : | 90 10 14D | 1/70 | .75 | .90 | 1.50 | Xerox Buffered Line Printer/Reference Manual (Models 7440/7445) |
| | | | | | | Describes external programming and operating characteristics of buffered line printer and is intended for use by assembly and machine language programmers. Contents: Functional description, program interface, operations, device state sequences, Sigma 5/7 programming example. |
| 5 | 20 17 23B | 2/73 | 1.50 | 1.80 | 3.00 | Xerox Buffered Line Printer/Reference Manual (Model 7441/7442) |
| | | | | | | Describes external programming and operating characteristics of buffered line printer and is intended for use by assembly and machine language programmers. Contents: General description, functional description, program interface, operations. |
| 9 | 0 17 43B | 5/72 | 2.00 | 2.40 | 4.00 | Xerox Line Printer/Reference Manual (Model 7446) |
| | | | | | | Describes external programming and operating characteristics of the 7446 line printer and is intended for use by assembly and machine language programmers. Contents: Functional description, program interface, operations. |
| 9 | 30 30 22A | 4/73 | 1.25 | 1.50 | 2.50 | Xerox Buffered Line Printer/Reference Manual (Model 3451) |
| | | | | | | Describes external programming and operating characteristics of buffered line printer and is intended for use by assembly language programmers. Contents: General description, functional description, program interface, operations, device state sequences. |
| 9 | 0 30 94A | 6/74 | 2.00 | 2.40 | 4.00 | Xerox Line Printer/Reference Manual (Models 3461/3462) |

| Publication Number | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | Title and Contents |
|-----------------------|------------------|-------|-------------------|-------------------|--|
| | | | | | Describes external programming and operating characteristics of line printer and is intended for use by assembly language programmers. Contents: General description, functional description, program interface, operations. |
| 90 30 95A | 6/74 | 1.75 | 2.10 | 3.50 | Xerox Line Printer/Reference Manual (Models 3463/3464/3465/3466) |
| | | | | | Describes external programming and operating characteristics of line printer and is intended for use by assembly language programmers. Contents: General description, functional description, program interface, operations. |
| 90 30 97A | 7/74 | 1.75 | 2.10 | 3.50 | Xerox Line Printer/Reference Manual (Models 7463/7464) |
| • | | | | | Describes external programming characteristics of line printer and is intended for use by assembly language programmers. Contents: General description, functional description, program interface, operations. |

totation 1200 COMPUTER PRINTING SYSTEMinionia

| 90 31 21A | 10/74 | 7.25 | 8.70 | 14.50 | Xerox 1200 Computer Printing Sys |
|-----------|-------|------|------|-------|----------------------------------|
| 30 31.216 | 20 | | | | Printer Control Program General |

Xerox 1200 Computer Printing System/Extended Printer Control Program General Reference Manual

Software Version: A00

Describes external programming characteristics of 1200 Computer Printing System and is intended for use by applications programmers. Contents: Introduction, hardware input specifications, job descriptor library, special features, system operation and preventive maintenance, error recovery, maintenance features, physical planning data, character sets, status codes, forms overlay, preprinted forms, prestored job descriptor entries, special job request numbers, job descriptor entry format, EPCP.

| Publication Number | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | Title and Contents |
|--|--------------------------------|---------------------|---------------------|---------------------|--|
| SO 31 22A | 10/74 | 3.75 | 4.50 | 7.50 | Xerox 1200 Computer Printing System/Extended Printer Control Program Operator's Guide |
| | | | | | Software Version: A00 |
| | | | | | Describes operating characteristics of 1200 and is intended for use by operators. Contents: Introduction, preliminary concepts, computer printing system hardware, system control panel, tape transport control panel, operator duties, operating procedures, what to do, ordering form overlays, status codes, software update tape status codes. |
| 90 31 23A | 10/74 | С | C | С | Xerox 1200 Computer Printing System/Extended Printer Control Program Operator's Reference Card |
| | | | | | Software Version: A00 |
| | | | | | Specifies key reference information for 1200 Computer Printing System and is intended for use by operators. Contents: Status codes, daily maintenance checklist. |
| 90 31 24A | 10/74 | С | С | С | Xerox 1200 Computer Printing System/Extended Printer Control Program Systems Programmer's Reference Card |
| | | | | | Software Version: A00 |
| | | | | | Specifies key reference information for 1200 Computer Printing System and is intended for use by system programmers. Contents: Character sets, job descriptor library characteristics. |
| 90 19 83C 90 19 83C-1 90 19 83C-2 90 19 83C-3 | 11/73 1/74 5/74 10/74 | 4.00 C C C | 4.80 C C C | 8.00 C C C | Xerox 1200 Computer Pringing System/ General Reference Manual |
| | • | | | | Software Version: B01 |

Describes external programming

characteristics of 1200 computer printing system and is intended for use by application programmers. Contents: General description, input specifications, system control panel,

USER PROGRAMMING MANUALS PERIPHERALS

| Publication Number | Revision <u>Date</u> | Price | l Year Subscr. | 2 Year Subscr. | Title and Contents tape port, operations, job descriptor library, error recovery, operator preventive maintenance, maintenance features, physical planning. |
|---|-------------------------|----------------|-------------------|-------------------|---|
| 90 19 82B 90 19 82B-1 90 19 82B-2 | 8/73 5/74 8/74 | 2.75 C C | 3.30 C C | 5.50 C C | Xerox 1200 Computer Printing System/Operator's Guide Software Version: B01 Describes operating characteristics and is intended for use by operators. Contents: introduction, preliminary concepts, computer printing system hardware, system control panel, tape transport control panel, operator duties, operating procedures, what to do, ordering overlay guides, status codes. |
| 90 30 39D | 9/74 | C | C | C | Xerox 1200 Computer Printing System/Operator's Guide Software Version: B01 Specifies key reference information for 1200 Computer printing system and is intended for use by operators. Contents: status codes, alternate recovery procedures, daily maintenance checklist. |
| 90 19 810 | 10/74 | C | C | C | Xerox 1200 Computer Printing System/System Programmers Reference Card Software Version: B01 Specifies key reference information for 1200 Computer Printing System and is intended for use by system programmers. Contents: Character sets, job descriptor library characteristics, job descriptor entries, special job request number 97, library maintenance procedures. |
| ********REMOTE | BATCH TERM | 1INALS** | icicici | | |
| 90 16 26B | 1/70 | 2.75 | 3.30 | 5.50 | Xerox Remote Batch Terminal/Operator's Manual (Model 7670) |

| Publication Number | Revision Date | Price | l Year <u>Subscr.</u> | 2 Year Subscr. | |
|-----------------------|------------------|----------|--------------------------|-------------------|--|
| | | | | | Describes operating characteristics of remote batch terminal and is intended for use by RBT operators. Contents: Operator's responsibilities subsystem operation, performance testing, trouble analysis, operator reference sheet. |
| 30 16 02A | 6/69 | 2.25 | 2.70 | 4.50 | Xerox Remote Batch Terminal/Reference Manual (Model 7670) |
| | | | | | Describes external programming characteristics of RBT and is intended for use by assembly and machine language programmers. Contents: General description, functional description, program interface, operation, timing analysis, reference tables, RBT functions and responses, peripheral device operating speeds. |
| :::::::::::AUTOMAT | IC DIALING | EQUIPME | ENTrocococ | | |
| 90 16 11A | 4/69 | .50 | .60 | 1.00 | Xerox Automatic Dialing Equipment/Reference Manual (Models 7618/7619) |
| | | | | | Describes external programming and operating characteristics of automatic dialing equipment and is intended for use by assembly and machine language programmers. Contents: general description, functional description program interface. |
| *******KEYBOARD | PRINTERS* | nininini | | | |
| 90 16 72A | 12/69 | 1.25 | 1.50 | 2.50 | Xerox Keyboard/Printers (KSR, ASR)/Reference Manual (Models 7012/7014/7020/7021/8091/ 8092) |
| | | | | | Describes external programming and operating characteristics of keyboard/printers and is intended for use by assembly and machine |

intended for use by assembly and machine language programmers. Contents: General description, functional description, program interface, operations, programming examples

for Sigma 5/7 and 2/3.

USER PROGRAMMING MANUALS PERIPHERALS

| Publication Number | Revision Date | Price | 1 Year Subscr. | 2 Year Subscr. | Title and Contents |
|-----------------------|------------------|-------|-------------------|-------------------|---|
| 90 17 01A | 12/70 | .75 | .90 | 1.50 | Xerox Communications Keyboard/Printer/ Reference Manual (Models 7015-7017/7025- 7027) |
| | | | | | Describes external programming and operating characteristics of communications keyboard/printers and is intended for use by assembly and machine language programmers Contents: General description, functional description, operations. |
| 90 30 23A | 5/73 | 1.50 | 1.80 | 3.00 | Xerox Keyboard/Printer (KSR, ASR)/Reference Manual (Models 4191–4194) |
| | | | | | Describes external programming and operating characteristics of communications keyboard/printers and is intended for use by assembly and machine language programmers. Contents: General description, functional description, program interface, operation. |

USER PROGRAMMING MANUALS XEROX 530 AND SIGMA 2/3 OPERATING SYSTEMS

| Publication Number | Revision Date | Price | 1 Year Subscr. | 2 Year Subscr. | Title and Contents |
|--------------------------|------------------|-----------|-------------------|-------------------|--|
| *****STAND-A | LONErdada | | | | |
| 90 10 47B | 7/68 | 2.00 | 3.20 | 4.80 | Xerox Stand-Alone Systems/OPS Reference Manual (Sigma 2) |
| | | | | | Software Version: DOO |
| | | | | | Describes external operating and programming characteristics and is intended for use by both programmers and operators. Contents: Program support package, stand-alone system processors, system loading, operator communications, control commands, Symbol assembly, Relocatable Loader, Debug, Concordance, Utility Input/Output Control System, system preparation, standard object language format, standard absolute language |
| • | | • | | | format, control command examples, Symbol flags, error messages (Loader, Debug, |
| | • | | | | Concordance). |
| ininininiBCMininini | nit | 4 | | | |
| 90 10 64C 90 10 64C-1 | 8/69 4/73 | C 3.00 | 4.80 C | 7.20 C | Xerox Basic Control Monitor (BCM)/BP,RT Reference Manual (Xerox 530 and Sigma 2/3) |
| | | | | | Software Version: E00 |
| | | | | | Describes external programming characteristics of BCM and is intended for use by batch and real-time programmers. Contents: System features, hardware configuration requirements, BCM subsystems, basic definitions, BCM characteristics, core memory allocation, control commands, operator communication, Linking Loader, BCM System Loader, Monitor service routines, real-time programming, I/O operations, Utility Subsystem, Debug program, system generation, Sigma 2/3 standard object language, standard BCM abort codes. |
| 90 15 06B 90 15 06B-1 | 8/69 4/73 | 1.25 C | 2.00 C | 3.00 C | Xerox Basic Control Monitor (BCM)/OPS Reference Manual (Sigma 2/3) |
| | | | | | Software Version: E00 |

Describes operating characteristics of $\ensuremath{\mathsf{BCM}}$ and is intended for use by operations

USER PROGRAMMING MANUALS XEROX 530 AND SIGMA 2/3 OPERATING SYSTEMS

| Publication Number | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | Title and Contents |
|--------------------------|------------------|-----------|--|-------------------|---|
| | | | | | management in preparing detailed operating procedures. Contents: Operator/system interface, control commands, loading BCM system, control card error recovery, I/O error messages, BCM subsystems. |
| 90 15 26 C | 9/73 | 1.00 | 1.60 | 2.40 | Xerox Basic Control Monitor (BCM)/System Technical Manual (Xerox 530 and Sigma 2/3) |
| | | | | | Software Version: E00 |
| | | | | | Describes internal structure of BCM and is intended for use by maintenance programmers. Contents: Priority interrupts, Monitor service routines, BCM initialization and selection, background termination procedures, input/output procedures. |
| ಾರ್ಡ್ 530 and | 2/3 RBM** | ากก | | | |
| 90 10 37H 90 10 37H-1 | 6/73 3/74 | 6.00 C | 9.60 C | 14.40 C | Xerox Real-Time Batch Monitor (RBM)/RT,BP Reference Manual (Xerox 530 and Sigma 2/3) |
| | ·. • | | ا المام المام ا | | Software Version: F01 |
| | | | | | Describes external programming characteristics of RBM and is intended for use by real-time and batch programmers. Contents: RBM characteristics, RBM subsystems, RBM terms and processes, control commands, operator communication, Monitor service routines, I/O operations, real-time programming, overlay loader, RAD Editor, utility programs, preparing the program deck, system start-up, debug, additional RBM processors, operational label usage, system zero table and contents, error messages, warning messages, and abort codes. |
| SO 17 85A SO 17 85A-1 | 1/72 6/73 | 4.75 C | 7.60 C | 11.40 C | Xerox Real-Time Batch Monitor (RBM)/User's Guide (Xerox 530 and Sigma 2/3) |
| | | | | | Software Version: FOO Describes how to use RBM and is intended for real-time and batch programmers. Contents: RBM operating system, how to compile and load FORTRAN jobs, how to assemble and load Extended Symbol jobs, how to create and |

USER PROGRAMMING MANUALS XEROX 530 AND SIGMA 2/3 OPERATING SYSTEMS

| Publication Number | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | Title and Contents |
|-----------------------|------------------|-------|-------------------|-------------------|--|
| | | | | | manipulate files, how to build an overlay program, how to use Monitor service routines how to use Utility, how to interface ANS FORTRAN IV and Extended Symbol subroutines how to use standard procedure (S2) files, how to reduce assembly language hardware requirements, how to use hardware interrupts, how to create a task control block, how to connect tasks to interrupts, how to attain reentrancy in assembly language subroutines, how to write an assembly language interrupt handler, how to write and execute a real-time program, how to create a FORTRAN real-time system, how to debug assembly language programs, how to assign and use device operational labels, how to patch RBM, how to save and restore an RBM System. |
| 90 15 55G | 11/74 | 1.75 | 2.80 | 4.20 | Xerox Real-Time Batch Monitor (RBM)/OPS Reference Manual (Xerox 530 and Sigma 2/3) |
| | | | | | Software Version: GOO |
| | | | | | Describes operating characteristics of RBM and is intended for use by operations management in preparing detailed operating procedures. Contents: Booting RBM from system RAD, operator/system interface, control commands, control command error recovery, control command diagnostics, RBM messages, RBM subsystem operations, debug, sample job stacks, Sigma 2/3 operational label usage, abnormal conditions procedures, data switch settings. |
| 90 30 54B | 3/74 | 3.75 | 6.00 | 9.00 | Xcrox Availability Features (Xerox 530 and Signa 2/3) |
| | | | | | Software Version: FO1 (RBM) |
| · | | | | | Describes availability features of RBM and is intended for use by system programmers. Contents: Introduction, SYSERR analysis. |
| SO 30 36B | 3/74 | 2.25 | 3.60 | 5.40 | Xerox Real-Time Batch Monitor (RBM)/SM Reference Manual (Xerox 530 and Sigma 2/3) |
| | | | | | Software Version: F01 |

USER PROGRAMMING MANUALS XEROX 530 AND SIGMA 2/3 OPERATING SYSTEMS

| | Publication <u>Number</u> | Revision Date | Price | 1 Year Subscr. | 2 Year Subscr. | Title and Contents |
|---|------------------------------|------------------|-----------|-------------------|-------------------|--|
| | | | | | | Describes the system management features of RBM and is intended for use by system programmers. Contents: Introduction, hardware configuration guidelines, software configuration guidelines, system generation, loading RBM system processors, system maintenance. |
| | 90 11 53E 90 11 53E-1 | 10/73 11/74 | 7.50 C | 12.00 C | 12.00 C | Xerox Real-Time Batch Montior (RBM)/System Technical Manual (Xrox 530 and Sigma 2/3) |
| 1 | | | | | | Software Version: FO1 |
| | | | | | | Describes internal structure of RBM and is intended for use by maintenance programmers. Contents: Input/Output procedures, RAD file management, Overlay Loader, RAD Editor, RBM sizes, critical RBM times, power on and power off receivers. |
| | 90 30 78A | 3/74 | 3.00 | 4.80 | 7.20 | Xerox Satellite Processor/OPS Reference Manual (Xerox 530 and Sigma 3) |

Software Version: A00

Describes external operating programming characteristics of the Satellite Processor and is intended for use by system managers, programmers, and operators. Contents: Introduction, general information, operator commands, general remote terminal procedures, remote terminal procedures to IBM OS/HASP sites, remote procedures with Xerox CP-V hosts, remote terminal procedures, tape spooling procedures, local operations, site generation procedures, connecting to remote site via telephone lines, multileaving, IBM OS/HASP remote operator commands, Xerox CP-V remote operator commands and messages, transmission line and peripheral device throughput rates.

USER PROGRAMMING MANUALS XEROX 530 AND SIGMA 2/3 PROCESSORS AND APPLICATIONS

| Publication Number | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | Title and Contents | | | | |
|---|-----------------------|-----------|-------------------|-------------------|--|--|--|--|--|
| totalateSYMBOLitatalate | | | | | | | | | |
| 90 10 51C 90 10 51C-1 | 3/68 1/73 | 1.50 C | 2.10 C | 3.30 C | Xerox Symbol/LN,OPS Reference Manual (Xerox 530 and Sigma 2/3) | | | | |
| | | | | • | Software Version: DOO | | | | |
| | | | | | Describes external programming characteristics and operating system interface of Symbol and is intended for use by assembly language programmers. Contents: Programming features, error detection, Sigma mathematical library, assembly coding format and components. Symbolic instructions, addressing, location counters and program sections, Symbol directives, operations, assembly process flowchart, machine instructions, summary of Symbol directives, concordance program. | | | | |
| 90 10 52E 90 10 52E-1 90 10 52E-2 | 9/71 12/73 3/73 | 3.00 C | 4.20 C C | 6.60 C C | Xerox Extended Symbol/LN,OPS Reference Manual (Xerox 530 and Sigma 2/3) | | | | |
| | • | _ | | _ | Software Version: FOO | | | | |
| | | | | | Describes external programming characteristics and operating system interface of Extended Symbol and is intended for use by assembly language programmers. Contents: Programming features, error detection. Extended Symbol language elements and syntax, machine instructions, addressing, location counters and prosections. Extended Symbol directives, procedures, operations, incompatibilities between Extended Symbol and Symbol. | | | | |
| ******FORTRAN* | ricicici | | | | • | | | | |
| | 8/70 4/71 | 2.25 C | 3.15 C | 4.95 C | Xerox Basic FORTRAN and Basic FORTRAN IV/ LN Reference Manual (Sigma 2/3) | | | | |
| | | | | | Software Version: DOO | | | | |
| | , | | | | Describes operating system interface for Basic FORTRAN and is intended for use by FORTRAN programmers. Contents: Corp. Lea | | | | |

FORTRAN programmers. Contents: Compiler subprograms, program compilation and

execution, input/output operations, absolute run-time module, Sigma FORTRAN character set.

