

# AMIGA news

Vol. 1 No.9

95¢

## Arcade Action

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## Attention Amiga User Groups

You're one of our resources on what concerns Amiga users today. Your opinions mean a lot to us! If your group publishes a newsletter, please add us to your mailing list. Don't forget, selling Amiga News is a great way to earn extra money for your club. Call Mary or Pauline at (603) 924-9455 for details.



## Enterprising Officer Busts Dust!

### Klingon Endorses New "Green" Cleaning Products

By Bob Liddil

Aboard the USS Enterprise, dust is a constant problem. It can accumulate on CRT screens and interface surfaces creating an unsightly, even potentially danger-

ous situation, where science, navigation and weapons computers are concerned. Lt Worf (Security, Weapons Officer) requires

Continued on page 4

## Commodore Breaks New Ground . . . *The World of Amiga Show in Pasadena Brought More Than Just New Products!*

Commodore, as expected, released several new products, including the long awaited Amiga 600. The surprise appearance (to everyone but *Amiga News* readers) was the new Amiga 4000, which was not just an upgrade of the 3000, but a new class of computer using the new AA chip set. For more details on these new devices, see the articles elsewhere in this issue.

A pleasant and unexpected surprise from Commodore was their new attitude. The new president and general manager of Commodore, James J. Dionne, made a point of stressing that Commodore wants to work *with* the Amiga user community, and intends to do all that he can to provide them the support they desire. He told us that over the weekend of the show (September 10-12) Commodore was mailing the exact same press kit we had in our hands to all the user groups on Commodore's mailing list. He added that all future mailing of press materials would also go to these user groups.

Backing up this support, Mr Dionne said, was Commodore's new magazine advertising campaign. This campaign, which started the week of the show, uses aggressive advertising comparisons between the Amiga and IBM/Macintosh computers to



The store display unit for the Amiga 600.



The Commodore booth was packed. Amiga. These advertisements will run in the major IBM PC and Macintosh magazines, not just the Amiga magazines.

## OTHER NEWS

The show was much better attended by  
Continued on page 10

**All The World of Amiga New Product Announcements In This Month's Issue!**

**(and watch this space for an exciting new product!)**







## The Amiga 3000T - For Real, Fer Shure

Commodore has released a new version of its Amiga 3000T multimedia workstation. This version is powered by a 25MHz Motorola 68040 processor, making it the most expandable and powerful Amiga currently available. Manufacturer's Suggested retail price is \$5,998 (which includes a monitor) until September 30, 1992. Units should be available in mid September at authorized Commodore reseller locations.

The Amiga 3000T-040/200 features the Motorola 68040 processor with an integrated math co-processor and provides approximately 20 CISC MIPS and 3.5 DP Megaflops. The 68040 equipped A3000T includes AmigaDOS 2.0 and comes standard with a 200 MB hard disk drive, a 3.5" floppy disk drive, 5MB of RAM (expandable to 18MB), and 32-bit bus architecture.

The Amiga 3000T comes with CommodoreExpress Gold Service Options, (Commodore's service program) and is backed by a one-year limited warranty.

Contact: Commodore Business Machines, 1200 Wilson Drive, West Chester, PA 19380. (215)431-9100, fax (215)431-9156. □

## High Quality Color Printing with ASDG's TruePrint/24

ASDG, makers of *Art Department Professional*, now make high-quality color printing available to all Amiga owners.

*TruePrint/24*, a stand-alone printing utility can produce prints with 16 million colors (24 bit-planes) on most *Preferences* supported color printers without the need for custom drivers. *TP/24* can also print 256 shades (8 bit-planes) of gray on black and white devices, such as laser printers. Prior to the release of *TP/24*, the Amiga's operating system was limited to printing 4096 colors or 16 shades of gray.

*TP/24* provides dithering and halftoning techniques, including traditional as well as artistic methods. One method even allows the printing of images with 32 shades of gray on character-only devices such as daisy wheel printers.

*TP/24* is fully compatible with *Kickstart* versions 1.3 and 2.X. *Art Department Professional* is not required to use *TP/24*.

Suggested retail price for *TruePrint/24* is \$89.

Contact: ASDG Incorporated, 925 Stewart St., Madison, WI 53713. (608) 273-6585. □

## Special Amiga CD Solution Offer Marketed In North America By Free Spirit

If you've been waiting for a good reason to buy an Amiga (and how many do you need, anyway?), here's another one. If you purchase an Amiga 3000-25/50 or Amiga 3000-25/1000 before October 31, 1992, you will also receive a free CDTV multimedia player and interface kit from Commodore. The "Amiga CD Solution" promotion offers an attractive option for Amiga users who want expanded audio and MIDI capabilities, access to CD-ROM discs from other platforms, and the ability to run CDTV applications.

