

Newsletter

VOL ~~3~~ ⁴ **NO 4 APRIL 1981**

ALPHA MICRO USERS SOCIETY
934 B Pearl Street
Boulder, CO 80302
(303) 449-6917

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AMUS office hours are from 8:00 a.m. to 5:00 p.m., mountain time. Our overworked secretary is Sharon Greene who is happy to assist you with any question you might have about AMUS, or the Alpha Micro Computer. If she doesn't know the answer to your question, she will try to direct you to someone who does.

The AMUS Newsletter is published monthly by AMUS, 934-B Pearl Street, Boulder, Colorado 80302. Subscription rates are \$10.00 per year. Each member representative receives a one year subscription, the cost of which is included in the annual dues.

Additional copies and back issues of the newsletter may be ordered from Sharon Greene. Bug fixes, articles, letters, reviews of software and information about Alpha Micro applications are happily accepted. Material must be received by the 20th of the month for inclusion in the following month's edition.

Each member is allotted one free page of advertising in the newsletter each year; further advertising is at the rate of \$50.00 per page with a minimum of 1/4 page. Ads must be camera-ready, black and white copy and be accompanied by the appropriate fee. Send all advertising to the editor at 1401 E. Bridge Street, Brighton, CO 80601.

The Alpha Micro Users Society Network is a computer system meant to give members access to information and other Alpha Micro users with similar interests. It consists of an Alpha Micro computer with a Hawk disk drive, a 300 baud modem, a 1200 baud modem, and 160K of memory. AMUS members are given an individual account and password on the Network so that they may receive personal electronic mail. Contact Sharon Greene for your account and password. Many thanks to Alpha Micro Systems of Irvine, California; North America Title Co. of Houston, Texas; and the Byte Shop of Reno, Nevada who have donated equipment and software to the Network.

AMUS has a library of programs which have been donated by members for distribution to other members. Programs are available either through the AMUS Network, or, if you prefer, we can make floppy or Hawk cartridge copies and mail them to you. Orders may be placed through Sharon Greene.

Application to mail at second-class postage rates is pending at Boulder, Colorado 80302.

from the president

FROM THE PRESIDENT

Well, it's the time of year again to have elections of board members, officers, and the like. This year, at the NCC in Chicago the AMUS general member meeting will take place at the Ascot House Hotel 1100 S. Michigan, Chicago, Ill. at 7:00 PM, Monday, May 4th, 1981. If you have items which should be placed on the agenda, please contact me as soon as possible. If you cannot attend the general meeting, there is a mail-in ballot in this newsletter. You may fill out your ballot and mail it in - as long as we receive it by May 4th.

The board of directors has discussed and initiated a policy for the newsletter concerning advertizing. That is that we are no longer interested in publishing the prices of anything. This applies to software, hardware, tiny subroutines, the works. The reason we arrived at this decision is that as a user's society we are interested in products and services that might be available to our members, but we see no reason to get involved with the pricing. As you may know, there have been several upset dealers, non-dealers, members, and one particular computer manufacturing firm who all have different ideas about what should and should not be published. The most recent problem, which initiated the whole thing was prices that appeared in the newsletter which were meant to be sent to dealers. We understand that AMUS members are sophisticated enough to decide what a good value is, and we don't think that AMUS should be a clearing house for current prices on everything that is available. We can't keep up on price changes, and we don't want to cause problems by misquoting. The best source for a price on a product is the source. The board of directors has decided that it is concerned with access to information, not what an item costs. Therefore - to avoid problems of misquoting prices, offending one person or another, we plan to publish all the information about a product including what it does, who makes it, and who likes it. If a member needs specific information, including price, it is just a postage stamp or a phone call away.

Alpha Microsystems will have a 40' booth at the NCC. (booth number 1271). There will be four systems on display including two of the new 8.6 and 50 Megabyte Winchester disk drives.

The other two systems will each have a hawk and a Phoenix. Two of the systems will be communicating with each other. Alpha Micro is going to be unveiling its video cassette tape backup which is substantially different than other tape backup systems on the market. The video tape will have the ability to select individual files to be recovered, opposed to other systems which copy the entire disk off or onto the tape.

be prepared for substantial changes to take place on the AMUS network in the near future. We've been working on a system to provide a much more interactive approach to the network, with menu driven features including a greatly enhanced bulletin board and a computer conferencing system that will allow AMUS members to easily find other members with similar interests.

Sharon Greene has recently updated the Software listing on the network. If you are looking for a specific application program that might be marketed on the Alpha Micro, take a look at the file called SOWRKM.LST in account 107.1 on the network. We'll be publishing the list in the next newsletter.

STABILIZING YOUR ALPHA-MICRO

In the world of real-time computer systems, hardware down-time is a major concern. Down-time is even more concerning when there is no apparent reason for the system to quit working in total or in part. Although restarting the Alpha-Micro is as easy as pushing a reset button, it is very impractical when attempting to run a real-time, on-line order entry processor.

This article is about the problems encountered and solutions implemented to eliminate the need to reset the system for other than controlled conditions. In this, the first of two parts, the hardware, software, and the background is presented.

Our installation consists of the following hardware components:

- 1 T.E.I. MCS 122 MAINFRAME
 - 1 AM-100 CPU BOARD
- 2 AM-300 SERIAL I/O BOARDS
 - 1 AM-500 CONTROLLER
 - 1 AM-200 CONTROLLER
- 1 D.C. HAYES COMMUNICATIONS BOARD
 - 5 AM-12-01 64K MEMORY BOARDS
 - 1 C.D.C 10 MEG. HAWK DRIVE
- 1 WANGCO DUAL FLOPY DISK DRIVE
- 5 DIGITAL CORP. DATACOM 1200 DECWRITERS
 - 1 EXTEL TELEPRINTER
- 9 VOLKER CRAIG VUCOM 404 CRT'S
 - Miscellaneous modems

The hardware is configured (see Fig. 1) such that 4 of the CRT's and 1 of the Decwriters are directly connected to the Computer using standard RS-232-C cabling. The balance of the CRT's and printers are remote to the computer via the modems.

We are running under Release 4.4B of the Operating System with ALPHA-BASIC application programs developed using ALPHA-VUE.

Our problems started with the installation of the equipment in January, 1980. In an 8 hour time period we were having to reset the system 2 or 3 times. We thought nothing of the problem because we were learning the in's and out's of the system hardware and software as well as developing the application programs required. Although the frequency of resets concerned us, we tended to consider our infamiliarity with the machine as being the cause.

In June, 1980 we implemented the major portion of our application system, and still our "reset" problem continued. Now we were developing new programs and fine-tuning existing programs utilizing Alpha-Vue while running on-line interactive production systems. At the time we were running under Release 4.3A of AMOS. Letters published in the AMJS newsletter suggested to us that problems of resets could be caused by using Alpha-Vue when developing programs so we again tended to ignore this problem.

- Static Electricity - this was eliminated from the start. When we decided to install a computer, we constructed a special room to house the equipment and 4 of the CRT's. As part of this process we installed anti-static carpeting to minimize static build-up.
- Temperature - again this was eliminated as we had installed a room air-conditioner when the room was constructed and temperature was closely controlled.
- Humidity - this was not considered a problem but to ensure that it was not the cause, we purchased and installed a small room humidifier. Although this resulted in improved operator comfort, it made no difference to the problem.
- Ground Loops - ground loops, causes and effects are fairly complex to explain and understand. The dictionary defines a ground loop as a potentially determinally loop formed when two or more points that are nominally at ground potential are connected by a conducting path such that either or both points are not at the same ground potential
- Power - power is the most important but least understood part of a computer installation. Manufacturers specifications tend to be very vague in this respect. Alpha Micro is as guilty of this as anyone. Their installation documentation calls for a "clean" power supply and recommends isolated ground plugs. Having been involved in previous new installations, I insisted on isolated ground plugs when we were constructing the new facilities to avoid any power problems. Unfortunately, my knowledge of power supplies was limited and thus began our "reset" problem.