USER PROGRAMMING MANUALS XEROX 530 AND SIGMA 2/3 PROCESSORS AND APPLICATIONS

| Publication Number | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | Title and Contents |
|--------------------|------------------|-------|-------------------|-------------------|--|
| 90 10 61A | 4/68 | 1.25 | 1.75 | 2.75 | Xerox Basic FORTRAN/OPS Reference Manual (Sigma 2/3) |
| | | | | | Software Version: D00 |
| | | | | | Describes operating system interface for Basic FORTRAN and is intended for use by FORTRAN programmers. Contents: Compiler subprograms, program compilation and execution, input/output operations, absolute run-time module, Sigma FORTRAN character set. |
| 90 15 25B | 5/72 | 1.25 | 1.75 | 2.75 | Xerox Basic FORTRAN IV/OPS Reference Manual (Sigma 2/3) |
| | | | · | | Software Version: DOO |
| | | | | | Describes operating system interface for Basic FORTRAN IV and is intended for use by FORTRAN programmers. Contents: Compiler, subprograms, program compilation and execution, Sigma FORTRAN character set. |
| 90 10 36B . | 10/68 | 4.25 | 5.95 | 9.35 | Xerox FORTRAN/Library Technical Manual (Sigma 2/3) |
| | | | | | Software Version: DOO |
| | | | | | Describes the internal structure and external characteristics of the Run-Time Library for Basic FORTRAN and Basic FORTRAN IV. Contents: Calling sequences and argument transfer, table of routines, error conditions and actions, accuracy, input/output, formatted input/output, binary input/output, program library descriptions, data formats, mathematical constants, order of routines in library. |
| 90 18 06C | 3/74 | 4.25 | 5.95 | 9.35 | Xerox ANS FORTRAN IV/LN Reference Manual (Xerox 530 and Sigma 3) |
| | | | | | Software Version: COO |
| | | | | | Describes external programming characteristics of ANS FORTRAN IV language and is intended for use by FORTRAN programmers. Contents: ANS FORTRAN IV |

USER PROGRAMMING MANUALS XEROX 530 AND SIGMA 2/3 PROCESSORS AND APPLICATIONS

| Publication Number | Revision Date | Price | 1 Year Subscr. | 2 Year Subscr. | Title and Contents |
|-----------------------|------------------|-----------|-------------------|-------------------|--|
| | · | | | | programs, data, expressions, assignment statement, control statements, input/output, declaration statements, programs and subprograms, in-line symbolic code, real-time features. |
| 90 18 35C | 8/74 | 5.00 | 7.00 | 11.00 | Xerox ANS FORTRAN IV/Library Technical Manual (Xerox 530 and Sigma 3) |
| | | | | | Software Version: COO |
| 3 | | | | | Describes internal structure and external characteristics of the Run-Time Library for ANS FORTRAN IV and is intended for use by FORTRAN programmers. Contents: temporary storage allocation and argument transfer, mathematical routines, input/ output routines, arithmetic routines. |
| SO 18 07C | 3/74 | 1.75 | 2.45 | 3.85 | Xcrox ANS FORTRAN IV/OPS Reference Manual (Xcrox 530 and Sigma 3) |
| | | | | | Software Version: COO |
| | | | | | Describes the external characteristics of ANS FORTRAN IV and is intended for use by FORTRAN programmers. Contents: Compiler, subprograms, program compilation and execution, input/output operations, FORTRAN Debug, real-time features, Sigma character set. |
| | | programme | restrate | | |
| interest IENT I | FIC SUBROL | אוועביממ | £ 36 3€ | | |
| 90 16 17A | 5/69 | 5.50 | 7.70 | 12.10 | Xerox Scientific Subroutine Package/ Technical Manual (Sigma 2/3) |
| | | | | | Software Version A00 |

Describes the internal structure of mathematical and statistical routines of interest to scientific users. Contents: Basic subroutines, correlation and statistical subroutines, matrix subroutine, polynominal subroutines, mathematical function subroutines.

USER PROGRAMMING MANUALS
XEROX 530 AND SIGMA 2/3 PROCESSORS AND APPLICATIONS

| ALIGN 330 AND STEIN 273 THOUSSOILS AND ATTECHTIONS | | | | | | | | |
|--|-----------------------|----------------|-------------------|-------------------|---|--|--|--|
| Publication Number | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | Title and Contents | | | |
| *********SORT**** | ricit | | | | | | | |
| 90 17 87A 90 17 87A-1 90 17 87A-2 | 6/71 10/72 5/74 | 1.25 C C | 1.75 C C | 2.75 C C | Xerox Sort/Reference Manual (Sigma 3) | | | |
| | | | | | Software Version: BOO | | | |
| | · | | | | Describes external programming characteristics and is intended for use by programmers. Contents: Features, file organization, program organization and sorting techniques, processing of user-written routines, control parameters, | | | |

socioliciANS COBOLidadoic

90 30 90A 7/74 6.50 9.10 14.30 Xerox ANS COBOL (for RBM/LN, OPS Reference Manual (Xerox 530)

Software Version: A00 .

examples.

Describes external programming characteristics of 530 COBOL and is intended for use by business programmers. Contents: Introduction, COBOL language concepts, identification division, environment division, data division, procedure division, interprogram communication, compiler-directing statements, special features, sequential-relative-indexed files, operational considerations.

messages, control record layout, operating

ininininiRPGinininini

90 18 41B 12/73 8.25 11.45 18.50 Xerox Report F

Xerox Report Program Generator II (RPG II)/Reference Manual (Xerox 530) and (Sigma 3)

Software Version: COO

Describes external programming characteristics of RPG II and is intended for

USER PROGRAMMING MANUALS XEROX 530 AND SIGMA 2/3 PROCESSORS AND APPLICATIONS

| Publication <u>Number</u> | Revision Date | Price | 1 Year Subscr. | 2 Year Subscr. | Title and Contents |
|------------------------------|------------------|-------|-------------------|-------------------|--|
| | | | | | use by programmers. Contents: Description of RPG II, RPG II programming, RPG II source language and specifications, use of tables in RPG II programming, advanced use of RPG II, sample RPG II programs, summary of RPG II specifications, summary of indicators, compiler messages, detailed RPG II object program logic, ISAM file considerations, installation considerations, program conversion hints, use of external subroutines, coding of sample RPG II programs. |

90 30 05B 10/73 C C C RPG II/Sort Aid

Specifies columns in which RPG II and Sort information appears. Contents: File Description, input, calculation, output, extension, line counter, header card, sort control card.

USER PROGRAMMING MANUALS SIGMA 5-9 OPERATING SYSTEMS

| Publication Number | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | Title and Contents |
|-----------------------|------------------|---------|-------------------|-------------------|--|
| *******COMPUTE | R CENTER S | UBSYSTE | Μισοσσα | | |
| SO 19 28A | 6/72 | 1.50 | 2.10 | 3.30 | Xerox Computer Center Subsystem (CCS) terminal Operations Reference Manual (Sigma 6/7/9 Computers) |
| | | | | | Software Version: A00 |
| | | | | | Describes the external characteristics of CCS and is intended for use by computer center customers who query the computer center data base and by computer center personnel who update that data base. contents: Subsystem functions, updating the data base, querying the data base, installation defined parameter values. |
| *******STAND-AI | _ONEstatatata | | | | |
| 90 10 53C | 9/68 | 1.50 | 2.40 | 3.60 | Xerox Stand-Alone Systems/DPS Reference Manual (Sigma 5/6/7) |
| | | | | | Software Version: DOO |
| | | | | · | Describes external operating and programming characteristics and is intended for use by both programmers and operators. Contents: Stand-Alone Symbol, stand-alone loader with I/O handlers, stand-alone general debug subroutine. |
| satistica BCM totata | Te . | | | | |
| 90 09 53 D | 4/71 | 2.75 | 4.40 | 6.60 | Xerox Basic Control Monitor (BCM)/BP,RT, OPS Reference Manual (Sigma 5/6/7) |
| | | | | | Software Version: CO1 |

Describes external operating and programming characteristics of BCM and is intended for use by both programmers and operators. Contents: System features, control commands, basic loader, operator communication, return functions, input/output operations, trap functions, debug functions, use of temporary storage by library routines, preparing program deck, real-time operations, system generation, Sigma standard object language, FORTRAN IV-H Calling/receiving sequences,

USER PROGRAMMING MANUALS SIGMA 5-9 OPERATING SYSTEMS

| Publication Number | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | Title and Contents memory protection, I/O handlers, commands and |
|--------------------------|------------------|-----------|-------------------|-------------------|---|
| | | | | | calls. |
| *******RBM-1** | strateate | | | | |
| 90 15 80A 90 15 80A-1 | 1/69 12/70 | 2.75 C | 4.40 C | 6.60 C | Xerox Real-Time Batch Monitor (RBM-1)/RT,BP Reference Manual (Sigma 5/6/7) |
| | | | | | Software Version: E00 - Nonsupported product (replaced by RBM) |
| | | | | | Describes external programming characteristics of RBM-1 and is intended for use by real-time and batch programmers. Contents: Control commands, basic loader, operator communication, return functions, input/output operations, trap functions, debug functions, temporary storage and library routines, real-time operations, system generation, Sigma standard object language, FORTRAN IV-H calling/receiving sequences, memory protection, I/O handlers, list of commands and calls. |
| voiceorRBMedele | ric . | | | | |
| 90 15 81E | 4/73 | 6.25 | 10.00 | 15.00 | Xerox Real-Time Batch Monitor (RBM)/RT,BP Reference Manual (Sigma 5-9) |
| | | | | • | Software Version: CO3 |
| | | | | | Describes external programming characteristics of RBM and is intended for use by real-time and batch programmers. Contents: Operating system terms and processes, job organization, hardware and system configurations, control commands, operator communications, input/output operations, user program scheduling and operation, overlay loader, RAD Editor, preparing the program deck, system generation, Sigma standard object language, real-time performance data, RAD storage requirements, JCP loader, system patching, character-oriented communication routines. |
| 90 16 47E | 4/73 | 2.25 | 2.60 | 5.40 | Xerox Real-Time Batch Monitor (RBM)/OPS Reference Manual (Sigma 5-9) |

USER PROGRAMMING MANUALS SIGMA 5-9 OPERATING SYSTEMS

| Publication Number | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | Title and Contents |
|----------------------------|------------------|-----------|-------------------|-------------------|---|
| | | | | | Software Version: CO3 |
| | | | | | Describes operating characteristics of RBM and is intended for use by operations management in preparing detailed operating procedures. Contents: Real-time and background programs, software environment, operator/system interface, system control commands, running background jobs, running foreground jobs, RAD Editor operations, overlay loader operations. |
| 90 16 53B . 90 16 53B-1 | 10/72 4/73 | 4.50 C | 7.20 C | 10.80 C | Xerox Real-Time Batch Monitor (RBM)/RT,BP User's Guide (Sigma 5-9) |
| • | | | | | Software Version: CO3 |
| | | | | | Describes how to use RBM and is intended for real-time and batch programmers. contents: RBM system, foreground programs, background programs, RBM Montior, memory allocation, job stream summary, how to compile and load FORTRAN jobs, how to assemble and load Macro-Symbol jobs, how to use RAD Editor, how to build overlaid program, how to interface FORTRAN and assembly language routines, how to connect tasks to interrupts, how to make FORTRAN subroutines reentrant, how to write FORTRAN interrupt handler, how to write reentrant subroutines in assembly language, how to write assembly language interrupt handler, how to execute and release a real-time program, how to write a real-time software scheduler, SYSGEN considerations, job control commands, overlay loader commands, RAD Editor commands, SYSGEN commands, standard FORTRAN calling/receiving sequences. |
| 90 17 00D | 10/73 | 6.75 | 10.80 | 16.20 | Xerox Real-Time Batch Monitor (RBM)/System Technical Manual (Sigma 5-9) |
| | | | | | Software Version: CO3 |

Contents: REM initialization routine, RBM control task, I/O handling methods, job control processor, foreground services,

Describes internal structure of RBM and is intended for use by maintenance programmers.

USER PROGRAMMING MANUALS SIGMA 5-9 OPERATING SYSTEMS

| Publication Number | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | Title and Contents |
|-----------------------|------------------|-------|-------------------|-------------------|---|
| | | | | | miscellaneous services, RBM sizes, table formats, overlay loader, RAD Editor, system generation, system flags and pointers, paper tape standard format. |
| ******CP-R**** | ninit | | | | |
| 90 30 850 | 11/74 | 12.00 | 19.20 | 28.80 | Xerox Control Program for Real Time (CP-R)/RT,BP Reference Manual (Xerox 550 and Sigma 9) |
| | | | | | Software Version: COO |
| | | | | | Describes external programming characteristics of CP-R and is intended for use by real-time programmers. Contents: Introduction, control commands, operator communications, input/output operations, user-task scheduling and operation, CP-R memory management, asynchronous operation control, CP-R debug service overlay loader, RAD editor, preparing the program deck, system generation, hardware configuration guidelines. |
| 90 30 86C | 11/74 | 2.00 | 3.20 | 4.80 | Xerox Control Program for Real-Time (CP-R)/OPS Reference Manual (Xerox 550 and Sigma 9) |
| | | | | | Software Version: COO |
| | | | | | Describes operating characteristics of CP-R and is intended for use by operation management in preparing detailed operating procedures. Contents: Introduction, operator/system interface, system control commands, running background jobs, running foreground, RAD editor operations, overlay loader operations. |
| 90 30 87B | 11/74 | 5.50 | 8.80 | 13.20 | Xerox Control Program for Real-Time (CP-R) RT User's Guide (Xerox 550 and Sigma 9) |
| | | | | | Software Version: COO |
| | | | | | |

Describes external programming characteristics of CP-R and is intended for

USER PROGRAMMING MANUALS SIGMA 5-9 OPERATING SYSTEMS

| Publication Number | Revision Date | <u>Price</u> | l Year Subscr. | 2 Year Subscr. | Title and Contents |
|-----------------------|------------------|--------------|-------------------|-------------------|---|
| | | | | | use by real-time users. Contents: CP-R Operating System, multi-tasking concepts, memory management, how to compile and load jobs, how to assemble and load jobs, how to use the RADEDIT processor, how to build an overlay program, how to interface FORTRAN and assembly language programs, how to schedule real-time tasks, how to connect tasks to interrupts, FORTRAN programming techniques, assembly language programming techniques, how to write, execute, and release a real-time program, how to structure a real-time system, SYSGEN considerations, how to use CP-R debug, JCP control command specifications, overlay loader control command specifications, RADEDIT control command specifications, sySGEN control command specifications, standard FORTRAN-IV-H calling/receiving sequences. |
| 90 31 108 | 11/74 | 3.50 | 5.60 | 8.40 | Xerox Control Program for Real-Time/Availability Features/Reference Manual (Xerox 550 and Sigma 9) |
| | • | | | | Software Version: COO |
| | | | | | Describes external programming characteristics of availability features. Contents: Introduction, error logging and recovery, analyze, device isolation and on-line device exercisers, error log lister, binary test deck, EBCDIC test deck, pseudo-random test deck, line printer exerciser output. |
| 90 30 88A | 3/74 | 8.50 | 13.60 | 20.40 | Xerox Control Program for Real-Time (CP-R) System Technical Manual (Sigma 9) |
| | | | | | Software Version: A00 |
| | | | | | Describes internal programming characteristics of CP-R and is intended for maintenance programmers. Contents: CP-R initialization, CP-R control task, I/O handling methods, job control processor, foreground services, monitor internal services, miscellaneous services, CP-R table formats, overlay loader, RADEDIT, system generation, CP-R flags and pointers. Signal |

generation, CP-R flags and pointers, Sigma

USER PROGRAMMING MANUALS SIGMA 5-9 OPERATING SYSTEMS

90 17 41B-1 9/73

| Publication Number | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | Title and Contents |
|---|------------------|-----------|-------------------|-------------------|---|
| | | | | | standard object language, Xerox standard compressed language, system overlay entry points. |
| a a a a an manada da | | | | | |
| sessional PM social | 71 | | | | |
| 90 09 54H 90 09 54H-1 | 3/73 9/73 | 8.00 C | 12.80 C | 19.20 C | Xerox Batch Processing Monitor (BPM)/BP,RT Reference Manual (Sigma 5–8) |
| | | | | | Software Version: HO1 |
| • | | | | | Describes external programming characteristics of BPM and is intended for use by batch and real-time programmers. Contents: Overview, files and file usage, Monitor control commands, system procedures. |
| | | | | | I/O procedures, program load and execution, programming debugging aids, preparing the programming deck, procedures, remote batch system, real-time operations, data control block formats, Monitor error messages, use of |
| • | ;· | | | | temporary storage by library routines, cooperatives and symbionts. |
| 90 17 41B | 3/73 | 8.00 | 12.80 | 19.20 | Xerox Batch Processing Monitor (BPM) and |

C

C

Software Version: HOL

Manual (Sigma 5-8)

Describes external programming characteristics of system management features of BPM/BTM and is intended for use by system managers, analysts, and programmers. contents: system management facilities, system overview, supervisor processor, user accounting, BTM Performance Monitor, processor and subsystem facilities, Monitor Dump Processor, BPM error logging routines. File Analyzer, hardware requirements, system generation overview, system generation details, bootstrap and patching operations. volume initialization, Sigma standard object language, Sigma standard compressed language, reference tables, ANSCII to EBCDIC conversion, EBCDIC to ANSCII conversion.