Adding the CDTV Player and Interface Kit to an Amiga allows you to access hundreds of CD-ROM discs based on the ISO-9660 format. According to Commodore Director of Business Marketing, David Archambault, "Utilizing the CDTV player as an intelligent peripheral opens the door for users to hundreds of text, music and picture collections available on CDTV-readable ISO-9660 disks. Text data and picture file formats can be converted from MS-DOS and Macintosh formats using existing Amiga-based software. The promotion is ideal for any Amiga users, particularly home and educational video enthusiasts seeking expanded, low-cost features."

The "Amiga CD Solution" also offers

users expanded audio and MIDI capabilities through the CDTV player. The unit can play standard audio CDs, CD+Graphics, CD+MIDI discs, and access the large library of CDTV specific titles. Both the Amiga and the CDTV player maintain the ability to run thousands of Amiga disk-based applications as well.

The Interface Kit includes a specially configured parallel port cable for connection between an Amiga and CDTV player; the ParNET file system, allowing two-way communication between the systems; and the Fred Fish CD-ROM collection, containing over 600 freely re-distributable programs.

Manufacturer's Suggested Retail Prices for the Amiga 3000 25/50 and the Amiga 3000-25/100 are \$2,729 and \$3,379 respectively. Current Amiga owners can purchase the CDTV Player and Interface Kit for \$599. This promotion is offered through Commodore authorized reseller locations and is not valid with any other promotion.

Contact: Commodore Business Machines, Inc., 1200 Wilson Drive, West Chester, PA 19380. (215) 431-9100, fax (215) 431-9156. □

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4 disks packed with fonts that are Pagestream specific. Postscript and non-Postscript font types. These fonts are different from the ones offered in the 300 font collection. Now there is no reason why you can't be a junior Fontriester. By the way, to be a senior Fontriester you need to buy our 300 font set!

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### EPS CLIP ART \*

8 Disks Compressed with Hundreds of pieces of EPS clip art. This collection of fine Images has taken many months to do. They come from different computer platforms. The clipart is arranged by subject matter, too many to list here. This is the largest Shareware EPS clip art collection for the Amiga. With LZ.

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10 months in the making, this comprehensive set works flawlessly on your Amiga, fulfilling all your font needs from A to Z.

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**\*Shareware Exclusively Licensed to 80 Track Software**

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**Must be over 18 to order! \$20**

### WORKBENCH UTILITIES

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SB1 - Screen Blankers Galore! 1.3/2.0 \$4.00  
T2.2 - Great Telcom Program, Term 2.2  
2 Disks works only under WB2.0 \$8.00  
SID2 - Fully working great Directory util  
demo. Can't save custom setup \$4.00  
VIR1 - Virus Arsenal! For all Amigas! \$4.00  
Tons of Virus Killing programs

### CLIP ART-1 \*

5 Disks Compressed with Hundreds of pieces of clip art. Many different subject areas to choose from. You'll be amazed at the quality of the artwork. These disks also come with LZ one of the most powerful and easy to use tools for compression & decompression. LZ has allowed us to put 10 disks worth clip art on only 5 disks. All clip art is IFF Bit Map - a mix of Hi-Res & standard IFF types. \$20

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A bunch of Pacman type Games

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## Continued from page 1

his operations surfaces to be spotless. *Amiga News* recently interviewed Yeoman M. Gveltvitz of Maintenance Division, to discuss what it is like trying to keep dust and foreign material off the bridge, and what it's like to report to a Klingon in matters of computer cleanliness.

AN: Is it tough keeping the computers clean enough to satisfy Worf?

YMG: Once, not long ago, he found some dust on the screen of the Photon Torpedo Tracking Computer, called down to maintenance and growled, "I am *not* a merry man!" That was our cue to do something quick.

AN: So what did you do?

YMG: Well, as it happened, we were in standard orbit around Earth, in the year 1992, for some reason or another, and since I know a little Earth history, I understood exactly what to do.

AN: What was that?

YMG: I bribed Chief O'Brien to beam me up a case of STATX products as we passed over Buffalo Grove Illinois. They introduced a great line of computer cleaning products in 1992 and I figured they wouldn't miss a case or two. Worf was happy, the rest of the bridge crew was happy, and all my problems were solved.

AN: Thanks for helping us clear that up.

## THE REST OF THE STORY

*Amiga News* decided to further investigate the phenomena of clean keyboards and screens. Here's what we discovered.

\*\*\*

Buffalo Grove, Illinois, USA Earth, 1992 — A new, extended family of cleaning and protection products for home and office electronics from STATX Brands Company have joined the company's flagship STATX dust-repellent cleaner and anti-static protector. The new products are the Tornado Dust Removal System and High-tech Wipes cleaning cloths with exclusive LintBlock Protection.

"Along with new technology has come new needs," commented Robin Weiss, Company President. "Traditional cleaning products are abrasive and harmful to today's new plastic and metallic finishes.

They also conduct electricity, which can seriously damage computers and other electronic equipment, especially computer keyboards."

Highlighting the new STATX Brands products is a "Complete Cleaning System" package at \$18.99 suggested retail price. It includes two six-ounce cans of STATX, anti-static formula to repel and remove screen dust, a ten-ounce can of Tornado, (high pressure air for dust removal from keyboard and interior surfaces where wiping is inappropriate, and two bonus Lint Free Wipes cloths. Other multi-unit packaging includes a STATX two-can pack at \$9.99 and three-can pack \$14.99, each including two bonus Wipes.