Next month I will provide the details we found in our power supply system and outline the solutions we implemented that resulted in our Alpha-Micro running 24 hours per day, seven days a week with no unplanned down-time.

ALPHA MICRO SOFTWARE FOR SALE?

We are a wholesale dealer in precious metals, various commodities, and related financing services.

We are developing our own software on an AM-100T system with a 90 Megabyte Phoenix Hard Disk Drive.

If your software suits our needs and saves us time or money, we will consider buying it -- for our own internal use only.

We are especially interested in:

- ° Customer files and credit information
- ° Transaction handling and accounts receivable
- ° General ledger tailored to wholesale commodity applications
- ° Inventory control
- ° Commodity-related software
- ° Precious metals trading software
- ° User access to text files
- ° Programs using remote data bases (such as Merlin)

Please supply the basic facts about your software to:

Bob Schultz, Systems
A-Mark Financial Corporation
9696 Wilshire Boulevard
Beverly Hills, California 90212
Telephone: (213) 550-8861

All replies will be treated confidentially.



The Perfect Home for the Alpha

The AMF-36 Enclosure

"We've been using the AMF-36 for over a year, and we've been spoiled by the pop-off panels. [The AMF-36] is well engineered and really shows off the whole system.

Bob Fowler,
Alpha Information Systems

RUGGED

The AMF-36 tubular steel construction is so sturdy that our dealers routinely install the drive and CPU and ship the whole unit cross-country in the original crate. We provide the shipping crate and heavy duty pallet free with each unit.

COOL

The AMF enclosure is designed by computer professionals who knew, above all, how important it is to keep the computer cool. In over 200 units sold, there's never been a reported instance of excessive heat built up due to the AMF-36.

CONTEMPORARY

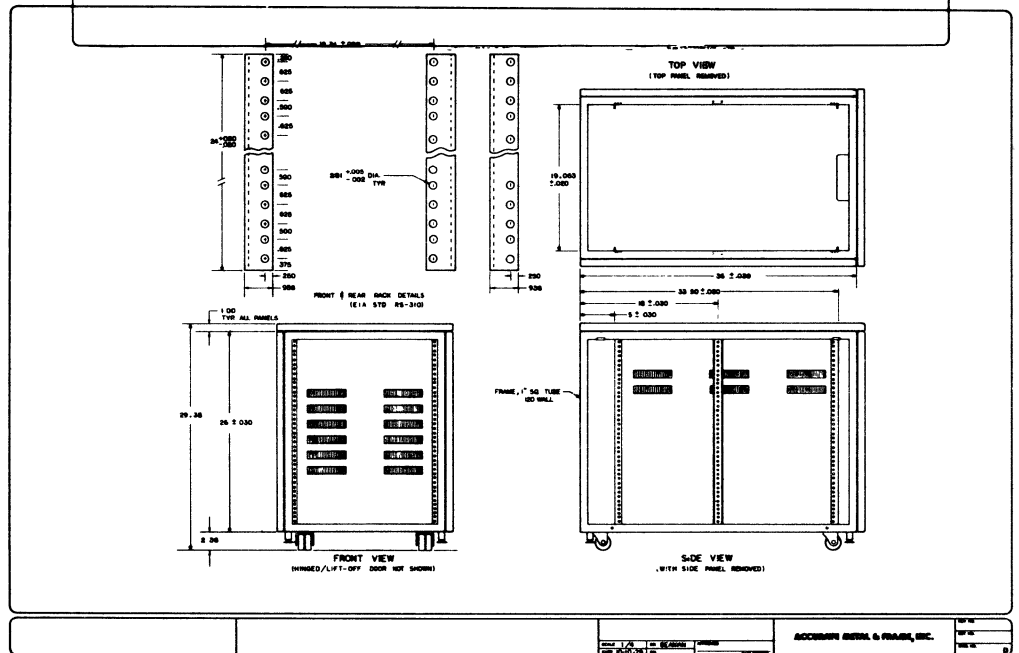
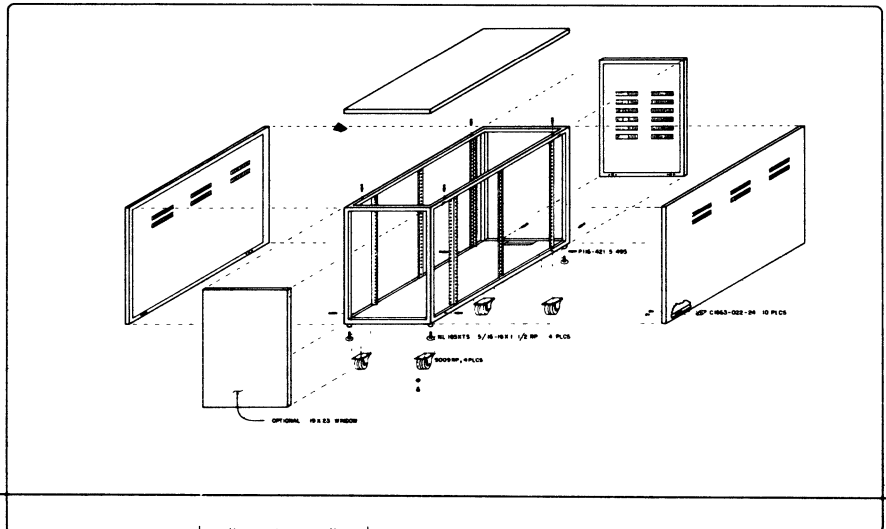
Now you can deliver a beautiful system too. The AMF-36 is color coordinated to compliment the Alpha Micro computer.

PRACTICAL

AMF's exclusive "snap-on" design allows for maximum accessibility. You can remove all the exterior panels in less than 60 seconds. You'll also appreciate our adjustable, nickle plated anti-tip device. Plus, AMF includes all the mounting hardware to save you valuable assembly time.

GUARANTEED

We back each and every enclosure with a total refund policy. If you're unhappy with any unit, return it within 30 days *freight collect* for a full refund.



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Available for high speed printers

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Please send me information and prices on replacement filters for:

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- AM-410, AM-1050, AM-1051 Systems
- Other Disc Drives

| Filter Part No. | Drive | Model |
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| _____ | _____ | _____ |
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 Organization _____
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Send this completed form to **Air Filtration Products, Inc.**, 1842 West Grant Rd., No. 104, Tucson, Arizona 85705.

BIPS, Inc. Introduces UAS

A Comprehensive User Accounting System

Here's how "User Accounting" will give you more control and use out of your Alpha Micro computer system:

- **SECURITY**

UAS provides protection for your system from unauthorized usage by giving you absolute control over who can use the system and which system commands they can execute.

- **INCREASED REVENUE**

By efficiently maintaining a log of users and monitoring exact times of system use, **UAS** can help generate revenue by turning your computer into an effective timesharing system.

- **STIMULATE INTER-OFFICE COMMUNICATION**

UAS allows users to send and receive messages through electronic mail and bulletin-board facilities.

- **SIMPLIFIED LOGIN**

Users can "log in" through **UAS** with a name meaningful to them, taking the guesswork out of system entry.

- **AUTO LOG-OFF**

UAS will log users off automatically after five minutes if they are called away from the work station, saving valuable machine time charges.

The User Accounting System is available **NOW**. Look over the system today!! Our documentation packet includes a full 30-page manual with complete instructions of system use and examples of commands.