Batch Time-Sharing Monitor (BTM)/SM Reference

USER PROGRAMMING MANUALS SIGMA 5-9 OPERATING SYSTEMS

| Publication Number | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | Title and Contents |
|--------------------------|------------------|-----------|-------------------|-------------------|--|
| | | | | | BPM/BTM Monitor sizing, real-time response time, labeled tape sentinels. |
| 90 11 98F 90 11 98F-1 | 3/73 9/73 | 2.75 C | 4.40 C | 6.60 C | Xerox Batch Processing Monitor (BPM) and Batch Time-Sharing Monitor (BTM)/OPS Reference Manual (Sigma 5-8) |
| | | | | | Software Version: HO1 |
| | | | | | Describes operating characteristics of EPM and BTM and is intended for use by operations management in preparing detailed operating procedures. Contents: Operating system conventions, system start-up and initialization, job and system controls, peripheral device handling, recovery and file preservation, task description. |
| 90 17 83A | 4/71 | 1.75 | 2.80 | 4.20 | Xerox Batch Processing Monitor (BPM)/BP User's Guide (Sigma 5-8) |
| • | | | | | Software Version: F00 |
| Y | | | | | Describes how to use various batch processing features of BPM and is intended for use by Batch programmers. Contents: Operating system, job decks for assemblies and compilations, linking loader, one pass loader, program execution, file management processor, logical I/O devices, DCB creation, Monitor service calls, I/O function, special device functions, real-time programs, things to avoid. |
| 90 15 28B | 2/74 | 24.00 | 38.40 | 57.60 | Xerox Batch Processing Monitor (BPM)/System Technical Manual (Sigma 5-8) |
| | | | | | Software Version: HO1 |
| | | | | | Describes internal structure of BPM and is intended for use by maintenance programmers. Contents: System overview, functional overview, initiation, recovery, error logging, background job processing, miscellaneous background services, debugging aids, foreground operations. Monitor overlay processing, traps and interrupts, memory management, basic input/output, input/output management, symbiont-cooperative system, |

USER PROGRAMMING MANUALS SIGMA 5-9 OPERATING SYSTEMS

| Publication Number | Revision Date | Price | 1 Year Subscr. | 2 Year Subscr. | Title and Contents |
|---|----------------------|----------------|-------------------|-------------------|---|
| | : | | | | device input/output, file management, labeled tape operations, user communication (Control Command interpreters), operator communications, instruction simulation, Super, job accounting. |
| 90 15 77F 90 15 77F-1 90 15 77F-2 | 8/72 3/73 9/73 | 3.50 C C | 5.60 C C | 8.40 C C | Xerox Batch Time-Sharing Monitor (BTM)/TS Reference Manual (Sigma 5-8) |
| , | | | | | Software Version: HOl |
| | | | | | Describes external programming characteristics of BTM and is intended for use by time-sharing terminal users. Contents: User terminal functions, start-up procedure, Teletype operations, BTM Executive, Loader subsystem, RUN subsystem, terminal batch entry (BTP) subsystem, Symbol, Extended FORTRAN IV-H, BASIC operations, FERRET subsystem, Edit subsystem, Delta subsystem, BPM system CALs, BTM system CALs, subsystem interface, timing, ANSCII to EBCDIC conversion, EBCDIC to ANSCII, use of break key in debugging. |
| 90 16 7SE | 9/74 | 5.00 | 8.00 | 12.00 | Xerox Batch Time-Sharing Monitor (BTM)/TS User's Guide (Sigma 5-8) |
| | | | | | Software Version: HO1 |
| | | | | | Provides graphic and tabular presentation of time-sharing information for BTM and is intended for use by the time-sharing user. Contents: Executive functions, subsystem services, Teletype operations, Start-up and Executive, BASIC, Edit, FORTRAN, Loader, Ferret, Symbol, Terminal Batch Entry, Run. |
| 90 18 79A | 4/72 | 1.50 | 2.40 | 3.60 | Xerox Batch Time-Sharing Monitor (BTM)/ Delta Subsystem Technical Manual (Sigma 5-8) |
| | | | | | Software Version: FO1 |
| | | | | | Describes internal structure of the BTM Delta |

Subsystem and is intended for use by maintenance programmers. Contents:

functional overview, interfaces, operation review, module analysis, subroutine analysis.

USER PROGRAMMING MANUALS SIGMA 5-9 OPERATING SYSTEMS

| Publication Number | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | Title and Contents |
|--------------------------|------------------|-----------|-------------------|-------------------|---|
| 90 19 11A | 5/72 | 4.00 | 6.40 | 9.60 | Xerox Batch Time-Sharing Monitor (BTM)/Edit Subsystem Technical Manual (Sigma 5-8) |
| | | | | | Software Version: F01 |
| | | | | | Describes internal structure of BTM Edit Subsystem and is intended for use by maintenance programmers. Contents: Functional overview, interface, operational overview, module analysis, general purpose subroutines. |
| SO 30 61A | 9/73 | 11.00 | 17.60 | 26.40 | Xerox BPM/BTM/Subsystems and Utilities Technical Manual (Sigma 5-8) |
| | | | | | Software Version: G00 and H00 |
| | • | | | , | Describes the internal structure of BPM/BTM subsystems and utilities and is intended for maintenance programmers. Contents: Introduction, LOPE processor/subsystem, RUN, BPM subsystem, SUPER processor/subsystem, FPURGE processor, FERRET subsystem, EDCON, FAST SAVE processor, file analyzer processor. |
| ******BPM/BTM | 1/CP-Vicioio | r | | | |
| 90 18 03C 90 18 03C-1 | 8/73 9/74 | 5.50 C | 8.80 C | 13.20 C | Xerox BTM/BPM/CP-V Overlay Loader Technical Manual (Xerox 560 and Sigma 5-9) |
| | | | | | Software Version: BOO (CP-V) and HO1 (BPi1/BTM) |
| | | | | | Describes internal structure of the Overlay Loader and is intended for use by maintenance programmers. Contents: environment, general operating characteristics, I/O loader-generated tables, description of first pass, preparing to form the core image, forming the core image (EUL), writing the load module (WRT), finishing up (MOD). |
| 90 18 77B | 9/73 | 13.00 | 20.80 | 31.20 | Xerox BPM/BTM/UTS/System Generation Technical Manual (Sigma 5-9) |
| · | | | | | Software Version: DOO (UTS) and HO1 (BPM/BTM) |

USER PROGRAMMING MANUALS SIGMA 5-9 OPERATING SYSTEMS

| Publication Number | Revision Date | Price | 1 Year Subscr. | 2 Year Subscr. | Title and Contents |
|----------------------------|------------------|-------|-------------------|-------------------|---|
| | | | | | Describes the internal structure of the system generation processors and is intended for use by maintenance programmers. Contents: SYSGEN overview, PASS2, PASS3, DEF, LOCCT, tables, files, subroutines. |
| 90 18 86A | 6/72 | С | С | С | Xerox UTS/BTM/Edit Reference Card (Sigma 5-9) |
| • | | | | | Software Version: COO (UTS) and FO1 (BTM) |
| | | | | · | Specifies key reference information for UTS/BTM Edit and is intended for time-sharing users. Contents: Command structure, commands. |
| 90 19 32B | 4/73 | 3.75 | 6.00 | 9.00 | Xerox BPM/BTM/UTS Peripheral Conversion Language Technical Manual (Sigma 5-9 Computers) |
| | | | | | Software Version: HOO (BPM/BTM) and DOO (UTS) |
| | | | | | Describes internal structure of PCL and is intended for use by maintenance programmers. Contents: PCL Executive routine, command processing subroutines, command scan routines, I/O subroutines, error subroutines, conversion subroutines. |
| triototiCP=V/CP=Rtriototic | | | | | |
| 90 3 0 56A | 10/73 | 2.25 | 2.60 | 5.40 | Xerox Volume Initialization (VOLINIT) Technical Manual (Sigma 5-9) |
| | | | | | Software Version: COO |
| | | | | | Describes internal programming characteristics of VOLINIT and is intended for maintenance programmers. Contents: Functional overview, programming overview, operation overview, module analysis. |
| www.CP=Vindous | | | | | |
| 90 17 64F | 10/74 | 9.75 | 15.60 | 23.40 | Xerox Control Program-Five (CP-V)/BP Reference Manual (Xerox 560 and Sigma 6/7/9) |

1

USER PROGRAMMING MANUALS SIGMA 5-9 OPERATING SYSTEMS

| | Publication Number | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | Title and Contents |
|---|--------------------------|------------------|-----------|-------------------|-------------------|---|
| l | | | | | | Software Version: COO |
| | | | | | | Describes the external programming characteristics of the batch processing features of CP-V and is intended for batch programmers. Contents: CP-V batch processing features, files and file usage, Monitor control commands, system procedure, I/O procedures, program load and execution, program debugging aids, preparing the program deck, processors, remote batch processing, data control blocks, Monitor error messages, use of temporary storage by library routines, cooperative and symbionts. |
| ı | 90 09 07F 90 09 07F-1 | 2/74 10/74 | 6.50 C | 10.40 C | 15.60 C | Xerox Control Program-Five (CP-V)/TS Reference Manual (Xerox 560 and Sigma 6/7/9) Sigma 6/7/9) |
| I | | | | | | Software Version: COO |
| | | | | | | Describes external programming characteristics of CP-V time-sharing and is intended for use by time-sharing users. Contents: Time-sharing services, terminal operations, Terminal Executive Language, on-line language operations, Peripheral Conversion Language, Edit, Delta, Link processor, Monitor services to user programs, communication services to user programs, standard codes, Monitor error messages, comparison of CP-V and BTM time-sharing services. |
| | 90 16 746 | 10/74 | 6.25 | 10.00 | 15.00 | Xerox Control Program-Five (CP-V)/SM Reference Manual (Xerox 550 and Sigma 6/7/9) |
| | | | | | | Software Version: COO |
| | • | | | | | Describes external programming characteristics of system management features of CP-V and is intended for use by system programmers. Contents: Introduction, system overview, resource and limit management, user authorization, use accounting, system |

performance control, system peripheral control, maintenance of the file system, system generation, operational labels,

physical device names.

USER PROGRAMMING MANUALS SIGMA 5-9 OPERATING SYSTEMS

| Publication Number | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | Title and Contents |
|---|-----------------------|----------------|-------------------|-------------------|--|
| 90 31 13A | 10/74 | 8 .2 5 | 13.20 | 19.80 | Xerox Control Program-Five (CP-V)/System Programming Reference Manual (Xerox 560 and Sigma 6/7/9) |
| | | | | | Software Version: COO system programmers. Contents: Introduction, system overview, bootstrap and patching operations, monitor dump analysis program, error message file, system error log file, shared processor facilities, on-line peripheral diagnostic facilities, real-time procedures, transaction processing facilities, operational labels, physical device names, CP-V screech code, Xerox 560 remote assist station, ERRFILE formats, Xerox standard object language, Xerox compressed language, Xerox Standard symbols, codes, and correspondences. |
| 90 16 75G | 11.74 | 4.50 | 7.20 | 10.80 | Xerox Control-Program-Five (CP-V)/OPS Reference Manual (Xerox 560 and Sigma 6/7/9) |
| | | | | | Software Version: COO |
| | • | | | | Describes operating characteristics of CP-V and is intended for use by operations management in preparing detailed operating procedures. Contents: Key-in procedures and message formats, system start-up and initialization, job and system controls, peripheral device handling, recovery and file preservation, task descriptions. |
| 90 16 92D 90 16 92D-1 90 16 92D-2 | 6/73 2/74 10/74 | 4.50 C C | 7.20 C C | 10.80 C C | Xerox Control Program-Five (CP-V)/TS User's Guide (Xcrox 550 and Sigma 6/7/9) |
| | | | | | Software Version: COO |

Software Version: COO

Describes how to use time-sharing features of CP-V and is intended for use by time-sharing users. Contents: Logging on and off, terminal interface, manipulating files, using language processors, loading and executing object programs, debugging users programs, getting in and out of processors, assigning DCBs, controlling output, saving/ restoring core images and files, submitting batch jobs, communicating with operator.

USER PROGRAMMING MANUALS SIGMA 5-9 OPERATING SYSTEMS

| STGIM 3-3 of Early Ind. State 1 | | | | | | |
|---------------------------------|------------------|-----------|--------------------------|-------------------|--|--|
| Publication Number | Revision Date | Price | 1 Year <u>Subscr.</u> | 2 Year Subscr. | Title and Contents | |
| 90 30 26B 90 30 26B-1 | 2/74 9/74 | 2.25 C | 3.60 C | 5.40 C | Xerox Control Program-Five (CP-V)/RP Reference Manual (Xerox 560 and Sigma 6/7/9) | |
| | | | | | Software Version: COO | |
| | | | | | Describes external programming characteristics of remote processing features of CP-V and is intended for use by programmers and operators. Contents: Introduction, local and remote users, remote operator, central site operator, system manager, connecting remote site and central site telephone lines, operation of IRBTS, operation of the Xerox 7670 Remote Batch Terminal, multileaving. | |
| 90 31 12A | 10/74 | 7.50 | 12.00 | 18.00 | Xerox Control Program-Five/Transaction Processing Reference Manual (Xerox 560 and Sigma 6/7/9) | |
| | | | | | Software Version: COO | |
| | | | | | Describes the external programming characteristics of transaction processing. Contents: Comprehensive system description, terminal interface controller, stations, user station controls, report delivery, transaction format descriptors, station names processor, report delivery processor, TFD processor, terminal interface controller job, the transaction processing controller, TPC subroutines, sample user module, and load module, TPC simulator, journalization, recovery, system start-up interruption— and termination, control of the terminal interface controller, control of the transaction processing load module, recovery procedures, operator error and information messages, common journal record formats, T:LOGON, TFD processing. | |
| 90 30 80A | 4/74 | 1.75 | 2.80 | 4.20 | Xerox Control Program-Five (CP-V) Common Index (Sigma 6/7/9) | |
| | | | | | Software Version: BOO | |
| | | | | | Describes contents of six CP-V user manuals. Contents: Index for BP, TS, SM, RP, OPS, SP Reference Manuals and TS User's Guide. | |

USER PROGRAMMING MANUALS SIGMA 5-9 OPERATING SYSTEMS

| | olication mber | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | Title and Contents |
|----|-------------------|------------------|-------|-------------------|-------------------|---|
| S0 | 31 31A | 12/74 | С | С | С | Xcrox Control Program-Five (CP-V)/Pocket Guide |
| | | | | | | Software Version: BOO |
| | | | | | | Specifies key reference information for CP-V and is intended for use by programmers. Contents: TEL, PCL, Link, Job Control Commands, Edit, BASIC, Extended FORTRAN IV, FORTRAN Debug Package, Delta, TEXT, Symbol-Code Correspondences, Sigma 9 Instructions and OP Codes, Error Messages, other Monitor Error Codes, ANS Labeled Tape Abnormal Codes, Illegal traps. |
| 90 | 18 83D | 12/74 | С | С | С | Xerox CP-V/TS Reference Card (Sigma 6/7/9) |
| | | | | | | Software Version: COO · |
| | | | | | | Specifics key reference information for UTS Time-sharing languages and is intended for use by time-sharing users. Contents: terminal operations, TEL commands, PCL commands, Link commands. |
| 90 | 18 87C | 10/73 | С | С | С | Xerox CP-V Delta/Reference Card (Sigma 6/7/9) |
| | | | | | | Software Version: A00 |
| | | | | | | Specifies key reference information for CP-V Delta and is intended for time-sharing users. Contents: Special symbols, format codes, commands, Executive Delta. |
| 50 | 19 84A | 9/73 | 6.00 | 9.60 | 14.40 | Xerox Universal Time-Sharing System (UTS) / Overview and Index Technical Manual (Sigma 6/7/9) Software Version: COl Describes overview of internal structure of UTS and is intended for use by maintenance programmers. Contents: Introduction, concepts, memory layout, monitor functional structure, monitor physical structure, UTS processors, index to technical manuals |

processors, index to technical manuals.

USER PROGRAMMING MANUALS SIGMA 5-9 OPERATING SYSTEMS

| Publication Number | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | Title and Contents |
|--------------------------|------------------|-----------|-------------------|-------------------|---|
| 90 19 85A | 2/73 | 5.25 | 8.40 | 12.60 | Xerox UTS/Basic Control and Basic I/O Technical Manual (Sigma 6/7/9) |
| | | | | | Software Version: B01/C01 |
| | | · | | | Describes internal structure of Basic Control and Basic I/O modules and is intended for use by maintenance programmers. Contents: Basic Control, ENTRY, CALPROC, ALTCP, TABLES, S9TRAPS, Error Trap Handlers. DEVICE I/O, Swapping RAD I/O, COC Terminal I/O, COC Control Routine. |
| 90 19 86A 90 19 86A-1 | 2/73 5/73 | 4.25 C | 6.80 C | 10.20 C | Xerox Universal Time-Sharing System (UTS) System and Memory Management Technical Manual (Sigma 6/7/9) |
| | • | | | | Software Version: DOO |
| | | | | | Describes internal structure of System and Memory Management modules and is intended for use by maintenance programmers. Contents: Scheduler, Swap Scheduler, Job Step Control, Swapper, CLOCK4, Memory Management, ALLOCAT. |
| 90 19 87A | 2/73 | 3.00 | 4.80 | 7.20 | Xerox Universal Time-Sharing System (UTS)/ Symbiont and Job Management Technical Manual (Sigma 6/7/9) |
| | | | | | Software Version: CO1 |
| | | | | | Describes internal structure of Symbiont and Job Management modules and is intended for use by maintenance programmers. Contents: Symbiont activation routine, user interface, input symbiont routine, output symbiont routine, get a file, symbiont core and RAD management, request symbiont granule, request symbiont core buffer, release symbiont core buffer, symbiont ghost communication, |

operator-symbiont communication, symbiont subroutines, other miscellaneous, suspend symbiont, symbiont file handling, multi-batch

scheduler, remote batch processing.