STATX is also available separately in a new three-ounce can at \$2.69 and in the original six-ounce can \$4.99. Three Tornado sizes include 4.5-ounce \$5.69, 10-ounce \$7.49, and 15-ounce cans \$9.99. A 12-pack of Wipes is offered at \$4.99.

(By the way, we tried this stuff and it works great! Now back to your article).

Tornado directs a powerful blast of air to clear dust and lint from hard-to-reach areas through its nozzle or with its supplied extension tube; it is ideal for computers, office equipment, audio and video products, photography, electronics hobby uses, and many other applications. (It is also useful for model-making applications, as well, and for de-dusting disk drives.

Wipes high-tech cleaning cloths are lint-free and non-abrasive. They are extremely durable and highly absorbent. Wipes offer significant savings and performance advantages over paper towels because they are washable and reusable.

STATX was judged "one of the most innovative consumer electronics products of the year" by an industry panel that selected it for the "INNOVATIONS/Design & Engineering Exhibition" at the 1991 Summer Consumer Electronics Show. This unique product features a proprietary dual-action formula to prolong the life and help avoid costly repairs for computers, laptops, monitors, keyboards, and hard disc/CD ROM drives; copiers and FAX systems; and other business electronics products. STATX also safely cleans and

protects TVs, VCRs, video games and all other home entertainment components; microwave ovens and household appliances; optics and photo equipment; and home-office and entertainment furniture systems and other high-tech surfaces.

STATX is a non-abrasive cleaner, unlike today's traditional glass and household cleaning products. It is safe and effective because it is quick to evaporate and will not streak or leave a residue on any surface. It is applied with a light sweeping spray and then wiped immediately with a soft cloth.

Citrus-scented STATX and new Tornado contain no chlorofluorocarbons (CFCs). (That's good news for all of us green-minded people who like to do our bit for Mother Earth when we can).

Promotional activities for the STATX Brands products, including in-store displays and national advertising, are being conducted in conjunction with Paramount Pictures and its STAR TREK: The Next Generation, the top-rated TV show.

Colorful new consumer-friendly packaging includes a selection of multi-prod-

uct combination packs that are available at home office superstores, computer superstores and dealers, as well as consumer electronics department store and discount store retailers that sell computers and home office electronics. (Just look for Lt. Worf on the display).

## THIS IS GOOD STUFF!

As McCoy from *Classic Trek* might have said, "I'm a Doctor, not a dustbuster!" I would just as soon never have to do a maintenance task. But with the three products mentioned in the above article, I've managed to clean everything in my work area without a lot of hassle and without the major guilt trip normally associated with spray stuff. My opinion is simple. Get this stuff and wipe/blow the accumulated gunk off your gear. Look for Worfie, and also ask about the 25th Anniversary Star Trek Wrist Watch that Robin's giving away as a part of this promotion. I got one and it works perfectly, plus it blew away my at the last Starfleet meeting. They can't get them. Only you and I know how.

Great products. Terrific watch. Cool promotion. Winner. □

## Digital Micronics Premieres Digital EditMaster

Digital Micronics Inc. adds *Digital EditMaster*, a digital editing system for the Commodore Amiga 2000 and 3000 series computers, to its professional multimedia product line. DMI's new product turns a Commodore Amiga into an entire video editing system for use by video production houses, professional videographers, and video enthusiasts. Traditional editing equipment with similar capabilities cost upwards of \$100,000. Suggested list price for the *Digital EditMaster* system is \$2,495.

The heart of DMI's new system is its video compression board which digitizes, compresses and stores traditional video segments onto the computer's hard disk drive in real time. This amazing technology allows users to record video segments from their VCR or video camera directly into their Commodore Amiga. The video segments can then be edited, modified, and played back in real-time to a monitor or directly to video tape. DMI's *Digital EditMaster* system allows instant access to any number of video segments stored on

the hard drive, giving complete creative freedom and flexibility to the editor. The final edited version of the production is as simple as hooking up a VCR or laser disk player/recorder and pressing record.

The *Digital EditMaster* system is a computer animator's dream come true. Typical animation frames can be compressed and stored to the hard drive on a frame-by-frame basis. The animation can then be played back in real-time, directly to tape, without the need of an expensive frame-by-frame recorder. Video clips and computer animations are easily combined to produce stunning Hollywood-style special effects.

The *Digital EditMaster* video compression board is based on full motion JPEG technology and the JPEG chipset from LSI Logic.

Contact Dean Tucker, Director of Marketing, Digital Micronics Inc., 2075 Corte del Nogal, Ste. N, Carlsbad, CA 92009, (619) 931-8554 or (619) 931-8516 fax for more information. □

## ABS Designs

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## DeskTop Library

CDROM ISO9660 \$34.95

This CDROM Disc contains hundreds of books in standard ascii files for all computer systems. Including: Aesop's Fables, Shakespeare, books by Mark Twain, Jules Verne, The Holy Bible, The Constitution, Treaties and international agreements, 1991 CIA world fact book, dictionaries, thesauruses, and hundreds more.