The B.I.P.S, Inc. **UAS** system packet includes:

- 30-page system manual
- Complete installation instructions
- All operating programs ready for installation on diskette or Hawk cartridge

See your local dealer for a demonstration and prices.

BUSINESS INFORMATION PROCESSING SERVICES, INC.
P.O. Box 10851 • Reno, Nevada 89510 • (702) 825-2559



????????????????????? WHAT THE HECK IS SABTEG ??????????????????????

Hey Guys! Since a few of you bought my SABTEG program, I can afford to pay the outrageous price this rag charges for another ad! (I can't make a living this way--but it's fun to see my name in print.)

- - - - -

Basically, it is a file management device which permits you to label your directory so that people other than the original programmer may find programs/subroutines that they need without having to bother the author, or dig into the program/subroutine itself to see what it does.

If you have only a few major programs, and do not do much programming or file additions, I would suggest that this is not for you. However, if you or others access many non-familiar programs, files, subroutines, etc., an ANNOTATED DIRECTORY would be a great help.

I use it to keep track of the 70 or so major programs I am working on and have started a subroutine file where I put all my reuseable subroutines. Naturally, the recognizable permutations of 8 characters is limited, so the one-line explanations are a great help (can be modified to several lines).

→ → → Ever "lose" a program or subroutine because you couldn't remember the name?? ← ← ←
Ever do a DIR *.BAS/W and then wish you could remember what they all do?????
Are you the only one who knows what all those six-digit names mean?????????

- - - - -

WOULD YOU LIKE A DIRECTORY ORGANIZER WHICH WOULD EXHIBIT EXPLANATORY LABELS ?

THIS IS IT ! (\$25 for floppy source)

By typing ****GETBAS**** you:

1. Massage your DIRECTORY bringing any new programs into alphabetical order.
2. Merge your newly alphabetized file with an existing ANNOTATED file.
3. Print out an alphabetized ANNOTATED DIRECTORY.
(new programs will stand out as unlabeled) unless (see 4)
New programs/subroutines appear in alphabetical order ready to be labeled
Old labels remain or can be modified/eliminated using VUE.
4. If you use a standard line # or line in all your basic programs which includes your program name and description, it will read your program and print that first line with name and description in the ANNOTATED DIRECTORY, thus saving you the trouble of re-describing it and updating descriptions on modified files as they change over time.
5. Files which have been erased are dropped from the annotated list.

YOU CAN ALSO ANNOTATE YOUR COMMAND FILES AND YOUR DATA FILES

So type ****GETDAT**** or ****GETCMD**** and those files will be massaged and similar files ****ALPDAT**** and ****ALPCMD**** will be produced ready to label.

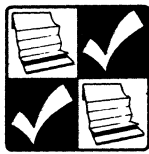
If you don't use line numbers and want to enable automatic annotation instead of looking for line #9 like I do, look for your file name (wherever you hide it), and use that successful compare to print the line.

ALSO, included for your amusement is a sample program (very short) which demonstrates one of the more unique features of your Alpha Micro. It can examine keyboard input as it is entered (key by key) thus limiting possible errors and frustrating deliberate sabotage.

NOTE that YOU DO NOT NEED TO PRESS RETURN to access/control the computer . . . making displays nearly instantaneous and much more professional

TRY IT . . . YOU'LL LIKE IT !

If you don't know or can't find out how to do similar magic, send me one Wheaties Box-top to me and I will send you the Boschen short course in single-step replete with useful examples, dull witticisms, misspellings and possibly more advertising. Hank Boschen--
1107 - 12th Street, Boulder, CO 80302



Checks To-Go

April, 1981

Re: Custom and Stock Forms

Dear Alpha Micro Users:

At Checks To-Go, we are confident that once we become your forms supplier, you'll never worry about form quality or price again.

To support our statement of confidence, we've included our price list and a few of our service highlights below. Take a few minutes and compare our prices and service with that of your present forms supplier. We know we'll be hearing from you soon.

| BASE PRICE LIST | | | | | |
|-------------------------|---------------|-------|------|------|------|
| DESCRIPTION | | 500 | 1000 | 2000 | 3000 |
| Payroll Checks | imprinted | 1-ply | | | |
| Accounts Payable Checks | imprinted | 3-ply | | | |
| Accounts Receivable | non-imprinted | 1-ply | | | |
| Statements | non-imprinted | 2-ply | | | |
| | imprinted | 1-ply | | | |
| | imprinted | 2-ply | | | |
| Invoices | non-imprinted | 4-ply | | | |
| | imprinted | 4 ply | | | |

For quantities larger than 3,000 please call for quote.

ply - one of the layers of which something is made up. i.e., 4 ply denotes a total of four layers, one original and three copies.

NOTE: Extra charges for services such as rush shipment and logo's not included.

2/20/81 Prices subject to change without notice.

Highlights of our service to you:

- Minimum order as low as 500.
- 7 working day RUSH shipment available.
- STANDARD shipment of 14 working days.
- FREE set-up samples.
- Very COMPETITIVE PRICES.
- COMPLIMENTARY quotes on custom designs and colors upon request.
- FREE shipping - in continental U.S.

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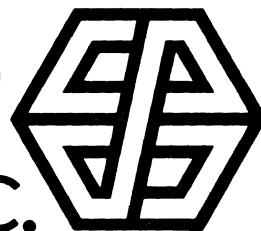
Can your ALPHA MICRO™ understand:

“ I want to see every contributor whose donation was more than \$1,000 and whose zip code is between 06500 and 06575. The status cannot be defaulted but must be pledged or given. ”

“ Please rank all medications except ampicillin for me. The diagnosis must not include fracture and the date of visit should be past 1 5 80 but prior to 14 February 1980. The time of visit must be later than noon but before 4:30 PM. I also want the patient's age to be greater than 2 years 8 months yet younger than 10 yrs. ”

DERVISH™ 2.0 UNIVERSAL DATABASE MANAGEMENT SYSTEM CAN!

- powerful, very sophisticated English language inquiry processor
- up to 80 fields
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- optional user-designed entry screens
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- user-designed reports with column, row, and grand totals
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- automatic transfer of records to create subset or superset databases
- global field and subfield search-and-replace
- data encryption and decryption
- comprehensive documentation—written in English!
- suitable for business, professional, or scholarly applications
- no programming or operating skills needed; youngest known user is 12 years old!



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COLORADO RESEARCH AND PREDICTION LABORATORY, INC.
SPECIALISTS IN ELECTROMAGNETICS AND COMPUTER SIMULATION

MODIFICATIONS TO ALPHA MICRO ACCOUNTING PACKAGE

ADDITIONS

Added Bill of Material to OE Inventory Control Including Production Run Costs and Finished Product Costs

Modified Every Program in each Business Pack, i.e., AR, AP, PR, GL and OE to make entire system PPN oriented rather than DSK oriented. Initial entry queries user and sets up proper PPN user files. Different company accounts can be used on different terminals on the same computer.

MODIFICATIONS

Modified all Programs creating backup files so that a file can be written over itself after a protective query, i.e., "File already exists do you wish to replace it Y or N?" Defaults to N.

Backup files all use only as much space as the number of records require, not the entire space allocated to the file being backed up.

Modified all Programs which Restore files to query "Do you wish to Add on a File?" Y or N. Defaults to N. Thus many small files can be combined into one large file and backed up as such.

Modified all Programs with print out to query if file should be printed, i.e., "PRINT CUSMAS, Y or N?" Defaults to N. Following a program exit, the files may be vued by SEE CUSMAS command and the file may be printed by PRT CUSMAS command.

Following completion of operation a QUIT Command will erase all. PRT Files and Logoff the user.