USER PROGRAMMING MANUALS SIGMA 5-9 OPERATING SYSTEMS

| | | y. | | | |
|--------------------------|------------------|-----------|-------------------|-------------------|---|
| Publication Number | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | Title and Contents |
| 90 19 88A | 2/73 | 5.50 | 8.80 | 13.20 | Xcrox Universal Time-Sharing System (UTS) Operator Communication and Monitor Services Tochnical Manual (Sigma 6/7/9) |
| | | | | | Software Version: COl |
| | | | | | Describes internal structure of Operator Communication and Monitor Services modules and is intended for use by maintenance programmers. Contents: Operator communication, CAL processors, System performance measurement, accounting, load and link. |
| 90 19 89A | 2/74 | 6.75 | 10.80 | 16.20 | Xerox Universal Time-Sharing System (UTS) File Management Technical Manual (Sigma 6/7/9) |
| • | | | | | Software Version: CO1 |
| | • | | | | Describes internal structure of File Management modules and is intended for maintenance programmers. Contents: File management disk, file management tape. |
| | | | | | |
| 90 19 90A 90 19 90A-1 | 2/73 8/73 | 8.25 C | 13.20 C | 19.80 C | Xcrox Universal Time-Sharing System (UTS) Reliability and Maintainability Technical Manual (Sigma 6/7/9) |
| | | | | | Software Version: DOO |
| | | * | | | Describes internal structure of Reliability and Maintainability modules and is intended for use by maintenance programmers. Contents: System consistency checks, diagnostic and exerciser interface, error logging routine, copy error log, print error summary, error log lister, power fail safe recovery, Delta, user program debugging, RUNNER, debug routines, TELLUSR, DUMP, SCREECH, ANALYZE, RELOAD, DRSP. |
| 90 19 92A 90 19 92A-1 | 2/73 5/73 | 3.50 C | 5.60 C | 8.40 C | Xerox Universal Time-Sharing System (UTS) Initialization and Recovery Technical Manual (Sigma 6/7/9) |

USER PROGRAMMING MANUALS SIGMA 5-9 OPERATING SYSTEMS

| Publication <u>Number</u> | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | Title and Contents |
|------------------------------|------------------|-----------|-------------------|-------------------|---|
| | | | | | Software Version: DOO |
| | | | | | Describes internal structure of Initialization and Recovery and is intended for use by maintenance programmers. Contents: INITIAL, BOOTSUBR, GHOSTID, PHASEC, SYSMAK, SYSMAKI, GPHGP, RCVCT, TSTHGP, CYCUSK, SYMFILES, RCVRIO, RCVDEF, RECOVERZ, HGPRECON. |
| 90 19 93 A | 2/73 | 6.75 | 10.80 | 16.20 | Xerox Universal Time-Sharing System (UTS) Command Processors Technical Manual (Sigma 6/7/9) |
| | | | | | Software Version: CO1 |
| | · | | | | Describes internal structure of command processors and is intended for use by maintenance programmers. Contents: Executive routine, terminal executive language, LOGON. |
| 90 19 94A 90 19 94A-1 | 2/73 7/73 | 4.75 C | 7.60 C | 11.40 C | Xerox Universal Time-Sharing System (UTS) System Processors Technical Manual (Sigma 6/7/9) |
| | | | | | Software Version: D00 |
| | | | | | Describes internal structure of System Processors and is intended for use by maintenance programmers. Contents: Accounting rates structure, authorized users, performance Monitor, performance summary, on-line one passloader, terminal batch entry subsystem, create load module containing DEFs only, symbol table control, error message file writer, system messages to users, System UTS, System BPM (for UTS) System FOOMON, CLEAR, LIF. |
| 90 19 95 C | 11/74 | 12.00 | 19.20 | 28.80 | Xerox Control Program-Five (CP-V)/Data Base Technical Manual (Xerox 560 and Sigma 6/7/9) |
| | | | | | Software Version: COO |
| | | | | | Describes internal structure of data base and is intended for use by maintenance , |

USER PROGRAMMING MANUALS SIGMA 5-9 OPERATING SYSTEMS

Publication Revision 1 Year 2 Year

Number Date Price Subscr. Subscr. Title and Contents

programmers. Contents: Job information tables, scheduler, user tables, shared processor tables, memory allocation, input/output tables, file tables symbionts and cooperatives, multi-batch scheduler tables, error log, assign-merge table, error codes, and error messages, loader tables, real time, ENQ/DEQ, remote processing, scratch codes.

USER PROGRAMMING MANUALS SIGMA 5-9 PROCESSORS AND APPLICATIONS

| Publication Number | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | |
|--------------------------|------------------|-----------|-------------------|-------------------|---|
| inininin'ASSEMBL | ERStation | | | | |
| 90 17 90A | 6/71 | 1.75 | 2.45 | 3.85 | Xerox Symbol/LN,OPS Reference Manual (Sigma 5-9) |
| · | | | | | Software Version: HOO |
| | | | | | Describes external programming characteristics of Symbol and is intended for use by assembly language programmers. Contents: Programming features and operations, language elements and syntax, addressing, instructions, symbol directives, assembly listings, operations, summary of directives, summary of instruction mnemonics. |
| 90 09 52F 90 09 52F-1 | 9/72 10/73 | 4.75 C | 6.65 C | 10.45 C | Xerox Meta-Symbol/LN,OPS Reference Manual (Sigma 5-9) |
| | | | | | Software Version: HO1 |
| | • | | | | Describes external programming characteristics of Meta-Symbol and is intended for use by assembly language programmers. contents: Programming features and operations, language elements and syntax, addressing, directives, procedures and lists, assembly listings, operations, summary of directives, summary of mnemonics. |
| 90 15 78B | 6/72 | 2.75 | 3.85 | 6.05 | Xerox Macro-Symbol/LN,OPS Reference Manual (Sigma 5-9) Software Version: COO |

Software Version: COO

Describes external programming characteristics of Macro-Symbol and is intended for use by assembly language programmers. Contents: Programming features, Macro-Symbol language elements and syntax, addressing, instructions, directives, procedures, assembly listings, operations, summary of Macro-Symbol directives, Macro-Symbol compatibility, summary of mnemonics.

| Publication Number | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | |
|--------------------------|------------------|-----------|-------------------|-------------------|--|
| 30 30 OOC | 12/73 | 4.00 | 5.60 | 8.80 | Xerox Assembly Program (AP)/LN,OPS Reference Manual (Sigma 5-9) |
| | | | | | Software Version: BOO |
| | | | | | Describes external programming characteristics of AP and is intended for use by assembly language users. Contents: Introduction, language elements and syntax, addressing, directives, procedures, assembly listing, control card options, updating a compressed deck, concordance listing, pre-encoded files, error messages, summary of Sigma instruction mnemonics. |
| *******FORTRAN | [Victorial | | | | |
| 30 09 56E | 2/73 | 6.50 | 9.10 | 14.30 | Xerox Extended FORTRAN IV/LN Reference Manual (Sigma 5-9) |
| | : | | | | Software Version: E00 |
| | • | | | | Describes external programming characteristics of FORTRAN IV language and is intended for use by FORTRAN programmers. Contents: Data expressions, assignment statement, control statements, input/output statements, declaration statements, programs and subprograms, miscellaneous features, other features accepted for compatibility, Extended FORTRAN IV statements, characters |
| | | | | | acceptable in column 1, syntax ambiguities, Extended FORTRAN IV character set, real-time features. |
| 90 11 43D 90 11 43D-1 | 5/71 2/73 | 4.00 C | 5.60 C | 8.80 C | Xerox Extended FORTRAN IV/OPS Reference Manual (Sigma 5-9) |
| | • | | | | |

Software Version: E00

Describes operating system interface characteristics of Extended FORTRAN IV and is intended for use by FORTRAN programmers.

Contents: Compiler, library structure, calling and receiving sequences, interface with assembly language, input/output, job setup, operational considerations, real-time features, argument setup routines, sample

USER PROGRAMMING MANUALS SIGMA 5-9 PROCESSORS AND APPLICATIONS

| Publication Number | Revision Date | Price | 1 Year Subscr. | 2 Year Subscr. | |
|-----------------------|------------------|-------|-------------------|-------------------|--|
| | | | | | diagnostic listing, sample library listings, Extended FORTRAN IV character set. |
| 90 18 88B | 2/73 | С | С | С | Xcrox Extended FORTRAN IV/Reference Card (Sigma 6/7/9) |
| | | | | | Software Version: E00 |
| | | | | | Specifies key reference information for Extended FORTRAN IV and is intended for use by FORTRAN programmers. Contents: declaration statements, assignment statement, control statements, input/output statements, subprogram statements, compiler options. |
| 90 15 24E | 6/73 | 4.00 | 5.60 | 8.80 | Xerox Extended FORTRAN/Library Technical Manual (Sigma 5–9) |
| | . • | | | | Software Version: E00 |
| | | | | • | Describes internal structure and external characteristics of Extended FORTRAN IV and Extended FORTRAN IV-H, library and is intended for use by FORTRAN programmers. Contents: Library routines, interfacing, register conventions, parameterization, operating environment, library ordering, library loading, program descriptions. |
| 90 31 14A | 6/74 | 25.25 | 35.35 | 55.55 | Xerox Extended FORTRAN IV/Technical Manual (Sigma 5-9) |
| | | | | | Software Version: E00 |
| | | | | | Describes internal structure of Extended FORTRAN IV and is intended for maintenance programmers. Contents: Overview, specific areas, throughviews, external mechanics. |
| ******MATH F | OUT INES*** | eieit | | | |
| 90 09 06E | 6/71 | 2.50 | 3.50 | 5.50 | Xerox Mathematical Routines/Technical Manual (Sigma 5-9) |
| | | | 7 | | Software Version: DOO . |

| Publication | Revision | | 1 Year | 2 Year |
|-------------|-------------|-------|---------|---------|
| Number | <u>Date</u> | Price | Subscr. | Subscr. |

Describes internal structure and external characteristics of mathematical routines and is intended for use by programmers (FORTRAN, Meta-Symbol, etc.). Contents: Calling sequences, error conditions and actions, reentrancy, trap conditions, accuracy, program descriptions, table of subroutines, order of math routines in library.

30 09 66E 3/70 3.75 5.25 8.25 Xerox Extended FORTRAN IV-H/LN Reference 30 09 66E-1 6/71 C C Manual (Sigma 5-9)

Software Version: DOO

Describes external programming characteristics of Extended FORTRAN IV-H and is intended for use by FORTRAN programmers. Contents: Description of FORTRAN IV-H programs, data, expressions, assignment statement, programs and subprograms, FORTRAN IV-H character set, FORTRAN IV-H statements, real-time features.

90 11 44D 3/71 1.25 1.75 2.75

Xerox Extended FORTRAN IV-H/OPS Reference Manual (Sigma 5-9)

Software Version: DOO

Describes operating system inteface characteristics of Extended FORTRAN IV-H and is intended for use by FORTRAN programmers. Contents: Compiler, subprograms, program compilation and execution, input/output operations, FORTRAN IV-H character set, symbolic coding.

********FORTRAN DEBUG*******

90 16 77A 7/70 2.50 3.50 5.50 90 16 77A-1 9/71 C C C

Xerox FORTRAN Debug Package (FDP)/Reference Manual (Sigma 5-9)

Software Version: E00

Describes external programming characteristics of FDP and is intended for use by FORTRAN programmers. Contents: Batch

| Publication Number | Revision Date | Price | 1 Year Subscr. | 2 Year <u>Subscr.</u> | |
|-----------------------|------------------|----------|-------------------|--------------------------|--|
| | | | | | and on-line debugging capabilities, input/ output, typical use of debugging commands, debugger interfacing, debugger command language, description of commands, operations, restrictions and limitations, information messages and error messages, batch usage. |
| 90 17 44B | 1971 | С | С | С | Xerox FORTRAN Debug Package (FDP)/Reference Card (Sigma 5-9) |
| | | | | | Software Version: E00 |
| | | | | | Specifies key reference information for FDP and is intended for use by FORTRAN programmers. Contents: Guide to FDP commands, FDP command table, symbols and abbreviations used in describing debug commands. |
| . • | | | | | • |
| *******FORTRAN | I LOAD AND | COsposic | r | | |
| SO 16 54C | 9/74 | 5.25 | 7.35 | 11.55 | Xerox FLAG/Reference Manual (Sigma 5-8) |
| • | | • | | | Software Version: D00 |
| | | · | | | Describes external programming characteristics of FLAG and is intended for use by FORTRAN programmers. Contents: FLAG compiler, data, expressions, assignment statement, control statements, input/output, declaration statements, program and subprograms, operations, FLAG statements. |
| ****************** | inni | | | | |
| 30 15 00C | 9/73 | 5.25 | 7.35 | 11.55 | Xerox ANS COBOL/LN Reference Manual (Sigma 5-9) |
| | | | | | Software VERSION: E00 |
| | | | | | Describes external characteristics of COBOL programming language and is intended for use by COBOL programmers. Contents: COBOL language structure, input/output processing, |

identification division, environment

division, data division, procedure division,

USER PROGRAMMING MANUALS SIGMA 5-9 PROCESSORS AND APPLICATIONS

| Publication Number | Revision Date | Price | 1 Year Subscr. | 2 Year Subscr. | |
|--------------------------|------------------|-------|-------------------|-------------------|---|
| | | | | | report writer, sort feature, COBOL library, subcompile feature, priority segmentation, debugging statements, ANS COBOL reserved words, sample ANS COBOL program, slack bytes, evaluation of arithmetic-expressions, Sort features sample program, report writer sample program, compiler diagnostics, reference tables. |
| 90 15 01F 90 15 01F-1 | 9/73 3/74 | 3.00 | 4.20 C | 6.60 C | Xerox ANS COBOL/OPS Reference Manual (BPM/ (BPM/CP-V) (Sigma 5-3) |
| | | | | | Software Version: E00 |
| | | | | | Describes operating system interface for ANS COBOL and is intended for use by COBOL programming. Contents: Compiler, object program, program compilation and execution. |
| 90 30 60A | 9/73 | 1.25 | 1.75 | 2.75 | Xerox ANS CO3OL/On-Line Debugger Reference Manual (Sigma 5-9) |
| | | | | | Software Version: E00 |
| | | | | | Describes external programming characteristics of the on-line COBOL debugger. Contents: Introduction, debugger interfacing, debugger command language, typical use of debugging commands, description of commands, operations, debugger messages, a sample debugging session. |
| sobboti []Piotobo | : | | | | |
| 90 30 66A | 12/73 | 1.50 | 2.10 | 3.30 | Xcrox Interactive Data Processor/LN,OPS Reference Manual (Sigma 6/7/9) |
| | | ٠ | | | Software Version: A00 |
| | | | | | Describes external programming characteristics of IDP and is intended to |

characteristics of IDP and is intended for

use by business programmers. Contents: Introduction, IDP operations, IDP query language, description of IDP commands, IDP

error messages, IDP limitations.

| Publication Number | Revision Date | Price | 1 Year Subscr. | 2 Year Subscr. | |
|--------------------------|------------------|-----------|-------------------|-------------------|---|
| sistesta REGIONA | | | | | |
| 90 19 99A 90 19 99A-1 | 2/73 5/74 | 6.25 C | 8.75 C | 13.75 C | Xerox Report Program Generator (RPG) (Sigma 5-9 Computers) |
| | | | | | Software Version: A00 |
| | | | | | Describes external programming characteristics of RPG and is intended for use by business programmers. Contents: Description of RPG, RPG programming, RPG source language and specifications, use of tables in RPG programming, advanced use of RPG, sample RPG programs, summary of RPG specifications, summary of indicators, diagnostic messages, detailed RPG object program logic, program conversion hints, use of external subroutines, compiler options, job setup. |
| • | | | | | |
| serere APL sere | icit | | | | |
| 90 19 31B | 10/73 | 7.50 | 10.50 | 16.50 | Xerox APL/LN, OPS Reference Manual (Sigma 6/7/9) |
| | | | | | Software Version: B00 |
| | | | | | Describes external characteristics of APL programming language and is intended for use by APL programmers. Contents: Using APL, common elements in APL, expression evaluation, APL operators, APL statements, defined functions, system commands, report formatting, execution stops, error messages, nonstandard input/output. |
| | | | | | - |
| siciolos BASIC* | าดดด | | | | |
| 90 15 46G | 8/74 | 3.00 | 4.20 | 6.60 | Xerox BASIC/LN,OPS Reference Manual (Sigma 5-9) |
| | | | | | Software Version: DO1 (BPM) and CO1 (CP-V) |
| | | | | | Describes external programming characteristics of BASIC and is intended for |

use by BASIC users. Contents: Beginning

USER PROGRAMMING MANUALS SIGMA 5-9 PROCESSORS AND APPLICATIONS

| Publication Number | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | |
|-----------------------|------------------|-------|-------------------|-------------------|---|
| | | | | | BASIC, elementary features of BASIC, advanced features of BASIC, BASIC commands, batch processing, BASIC messages, summary of BASIC statements, summary of BASIC commands, BASIC intrinsic functions, summary of UTS BASIC operating procedures, format of binary data files for BASIC (PUT and GET operations), BPM/BTM/UTS I/O control. |
| 30 18 85A | 6/72 | С | С | С | Xerox BTM BASIC/Reference Card (Sigma 5-8) |
| | | | | | Software Version: DO1 |
| · | | | | | Specifies key reference information for BTM BASIC and is intended for use by BASIC users. Contents: Establishing connection with BASIC, terminating the session, terminal operations, abbreviations, statements, editing commands, intrinsic functions. |
| 90 18 84B | 9/73 | С | С | С | Xerox CP-V BASIC/Reference Card (Sigma 6/7/9) |
| , | | | | | Software Version: CO1 . |
| • | | | | | Specifies key reference information for UTS BASIC and is intended for use by BASIC users. Contents: Establishing a connection with BASIC, terminating the session, terminal operations, abbreviations, statements, editing commands, intrinsic functions. |
| sationicEASY)ada | ં લ્લેલ | | | | |
| 90 18 73A | 9/72 | 2.25 | 3.15 | 4.95 | Xerox Easy/LN,OPS Reference Manual (Sigma 6/7/9) |
| | | | | | Software Version: A00 |
| | | | | | Describes external characteristics of Easy |

and is intended for use by Easy users.