X11R5 and GNU CDROM \$36.95

Contains all the X11R5 Window System source at patchlevel nine. The complete UseNet comp.sources.x archives. The GNU Source if from the Free Software Foundation. Includes GNU EMACS and GNU Compilers. Use with the AmigaDOS X-Window system, Amiga UNIX, or any UNIX workstation. Includes Games, PostScript preview, Utilities, and Terminal Emulators.

Dealers Send us a business card for a listing of new Amiga products

## Amiga Digital Sounds and IFF Digitized Images

Sound samples from Korg, Alesis, Roland, Yamaha, Ensonic, EPS, Mirage, Live Acoustical Instruments, and many more. All samples are precision edited and available by categories or mixed. The IFF Images are B/W and color images perfect for importing into drawing programs or wordprocessor programs. **2 DISCS ONLY \$9.99**  
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# Win A New Amiga!

Enter Commodore's "4000 Reasons to own an Amiga Contest"

As part of its publicity campaign showcasing the new Amiga 4000, CBM will award an Amiga 4000 (\$4,500 value) to the Amiga user with the best overall re-

sponse to the statement "My reason for owning an Amiga is...". The second prize winner will win an Amiga 600 (\$1,100 value).

Contest entry forms are available at authorized Commodore reseller locations

and must be postmarked by October 23, 1992. Entries will be judged by the staff of Commodore and a selected group of independent experts. The winners will be announced at The COMDEX Show in Las Vegas on November 16, 1992. □

**SEE YOUR LOCAL DEALER FOR THE NEW AMIGA  
BUTTONS AND T-SHIRTS FROM COMMODORE.**



## CONTEST RULES:

1. Commodore is looking for the best reason, in 25 words or less, for using an Amiga in the following applications: Video, Entertainment, Presentations, Interactive, Education, Scientific/ Medical, Miscellaneous Applications. The reasons are to be written on the entry form above. No purchase is necessary.
2. Amiga users of all ages and all professional or non-professional uses are eligible.
3. Only one entry per person and one application per entry. Proof of ID is required of the winner(s).
4. All entries must be post-marked by October 23, 1992.
5. Winners to be announced at The COMDEX Show in Las Vegas on November 16, 1992.
6. Employees of Commodore Business Machines, Inc., Commodore Electronics Ltd., Commodore International Ltd., their advertising and promotional agencies and their immediate families are not eligible to enter this contest.
7. Entries will be judged by the staff of Commodore and a selected group of independent experts.
8. Entries will become the property of Commodore, which reserves the right to use or publish all entries received without further release or authorization. Winners acknowledge that Commodore has the right to publish their name and photo in publicity relating to this contest and/or Commodore's products. No entries will be returned, so please make a copy of your entry.
9. Contest is open only to residents of the U.S. and Canada.
10. Prizes awarded to winners will be shipped within 30 days of notification. Commodore will pay all shipping charges. Winner(s) will be responsible for all taxes.
11. Non-winning entries will not be acknowledged.
12. Void where prohibited.

## ADPRO Now Supports Abekas

Art Department Professional owners can now read and write video streams using the same file format and hardware medium used on the Abekas A60, A65 and A66 Digital Disk Recorders. This capability dramatically increases the appeal and usefulness of the Commodore Amiga to video professionals.

Using this support, digital video images stored on 8mm cartridge tapes can be directly exchanged between the Amiga and Abekas A60, A65 and A66 systems. As a result, it is now more likely that professional videographers will use Amigas for high-end video work.

Additionally, videographers who do not own an Abekas system but so own an Amiga, can create digital video streams (essentially treating the 8mm tape drive as a single frame recorder) which can be used by an Abekas-equipped post-production

facility.

Before this, transferring video streams to and from high-end digital video systems was extremely time-consuming, if not impossible, due to the sheer bulk of the data.

These limitations are eliminated by ASDG's ADPro loader and saver for the Abekas format since these modules can directly control the same type of tape drive (from Exabyte) and interpret the same file format used to store the Abekas images in the first place. Full overscan broadcast frames can be read or written in as little as 11 seconds on a stock A300.

ADPro support for the Abekas carries a list price of \$200 and requires a Commodore SCSI disk controller and an Exabyte tape drive to function.

Contact: ASDG, Inc., 925 Stewart Street, Madison, WI 53713. (608) 273-6585. □

## Boppin'

*Boppin'* is an unusual game. It combines both puzzle and arcade elements to provide an experience different from any product currently on the market. It has been likened to "a cross between Tetris and Mario Brothers."

*Boppin'* uses such unusual inventions as a "Reverse Polarity" storyline in the rescue of Evil from the clutches of Good.