Complete Software available to licensed Alpha Micro Business Pack users for
Software and license available for Disk Pack additional

For more information Write:

CRPLi
1898 South Flatiron Court
Boulder, Colorado 80301

Or Call: Bob Doherty
 Vice President, CRPLi
 (303) 444-1530

CONTEMPORARY CYBERNETICS GROUP

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A COMPLETE INTERACTIVE ACCOUNTING SYSTEM

We have modified the Osborne Accounting System to run on the Alpha Micro Computer. This accounting system includes a General Ledger Package, an Accounts Payable and Accounts Receivable Package, and a Payroll with Cost Accounting Package. These packages may be run stand alone or as a total accounting system. All of these packages have the following features:

- * Menu Driven
- * Password Protected
- * Interactive Data Entry
- * Structured Design for Ease of Modification

GENERAL LEDGER PACKAGE:

- * Accepts Direct Postings
- * Accepts Postings from External Programs
- * Allows You to Format Your Own Balance Sheet and Income Statement
- * Maintains Account Balances for the Current Month, Quarter, Year and Previous Three Quarters
- * Allows You to Generate Financial Reports

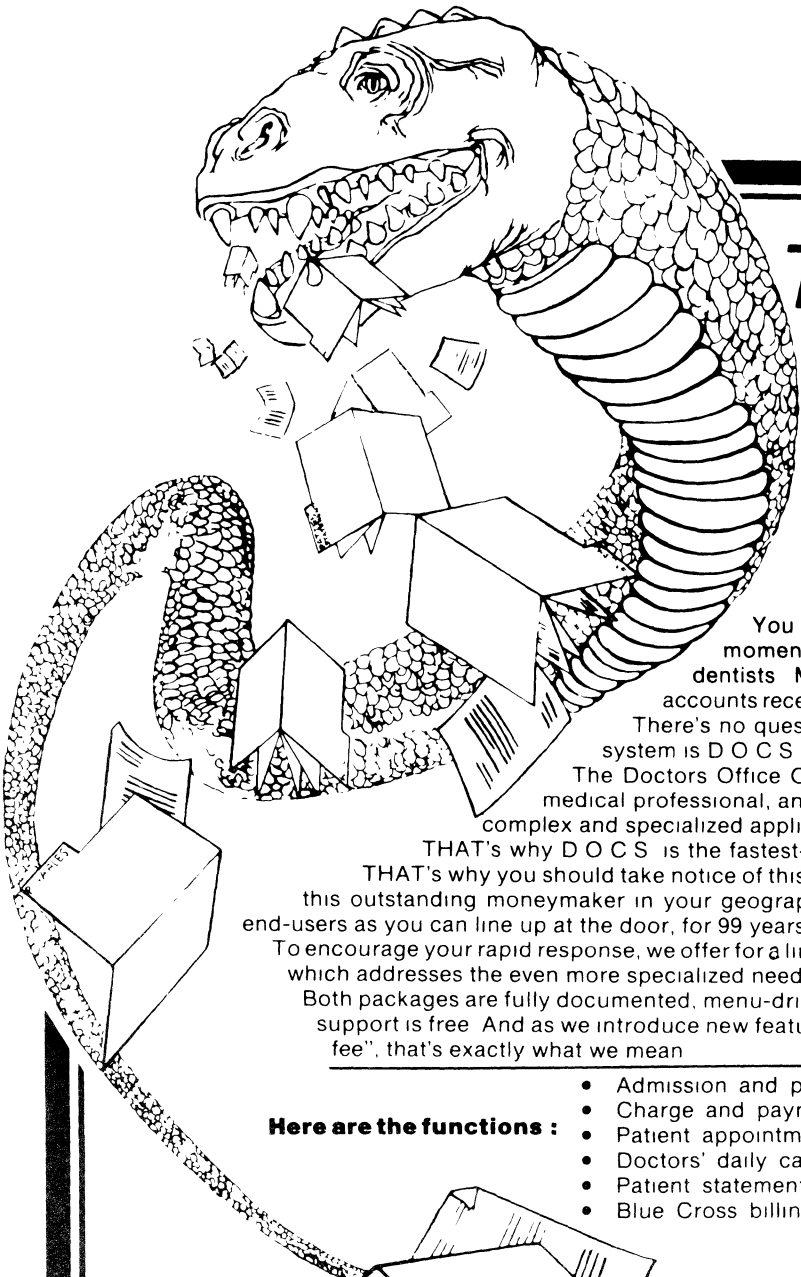
ACCOUNTS PAYABLE AND ACCOUNTS RECEIVABLE PACKAGE:

- * Can be Fully Linked to the General Ledger Package
- * Has an Accounts Payable Check Printing Feature with Invoice Detail
- * Allows You to Pay Invoices by Vendor or by Invoice
- * Has a Provision for Progress Billing
- * Allows You to Generate Customer Statements
- * Has an Accounts Receivable Invoice Aging Feature

PAYROLL WITH COST ACCOUNTING PACKAGE:

- * Maintains Monthly, Quarterly, and Yearly Cumulative Totals for Each Employee
- * Allows Payroll Costs to be Distributed Among Various Jobs and Tasks
- * Allows You to Generate a Payroll Journal, Government Tax Forms, and Other Reports

For further information or to place an order call (804) 599-4749

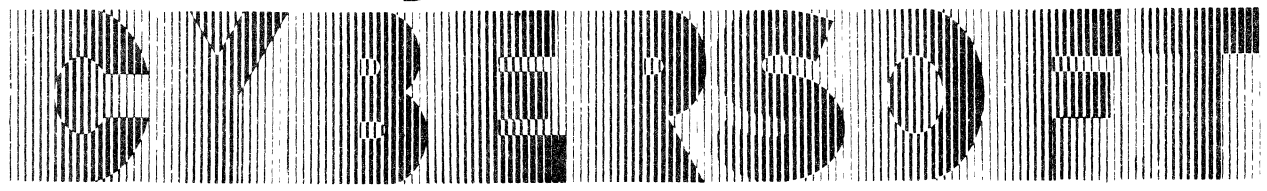


THE MONSTER THAT ATE THE CLINIC

You think YOU'VE got bookkeeping problems . . . Pause for a moment to consider the challenges faced by a clinic full of doctors or dentists. Medical records, insurance claims, appointments, reports, accounts receivable and payable - it's a monster that would scare ANYBODY. There's no question that medical clinics need a computer system. And that system is D O C S - The Doctors Office Computer System. The Doctors Office Computer System meets every data processing need of the medical professional, and is the only truly comprehensive package available for this complex and specialized application. THAT's why D O C S is the fastest-selling medical package available on the Alpha Micro. And THAT's why you should take notice of this offer from CYBERSOFT - an exclusive 99-year license to sell this outstanding moneymaker in your geographical area, all for a one-time fee. You can sell to as many end-users as you can line up at the door, for 99 years. And that's a long time. To encourage your rapid response, we offer for a limited time the D O C S companion dental system, a variation which addresses the even more specialized needs of dental clinics, FREE with purchase of D O C S. Both packages are fully documented, menu-driven, user-oriented, error-trapping, and easy to run. Software support is free. And as we introduce new features, we send you the updates. Free. When we say "one-time fee", that's exactly what we mean.

Here are the functions :

- Admission and patient updates
- Charge and payment entry
- Patient appointments
- Doctors' daily calendar
- Patient statements
- Blue Cross billing
- Medicare submittals
- Medicaid remittances
- Commercial insurance billing
- Collection accounting and dunning
- Patient processing
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- ICDA-9 diagnostic code reports
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- Service usage reports
- Institutional analysis reports
- Transaction reporting



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I N A G E N C Y C O M P U T E R S

A T T E N T I O N A L P H A D E A L E R S

* HERE IS YOUR OPPORTUNITY TO PENETRATE THE INSURANCE MARKET *

The insurance market is large, local, and waiting to be tapped by YOU. Of the approximately 68,000 Independent Insurance Agencies in the country, fewer than 10% have been automated.