Contents: Easy file system, Easy commands, beginning BASIC, elementary features of BASIC, advanced features of BASIC, BASIC messages, summary of BASIC statements, BASIC intrinsic functions, format of binary data

USER PROGRAMMING MANUALS SIGMA 5-9 PROCESSORS AND APPLICATIONS

Publication Revision 1 Year 2 Year Number <u>Date</u> <u>Price</u> <u>Subscr. Subscr.</u>

files for BASIC, Easy error messages, Flag additions

SOCIONAL SCELLANEOUS SOCIONO

90 15 02A 4/68 .75 1.05 1.65 90 15 02A-1 1/71 C C C

Xerox 1400 Series Simulator/Reference Manual (Sigma 5-9)

Software Version: F00

Describes operating characteristics of 1400 Series Simulator and is intended for use by operations management in preparing detailed operating procedures. Contents: Special 1400 features, limitations, simulation method, 1400 control console simulation, simulator control entries, tape conversion program, loading 1400 Series Simulator Program, input/output simulation, console messages, 1400 Series Simulator System organization, simulated 1400 Series instructions, 1400 Series instructions treated as "no operation", nonsimulated 1400 Series instructions.

90 16 32A 3/71 1.75 2.45 3.85

Xerox Graphic Display Library/Reference Manual (Sigma 5-9)

Software Version: B00 - Nonsupported product.

Describes external programming characteristics of Graphic Display Library and is intended for use by application programmers. Contents: Physical and functional description, subroutine calling conventions, universal arguments, naming conventions, error conventions, initialization and termination, operations on display information, element operations, controlling image parameters and light gun. changing display commands, controlling execution of display commands, GDL interrupts, character input, file management of images, coding for types of GDL displays, coding and description for GDL display of running clock, index to subroutines, how to

USER PROGRAMMING MANUALS SIGMA 5-9 PROCESSORS AND APPLICATIONS

| Publication | Revision | l Year | 2 Year |
|-------------|----------|---------|---------|
| Number | Date | Subscr. | Subscr. |

add GDL to system, list of GDL routines, tables generated in tables routines and used throughout GDL, context area description and diagrams.

intrinitySORT intrinity

90 11 99G 10/73 2.25 3.15 4.95

Xerox Sort-Merge/Reference Manual
(Sigma 5-9)

Software Version: E00

Describes programming characteristics of Sort-Merge and is intended for use by application programmers. Contents: Program features, operating modes, key fields, messages, Sort control record layout, Sort file characteristics, Sort operating examples, read-backward polyphase technique, Sort structure and core allocation, Sort use of magnetic tape for intermediate work files, Merge system library control, Merge control record layout, Merge operating examples, Sort messages.

********MANAGE*****

| 90 | 16 | 108 | 7/70 | 2.75 | 3.85 | 6.05 |
|----|----|-------|-------|------|------|------|
| | | 10B-1 | | С | С | С |
| 90 | 16 | 10B-2 | 10/71 | C | С | С |

Xerox Manage/Reference Manual (Sigma 5-9)

Software Version: COO

Describes external programming characteristics of file management system (Manage) and is intended for use by application programmers. Contents: Program characteristics, Dictionary program, Data File program, Data Retrieval and Report programs, Terminal-Oriented Manage, messages, sample program deck setups, DCB names for Manage processors, own-code linkage for Fileup, sample Manage runs.

USER PROGRAMMING MANUALS SIGMA 5-9 PROCESSORS AND APPLICATIONS

| , 4,5 , | evision ate <u>Price</u> | l Year Subscr. | 2 Year Subscr. | |
|----------------------------------|-----------------------------|-------------------|-------------------|---|
| τοιοιοίο ΤΕΧΤτοιοίοιο | | | | |
| SO 18 51B 1 | 1/74 3.25 | 4.55 | 7.15 | Xerox TEXT/LN,OPS Reference Manual (Xerox 560 and Sigma 6/7/9) |
| | | | | Software Version: A02 |
| | | | | Describes external features of Xerox TEXT and is intended for use by terminal users. Contents: Overview, terminal operations, basic text commands, advanced commands, summary of TEXT messages. |
| 90 30 50A 6 | /73 C | С | С | Xerox TEXT/Reference Card (Sigma 6/7/9) |
| | | | | Software Version: A01 |
| .* | | | | Specifies key reference information for TEXT |
| ٠ | • | | | and is intended for use by TEXT terminal users. Contents: Embedded commands, editing |
| | | | | commands, printout commands, storage and retrieval commands, miscellaneous commands. |
| · · | | | | • |
| ****************** | | | | • |
| 90 17 05A 7 | 7/70 6.50 | 9.10 | 14.30 | Xerox GAMMA3 (Matrix Generator and Report Writer for FMPS)/Reference Manual (Sigma 5-8) |

Software Version: B00

Describes external programming characteristics of GAMMA3 and is intended for use by mathematical programmers. Contents: General description, operations, card formats, input deck organization, GAMMA3 program and files, general concepts and utility statements, tables, lists, retrieving tables or lists with COPY statement, problem definitions, rows definition, column definition, DO and END DO statements, report definition format statement, line statement, report definition arithmetic, page headings, report publishing, sample problem, reference lists, statements, diagnostics, GAMMA3 system limits.

| 2101N 2-2 11 | OCESSOINS 7 | | | | |
|--------------------------|------------------|-----------|-------------------|-------------------|---|
| Publication Number | Revision Date | Price | l Year Subscr. | 2 Year Subscr. | |
| SO 16 09B SO 16 09B-1 | 8/70 5/71 | 4.00 C | 5.60 C | 8.80 C | Xerox Functional Mathematical Programming System/Reference Manual (Sigma 5-8) |
| | | • | | | Software Version: BOO |
| | | | | | Describes external characteristics of FMPS and is intended for use by mathematical programmers. Contents: Procedures for solving linear programming problems, FMPS fundamentals, control language statements, basic FMPS procedures, data card formats and deck organization, linear programming operating mode, separable programming operating mode, operating procedures, parametric programming, FMPS error messages, FMPS sample runs. |
| ininiaiaisL=1iaiai | rsteste | | | | |
| 90 16 76B | 2/72 | 3.75 | 5.25 | 8.25 | Xerox SL-1 Reference Manual (Sigma 5-9) |
| | | | | | Software Version: BOO |
| | | | | | Describes external programming characteristics of SL-1 and is intended for use by simulation programmers. Contents: General description and features, relationship to FORTRAN and Symbol, elementary constructions, sorting, program structures, SL-1 Translation information statements, centralized integration system input/output macros, conditional processing, macros, assembly language coding and micro blocks, function generation, simulation operators, run-time interaction, real-time |

soldodic IRCsoldodic

30 16 97B 12/74 4.00 5.60 8.80 X

Xerox CIRC-DC/Reference Manual (Sigma 5-9)

notes, SL-1 parameter limits, operating

and hybrid features, diagnostics, programming

Software Version: B00

procedures.

Describes external programming characteristics of CIRC-DC and is intended for use by engineering programmers.

Contents: Program description, modes of

| Publication | Revision | | 1 Year | 2 Year |
|-------------|----------|--------------|---------|---------|
| Number | Date | <u>Price</u> | Subscr. | Subscr. |

operation, executive systems, summary of salient features, example programs, circuit description elements, input to CIRC-DC, CIRC models, program control and control messages, worst case analysis, circuit size limitations, trouble-shooting an analysis, special equations, CIRC start-up procedures, CIRC elements, transistor element-equation presentation, brief theoretical discussion of CIRC, control messages, memory layout for CIRC, keypunch compatibility, compacted data option, CIRC abort and restart.

90 16 98A 9/70 4.25 5.95 9.35 90 16 98A-1 11/71 C C C Xerox CIRC-AC/Reference Manual (Sigma 5-9)

Software Version: B00

Describes external programming characteristics of CIRC-AC and is intended for use by engineering programmers. Contents: Program description, modes of operation, summary of features, example problems, CIRC's elements for describing circuits, input, CIRC models, program control and control messages, loop analysis technique, plotting results, circuit size limitations, troubleshooting an analysis, special equations, equivalent circuit modelling using CYS and VZS elements, CIRC start-up procedures, CIRC-AC elements. derivation of equation defining 721, brief theoretical discussion of CIRC-AC, control messages, memory layout for CIRC, keypunch compatibility, compacted data option, CIRC abort and restart, Y equivalent circuit example.

90 17 86A 8/71 4.50 6.30 9.90 90 17 86A-1 1/72 C C C

Xerox CIRC-TR/Reference Manual (Sigma 5-9)

Software Version: A00

Describes external programming characteristics of CIRC-TR and is intended for use by engineering programmers.

Contents: Program description elements, input to CIRC-TR, CIRC models, program control and control messages, details on

| Publication Number | Revision Date | Price | 1 Year Subscr. | 2 Year Subscr. | |
|-----------------------|------------------|-------|-------------------|-------------------|---|
| | | | | | CIRC-TR's output options, circuit size limitations, troubleshooting an analysis, special equations, CIRC start-up procedures. |
| tatatatat@MStatata | nic | | | | |
| 90 17 38B | 3/73 | 3.00 | 4.20 | 6.60 | Xcrox Data Management System (DMS) / Reference Manual (Sigma 5-9) |
| | | | | | Software Version: .BO1 |
| | | | | | Describes external programming characteristics of DMS and is intended for use by business programmers. Contents: Overview, DMS file structure characteristics, data description language, procedural interface, operational interface. |
| 90 30 12C | 12/74 | 4.50 | 6.30 | 9.90 | Xerox Extended Data Management System (EDMS) Reference Manual (Sigma 6/7/9) |
| | | | | • | Software Version: BOO (AOO restructuring) |
| | | | | | Describes external programming characteristics of EDMS and is intended for use by business programmers. Contents: Extended DMS overview, file definition processor, database manager, EDMS utility processors, schema file, subschema file, sample database definition, database page formats, sequential file formats, error messages. |
| 90 30 37A | 7/73 | 2.00 | 2.80 | 4.40 | Xcrox Extended Data Management System (EDMS) User's Guide (Sigma 6/7/9) |
| | | | | | Software Version: A00 |

Describes external programming characteristics of EDMS and is intended for use by business programmers. Contents: Introduction, database design, database definition, program design, program coding, database initialization, loading and running programs, backup and recovery, sample database problem.

1

Publication Revision 1 Year 2 Year

<u>Number Date Price</u> <u>Subscr. Subscr.</u>

satisfatGPDS#dotote

90 17 58B 11/72 9.25 12.95 20.35

Xerox General Purpose Discrete Simulator (GPDS)/Reference Manual (Sigma 5-9)

Software Version: COO

Describes external programming characteristics of GPDS and is intended for use by engineering and administrative programmers. Contents: General description, structure of GPDS, GPDS conventions, GPDS program principles, basic entities-blocks and transactions, equipment entities, computational entities, statistical entities, SAVEVALUE entities, chain entities, blocks used in program output, interfacing with user subroutines, GPDS control cards, assembly program and control cards, output editor, system organization procedures, overall GPDS scan, error messages, standard numerical and logical attributes, block formats and symbols, effect of RESET and CLEAR cards. reallocation of core, standard statistical printout, GPDS load modules and overlay structure.

90 30 62A 10/73 9.75 13.65 21.45

Xerox APT3 (Level 3) Numerical Control Compiler Programming Manual (Sigma 3, 5, 6, 7, 8, 9)

Describes the external programming characteristics of APT3. Contents: Introduction, punctuation and grammar, program sequence, solution library, motion statements, postprocessing, special capabilities, error codes and diagnostic statement dictionary, canonical forms, sample programs.

HARDWARE DIAGNOSTICS XEROX 530 AND SIGMA 2/3 DIAGNOSTIC MANUALS

| PUBLICATION NUMBER | REVISION DATE | PRICE | <u>TITLE</u> |
|-----------------------|------------------|----------|--|
| ******CENTRAL | PROCESSIN | IG UNITS | platatatat |
| 90 08 76D- 3 | 6/73 | 3.25 | Sigma 2/3 Memory (8K) Test (MEDIC) Diagnostic Program Manual |
| SO 10 07E | 9/69 | 4.00 | Diagnostic Program Manual Sigma 2 CPU (Auto) |
| SO 11 24C | 11/69 | .75 | Diagnostic Program Manual Sigma 2 Diagnostic Binary Generator (2 DIBIGEN) |
| S0 11 37E-2 | 1/74 | 5.00 | Diagnostic Program Manual Sigma 2/3 External Interrupt |
| 90 11 60D-2 | 1/74 | 1.25 | Diagnostic Program Manual Sigma 2/3 Power Fail Safe Test |
| 90 11 37E-2 | 1/74 | 5.00 | Diagnostic Program Manual Sigma 2/3 External Interrupt |
| 30 11 60D-2 | 1/74 | 1.25 | Diagnostic Program Manual Sigma 2/3 Power Fail Safe Test |
| 90 11 64E | 11/69 | 2.25 | Diagnostic Program Manual Sigma 2/3 Real-Time Clock Test |
| 30 15 58C | 8/69 | 1.00 | Sigma 2/3 Relocatable Diagnostic Program Loader |
| 90 15 608 | 9/69 | 5.25 | Diagnostic Program Manual Sigma 2/3 Channel Interface Unit Test |
| 90 15 71B | 8/69 | .50 | Diagnostic Program Manual Sigma 2 Watchdog Timer Test |
| 30 15 883 | 12/69 | 2.50 | Diagnostic Program Manual Sigma 3 CPU Extended Arithmetic |
| SO 16 04B | 11/69 | 3.00 | Diagnostic Program Manual Sigma 3 Memory Diagnostic |
| 90 16 05C | 4/70 | 1.25 | Diagnostic Program Manual Sigma 2/3 Memory Protect Test |
| SO 16 08C | 6/70 | 4.25 | Diagnostic Program Manual Sigma 3 CPU Diagnostic Auto |
| 90 16 158 | 12/69 | 1.50 | Diagnostic Program Manual Sigma 3 Multiport Memory Random Exerciser Test |
| SO 16 46B | 12/69 | 2.50 | Diagnostic Program Manual Sigma 3 External IOP Test |
| 90 16 50D | 1/72 | 2.50 | Diagnostic Program Manual Sigma 2/3 Diagnostic Program Monitor |
| SO 16 59A | 9/69 | 3.00 | Diagnostic Program Manual Sigma 3 Integral IOP Test |
| SO 16 66A | 11/69 | 1.75 | Diagnostic Program Manual Sigma 2/3 System Exerciser |
| 30 08 33C | 6/71 | 2.75 | Diagnostic Control Program for Sigma 2/3 Computer Peripheral Devices |

HARDWARE DIAGNOSTICS XEROX 530 AND SIGMA 2/3 DIAGNOSTIC MANUALS

| PUBLICATION NUMBER | REVISION DATE | PRICE | TITLE |
|-----------------------|------------------|--------------|--|
| · . | | | 90 11 27B 8/69 4.50 Diagnostic Program Manual Sigma 2 I/O Test Utility program |
| 90 11 310 | 11/69 | 1.25 | Diagnostic Program Manual Sigma 2 Integral IOP and Write Direct Interface Test |
| ******PERIPHE | RALS******* | | |
| 90 11 55C-3 | 3/74 | 7.50 | Diagnostic Program Manual Sigma 2 Paper Tape Reader/Punch Text |
| 90 11 59C | 11/69 | 4.00 | Diagnostic Program Manual Sigma 2 Line Printer Test |
| 90 11 62B | 9/69 | 6.00 | Diagnostic Program Manual Sigma 2/3 Card Reader Punch Test |
| 90 11 63C | 1/71 | 2.50 | Diagnostic Program Manual Sigma 2/3 Keyboard Printer (KSR/ASR) Test |
| SO 11 68E | 1/71 | 8.00 | Diagnostic Program Manual Sigma 2/3 Character Oriented Communication Controller Test |
| 90 15 08B | 8/69 | 4.25 | Diagnostic Program Manual Sigma 2/3 Keyboard Display Test |
| 90 15 100 | 8/69 | 4.25 | Diagnostic Program Manual Sigma 2/3 Data Set Controller Test |
| 90 15 12C | 8/69 | 3.75 | Diagnostic Program Manual Sigma 2/3 Automatic Dialing Equipment Test |
| 90 15 170 | 11/69 | 3.00 | Diagnostic Program Manual Sigma 2/3 Graph Plotter |
| 90 15 490 | 8/69 | 4.25 | Diagnostic Program Manual Sigma 2/3 Peripheral Switching Equipment Test |
| S0 15 53C | 8/69 | 4.25 | Diagnostic Program Manual Sigma 2/3 Low Speed Card Punch Test |
| 90 15 598 | 8/69 | 4.00 | Diagnostic Program Manual Sigma 2/3 Remote Batch Terminal Test |
| 90 15 98B | 9/69 | 3.75 | Diagnostic Program Manual Sigma 2/3 Lou Speed Line Printer |
| 90 16 13B | 5/72 | .75 | Diagnostic Program Manual Sigma 2/3 Removable Disk Storage Unit (DPM) |
| 90 16 19E | 12/73 | .25 | Diagnostic Program Manual Sigma 2/3 ASR/KSR Test |
| SO 16 63B | 4/70 | .25 | Diagnostic Program Manual Sigma 2/3 Diagnostic Program Magnetic Tape Library |
| SO 16 65A | 11/69 | 3 .75 | Diagnostic Program Manual Sigma 2/3 Magnetic Tape Library Control Program |

HARDWARE DIAGNOSTICS XEROX 530 AND SIGMA 2/3 DIAGNOSTIC MANUALS

| PUBLICATION NUMBER | REVISION DATE | PRICE | TITLE |
|-----------------------|------------------|-------|---|
| SO 17 21B-1 | 1/74 | .50 | Diagnostic Program Manual Sigma 2/3 Comprehensive RAD Test |
| SO 17 22B | 4/72 | .50 | Diagnostic Program Manual Sigma 2/3 9-Channel Magnetic Tape Test |
| 90 17 34B | 4/72 | .50 | Diagnostic Program Manual Sigma 2/3 7-Channel Magnetic Tape Test |
| 80 17 57A-2 | 2/74 | 5.25 | Diagnostic Program Manual Xerox 530 and Sigma 2/3 - Comprehensive Card Equipment Test Plan |