*Boppin'* is capable of a vast array of puzzles and three levels of difficulty. The first (Easy) is essentially a trainer — fifty levels of basic introduction to the concepts involved. Level two (Medium) introduces serious puzzles: puzzles of arrangement, puzzles of trajectory, puzzles of timing and accuracy. Level three (Hard) is utter viciousness. The very fringes of *Boppin'* physics and of player ability are tested. In total, 150 screens, no two alike, provide absolutely varied graphics and feel.

*Boppin'* runs on all Amiga platforms from the A1000 to the A3000.

Retail price for *Boppin'* is \$39.95.

Contact: Karma Soft, P.O. Box 1034, Golden, Co 80402-1034. (303)490-2939, FAX(303)986-3134. □

## November 7 is Convention Day!

*Amiga owners, take note. On November 7, there will be two conventions in the US for Amiga lovers.*

### ACE CON -- MISSOURI

The first Annual Missouri Amiga users convention will run from 9 a.m. to 9 p.m. Sponsored by ACE (Amiga Commodore Enthusiasts), the ACE CON will be held at Stephens College, Columbia, Missouri (1/2 way between Kansas City and St. Louis on I-70). This will be a full-day event centered around the users, and not the vendors of the Amia. Dozens of computers will be set up for use. Videos will be shown throughout the day and stage presentations of products are scheduled.

A modest \$1.00 registration insures your eligibility for door prizes.

For more information, contact Glenn Nielsen of Express-Way Software at (314) 474-8158.

### EXPO — COLORADO SPRINGS

If Missouri is too far for you Westerners to travel, you may want to look in on the Expo sponsored by the Commodore Club of Colorado Springs. Based on the theme, "Here is our Club — Come and See Us!", the Expo will be held at the TJ Maxx Center. There will be Amiga and CBM SIG tables for tables, as well as tables for local dealers. Admission is free.

For more information, contact Leon Hass, (719) 591-6353. □

## AmiGadget Offers Updated Disk for Desktop Video Workbook

First published in December 1990, *The Amiga Desktop Video Workbook* tells you what you need to know — and do — to produce desktop video programs with your Amiga — and it tells you in plain English.

However, since the volume was published, the *Desktop Video Workbook Resources and Utilities* disk, bound into the book, had suffered somewhat due to the fast pace of the emerging desktop video industry.

Version 1.02 of the disk contains expanded, improved, and corrected documentation, addresses, and other information and is available from AmiGadget Publishing Company for one dollar. Simply return the original disk with payment in U.S. funds (check or money order), to return a replacement disk, postage paid. International orders please add airmail postage for two ounces to your country, and the appropriate currency conversion to the price.

If you don't send in the original disk, the update charge is \$10.00.

Contact: AmiGadget Publishing Company, P.O. Box 1696, Lexington, SC 29072. (803)957-1106. □



# News from the Nets

## Rumor has it...

by Times Roman

First, the disclaimer. The information presented here is gleaned from press releases, news publications, and in many cases just plain rumors that are circulated on various computer networks. **Don't take any of it as pure fact.**

It's obvious that I'm a big fan of rumormongering, but recently on the **comp.sys.amiga** groups on **usenet**, someone took things a bit too far recently by posting official (classified, proprietary) CBM documents to the net. These documents were apparently included as part of the poster's pirated copy of an early beta release of the *3.0 Workbench*, and contained somewhat detailed, preliminary technical descriptions of *3.0* and the AA chip set (as they existed months ago when the beta was released to developers). Passing along rumors and identifying them as such is one thing, but posting proprietary documents on an international network is not something even I approve of. Not to mention the fact that at least one developer has blatantly violated non-disclosure agreements.

So what did these documents reveal? Suffice it to say that some of the rumors are true and some aren't. Many still haven't been addressed even by these documents. For instance, what kind of sound chip will the AA machines have? One rumor says it'll be the same old Paula. Another says it will be a new chip that can play either eight 16-bit voices or sixteen 8-bit voices. I still think there'll be a Digital Signal Processor on some of the machines, and at least one

UK magazine seems to agree.

### REAL DIGITAL SOUND

A Digital Signal Processor, or DSP, is essentially a very high speed math chip capable of performing complex calculations in real time (*i.e.*, no waiting). DSPs are used in high-end audio gear and in-

as Surround Sound processing, reverb, flanging, distortion, echo, and so forth. Sound isn't the only use for the DSP, though; with the proper software, it could be used to "emulate" a built-in high-speed modem or ISDN connection, with support for things like voice mail.

Commodore made a surprise move recently in letting go of (read "laying off") Gail Wellington, a long-time employee who has been a major pusher of numerous CBM products. Gail was perhaps the only member of Commodore's management who generally held the respect of the Amiga

as well as the resignations of those who left the company (read "laying off"), have prompted the fate of CDTV. The big backers of the project are still hard at work and add-ons for the TV.

### THE CLONES

It looks as if Commodore is starting to feel the damage of cheap clones. In 1991, Commodore announced a loss of 21.9 million on sales in fiscal

Processor, which is superior to the Motorola 56001 DSP (the one used in most of the above systems) in that it supports floating-point math and is more capable of using shared memory (like Amiga Chip RAM). This new sound system, says AC, will support 16 16-bit voices. What does this mean? Picture eight CD players working in unison and you begin to have an idea what this machine might sound like.