The local insurance agency is an ideal customer for an ALPHA. The agency's main product is paperwork, at which a computer is much more cost effective than a staff of clerks. The reason this industry has not yet been fully automated is the peculiar nature of its business. A number of generalized systems have been adapted to it, but the low priced systems which most agents can afford are not suited to their needs.

The IAC insurance software just released for the ALPHA can be used by YOU to change this situation in your neighborhood. If you can take care of the ALPHA, our software will take care of all the requirements and idiosyncracies of the agents' business. Selling it should be easy since it is demonstrably a superior product and it is already known in the industry. Our systems are listed in the industry sponsored Insurance Institute of Research (IIR) Automation Guide under the IMA corporate name.

The IAC software system has been eight years in the making. It was designed and implemented on larger machines. We discovered the ALPHA last year and were amazed by its performance and ability to handle all our software which was designed for large sophisticated minicomputers. The system is now fully implemented on the ALPHA and is available at a reasonable license fee to dealers.

We offer a fully documented data-base system which handles all agency functions. The system is menu-driven, and its user characteristics are controlled by parameter files, providing extensive program adaptability. In addition to being a complete agency system, it also includes interfaces to word processing, and to the IIR Agent-Company interface pilot.

The IAC system can help you succeed in this potentially lucrative market. We will support you with marketing brochures, program installation, and user manuals. Because we have been working with this industry for many years and are the prime developers of the system, we can answer all your questions and give you support and advice when you need it.

Write to us or call Mike for further information.

KHALSA INFORMATION SYSTEMS

5880 SAN VICENTE BLVD. SUITE NO. 103
LOS ANGELES, CALIFORNIA 90019
(213) 933-8457

Khalsa Information Systems has three software packages offered for sale, all of which are of the highest quality and for which source code is available.

1) The Khalsa Information System Point Of Sale Inventory Control System has been installed and running successfully in several locations for over two years. It offers, for example, easy ringing up of sales, daily reports, sales analysis, purchase ordering. The price for source code licensing is . A demo disc is available for and a manual for

2) Construction, Property Management and Syndicate Accounting System is an extensive system consisting of several modules including job costing, payroll, property management, loans payable, investment analysis and multi-entity general ledger. The entire system is interactive and handles accounting needs of several syndicates with general partners having investments in construction projects or real property.

The price for this system is A demo disc is available for \$225.

3) The third package is a Garment Industry Inventory, Work in Process and Order Entry Invoicing System. The price for this system is , and a demo disc is available for \$175.

For further information on any of the packages please write or call me.

*Simran Sat Sangeet Singh Khalsa
Khalsa Information Systems
5880 San Vicente Bl. #103
Los Angeles, Ca. 90019
(213) 933-8457*

724 Arastradero Rd., Suite 109
 Palo Alto, California 94306
 408/252-2218

TO RUN:

- μ A/FORTH IS DISTRIBUTED WITH THE SYSTEM IN ACCOUNT [170,10]. LOG INTO [170,10] AND TYPE 'AFORTH'. μ A/FORTH SHOULD COME UP AND TYPE ' μ A/FORTH V 3.1'
- MAKE A COPY OF THE ACCOUNT. PROTECT AGAINST ACCIDENTALLY ERASING THE SYSTEM OR THE SOURCE PROGRAMS.
- AS PROVIDED, THE FILE 'FORTH.SCR' CONTAINS FORTH SCREENS 1-128. FORTH.SCR IS A CONTIGUOUS FILE.
- IF YOU WANT TO RE-ASSEMBLE THE SYSTEM (WHICH MOST USERS WOULD NEVER FIND NECESSARY), YOU MUST EDIT AND MACRO 'AFORTH.MAC'.
- ADVANCED USERS MAY NOTE THAT THIS SYSTEM IS DESIGNED TO ALLOW THE MEMORY LAYOUT--NUMBER AND LOCATION OF DISK BUFFERS, LOCATION OF THE STACK, ETC.--TO BE CHANGED DYNAMICALLY, WITHOUT REASSEMBLY.
- TEST THAT IT IS UP BY TRYING SOME ARITHMETIC OR DEFINITIONS, E.G.,
 88 88 * . (NOTE THAT THE '.' MEANS PRINT)
 : SQUARE DUP * ;
 25 SQUARE .
 OR TYPE 'VLIST' FOR A LIST OF ALL THE FORTH OPERATIONS IN THE DICTIONARY.
- TEST THE DISK BY TYPING
 1 LIST
 WHICH SHOULD LIST THE SCREEN WHICH LOADS THE EDITOR, ASSEMBLER, AND STRING ROUTINES.



- FULL LENGTH NAMES (UP TO 31 CHARACTERS)
- EXTENSIVE COMPILE-TIME CHECKS AND ERROR MESSAGES
- A FORTH ASSEMBLER, PERMITTING STRUCTURED, INTERACTIVE DEVELOPMENT OF DEVICE HANDLERS, SPEED-CRITICAL ROUTINES, AND LINKAGE TO OPERATING SYSTEMS OR TO SUBROUTINE PACKAGES WRITTEN IN OTHER LANGUAGES.
- STRING-HANDLING ROUTINES
- A STRING-SEARCH EDITOR
- LINKED VOCABULARIES
- HOOKS FOR MULTI-USER/MULTI-TASKING (CURRENTLY SINGLE TASK)
- AND CAN BE CONFIGURED TO RUN IN A 16K BYTE PARTITION (THIS INCLUDES BUFFERS AND ROOM FOR SUBSTANTIAL ADDITIONAL FORTH PROGRAMMING) ON AN ALPHA-MICRO RUNNING AMOS.

Alpha Micro and AMOS are registered trademarks of Alpha Microsystems
 PDP is a registered trademark of Digital Equipment Corporation

PRODUCTS AVAILABLE

μ A/FORTH SYSTEM ON DISKETTE

This FORTH system runs under AMOS.[®]
 The distribution disk is single density, AMS format and includes all source code.
 This system implements the Forth Interest Group language model, with full-length names to 31 characters, and extensive compile-time checks.
 In addition, the diskette includes an editor, a FORTH assembler, and string package, in FORTH source.

Complete System:

'GOING FORTH' BY CREATIVE SOLUTIONS, INC.

This computer aided instruction course is intended to interactively guide the beginning FORTH user through initial terminal sessions. Over 100 frames of step-by-step instructions and clear examples are provided on the primary concepts of FORTH. Structured programming techniques are incorporated throughout the program development stages and a typical FORTH Text Editor is introduced. On diskette; license agreement required.

Course when ordered with system:
 Course without system:

'PDP-11 FORTH USER'S GUIDE' BY JOHN S. JAMES

This manual describes the editor, assembler, and string package distributed with μ A/FORTH. It discusses trig functions provided, shows a recursive programming technique, guides the user through an initial terminal session and includes extensive annotated examples of FORTH programming.

User's Guide:

fig-FORTH INSTALLATION MANUAL

This Manual contains the F.I.G. language model, a complete glossary, memory map, and installation instructions.

Installation Manual:

Complete Package:

ORDER FORM

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| fig-FORTH Installation Manual | _____ |
| Subtotal | _____ |
| Foreign order charge (15%) | _____ |
| Add applicable California residents sales tax | _____ |
| TOTAL | ===== |

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PRESS RELEASE

**San Luis
Software**

P.O. Box 1382 San Luis Obispo, CA 93406 (805) 541-2270

FOR RELEASE BY MARCH 31, 1981

San Luis Software, Inc., specialist in AlphaMicro programming since 1977, is finally yielding to pressure from dealers around the country, and has just announced a licensing program for ISO's (independent sales organizations).