HARDWARE DIAGNOSTICS SIGMA 5-9 DIAGNOSTIC MANUALS

| Publication Number | Revision Date | Price | 1 Year 2 Year Subscr. Subscr. | |
|-----------------------|------------------|---------|--|----------------|
| ******CENTRAL | PROCESSIN | G UNITS | પ્રેક પ્રેક પ્રેક માટે કર્યું કે માટે કર્યું કે માટે કર્યું કર્યું કે માટે કર્યું કે માટે કર્યું કે માટે કર્યુ | |
| 90 07 12B | 11/69 | 2.50 | Diagn <mark>ostic Control Pro</mark> gram for Sigma 5/7 Computer Devices | Peripheral |
| 90 08 25D | 7/69 | 3.50 | Diagnostic Program Manual Sigma 5/7 Memory (8K) T Preliminary | est (MEDIC 75) |
| 90 08 70D | 11/69 | 2.75 | Diagnostic Program Manual Sigma 5/7 CPU (Verify) | |
| SO 08 72D | 2/70 | 6.25 | Diagnostic Program Manual Sigma 7 CPU (Auto) | |
| 90 08 91D-2 | 6/73 | 1.50 | Diagnostic Program Manual Sigma 5/7 CPU (Pattern) | |
| 90 08 93C | 11/69 | 2.75 | Diagnostic Program Manual Sigma 7 (Suffix) | |
| SO 08 98D | 4/70 | 3.50 | Diagnostic Program Manual Sigma 7 CPU (Float) | |
| S0 09 08C | 2/70 | 3.00 | Diagnostic Program Manual Sigma 7 CPU (Decimal) | |
| 30 09 20D | 8/70 | 1.50 | Diagnostic Program Manual Sigma 7 CPU (Map) | · |
| 90 09 72D . | 7/69 | 1,00 | Diagn <mark>ostic Program Manu</mark> al Sigma 5/7 Relocatable E Program Loader | liagnostic |
| 90 10 71B | 7/69 | .75 | Diag <mark>nostic Program Manual Sigm</mark> a 5/7 Memory Interl (MIT) | eaving Test |
| SO 11 34E | 12/72 | 2.75 | Diagnostic Program Manual Sigma 5/7 Interrupt Tes | ;t |
| 90 11 35C | 7/69 | .75 | Diagnostic Program Manual Sigma 5/7 Power Fail Sa | ıfe Test |
| SO 11 36F | 7/69 | 1.00 | Diagnostic Program Manual Sigma 5/7 Real Time Clo | ock Test |
| SO 15 16B | 7/69 | 1.25 | Diagnostic Program Manual Sigma 5/7 CPU (Memory F | rotect) |
| 90 15 19C | 7/69 | 2.25 | Diagnostic Program Manual Sigma 5 CPU (Suffix) | |
| 90 15 23F | 2/73 | 6.50 | Diagnostic Program Manual Sigma 5 CPU Program Tes | st (Auto) |
| 90 15 3SD-1 | 7/73 | 5.50 | Diagnostic Program Manual Sigma 5/7 Peripheral Su Equipment Test | ıitching |
| 90 15 51C-1 | 2/74 | 5.25 | Diagnostic Program Manual Sigma 5-9 Channel Inter | face Unit Test |
| 90 15 54D | 7/69 | 2.75 | Diagnostic Program Manual Sigma 5/7 4-Byte MIOP 1 | īcs t |
| 90 15 84B | 7/69 | .50 | Diag <mark>nostic Program Manu</mark> al Sigma 5/7 CPU Format Co Loader | onverter/CPU |

HARDMARE DIAGNOSTICS SIGMA 5-9 DIAGNOSTIC MANUALS

| Publication Number | Revision Date | Price | 1 Year 2 Year Subscr. Subscr. |
|-----------------------|------------------|-------|---|
| SO 16 48B | 2/70 | 2.50 | Diagnostic Program Manual Sigma 5/7 Stand Alone System Exerciser (Swap 35) |
| SO 16 49D-2 | 3/74 | .75 | Diagnostic Program Manual Sigma 5-9 Diagnostic Program Monitor Program Monitor |
| SO 16 87A | 6/70 | 3.50 | Diagnostic Program Manual Sigma 5/7 Memory Diagnostic - Fault Locator |
| SO 17 37B-3 | 1/73 | 4.00 | Diagnostic Program Manual Sigma 5/7 New System Exerciser (SEX) |
| 90 18 08A | 8/71 | 1.25 | Diagnostic Program Manual Sigma 5/7 Super Swap (102) |
| 90 18 78A | 11/72 | 1.75 | Diagnostic Program Manual Sigma 8/9 Mainframe MIOP Memory Diagnostic |
| ******PERIPHE | RALS****** | | |
| 90 11 25 D | 7/69 | 5.00 | Diagnostic Program Manual Sigma 5/7 Card Reader/ Punch System Test |
| SO 17 56A | 10/71 | .75 | Diagnostic Program Manual Sigma 5-9 Comperhensive Card Equipment |
| 90 11 26 8 | 11/69 | 3.00 | Diagnostic Program Manual Sigma 5/7 Multiplex IOP Test |
| 90 11 32E | 11/69 | 3.00 | Diagnostic Program Manual Sigma 5/7 Paper Tape Reader - Punch Test |
| SO 11 56G-1 | 7/73 | 6.75 | Diagnostic Program Manual Sigma 5/7 Character Oriented Communication Controller |
| 90 11 58C | 2/70 | 2.75 | Diagnostic Program Manual Sigma 5/7 Selector IOP Channel Test |
| SO 11 61B | 7/69 | 2.00 | Diagnostic Program Manual Sigma 5 Integral IOP Channel Test |
| 90 11 9 3C | 11/69 | 5.25 | Diagnostic Program Manual Sigma 7 Freestanding Console Examiner (Face) |
| SO 15 07B | 7/69 | 4.75 | Diagnostic Program Manual Sigma 5/7 Keyboard Display Test 7550/7555 |
| 90 15 09D-1 | 6/73 | 5.50 | Diagnostic Program Manual Sigma 5/7 Data Set Controller Test |
| SO 15 11B | 11/69 | 3.75 | Diagnostic Program Manual Sigma 5/7 Automatic Dialing Equipment (ADE) Test |

HARDWARE DIAGNOSTICS SIGMA 5-9 DIAGNOSTIC MANUALS

| Publication Number | Revision Date | Price | 1 Year 2 Year Subscr. Subscr. |
|-----------------------|------------------|-------|--|
| 90 15 18C-1 | 1/74 | 3.75 | Diagnostic Program Manual Sigma 5/7 Graph Plotter |
| 90 15 35C | 2/70 | 3.75 | Diagnostic Program Manual Sigma 5/7 CFE-3 Program |
| 90 15 50C | 7/69 | 5.75 | Diagnostic Program Manual Sigma 5/7 Remote Batch Terminal Test |
| 90 15 52C | 11/69 | 3.25 | Diagnostic Program Manual Sigma 5/7 Low Speed Card Punch Test |
| 90 16 12C | 1/73 | .50 | Diagnostic Program Manual Sigma 5/7 Removable Disk Storage Test |
| 90 16 16C | 1/73 | .50 | Diagnostic Program Manual Sigma 5/7 Magnetic Tape Test 9-Channel |
| 90 16 20A-19 |) | | Keyboard Printer (ASR/USR) (ASR/KSR) Test |
| 90 16 44D | 4/72 | .50 | Diagnostic Program Manual Sigma 5/7 Graphic Display Test |
| 90 16 63B | 4/70 | .25 | Diagnostic Program Manual Sigma 5/7 Magnetic Tape Library |
| SO 16 64A | 9/69 | 1.25 | Diagnostic Program Manual Sigma 5/7 Magnetic Tape Library Control Program |
| SO 16 68A | 6/70 • · | 1.50 | Diagnostic Program Manual Sigma 5/7 Maintenance Subcontroller Self Test |
| 90 16 69A | 6/70 | 7.00 | Diagnostic Program Manual Sigma 5/7 4-Byte MIOP with Maintenance Subcontroller |
| SO 16 70A | 8/70 | 3.50 | Diagnostic Program Manual Sigma 5/7 SIOP with Maintenance Subcontroller |
| SO 16 78C-2 | 2/74 | .50 | Diagnostic Program Manual Sigma 5-9 Comprehensive RAD Test |
| 90 16 82B | 10/71 | .50 | Diagnostic Program Manual Sigma 5-9 7-Channel Magnetic Tape Test |
| SO 17 54A | 6/71 | 1.00 | Diagnostic Program Manual Sigma 5/9 Comperhensive Line Printer |
| 90 17 55A | 1/72 | .75 | Diagnostic Program Manual Sigma 2/3 Comprehensive Line Printer Test |
| SO 17 61A | 5/72 | .75 | Diagnostic Program Manual Sigma 8/9 High Speed RAD IOP Test |
| 90 18 71A | 5/72 | .75 | Diagnostic Program Manual Sigma Graphic Display Test |
| 90 03 89B | 3/71 | 2.00 | Diagnostic Program Manual Sigma 5/7 System Keyboard Display Diagnostics |

HARDWARE DIAGNOSTICS SIGMA 5-9 DIAGNOSTIC MANUALS

| Publication Number | Revision Date | Price | 1 Year 2 Year Subscr. Subscr. |
|-----------------------|------------------|-------|---|
| 90 19 98B | 11/73 | .75 | Diagnostic Program Manual Sigma 5-9 Rotating Memory Test |
| 90 30 520 | 11/73 | .50 | Diagnostic Program Manual Sigma 5-9 Removable Disk Storage Test |
| 90 30 72A | 4/74 | .50 | Diagnostic Program Manual Sigma 5-9 Line Printer Diagnostic |



PUBLICATIONS - 9 SERIES COMPUTERS

USER PROGRAMMING MANUALS HARDWARE

| PUBLICATION NUMBER | REVISION DATE | PRICE | TITLE |
|--------------------|------------------|---------------|---|
| SO 02 02C | 6/65 | 2.50 | 92 Integrated Computer Reference Manual |
| 90 03 64B | 6/66 | 6.00 | 92 Computer Technical Manual |
| 90 08 648-1 | 12/7- | С | 92 Computer Technical Manual (Revision Package) |
| SO 00 08D | 2/70 | 3.25 | 910 Computer Reference Manual |
| 90 00 04D | 5/66 | 9.00 | 910 Computer Theory of Operation |
| SO 00 18G | 3/67 | 4.65 | 910/925 Programmed Operations Technical Manual |
| SO 00 OSD | 8/69 | 3.25 | 920 Computer Reference Manual |
| SO 00 05 D | 3/66 | 8.40 | 920 Computer Theory of Operation |
| SO 00 93B | 9/66 | 3 .7 5 | 925 Computer Reference Manual |
| SO 08 33A | 6/66 | 6.75 | 925 Computer Technical Manual |
| SO 00 20F | 3/67 | 2.25 | 920/930 Programmed Operators |
| SO 05 61A | 12/65 | 3.50 | 925/930/9300 Computer Interface Design Manual |
| 30 00 64F | 11/69 | 3.75 | 930 Computer Reference Manual . |
| 30 00 ESC | 2/65 | 7.75 | 930 Computer Technical Manual |
| SO 00 50G | 7/69 | 5.25 | 9300 Computer Reference Manual |
| SO 05 70A | 4/65 | 5.00 | 9300 Computer Theory of Operation Manual, Preliminary |
| 20 05 938 | 8/65 | 5.00 | 9300 Computer Opcode Description, Preliminary |
| 90 0S 52 B | 10/67 | С | 9300 Reference Data Card |
| 90 08 400 | 10/69 | 3.50 | 940 Computer Reference Manual |

USER PROGRAMMING MANUALS OPERATING SYSTEMS AND LANGUAGE PROCESSORS

| Publication Number | Revision Date | Price | 1 Year 2 Year Subscr. Subscr. Title and Contents | | | | |
|-----------------------|--------------------------------|------------|---|--|--|--|--|
| *****OPERATIN | *******OPERATING SYSTEMS****** | | | | | | |
| 90 05 66D | 12/69 | 3.00 | 900 Series/9300 Monarch Reference Manual | | | | |
| 90 06 16D | 4/68 | 3.50 | 900 Series/9300 Monarch Technical Manual | | | | |
| 90 11 08E | 10/69 | 2.25 | 900 Series/9300 Real-Time Monitor Reference Manual | | | | |
| 90 11 08E-1 | 12/70 | С | 900 Series/9300 Real-Time Monitor Reference Manual (Corrections) | | | | |
| 90 11 09A | 4/68 | 5.00 | 900 Series/9300 Real-Time Monitor Technical Manual | | | | |
| 90 05 13C | 2/66 | 2.75 | 9300 Monitor Reference Manual | | | | |
| SO 08 84B | 6/67 | 9.75 | 9300 Monitor Technical Manual | | | | |
| ****LANGUAGE | PROCESSOR | Statestate | | | | | |
| 90 10 45B | 2/67 | 3.75 | S00 Series ADAPT Part Programming Reference Manual | | | | |
| 30 0S SSC | 11/66 | 1.50 | ALGOL 60 Reference Manual | | | | |
| 90 10 220 | 10/67 | ·2.75 | 900 Series Business Language Reference Manual | | | | |
| 90 10 43A | 11/65 | 1.25 | S00 Series/9300 Business Language Technical Manual | | | | |
| 90 11 39A | 1/67 | 4.75 | 200 Series CIRC DC User's Manual | | | | |
| 90 10 28 A | 1/67 | 4.75 | 93600 Differential Equation Solver (DES-1) Console Technical Manual | | | | |
| SO 11 41A | 10/65 | 2.00 | DES-1 Differential Equation Solver (Ref. 98 00 65) | | | | |
| SO 00 03D | 12/70 | 3.00 | 300 Series FORTRAN II Reference Manual | | | | |
| 90 05 87B | 7/65 | 1.50 | SOO Series FORTRAN II Operations Manual | | | | |
| 90 10 48D | 1/65 | 1.25 | 900 Series Real-Time FORTRAN II Technical Manual | | | | |
| 30 11 07B | 10/66 | 4.50 | SOO Series/9300 FORTRAN IV Reference Manual | | | | |
| 90 10 46B | 10/67 | 2.50 | 900 Series Manage Reference Manual | | | | |
| SO 10 46B-1 | 4/68 | С | 900 Series Manage Reference Manual (Revision Package 1) | | | | |
| SO 10 46B-2 | 6/68 | С | 900 Series Manage Reference Manual (Revision Package 2) | | | | |

USER PROGRAMMING MANUALS OPERATING SYSTEMS AND LANGUAGE PROCESSORS

| Publication Number | Revision Date | Price | 1 Year 2 Year Subscr. Subscr. Title and Contents |
|-----------------------|------------------|--------------|--|
| 90 10 23A | 11/65 | 1.75 | 300 Series PINT Reference Manual |
| 90 08 18B | 4/65 | 2.00 | Project Management System Reference Manual |
| SO 08 18B-1 | 4/66 | C | Addenda to Xerox Project Management System |
| 90 08 22A | 11/65 | 6.50 | 900 Series/9300 Project Management System Technical Manual |
| 30 15 04A | 7/68 | 3.00 | 900 Series/9300 Extended Project Management System Reference Manual |
| 90 0 9 97B | 7/66 | 1.00 | 900 Series/9300 Sort/Marge Reference Manual |
| 90 10 44A | 11/65 | 1.50 | 900 Series/9300 Sort/Marge Technical Manual |
| 20 05 06G | 3/69 | 3.50 | 300 Series/9300 Symbol/Mata-Symbol Reference Manual |
| 288 80 08 | 7/67 . | 4.25 | S00 Series Symbol Technical Manual |
| 90 08 27 B | 10/67 | 17.00 | S00 Series/9300 Meta-Symbol Technnical Manual |
| 90 08 27B-1 | 7/71 | С | 900 Series/9300 Meta-Symbol Technical Manual Revision Package) |
| SO 08 82A | 6/65 | 1.75 | 9300 FORTRAN IV Operations Manual |
| 90 08 83 A | 8/65 | 5.25 | 9300 FORTRAN IV Technical Manual |
| SO 08 87B | 11/65 | 5.00 | 9300 Symbol Technical Manual |
| SO 11 10C | 1/69 | 1.75 | 940 Time-Sharing System FORTRAN II Reference Manual |
| 90 11 16D | 9/69 | 5.2 5 | 940 Time-Sharing System (Version 4.0) Technical Manual |
| SO 11 11C | 8/68 | 1.00 | 940 BASIC Reference Manual |
| SO 11 14A | 6/67 | 1.50 | 940 CAL Reference Manual |
| 90 15 79A | 1/69 | 2.50 | 940 Conversational FORTRAN Reference Manual |
| 90 11 13 | 11/68 | 1.00 | 940 DDT Reference Manual |
| 90 11 42A | 3.67 | .50 | 940 FORTRAN II Technical Notes . |
| 90 11 12B | 1/69 | . 75 | 940 QED Reference Manual |
| 90 11 17B | 11/68 | 1.50 | 940 TAP Reference Manual |

PUBLICATIONS - 9 SERIES COMPUTERS

USER PROGRAMMING MANUALS OPERATING SYSTEMS AND LANGUAGE PROCESSORS

| Publication Number | | Price | 1 Year 2 Year Subscr. Subscr. Title and Contents |
|-----------------------|------|-------|--|
| 90 11 18B | 4/68 | .75 | 940 Terminal User's Guide |
| 90 11 54A | 4/67 | .50 | RAD/Tape System Generation Technical Notes |

HARDWARE DIAGNOSTICS

| | Publication Number | Revision Date | Price | 1 Year 2 Year Subscr. Subscr. Title and Contents |
|---|-----------------------|------------------|-------|--|
| | 30 08 78B | 5/66 | 6.00 | 92 Computer Examiner Diagnostic System Technical Manual |
| | 90 00 19C | 9/64 | 4.50 | 910/920 Examiner Diagnostic System |
| | 90 00 19C-1 | 12/65 | С | 910/920 Examiner Diagnostic System (Revision Package) |
| | 90 06 49 A | 4/65 | 6.50 | 925 Computer Examiner Diagnostic System Technical Manual |
| | 90 00 97B | 9/65 | 13.50 | 930 Examiner Diagnostic Technical Manual (Volume I) |
| ; | 90 0S 24B | 2/66 | 25.00 | 9300 Computer Examiner Diagnostic System Technical Manual |
| ; | 30 00 97A | 10/64 | 10.00 | 930 Examiner Diagnostic Technical Manual (Volume II) |
| ! | 30 06 34A | 7/66 | 12.50 | 940 Computer Diagnostic System Technical Manual |
| 9 | 30 06 34A-1 | 2/67 | С | 940 Computer Diagnostic System (Revision Package) |
| Ç | 30 11 69 A | 5/67 | 7.75 | 940 Computer System Exerciser Programming Technical Manual (Ref. 98 02 52) |
| Ş | 30 15 91A | 2/69 | 1.50 | 940 OLDS Diagnostic System Reference Manual |