The DSP will not only allow such things as sound sampling and compression; it will provide a means of doing such things

Amiga much more visible and much more easily accessible through computer dealers.

In other "Amiga in the Media" news, a California computer magazine called *MicroTimes* recently ran an article praising the Amiga for its versatility in being able to emulate both the Mac and PC relatively easily. It went on to describe AMax and the bridgeboards. While it pointed out the shortcomings of the emulators, the article overall showed the Amiga in a positive light.

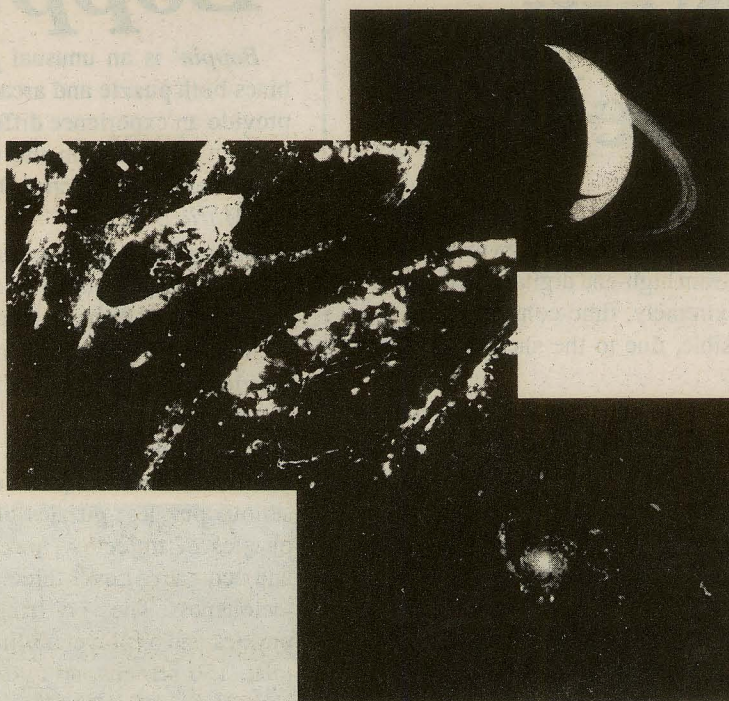
year 1992 were 911 million, as opposed to 1.05 billion for the previous year. Commodore is finally starting to invest some money in useful advertising and promotions for the Amiga, and with the new machines on the way it's likely that things will improve; let's just hope that this loss doesn't spur CBM to cut its newfound advertising budget.

In an article where the loss was discussed, the *Wall Street Journal* said that in spite of the bad quarter, the outlook for the stock (which dropped several points after the announcement) is good based on "good potential for new models of its Amiga personal computer, as well as some novel handheld products." Commodore's heavy reliance on the European market and the changing value of the dollar vs. other currencies has been cited as a large part of the reason for the reported loss.

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## HANDHELDS?

"Handhelds?" you ask. "What handhelds?" Very little information has come out about these rumored devices. They will likely not be portable Amigas of any sort, but will most certainly come with software to let them exchange data with Amigas and other computers. It's possible that CBM hopes to bring these to market to compete with Apple's upcoming "Newton" Personal Digital Assistant.

CBM has already announced the availability of two new Amiga products: the A3000T/040 and the 3640 board. The 3640 is a \$2,000 (list price) 25 MHz 68040 board for the 3000 Tower (but not for standard 3000s!), and the "new" 3000T/040 is essentially the '030 tower machine with the 3640 board pre-installed (and the '030 and '882 ripped out!) The 3000T/040 with 5 megs of RAM, a 1950 or 1960 monitor, and a 200 meg hard drive will start out at a price of \$5,998.

EE Times has reported that the PCMCIA specification (the A600 has a PCMCIA slot, as might other future Amiga models) will probably be plagued with incompatibilities between different hardware devices. Portions of the standard are not yet complete, while others are still under revision, so it's difficult to tell what kind of compatibility the fifty or more PCMCIA boards slated for release at Comdex will have with various PCMCIA-capable machines, the A600 included.

Commodore folks on *usenet* have hinted recently that they're hard at work on a vastly improved new release of *AmigaVision*, which will include, among other things, a freely distributable standalone player. This update will likely be announced at the World of Amiga show.

## MAGAZINE MURMURINGS

Doug Barney has left *Amiga World* for a position with *InfoWorld* magazine, a weekly generic PC paper that goes out to thousands of computer industry professionals. Hopefully he'll use his position there to get the Amiga at least mentioned once in a while. Replacing Doug as *Amiga World*'s Editor in Chief is Dennis Brisson, a 14-year publishing veteran whose former projects included *RUN* magazine for the Commodore 8-bit lines.