A spokesman for SLS explained, "This is a dramatic change in corporate policy for us, because of our reputation for quality software, plus our service and support after the sale. The board of directors has been terribly worried about our reputation being jeopardized by some licensee's imperfections."

In fact, SLS has previously been successful by operating as if they had the only supply of gold in the country, and accepted clients by referral only. Apparently the change in corporate policy will finally allow access by the average businessman to SLS' software.

The spokesman explained that potential dealers will be screened, and licensees will have to agree to support the software after each sale. "We are not going to crank out licenses like a hamburger stand", he stated, "Dealers must share our philosophy of how to treat the clients. AlphaMicro is a hot computer, and we really make it perform."

Initially, San Luis Software will license its Basic Business Accounting System and Membership Accounting System. These will be followed by "timed-release" of their Wholesaler/Distribution Accounting System, Attorney's System, Word Processing, Public Accounting and CPA Accounting System.

Additional information may be obtained by contacting San Luis Software at (805) 541-2270.

Contact: John Kubasak
Telephone: (805) 541-2270

SOFTWARE MARKETING INTERNATIONAL

ANNOUNCEMENT

LEONARD BACKUS AND KEVIN O'DRISCOLL ARE PROUD TO ANNOUNCE THE FORMATION OF A NEW COMPANY CHARTERED TO BECOME THE MISSING LINK BETWEEN APPLICATION SOFTWARE DEVELOPERS AND COMPUTER SALES ORGANIZATIONS.

SOFTWARE MARKETING INTERNATIONAL SPECIALIZES IN THE DEVELOPMENT AND IMPLEMENTATION OF NATIONAL AND INTERNATIONAL MARKETING PLANS FOR VERTICAL MARKET APPLICATIONS SOFTWARE PACKAGES. THE PRIMARY SOURCES OF THESE PACKAGES ARE THE MANY INDEPENDENT SOFTWARE HOUSES THAT HAVE DEVELOPED AND SUCCESSFULLY INSTALLED SOFTWARE PRODUCTS IN THE DEVELOPERS LOCAL AREA, BUT HAVE NO MEANS TO REACH QUALIFIED PROSPECTS IN OTHER REGIONS.

IF THE PACKAGE CONFORMS TO PERFORMANCE AND DOCUMENTATION STANDARDS, SOFTWARE MARKETING INTERNATIONAL WILL DEVELOP A COMPREHENSIVE MARKETING PLAN INCLUDING A DETAILED MARKET, COMPETITION AND PRICING STUDY, END-USER PROSPECT PROMOTIONAL CAMPAIGN, AND SALES TRAINING PROGRAM DESIGNED TO ACHIEVE MAXIMUM VERTICAL MARKET PENETRATION.

IMPLEMENTATION OF THE MARKETING PLAN REQUIRES ASSIGNMENT OF AT LEAST ONE SALES REPRESENTATIVE BY A GEOGRAPHICAL NETWORK OF COMPUTER SALES ORGANIZATIONS TO ATTEND A SALES TRAINING COURSE, AND IMPLEMENTATION OF THE PROMOTIONAL CAMPAIGN TO MATCH PROSPECTS WITH QUALIFIED SALES REPRESENTATIVES.

IF YOU OWN A SOFTWARE PRODUCT OR YOU ARE INTERESTED IN SELLING QUALIFIED COMPUTER SOLUTIONS CALL OR WRITE SOFTWARE MARKETING INTERNATIONAL.

letters

Stephen B. Patterson
Alpha Peripherals, Inc.
3749 Wolff Street, Unit 9
Denver, CO 80212

In the process of reworking our advertisement for the march '81 newsletter in order to conform the ad to a last-minute AMUS newsletter policy change that eliminates all pricing from PAID advertising, I got to wondering what the effect of this change in policy might have on the membership as a whole, and the economic significance of such a change to the members, dealers and others in this marketplace. I believe that some serious questions need to be asked about this and other matters that are of enough of a direct economic effect on the society's membership that an open dialogue on this and other entirely unrelated items of interest should be a matter of public discussion and membership participation, To Wit:

1. Is the elimination of pricing in newsletter advertising a legitimate Editorial Prerogative, or simply a response of the AMUS Board Members to pressure from Alph Microsystems and/or their dealers who may be selling the same or equivalent hardware and software at a significant markup over the advertised price in the newsletter?
2. Is pricing a legitimate basis for comparison of the often comparable and related claims of utility among the various manufacturers and suppliers of A-M compatible products; and do the A-M Authorized Dealers-members of the Society have a legitimate complaint that the advertising of prices serves only to confuse their customers or is this complaint a smokescreen to coverup their inability to properly support their existing Customer Base? Why do certain Dealers remove all references to AMUS as provided by the A-M Literature Package that is supplied with each new system?
3. Are the members sophisticated enough to evaluate the often conflicting claims of utility or reliability in Non A-M supplied products, and does an unwitting conspiracy exist in order to keep such products off the market in order to protect existing profit margins and retain the customer base by denigrating such non A-M Products?
4. Does the policy raise questions of First and Fourth amendment rights Illegal Restraint of Trade and other legitimate Legal concerns of the Advertiser? Does the membership want newsletter advertising restricted at all? Should this question be put to a vote of the membership?

5. Is the A-M practice of requiring their dealers to buy a "bundled" system comparable to the situation that existed when the Anti-trust Division of the Department of Justice obtained the now famous 1956 Consent Decree from IBM? And is this practice a legitimate economic and/or legal concern of the membership?
6. Why does AlphaMicrosystems, Inc. take specific steps to prevent the dissemination of information that would allow the Society's membership to attach or interface the AM-100(T) to hardware that meets a more specific need than A-M could ever hope to Supply? Don't the principals of A-M understand that the free distribution of this technical information does far more to promote sales and service than to hinder their marketing effort? Is this more of an Unfair Business Practice whose results constitutes illegal Restraint of Trade?

It may come as a suprise to some of you that I wholeheartedly support this change in your board's policy. I believe that the Society needs a more professional approach and style in it's major publication - I'd like to see the Newsletter become more like a "Journal" modelled after the IEEE publications. I am certain that if the members are interested in Alph Peripheral's various products that they will call or write us. Price wars have no place in the publication - and as an Ex-dealer I know that they need your support. Their sales margins are too thin as it is. Dealers support this Society and its publication to a large degree, and I see no sense in alienating a majority of them. I now refer you to our Advertisement elsewhere in this issue.

I must stop writing now, as my Stockbroker just called: I am going to buy all the AT&T stock I can get my hands on!

P.S. I just ask the quetions, I don't answer 'em!

The above letter naturally caused us some concern when it arrived, since it isn't every day that someone writes us accusing us of breeching ammendments to the U.S. Constitution. Rather than try to write a rebuttal of Mr. Patterson's letter point by point, I would just like to say that AMUS has no say over Alpha microsystem's marketing policies, nor does Alpha Micro have any say in how we conduct our affairs. If you as an AMUS member have an opinion about how we should be handling our affairs, please let us know. You have a direct influence on how AMUS operates. AMUS is very intent on getting information out about any hardware or software that is compatible with the Alpha Micro since AMUS members will want to know who is offering, servicing and using these products.