USER PROGRAMMING MANUALS HARDWARE

| PUBLICATION NUMBER | REVISION DATE | PRICE | TITLE |
|--------------------|------------------|-------|---|
| 90 05 05C | 6/65 | 2.50 | 92 Integrated Computer Reference Manual |
| 90 08 64B | 6/66 | 6.00 | 92 Computer Technical Manual |
| 90 08 64B-1 | 12/7- | С | 92 Computer Technical Manual (Revision Package) |
| 90 00 08D | 2/70 | 3.25 | 910 Computer Reference Manual |
| 90 00 04D | 5/66 | 9.00 | 910 Computer Theory of Operation |
| 90 00 18G | 3/67 | 4.65 | 910/925 Programmed Operations Technical Manual |
| 90 00 090 | 8/69 | 3.25 | 920 Computer Reference Manual |
| 90 00 050 | 3/66 | 8.40 | 920 Computer Theory of Operation |
| 90 00 998 | 9/66 | 3.75 | 925 Computer Reference Manual |
| 90 06 33A | 6/66 | 6.75 | 925 Computer Technical Manual |
| 90 00 20F | 3/67 | 2.25 | 920/930 Programmed Operators |
| 90 05 61A | 12/65 | 3.50 | 925/930/9300 Computer Interface Design Manual |
| 90 00 64F | 11/69 | 3.75 | 930 Computer Reference Manual |
| 90 00 660 | 2/66 | 7.75 | 930 Computer Technical Manual |
| 90 00 50G | 7/69 | 5.25 | 9300 Computer Reference Manual |
| 90 05 70A | 4/65 | 5.00 | 9300 Computer Theory of Operation Manual, Preliminary |
| 90 05 938 | 8/65 | 5.00 | 9300 Computer Opcode Description, Preliminary |
| 90 06 52B | 10/67 | С | 9300 Reference Data Card |
| 90 06 400 | 10/69 | 3.50 | 940 Computer Reference Manual |

USER PROGRAMMING MANUALS OPERATING SYSTEMS AND LANGUAGE PROCESSORS

| PUBLICATION REVISION NUMBER DATE PRICE | | PRICE | TITLE |
|--|------------|--------|---|
| ******OPERATIN | G SYSTEMS* | iddi | |
| 90 05 66D | 12/69 | 3.00 | 900 Series/9300 Monarch Reference Manual |
| 90 06 16D | 4/68 | 3.50 | 900 Series/9300 Monarch Technical Manual |
| 90 11 08E | 10/69 | 2.25 | 900 Series/9300 Real-Time Monitor Reference Manual |
| 90 11 08E-1 | 12/70 | С | 900 Series/9300 Real-Time Monitor Reference Manual (Corrections) |
| 90 11 09A | 4/68 | 5.00 | 900 Series/9300 Real-Time Monitor Technical Manual |
| 90 05 130 | 2/66 | 2.75 | 9300 Monitor Reference Manual |
| 90 08 84B | 6/67 | 9.75 | 9300 Monitor Technical Manual |
| ******LANGUAGE | PROCESSOR | Siddak | |
| 90 10 45B | 2/67 | 3.75 | 900 Series ADAPT Part Programming Reference Manual |
| 30 06 99 C | 11/66 | 1.50 | ALGOL 60 Reference Manual |
| 90 10 22C | 10/67 | 2.75 | 900 Series Business Language Reference Manual |
| 90 10 43A | 11/65 | 1.25 | 900 Series/9300 Business Language Technical Manual |
| 90 11 39A | 1/67 | 4.75 | 900 Series CIRC DC User's Manual |
| 90 10 28A | 1/67 | 4.75 | 93600 Differential Equation Solver (DES-1) Console Technical Manual |
| 90 11 41A | 10/65 | 2.00 | DES-1 Differential Equation Solver (Ref. 98 00 65) |
| 90 00 03D | 12/70 | 3.00 | 900 Series FORTRAN II Reference Manual |
| 90 05 87B | 7/66 | 1.50 | 900 Series FORTRAN II Operations Manual |
| 90 10 48D | 1/66 | 1.25 | 900 Series Real-Time FORTRAN II Technical Manual |
| 90 11 07B | 10/66 | 4.50 | 900 Series/9300 FORTRAN IV Reference Manual |
| 90 10 46B | 10/67 | 2.50 | 900 Series Manage Reference Manual |
| 90 10 46B-1 | 4/68 | С | 900 Series Manage Reference Manual (Revision Package 1) |
| 90 10 46B-2 | 6/68 | С | 900 Series Manage Reference Manual (Revision Package 2) |

USER PROGRAMMING MANUALS OPERATING SYSTEMS AND LANGUAGE PROCESSORS

| • | | | |
|-----------------------|---------------|-------|--|
| PUBLICATION NUMBER | REVISION DATE | PRICE | TITLE |
| 90 10 23A | 11/65 | 1.75 | 900 Series PINT Reference Manual |
| 90 08 18B | 4/65 | 2.00 | Project Management System Reference Manual |
| 90 08 18B-1 | 4/66 | C | Addenda to Xerox Project Management System |
| 90 08 22A | 11/65 | 6.50 | 900 Series/9300 Project Management System Technical Manual |
| 90 15 04A | 7/68 | 3.00 | 900 Series/9300 Extended Project Management System Reference Manual |
| 90 09 97B | 7/66 | 1.00 | 900 Series/9300 Sort/Merge Reference Manual |
| 90 10 44A | 11/65 | 1.50 | 900 Series/9300 Sort/Merge Technical Manual |
| 90 05 06G | 3/69 | 3.50 | 900 Series/9300 Symbol/Meta-Symbol Reference Manual |
| 90 06 880 | 7/67 | 4.25 | 900 Series Symbol Technical Manual |
| 90 08 27B | 10/67 | 17.00 | 900 Series/9300 Meta-Symbol Technnical Manual |
| 90 08 27B-1 | 7/71 | С | 900 Series/9300 Meta-Symbol Technical Manual Revision Package) |
| 90 08 82A | 6/65 | 1.75 | 9300 FORTRAN IV Operations Manual |
| 90 08 83A | 8/65 | 5.25 | 9300 FORTRAN IV Technical Manual |
| 90 06 87B | 11/66 | 5.00 | 9300 Symbol Technical Manual |
| 90 11 10C | 1/69 | 1.75 | 940 Time-Sharing System FORTRAN II Reference Manual |
| 90 11 16D | 9/69 | 5.25 | 940 Time-Sharing System (Version 4.0) Technical Manual |
| 90 11 11C | 8/68 | 1.00 | 940 BASIC Reference Manual |
| 90 11 14A | 6/67 | 1.50 | 940 CAL Reference Manual |
| 90 15 79A | 1/69 | 2.50 | 940 Conversational FORTRAN Reference Manual |
| 90 11 13 | 11/68 | 1.00 | 940 DDT Reference Manual |
| 90 11 42A | 3.67 | .50 | 940 FORTRAN II Technical Notes |
| 90 11 12B | 1/69 | .75 | 940 QED Reference Manual |
| 90 11 17B | 11/68 | 1.50 | 940 TAP Reference Manual |
| 90 11 18B | 4/68 | .75 | 940 Terminal User's Guide |

USER PROGRAMMING MANUALS OPERATING SYSTEMS AND LANGUAGE PROCESSORS

| NUMBER | | PRICE | TITLE |
|-----------|------|-------|---|
| 90 11 54A | 4/67 | .50 | RAD/Tape System Generation Technical Note |

HARDWARE DIAGNOSTICS

| PUBLICATION NUMBER | REVISION DATE | PRICE | TITLE |
|-----------------------|------------------|-------|--|
| 90 08 78B | 5/66 | 6.00 | 92 Computer Examiner Diagnostic System Technical Manual |
| 90 00 190 | 9/64 | 4.50 | 910/920 Examiner Diagnostic System |
| 90 00 19C-1 | 12/65 | С | 910/920 Examiner Diagnostic System (Revision Package) |
| 90 06 49A | 4/65 | 6.50 | 925 Computer Examiner Diagnostic System Technical Manual |
| 90 00 97B | 9/65 | 13.50 | 930 Examiner Diagnostic Technical Manual (Volume I) |
| 90 06 24B | 2/66 | 25.00 | 9300 Computer Examiner Diagnostic System Technical Manual |
| 90 00 97A | 10/64 | 10.00 | 930 Examiner Diagnostic Technical Manual (Volume II) |
| 90 06 34A | 7/66 | 12.50 | 940 Computer Diagnostic System Technical Manual |
| 90 06 34A-1 | 2/67 | С | 940 Computer Diagnostic System (Revision Package) |
| 90 11 69A | 5/67 | 7.75 | 940 Computer System Exerciser Programming Technical Manual (Ref. 98 02 52) |
| 90 15 91A | 2/69 | 1.50 | 940 OLDS Diagnostic System Reference Manual |

REF: SD6-75-5129



June 30, 1975

TO: PAL MANUAL HOLDERS

Teresa Wai

The attached is update 75.03 to the PAL Manual. It lists programs and publications inserted, deleted, or updated during the months of February through May, 1975.

Teresa Wai

Software and Publications Distribution

bk

attachment

PAL CHANGES
For period of February 1, 1975, through May, 1975

I. PROGRAMS INSERTED

| Catalog | No. | Class | Title | | Elements Released |
|---------|-----|-------|-----------------------------|--------------------------------------|-------------------------------|
| 706490 | A00 | В3 | Sigma 2/3, Xerox 530 | DA42 Diagnostic | -11, -44, -84 |
| 706502 | A00 | B1 | Xerox 530 | Hard Core Cartridge Disk Test | -11, -83 |
| 706503 | A00 | B2 | Sigma 6, 9, Xerox 560 | Interactive Graphics System for CP-V | -11, -76 Restricted |
| 706505 | A00 | В2 | Sigma 9, Xerox 550/560 | Interactive Graphics System for CP-R | -11, -44, -64, -76 Restricted |
| 706506 | A00 | В3 | Sigma 2/3, Xerox 530 | SCU SC411 Comm Hand1 | -11, -44, -83 |
| 706507 | A00 | В3 | Sigma 5-9 | Parameter Generation Routine | -11, -26/36/86 |
| 706514 | A00 | В3 | Xerox 560 | Info | -11, -26/36 |
| 706516 | A00 | В3 | Sigma 5-9, Xerox 550/560 | Character ROM Matrix for ISD 10/20 | -11, -34 |
| 706517 | A00 | В3 | Sigma 5-9, Xerox 550/560 | Character ROM Matrix Generator | -11, -24, -34 |
| 720019 | A00 | В1 | Xerox 530 | NS Magnetic Tape Diagnostic | -11, -84 |
| 720025 | A00 | B1 | Xerox 530 | Rapid Access Disk (RAD3) | -11, -34 |
| 720026 | A00 | B1 | Xerox 530 | Cartridge Disk Device | -11, -84 |
| 720027 | A00 | B1 | Xerox 530 | Magnetic Tape Library | -11, -46, -56, -86 |
| 720028 | A00 | B1 | Xerox 530 | 16-Bit EDIT (DPS) | -11 |
| 720029 | A00 | B1 | Xerox 530 | Optional Diagnostic (OPTL) | -11, -84 |

| Catalog | No. | Class | Title | | Elements Released |
|---------|-----|-------|-------------------------|----------------------------------|--------------------|
| 720030 | A00 | B1 | Xerox 530 | Memory Diagnostic (MEMO) | -11, -84 |
| 720031 | | B1 | Xerox 530 | Interrupt Diagnostic (INTR) | -11, -84 |
| 720032 | A00 | B1 | Xerox 530 | Instruction Diagnostic (INSTR) | -11, -84 |
| 720033 | A00 | B1 | Xerox 530 | Manual Control Diagnostic (MANL) | -11, -84 |
| 720034 | A00 | B1 | Xerox 530 | IOP Diagnostic (IOPS) | -11, -84 |
| 730026 | A00 | B1 | Xerox 550/560 | RAD 6 | -11, -84 |
| 730027 | A00 | B1 | Xerox 550/560 | Cartridge Disk Diagnostic | -11, -84 |
| 880612 | A00 | В3 | Sigma 2/3, Xerox 530 | SCU Analog Exerciser | -11, -44, 84 |
| 880630 | A00 | В3 | Sigma 2/3 Xerox 530 | SCU Utility Program | -11, -44, -83, -84 |
| 880633 | A00 | В3 | Xerox SCU | Memory Unit Test (SUPERCRUNCH) | -11/51, -44 |
| 890917 | A00 | В3 | Sigma 5/7/9 | 560 Greeter | -11, -36/76/86 |
| 890979 | A00 | В3 | Sigma 7 | Simple Debug Routine | -11, -34 |
| 890982 | A00 | В3 | Sigma 5 | HP RT Exerciser Cross Assembler | -11, -36/76 |
| 890984 | A00 | В3 | Sigma 9 | TUF - A Tape Unfouler | -11, -44 |
| 890985 | A00 | В3 | Sigma 5/9 | SLR1 Analyzer | -11, -34 |
| 890986 | A00 | В3 | Sigma 5/9 | Please | -02, -11, -36 |
| 890987 | A00 | В3 | Sigma 5/9 | Patches | -11, -34 |
| 890988 | A00 | В3 | Sigma 3 | Trace/Snap Callable by FORT | -11, -36/76 |
| | | | | | |

II. NEW VERSIONS OF EXISTING PROGRAMS

| Catalog | No. | Class | Title | | Elements Released |
|---------|-----|-------|-----------------------------|---|---------------------------|
| 704050 | D00 | B1 | Sigma 5/9, Xerox 550/560 | Xerox 32-bit Plot | -61, -84 |
| 704211 | C01 | B1 | Sigma 5-9, Xerox 550/560 | 7930/31/35 SIU | -44, -61, -84 |
| 705368 | G00 | B1 | Sigma 2/3 Xerox 530 | Real-Time Batch Monitor | -11, -91, -86/26/46/56 |
| 705392 | B01 | B1 | Sigma 9, Xerox 550/560 | 7923/28/29 SIU Diagnostic Program | -44, -61, -84 |
| 705732 | C04 | B1 | Sigma 5-9 | Real-Time Batch Monitor | -11, -46, -84/74, -86/76 |
| 705886 | A01 | B1 | Sigma 5-9, Xerox 550/560 | CC32 Diagnostic Program | -44, -61, -84 |
| 705888 | E04 | B1 | Sigma 5-9 Xerox 560 | COBOL, Part of SST (880832), Orderable through Field Office | -66 Restricted |
| 706102 | F00 | B1 | Sigma 6-9 Xerox 560 | Xerox Sort/Merge, Part of SST (880832), Orderable through Field Office | -11/71, -26/46/76 |
| 706173 | A02 | B1 | Sigma 5-9 Xerox 550/560 | 7902 EDSC Diagnostic | -24, -44, -61 |
| 706230 | A03 | B1 | Sigma 5-9 Xerox 550/560 | DMS-12 Diagnostic Program | -44, -61, -84 |
| 706436 | C00 | В3 | Sigma 6/7/9, Xerox 560 | CCS | -11, -36/46/86, -36/46 |
| 706466 | В00 | B1 | Sigma 6/7/9, Xerox 560 | IDP | -11/61/71, -91, -26/46/76 |
| 706469 | A01 | В1 | Sigma 5-9 Xerox 550/560 | 7907 Diagnostic Program | -44, -61, -84 |

| Catalog | No | Class | Title | | Elements Released |
|---------|-----|-------|---------------------------|---|-------------------------------|
| Catalog | NO. | Class | 11010 | | |
| 706491 | A01 | B1 | Sigma 3, Xerox 530 | Xerox Satellite Processor | -11, -24, -26 |
| 706500 | A03 | В1 | Sigma 3, Xerox 530 | Xerox 530 ANS COBOL, Part of SST (880816), Orderable through Field Office | -26/76, -61 |
| 706514 | A01 | В3 | Sigma 5/6/9, Xerox 560 | Info | -11, -26/36 |
| 707000 | C01 | В1 | Sigma 6/7/9, Xerox 560 | CP-V | -61, -91, -26/46/66, -56, -59 |
| 720008 | B02 | В1 | Xerox 530 | DPS Library Loader | -61, -84 |
| 720009 | C00 | B1 | Xerox 530 | Mag Tape Library | Replaced by 720027 |
| 720014 | A03 | B1 | Xerox 530 | System Exerciser | -61, -84 |
| 720015 | A02 | B1 | Xerox 530 | DPS Lag | -61, -84 |
| 720016 | A02 | B1 | Xerox 530 | DPS Monitor | -61, -84 |
| 720019 | A01 | B1 | Xerox 530 | NS Mag Tape Diagnostic | -61, -84 |
| 720020 | A01 | B1 | Xerox 530 | NS Line Printer Diagnostic | -11, -84 |
| 720026 | A01 | B1 | Xerox 530 | Cartridge Disk Device | -61, -84 |
| 730000 | A01 | В1 | Xerox 550/560 | AUTO | -61, -84 |
| 730001 | A01 | B1 | Xerox 550/560 | SUFX | -61, -84 |
| 730002 | A01 | B1 | Xerox 550/560 | FADS | -61, -84 |
| 730004 | A01 | B1 | Xerox 550/560 | Мар | -61, -84 |
| 730005 | A01 | B1 | Xerox 550/560 | MIOP | -61, -84 |
| 730006 | A01 | В1 | Xerox 560 | Interrupt | -61, -84 |

| | | | | | rage 3 01 |
|--------|--------|-------|-----------------------------|------------------------------|--------------------|
| Catalo | og No. | Class | S Title | | Elements Released |
| | | | | | |
| 730009 | 9 A01 | B1 | Xerox 550/560 | SUPI | -61, -84 |
| 730010 | A01 | B1 | Xerox 550/560 | System Exerciser | -61, -84 |
| 730012 | 2 A01 | B1 | Xerox 550/560 | DPS Monitor | -61, -84 |
| 730013 | 3 A01 | B1 | Xerox 550/560 | Load and Go | -61, -84 |
| 730016 | 6 A01 | B1 | Xerox 550/560 | Medium Speed Mag Tape | -11, -84 |
| 730017 | 7 A01 | B1 | Xerox 550/560 | NS Line Printer Diagnostic | -11, -84 |
| 730021 | A01 | B1 | Xerox 550/560 | Trap | -61, -84 |
| 730023 | 3 A01 | B1 | Xerox 550/560 | Byte | -61, -84 |
| 730024 | A01 | B1 | Xerox 550/560 | DECM | -61, -84 |
| 730025 | A01 | B1 | Xerox 560 | Mag Tape Library | -46, -56, -61, -86 |
| 730029 | A01 | B1 | Xerox 550/560 | System Control Console | -61, -84 |
| 880550 | C00 | B1 | Xerox 1200 | Diagnostic Software System | -11, -86/16, -56 |
| 880608 | B00 | В3 | Xerox SCU | SCU Vector General Interface | -11, -44, -84 |
| 890812 | B00 | В3 | Sigma 5-9, Xerox 550/560 | CP-R/RBM-32 | -11, -26/36/46 |
| 890958 | A01 | В3 | Sigma 5/9 | System RBM | -11, -34 |
| 890916 | B00 | В3 | Sigma 6/7/9 | FRAN | -11, -26/36 |
| 890923 | В00 | В3 | Sigma 5-9 | XPL/S Compiler | -11, -26/36/46 |
| 890934 | B00 | В3 | Sigma 5/9 | XPLSREF | -11, -34 |
| 890935 | B00 | В3 | Sigma 5-9 | XPLSFMT | -11, -34 |
| 890936 | В00 | В3 | Sigma 5-9 | Merge | -11, -34 |
| 890959 | B00 | В3 | Sigma 5/9 | System XPL/s | -11, -44 |
| | | | | | |