Jerry Pournelle got hold of an Amiga 3000T and, surprisingly enough, had some very nice things to say about it in a good sized segment of his regular column in the September issue of *Byte* magazine. He gave the 3000T a decent review and praised *Workbench 2.0*. (Interestingly enough, a full page Amiga 3000T ad ran in that very same issue...)

Jerry points out the Amiga's strengths in video and sound and throws in quotes like "it's here to stay" and "you may find yourself using it because it's just plain fun." He also points out a few real deficiencies of the system, such as the lack of high-quality business software in some areas. After faulting the Amiga for its use of terms like *Workbench* and *CLI* to describe its environment (as if terms like DDE, OLE, CD-ROM/XA, SX, DX, DX2,

etc. that appear in his columns are much more natural), then seems to indicate that the 3000 is the first Amiga that has ROMs and doesn't need a kickstart disk (and he even owns an A2000...). He also seemed amazed that *ProWrite* could read your WP documents to you. *ARexx*, *Art Department Pro*, and other packages were touted, and Jerry even said he plans to use the Amiga in some future presentations.

Phillip Robinson, who not long ago wrote the infamous "Amiga is Dead" article, has changed his mind a little after being flooded with calls and letters and being contacted several times by Commodore. His latest article is entitled, "The Amiga Lives — Just Not Competitively". Robinson still mostly clings to his asser-

tion that if you're not into video, don't buy an Amiga, but he also said that he hopes his writings would provide the "swift kick" Commodore needs. (In case Mr. "I declared the Amiga dead but didn't even know 2.0 or the 3000 existed (according to a net user who had a phone conversation with Phil)" Robinson hasn't noticed, Commodore seems to have definitely picked up steam in the last few months.

## GRAPHICS GALORE

With the promise of the rumored "AA" chip set on the horizon, Amiga users are eagerly looking forward to improved graphics to bring them back into line with some of the competition. But are things really so bad with the current available graphics, what with all the third-party cards that

have become available? Let's see, there's DCTV, the *Toaster*, the *Blender*, CBM's A2410, GVP's EGS and IV24, DMI's Resolver and their new Vivid24 (the long-awaited TI 34020 board), the *Harlequin*, *AVideo*, *OpalVision*, HAM-E and *Colorburst* (neither of which are still made, but they're still floating around out there), and upcoming new 24-bit boards from Europe with names like Greasepaint, Horizon, Kasmin, the G2 ImageEngine, and even a PAL toaster-like machine. PP&S' *Ram-Brandt* board and a high-end graphics board from Impulse are also right around the corner. All we need now is for CBM to embrace the SAGE or EGS device independent graphics libraries, or create a new one of their own, so developers can start

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writing software that will automatically and transparently work on any of these boards.

Amiga users (like me) who complain that they want Super VGA resolutions without paying thousands of dollars may soon have less room for complaint. X-Pert Systems of Germany has announced what amounts to a super VGA card for the Amiga. Using the reasonably fast TSENG ET4000 graphics chip, this board will deliver resolutions of up to 1280x1024 in 16 colors, with up to 1152x900 in 256 colors (from a 256,000 color palette). 32,000-color displays will be possible at resolutions of 800x600 or less. At a German price equivalent of about \$450 US, it's still not a steal compared to the El Cheapo Brand \$99 SVGA cards PC owners spout off about, but it's a big step toward more affordable high-res graphics. The card does, surprisingly enough, run most applications (through a patch to *graphics.library*), but it unfortunately will run only on machines with a 68020 or better processor. Will it reach us in the US? Let's hope so.

At the other end of the scale, DMI has released its Vivid 24 Zorro-III (A3000 only) board. At a base price of \$2995 (more for memory upgrades, multiple add-on coprocessors, video encoder, and video effects generator), it's not something you'll want to pick up in hopes of playing some really beautiful games, but for those in the high-end graphics business it's a real powerhouse. DMI has said that a fully loaded A3000 with '040 card and a decked-out Vivid24 will cost just over \$12,000. Sound expensive? Well, think of it this way: DMI says the system is designed to compete with the like of Silicon Graphics workstations which can cost over \$190,000... just for the hardware and operating system.

Yet another graphics board on the horizon: Black Knight Peripherals has an-

nounced plans to market a broadcast quality 32-bit graphics board for \$299!

### REMEMBER ATARI?

Yes, the ST folks are still out there in a few remote corners of the world, and lately they've been all over the Amiga newsgroups babbling about the latest ST-series machine that Atari is promising to release in the near future. The Falcon, if it ever hits the stores, will have a 16 MHz 68030, 16 MHz blitter, CD-quality sound (with the Motorola 56001 DSP mentioned above), and some new video-capable resolutions capable of displaying 256 colors from a 262,000-color palette. There will also be 32,768-color modes at 320x200 and 640x480. Some of these new modes will apparently also be able to display at video scan rates. The specs quoted from numerous Atari-related sources seem to indicate that the Falcon will have both IDE and SCSI ports built in (which makes little sense, but this is Atari, after all). A network port, high density floppy drive, 1 meg of memory expandable to 16, and a "processor direct" connector will join the serial, parallel and MIDI ports already present on the ST series. The surprise is that this system has a projected price of just \$700 (without monitor or HD).