JKE

Judy N. Howe
Union Carbide Corp.
Nuclear Division
P.O. Box 1410
Paducah, Kentucky 42001

Our Company is very interested in obtaining software for the Alpha Micro that has been written to handle library functions. We have a library that serves the technical staff here at Union Carbide and need software to handle magazine ordering, routing, and renewals, as well as book check-outs and cataloging. I would like to hear from any individuals or software businesses that have written anything along this line or who might be interested in writing it. Please address any correspondence to me.

William S. Brown
Computata Systems LTD
1017 High Street
Macon, Georgia 31208

We are an Alpha dealer, and a new member of AMUS.

Regarding the February issue of the newsletter, the first one we have received, we noted an inquiry from Terry Hulseberg for someone who has interfaced an Apple with the Alpha Micro. We have a client who has done this, and we have written Terry about it.

We would like to inquire whether any users have interfaced a digitizer to the Alpha, if so would like to have information on this. Also interested in interfacing a mark sense reader to read 8 1/2 x 11 tests into the system for scoring. If anybody has done either of these we would like to hear from them.

We would like to obtain back issues of the Newsletter. Can you advise us which are available and what the cost would be for each.

Ed Note: Back issues may be obtained from Sharon; price is \$6.00 for 1980-81, \$15.00 for all issues.

Steven T. Stallman
Contemporary Cybernetics Group
1204 Willow Green
Newport News, Va 23606

You may wish to mention an apparently undocumented feature of VUE which Sam Ruby of our organization recently discovered. If the command COLUMN is entered in command mode, Vue displays the column the cursor is on in the upper right hand corner of the screen.

W.J. Blight M.D.
Maginot Medical Centre
69C Elizabeth Road
Winnipeg, MAN.
R2J 1A4

I have been reading further in the latest Amus newsletter, and was interested to see on Page 11, item 27 that others seem to have had trouble with non-boots on the Phoenix system. I have been having that trouble since the release of 4.4 and have not solved it yet. The last sentence of the item seems to give the impression that after doing all the above steps you can then simply reboot, is that correct?

I have done all the above, and still have to reboot under 4.3 and use the montst to get into 4.4b(3). I have entertained thoughts it could be the use of a 4.3 certified disk, and have the 4.4 version on a 4.4 certified disk, no help. Considered it could be a bad prom, had a new one from Alpha Micro, and no difference. Considered it could be the memory boards, our dealer took them, they promptly booted up his hawk system with no difficulty under 4.4. In case it was a case of the last update in the SYSTEM.INI file having been done under 4.3 went into it with vue and updated it under 4.4, still no luck.

Any suggestions?

P.S. Glad to see such a fine issue with little advertising. I would not mind seeing some advertising offered, for example a new program could be advertised once only to let people know about it. My former complaint still stands - You state AMUS members are given an individual account and password on system., None of us who are members in Winnipeg have ever received either of these. Thus my complaint about insufficient information about how to access the Boulder Computer - We haven't even tried for the last 6 months because of this.

Ed Note: Log-on names and passwords are available from Sharon; Please write or call to obtain them.

Paul M. Eliseo
5137 Youngstown-Poland Road
Youngstown, Ohio 44514

Anyone have any information on the AM-100 users group? I've been a member for over six months and have not received a single thing. I've written a few times and got no reply.

Thanks for the fix for DSKPAK.PRG works great.

We are interested in buying used Alpha Micro equipment in good condition, write or call to the above address.

We have written a job costing system for mechanical contractors, and are in the process of writing a estimating program for mechanical contractors. Anyone interested? Give us a call or write.

Peter A. Jacobson
Custom Software and Data Processing
1169 Lakeside
Birmingham, Michigan 48009

Just a few notes on the last (Vol 4 Iss 1) newsletter:

VUE - Despite the voluminous reports of bugs (most of which we consider bordering on the miniscule), the program provides spectacular performance, especially considering that the Alpha Micro is a general purpose computer and not a dedicated word processor. We could all still be using EDIT.

Note: Regarding the /NOYANK option, it doesn't matter what is entered, VUE is only looking for the /.

FIX: The RAD50 command does indeed work. The argument passed to the overlay processor is the address of two contiguous words to be unpacked. If the address is a direct register as in "RAD50 R3": the contents of R3 and R4 will be unpacked. Normally, the command is used with an indirect register argument as in "RAD50 @R3": the contents of the location addressed by R3 will form the base address for unpacking.

Also, FIX has two undocumented commands. The first allows the "SPEC" command to be abbreviated as simply "I". The second command allows one to single step through the supervisor calls. This feature is invoked by typing "NOSVC T". Unless the consequences of using this command are fully understood, we strongly urge the user to refrain from experimenting with it (i.e. it sets breakpoints in the monitor and should obviously only be used with a single job on the system).

FLTCNV.PRG is the system program used for converting numbers in one representation to another. It is used extensively by many of the BASIC assembly language subroutines. In the February 1980 issue of SOFTWARE NOTES (Volume I, Number 1) on pages 19 through 21, Alpha Micro documented its use for assembly language programmers wishing to use it directly. However, the documentation neglected to point out the following two very important restrictions:

1. The routines scale and unscale the floating point arguments passed to them based on the content of the location addressed by 126(RO). This location is normally part of the BASIC runtime control block and

contains a one word signed integer argument with negative numbers carried in twos complement in effect. The programmer should set this location up before calling any of the routines or the results will be unpredictable.

2. Any floating point number with an exponent of zero is considered to be zero by the floating point arithmetic instruction set. The FLTCNV routine which converts from floating point format to ASCII does not test the exponent, but rather tests the whole word for zero (BASIC clears the most significant word of any floating point argument with an exponent of zero). The result is that if bits 14 through 7 are 0 and any other bits are set it will take a long time for FLTCNV to return. The program should therefore test just these bits (the exponent) before calling the conversion routine.

Regarding the suggestion for a /CLUSTER option to the PRINT command, Lefford F. Lowden is completing work on a greatly enhanced print SPCOL package that will offer a similar feature, vertical forms control, and just about anything else one could ask for.

Special note to Lee W. Besing: The CHR\$(X) function in BASIC returns a character datum which represents the X+1 position in the ASCII collating sequence. It is X+1 because the first ASCII character, NULL, is represented as 0. For example, CHR\$(7) generates the ASCII code known as BEL which rings the terminal of the first thirty-two characters (positions 0-31) are not represented by keys on terminal keyboards, they are produced by typing the CONTROL key in conjunction with some other key. Hence, as you surmise, CHR\$(17) is indeed CONTROL Q. ASCII codes 1 through 26 are entered by typing CONTROL A through Z. Note that because terminal manufacturers define which ASCII codes perform special screen handling functions, certain codes will not perform the same function on different terminals and it is best to use the BASIC function TAB(-1,X) for screen handling chores in BASIC programs. A complete listing of the ASCII code is reprinted in the back of the AMCS System Commands Reference Manual.

Seishin Maruhashi
General Manager
Piiceon, Incorporation
2350 Bering Drive
San Jose, CA 95131

I need to correct erroneous information which was supplied to you be a (former) PIICEON employee, and was subsequently published in the January 1981 newsletter.

Though we normally supply Alpha Micro Dealers with our memory boards, we will sell to users with the following stipulation:

1. C.O.D. orders are preferred; however, we can figure the total cost of an order (including exact freight charges) if a customer wishes to pre-pay.
2. Sales tax, figured at 6 1/2% will be added to all orders originating in California.
3. While the SUPERAM 2 is made especially for the AM100, the retail price is \$1600. This memory board can be purchased for \$995 only in large quantities.
4. SUPERMEM is specified either 64k RAM or 32k WORD. It can be jumpered to work with either the AM100 or AM100T. Retail price is \$2600/ea. Large quantity price is \$1700.
5. SUPERSTORE is usually specified 128k RAM. It is also able to perform in both the AM100 and AM100T systems, with proper jumpering. (Jumpers are designated in the technical manual). Retail price for this board is \$2600/each.