III. PROGRAMS DELETED

| Catalog | No. | Class | Title | | Elements Released | |
|---------|-----|-------|---------------------|------------------------------------|-------------------|--|
| 705862 | F00 | В3 | Sigma 5-9 | Revised Mag Tape Copy | -11, -24, -44 | |
| 706477 | A00 | B1 · | Sigma 2/3, Xerox 53 | O Exerciser Control Program | -11, -84 | |
| 706478 | A00 | B1 | Sigma 2/3, Xerox 53 | O Card Reader/Card Punch Exerciser | -11, -74, -84 | |
| 706479 | A00 | B1 | Sigma 2/3, Xerox 53 | O Line Printer Exerciser | -11, -84 | |
| 706480 | A00 | B1 | Sigma 2/3, Xerox 53 | 0 Mag Tape Exerciser | -11, -84 | |
| 706482 | A00 | B1 | Sigma 2/3, Xerox 53 | O Control Program for ELLA | -11, -84 | |
| 706483 | A00 | B1 | Sigma 2/3, Xerox 53 | O Chronological List Mod for ELLA | -11, -84 | |
| 706484 | A01 | B1 | Sigma 2/3, Xerox 53 | O Bndry Routine for ELLA | -11, -61, -84 | |
| 706485 | A00 | B1 | Sigma 2/3, Xerox 53 | O Grphcl Disp Mod for ELLA | -11, -84 | |
| 706486 | A00 | B1 | Sigma 2/3, Xerox 53 | O Summary Mod for ELLA | -11, -84 | |
| 706487 | A00 | B1 | Sigma 2/3, Xerox 53 | 0 Srtd List Mod for ELLA | -11, -84 | |

PROGRAMMING PUBLICATION CHANGES

NEW MANUALS

| Publication Number | Revision Date | Price | 1-Year Subscr. | 2-Year Subscr. | <u>Title</u> |
|-----------------------|---------------|-------|-------------------|-------------------|---|
| 90 31 16A | 4/75 | 2.00 | 2.40 | 4.00 | Xerox Cartridge Disk System/Reference Manual (Models 3211/3242/3243) |
| | | | | | Describes external programming and operating characteristics of cartridge disk system and is intended for use by assembly and machine language programmers. |
| | | | · | | Contents: General description, functional description, program interface, operations. |
| 90 31 17A | 3/75 | 1.50 | 1.80 | 3.00 | Xerox RAD Storage System/Reference Manual (Models 3211/3214) |
| | | | | | Describes external programming and operating characteristics of the RAD and is intended for use by assembly and machine language programmers. |
| | | | | | Contents: General description, functional description, program interface, operations. |
| 90 31 28A | 1/75 | 1.50 | 1.80 | 3.00 | Xerox Console Typewriter/Reference Manual (Models 4592/4692) |
| | | | | | Describes external programming and operating characteristics of console typewriter and is intended for use by assembly and machine language programmers. |
| , | | | | | Contents: General description, functional description, program interface, operations, translation tables. |

| Publication Number | Revision | Price | 1-Year Subscr. | 2-Year Subscr. | <u>Title</u> |
|-----------------------|----------|-------|-------------------|-------------------|--|
| 90 31 29A | 1/75 | 1.25 | 1.50 | 2.50 | Xerox Keyboard Printer (KSR)/Reference Manual (Models 4591/4691) |
| | | | | | Describes external programming and operating characteristics of keyboard printer and is intended for use by assembly and machine language programmers. |
| | | | | | Contents: General description, functional description, program interface, operations, translation tables. |
| 90 30 92 | 2/75 | 1.75 | 2.10 | 3.50 | Xerox Magnetic Tape System/Reference Manual (Models 3340/3345/3347/1047) |

Describes external programming characteristics of magnetic tape unit and is intended for use by assembly and machine language programmers.

Contents: General description, functional description, program interface, operations.

REVISED MANUALS

| Publication Number | Revision Date | Price | 1-Year Subscr. | 2-Year Subscr. | <u>Title</u> |
|-----------------------|------------------|-------|-------------------|-------------------|---|
| 90 09 07F | 3-2 5/75 | С | С | С | Xerox Control Program-Five (CP-V)/TS Reference Manual (Xerox 560 and Sigma 6/7/9) |
| | | | | | Software Version: C01 |
| | • | | | | This revision package documents the CO1 version of CP-V. |
| 90 09 56F | 4/75 | 6.50 | 9.10 | 14.30 | Xerox Extended FORTRAN IV/LN Reference Manual (Xerox 550/560 and Sigma 5-9) |
| | | | | | Software Version: F00 |
| | | | | | This edition documents the FOO version of Extended FORTRAN IV. |
| 90 10 37I | 2/75 | 6.50 | 10.40 | 15.60 | Xerox Real-Time Batch Monitor (RBM)/RT, BP Reference Manual (Xerox 530 and Sigma 2/3) |
| | | | | | Software Version: G00 |
| | | | | | This edition documents the GOO version of RBM. |
| 90 11 43E | 3/75 | 5.00 | 7.00 | 11.00 | Xerox Extended FORTRAN IV/OPS Reference Manual (Xerox 550/560 and Sigma 5-9) |
| | | | | | Software Version: F00 |
| | | | | | This edition documents the FOO version of Extended FORTRAN IV. |

| Publication Number | Revision Date | Price | 1-Year Subscr. | 2-Year Subscr. | <u>Title</u> |
|-----------------------|---------------|-------|-------------------|-------------------|---|
| 90 11 53F | 2/75 | 8.75 | 14.00 | 21.00 | Xerox Real-Time Batch Monitor (RBM)/System Technical Manual (Xerox 530 and Sigma 2/3) |
| | | | | | Software Version: G00 |
| | | | | | This edition documents the GOO version of RBM. |
| 90 15 55G | 11/74 | 1.75 | 2.80 | 4.20 | Xerox RBM OPS Reference Manual (Xerox 530 and Sigma 2/3) |
| | | • | | | Software Version: G00 |
| | | | | | This edition documents the G00 version of the software. |
| 90 15 81 | 2/75 | 8.50 | 13.60 | 20.40 | Xerox Real-Time Batch Monitor (RBM)/RT, BP Reference Manual (Sigma 5-9) |
| | | | | | Software Version: C04 |
| | | | | | This edition documents the CO4 version of RBM. |
| | | | | | |
| 90 16 47F | 2/75 | 1.50 | 2.40 | 3.60 | Xerox Real-Time Batch Monitor (RBM)/OPS Reference Manual (Sigma 5-9) |
| | | | | | Software Version: C04 |
| | | | | | This edition documents the CO4 version of RBM. |

| Publication Number | Revision Date | Price | 1-Year Subscr. | 2-Year Subscr. | <u>Title</u> |
|-----------------------|---------------|-------|-------------------|-------------------|--|
| 90 16 53C | 2/75 | 4.25 | 6.80 | 10.20 | Xerox Real-Time Batch Monitor (RBM)/RT, BP User's Guide (Sigma 5-9) |
| | | | | | Software Version: CO4 |
| | | | | | This edition documents the CO4 version of RBM. |
| 90 16 74G- | 1 4/75 | С | С | С | Xerox Control Program-Five (CP-V)/SM Reference Manual (Xerox 560 and Sigma 6/7/9) |
| | | | | | Software Version: C00 |
| | | | | | This revision package documents the CO1 version of CP-V. |
| 90 16 75G-1 | 4/75 | С | С | С | Xerox Control Program-Five (CP-V)/OPS Reference Manual (Xerox 560 and Sigma 6/7/9) |
| | | | | | Software Version: CO1 |
| | | | | | This revision package documents the CO1 version of CP-V. |
| 90 16 92D-3 | 5/75 | С | С | С | Xerox Control Program-Five (CP-V)/TS User's Guide (Xerox 560 and Sigma 6/7/9) |
| | | | | | Software Version: C01 |
| | | | | | This revision package documents the CO1 version of CP-V. |

| Publication Number | Revision Date | Price | 1-Year Subscr. | 2-Year Subscr. | <u>Title</u> |
|-----------------------|---------------|-------|-------------------|-------------------|--|
| 90 16 97B | 12/74 | 4.00 | 5.60 | 8.80 | Xerox CIRC-DC Reference Manual (Sigma 5-9) |
| | | | | | Software Version: B00 |
| | | | | | This edition merely incorporates the 90 16 97A-1 revision package into the manual. There are no technical changes. |
| 90 17 49A-3 | 11/74 | С | С | С | Xerox Sigma 8 Computer/Reference Manual |
| | | | | | This revision package contains a number of corrections to the computer reference manual. |
| 90 17 64F | F-1 5/75 | С | С | С | Xerox Control Program-Five (CP-V)/BP Reference Manual (Xerox 560 and Sigma 6/7/9) |
| | | | | | Software Version: C01 |
| | | | | | This revision package documents the CO1 version of CP-V. |
| 90 18 03C- | 2 4/75 | С | С | С | Xerox CP-V Overlay Loader/Technical Manual (Sigma 5-9) |
| | | | | | Software Version: CP-V (CO1) BPM (HO1) |
| | | | | | This revision package documents the CO1 version of the loader for CP-V and the HO1 version of the loader for BPM. |

| Publication Number | Revision Date | Price | 1-Year Subscr. | 2-Year Subscr. | <u>Title</u> |
|-----------------------|---------------|-------|-------------------|-------------------|---|
| 90 18 41B-1 | 2/75 | С | С | C | Xerox Report Program Generator II (RPGII)/LN and OPS Reference Manual (Xerox 530 and Sigma 3) |
| | | | | | Software Version: C03 |
| | | | | | This revision package documents the CO3 version of RPGII. |
| 90 18 51B | 11/74 | 3.25 | 4.55 | 7.15 | Xerox TEXT LN, OPS Reference Manual (Xerox 560 and Sigma 6/7/9) |
| | | | | | Software Version: A02 |
| | | | | | This edition documents the AO2 version of TEXT. |
| 90 19 95C- | 1 5/75 | C | С | C | Xerox Control Program-Five (CP-V)/DB Reference Manual (Xerox 560 and Sigma 6/7/9) |
| | | | | | Software Version: C01 |
| | | | | | This revision package documents the CO1 version of the software. |
| 90 30 26B-2 | 4/75 | С | С | С | Xerox Control Program-Five (CP-V)/RP Reference Manual (Xerox 560 and Sigma 6/7/9) |
| | | | | | Software Version: C01 |
| | | | | | This revision package documents the CO1 version of CP-V. |

| Publication Number | Revision Date | Price | 1-Year Subscr. | 2-Year Subscr. | <u>Title</u> |
|--------------------|---------------|-------|-------------------|-------------------|---|
| 90 30 36C | 1/75 | 2.00 | 3.20 | 4.80 | Xerox Real-Time Batch Monitor (RBM)/SM Reference Manual (Xerox 530 and Sigma 2/3) |
| | | - | | | Software Version: G00 |
| | | | | | This edition documents the GOO version of RBM. |
| 90 30 66B | 4/75 | 2.25 | 3.15 | 4.95 | Xerox Interactive Database Processor/LN, OPS Reference Manual (Xerox 560 and Sigma 6/7/9) |
| | | | | | Software Version: B00 |
| • | | | | | This edition documents the BOO version of the IDP processor. |
| 90 30 78B | 1/75 | 3.75 | 6.00 | 9.00 | Xerox Satellite Processor/OPS Reference Manual (Xerox 530 and Sigma 3) |
| | • | | | | Software Version: A01 |
| | | | | | This edition documents the A01 version of the Satellite Processor. |
| 90 30 80B | 12/74 | 2.25 | 3.60 | 5.40 | Xerox Control Program-Five (CP-V)/ Common Index (Sigma 6/7/9) |
| | | | | | Software Version: C00 |
| | | | | | This edition indexes the COO CP-V manuals. |

| Publication Number | Revision Date | Price | 1-Year Subscr. | 2-Year Subscr. | <u>Title</u> |
|-----------------------|---------------|-------|-------------------|-------------------|---|
| 90 30 87B | 11/74 | 5.50 | 8.80 | 13.20 | Xerox CP-R RT User's Guide (Xerox 550 and Sigma 9) |
| | | | | | Software Version: C00 |
| | | | | | This edition documents the COO edition of CP-R. |
| 90 30 88B | 2/75 | 14.00 | 22.40 | 33.60 | Xerox Control Program for Real-Time (CP-R)/System Technical Manual (Sigma 9) |
| | | | | | Software Version: C00 |
| | | | | | This edition documents the COO version of CP-R. |
| 90 31 12 | 4/75 | С | С | С | Xerox Control Program-Five (CP-V)/TP Reference Manual (Xerox 560 and Sigma 6/7/9) |
| | | | | | Software Version: C01 |
| | | | | | This revision package documents the CO1 version of CP-V. |
| 90 31 13A-1 | . 5/75 | С | С | С | Xerox Control Program-Five (CP-V)/SP Reference Manual (Xerox 560 and Sigma 6/7/9) |
| | | | | | Software Version: C00 |
| | | | | | This revision package documents the CO1 version of CP-V. |

Inter-Office Memorandum

Distribution To

Date

May 7, 1975

From

Lynn Wagner

Location

A1-03/Ext. 1492

Subject New Status Code

Organization Technical Support 75-4384

XEROX

When people in the field display a SIDR for status there is no way to tell if it's waiting for documentation. So we have created a new status class to mean Pending Documentation. This will allow a disposition to state that the documentation was requested. If after 45 days no documentation is received, the SIDR will be closed for insufficient information.

Therefore, there will be two events for which a SIDR may be pending. It may be Pending a release or Pending Documentation. When displaying the SIDR the revision level field will reflect a version if it is pending a release or it will reflect DOC if it is pending documentation. Any further information will be located in the disposition commentary of the SIDR.

If you have any questions, feel free to contact me at 679-4511 ext. 1492.

Gynn Wagner
Lynn Wagner

/br

Xerox Corporation 701 South Aviation Boulevard El Segundo, California 90245 213 679-4511



June 6, 1975

REF: SD6-75-5113

TO: ALL PAL MANUAL HOLDERS

SUBJECT: New Direct Distribution System (DDS) Procedure

As you know, we provide a Direct Distribution System (DDS) whereby you automatically receive major items of software that you are registered for and their subsequent revisions as soon as they are available. However, many of you have advised us that, even though we send you a revision to a software product, it may go unused.

Since this is wasteful of both time and money for both of us, we are altering DDS procedures. Rather than automatically sending a new version or revision, we will notify all of those registered for that particular product of its pending availability. The notification, which is usually a Business Reply Letter, will give the new release's contents and ordering instructions for customers who wish to install it. All registered field offices, however, will still receive the appropriate elements automatically. As soon as these shipments are completed, we will begin shipping to the customer sites that have sent us their order request. As previsouly stated, the order request will be a Business Reply Letter -- no Literature/Program Requests should be used.

We are confident this new ordering procedure will be beneficial to all concerned. Please feel free to contact us if you have any problems or questions. Thank you.

E. Gelhaar, Manager

Software and Publications Distribution

Xerox Corporation 701 South Aviation Boulevard El Segundo, California 90245 213 679-4511

March 10, 1975

XEROX

TO: PAL MANUAL HOLDERS

Subject: PAL Reprint, 75.02

Attached is PAL Manual Reprint 75.02 which is a complete replacement for all sections of your PAL MANUAL.

REF: SD6-75-5023

PAL Manual Update/Reprint Practice:

- 1. The entire Manual is reprinted periodically and designated by the year and month of the reprint, e.g. Reprint 75.02.
- 2. Updates to the last reprint are created monthly and are designated by the year and month of the update, e.g. Update 75.02. It lists programs and publications added to or updated in the PAL for the time period indicated in its cover memo. Each memo incorporates all modifications since the last reprint of the PAL. So, as you receive these updates, the old updates can be disposed of since the current one contains the previous modifications as well as the recent ones.

Especially note that a Reprint will incorporate all updates up to and including the one having the same year-month designation as that reprint; e.g., Reprint 75.02 incorporates update 75.02 as well as prior updates.

The PAL is published to give you, the user, various types of information. We would appreciate your telling us about items that are either unclear or not included.

.E. Gelhaar, Manager

Publications and Software Distribution

bk

attachment