Pat, while PIICEON is fully aware of the fact that it is the Alpha Micro users that have indirectly helped us grow, we want to re-emphasize our position as a manufacturer of quality products. This means our efforts are geared toward reliable factory methods and sales - we are not necessarily a retail company. Since we fully guarantee our products, we welcome those calls from customers who need to send a board in for repair. Our innovative spirit compels us to be eager to assist any customer with special configurations or customizing necessary for a certain application.

However, I want to make sure your readers perceive us for what we are - a manufacturer of quality memories and other related computer products, geared toward high volume sales. Thus the retail sale stipulations I outlined above.

Please let your readers know we're glad they're out there, and are curious about any suggestions for product enhancement they might have.

Stanley Davis
15/17 City Road
London EC1Y 1AA
LDE Box No. 274

I thank you for your note, confirming that we are now members of the Alpha Micro Users Society.

Our configuration at the present time is as follows:-

Am 100 16bit CPU
CDC 10 Megabyte Drive
64k Memory
2 - DTI Terminals
1 - Lear Siegler Printer
1 - Diablo 1650

The computer was purchased as fully 'multi-tasking' machine, but we soon discovered, to our horror, that this was not correct, since there was no file-lock in operation.

This has been corrected to a great extent, and we are now able to process our sales ledger programme, and operate 'VUE' simultaneously.

One area which is giving us constat and continuous trouble is the Operating System falls down, and we have 'Bugs' appearing in unusual places.

I must explain that we are using Alpha standard packages for sales ledger and Vue, which have not been tampered with in any way, and these have been up-dated only by Alpha U.K. We wonder whether other suers are having similar experiences or whether you can help us in regard to our plight.

Separate from this, we are looking for a software programme to interface Vue with sales ledger, whereby the customers file can be accessed. I wonder whether any of the users have this facility?

Robert M. Cohen
Attorney at Law
9 Washington Place
Troy, New York 12180

The AMUS newsletters are now arriving in much more timely fashion. I appreciate your efforts to get them out closer to schedule. Also, I was pleased to see in the February issue that you were resuming short listings of utility programs. I have just about given up on obtaining things from the AMUS computer; it generally seems to be down or I can't log in properly. And, when I can get on it, the line charges are horrendous.

CLASSIFIED

A couple of questions: (1) was there a December 1980 issue? If so, please send a copy to me, as I never received it; (2) in the October/November issue you reprinted a letter to Steve Elliott from Bob Carrier in which he says he's been sending AMUS copies of Software Notes. What is happening to them? The couple of issues I have gotten hold of seem useful, and are much more tame than I had supposed (I really can't understand why Alpha Micro is so worried about end users seeing them). Excerpts or straight reprints should be included in the AMUS Newsletter.

Keep up the good work.

Ed Note: There was no December 1980 issue; Software Notes will be a regular feature of the newsletter beginning with the May issue.

Bob Fowler
Alpha Information Systems
800 San Antonio Ave
Palo Alto, CA 94303

Special Bug Report & Fix

(1) 210DVR.DVR --- a fix for the lockup problem between multi-users. ALL released versions of the 210DVR driver have the same lockup bug. AM's advice to "use the 4.3 driver" doesn't help (has same problem). Here is a DDT fix that should solve the problem (use on 4.4 210DVR.DVR).

```
1260/  ADDI 4,R1      MOV #4,-(SP)  <lf>
1264/  SVCA 22       BR 1520      <cr>
1520/  CMP @#122,R1  <lf>
1524/  BNE 1520     <lf>
1526/  MOV @#122,R1 <lf>
1532/  DEC @SP      <lf>
1534/  BNE 1520     <lf>
1536/  IW2 SP       <lf>
1540/  BR 1270     <lf>
```

Hash codes: Old : 547-727-063-500 , New : 542-325-467-501

Remember to use FIXDVR afterwards, COPY STD.DVR=<name>.DVR, re-boot.

Note: this report will be included in AMUS buglist #17.

Ed Note: Only experienced programmers should attempt to use DDT. Please ask your dealer or consultant for help if you are not familiar with its ramifications.

Simran Sat Sangeet Singh Khalsa
5880 San Vicente Blvd.
Suite No. 103
Los Angeles, CA 90019
(213) 933-8457

Simran Sat Sangeet is looking for Wangco Floppy Disc Drives. Also, he has a floppy Disc AM-100 system for sale.

* * * * *

David J. Kacala
35 N. Montford Avenue
Baltimore, MD 21224
(301) 732-4437

FOR SALE

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* * * * *

Bill Papa
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679 Camphor Way
Upland, CA 91786
(714) 981-0202

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Want to buy a set (one of each) AM100, AM200, AM300 boards for spares.

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All Respondents
TABLE # 13

| SEX OF RESPONDENT | HIGHEST DEGREE | | | | | | TOTAL | Count % of Row % of Col |
|-------------------|------------------------|---------------------|------------------------|------------------------|----------------------|---------------------|-------------------------|-------------------------------|
| | Ph.D. | M.D. | Mesters | Bach- elors | Other | No Res- ponse | | |
| Male | 429 61.5% 92.5% | 7 1.0% 100.0% | 95 13.8% 85.0% | 143 20.5% 85.1% | 16 2.3% 100.0% | 6 0.9% 85.7% | 697 100.0% 89.9% | |
| Female | 34 45.9% 7.3% | 0 0.0% 0.0% | 17 23.0% 15.0% | 23 31.1% 13.7% | 0 0.0% 0.0% | 0 0.0% 0.0% | 74 100.0% 9.5% | |
| No Response | 1 25.0% 0.2% | 0 0.0% 0.0% | 0 0.0% 0.0% | 2 30.0% 1.2% | 0 0.0% 0.0% | 1 25.0% 14.3% | 4 100.0% 0.5% | |
| TOTAL | 464 59.9% 100.0% | 7 0.9% 100.0% | 113 14.6% 100.0% | 168 21.7% 100.0% | 16 2.1% 100.0% | 7 0.9% 100.0% | 775 100.0% 100.0% | |

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alpha peripherals, inc.

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Software Report Form

Software name _____

Software category
(legal, medical, etc.)

Developer _____

Brief description: _____

Number of current users: _____

References: _____

Minimum hardware configuration: _____

Special hardware requirements: _____

Batch mode: yes ___ no ___

Real time: yes ___ no ___

Multi user: yes ___ no ___

Interactive: yes ___ no ___

Language: _____

Documentation supplied: _____

Price:

Hard disk (specify model)

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Source _____

Source _____

Object _____

Object _____

Company name: _____

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Please complete and return to Sharon Greene, AMUS,
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Circle one: Own Lease Thinking

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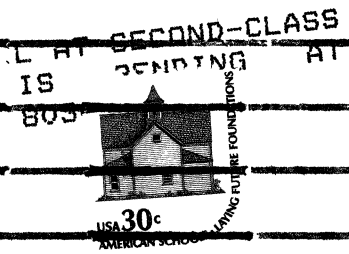
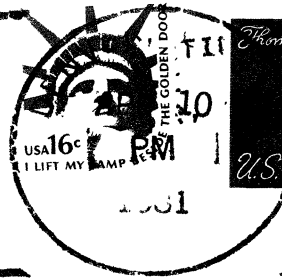
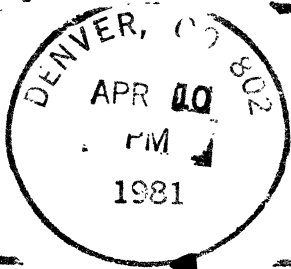
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