If this machine makes it to market at the rumored price point, its rather extensive sound capabilities might just be enough to keep Atari alive in the music world, but its impact on computing in general will probably not be significant. On the other hand, if Commodore comes out with an under-\$1000 AA based machine (which it supposedly has plans to do), the Falcon might start to look a bit less competitive.

### UPGRADES AND NEW STUFF

In the category of "Long Awaited Products That Have Finally Arrived", this month's winners are *SimEarth* and

*CrossDOS 5.0 Plus*. *SimEarth*, part of the *SimCity* and *SimAnt* family, lets the player control the evolution of a world.

*CrossDOS 5.0* is the latest version of the well-known MS-DOS file system driver for the Amiga. Although several months late, the latest version speeds up the software and provides a better overall integration with the operating system by replacing certain 2.04 commands (*format*, *mount*, and others) with equivalents which understand *CrossDOS* as well as the Amiga file systems. It also provides a Commodity for toggling text translation on and off. Included in the "*CrossDOS Plus*" package is *CrossPC*, an enhanced commercial version of the shareware IBeM PC emulator. Although far from a speed demon even on an accelerated machine, it's fine for most text-based DOS applications. My one complaint with *CrossDOS 5*, aside from its lateness in shipping, is the fact that it was available for sale at my local dealer before I as a registered user got my upgrade...

Emplant, the "Mother of all emulators", still hasn't shipped as of this writing. Jim Drew of Utilities Unlimited blames FCC certification for the delay (which most likely translates to "negotiating the size of the bribe required to get it passed sometime in this decade"). While waiting for the hardware to be approved, though, more additions have been made to the software, including direct support for existing AMax partitions on Amiga drives.

Registered owners of Supra's new FaxModems (the v.32bis versions) should have received user-installable ROM upgrades for their modems once *News From The Nets* hits the streets. There were apparently some minor problems that needed to be corrected, and the free ROMs will take care of them.

Virtual memory for the Amiga is now available in Europe and is on its way to the

US (and may be available by the time you read this). It comes in the form of a program called *GigaMem* from a German software house. *GigaMem* will run on any '020 or '030 equipped Amiga with a hard drive (the faster the better). It allows the user to selectively activate virtual memory for specified programs so that, for instance, a user might let ASDG's *Art Department Pro* use a few megs of hard drive space as virtual RAM, while forbidding, say, a real-time animation package from doing so for the sake of speed.

Might we finally see an upgrade to the venerable *DeluxeMusic Construction Set*? Rumor has it that Electronic Arts is gathering programmers to undertake a major rewrite of *DMCS*.

ASDG, the Art Department people, are bringing two important new products to market. The first is *Morph Plus*, a high-powered package which basically provides a means of creating warping, mutating effects in transitions between pictures. ASDG claims that *Morph Plus* is similar in function to the morphing capabilities of *ImageMaster* and *DPaint 4*, but much more powerful. A look at ASDG's ads in recent *AmigaWorld* issues will provide some idea of what the package will do. With a \$295 list price *MP* isn't cheap, but the street price should be significantly lower and discounts will be offered to current *Art Department* owners.

The other new ASDG product is *TruePrint/24*. This package is a utility which will allow Amigas to print to Preferences printers in 24-bit color on color devices and 8-bit (256-color) greyscale on others. In addition to numerous dithering and halftoning functions, *TP24* offers the ability to output prints of any size (by breaking the print up into multiple pages) and to print directly from disk rather than requiring enough RAM for the entire image being printed. There's even a dithering mode that will convert pictures to ASCII graphics for printing to character-only printers like daisy wheels. Although *ADPro* has most of *TP24*'s features already present, *TP24*'s \$89 list price will likely attract many users who want such printing capability but don't want to invest close to \$200 on *ADPro*.

Joining the Sunrize 12-bit sound board soon will be a \$1300 16-bit board from the same company and, rumor has it, a 14-bit board from GVP. Specifications on the GVP device are not yet known, but the Sunrize board will provide... what else — a DSP, driving sixteen channels of 16-bit sound capable of sampling at CD speeds and quality with sixty-four times oversampling (!). It will support MIDI and SMPTE timecoding. This board apparently is designed primarily for integrating high-quality sound with video.

### TOASTERITIES

Watch your televisions in late November for a TV movie called *Babylon 5*. This film, and the series to follow, will feature stunning special effects created almost entirely with Toaster-equipped Amigas and *Lightwave 3D*. Set aboard a 10-kilometer space station in neutral territory between

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five interstellar empires in the year 2257. **Babylon 5** promises to help bring science fiction back into mainstream network television, as well as giving the Amiga and Toaster a tremendous boost as professional tools. **Babylon 5's** production crew includes folks who have worked on such films and shows as the *Twilight Zone*, *The Real Ghostbusters*, *Equalizer*, *Hill Street Blues*, *Honey, I Shrunk the Kids*, *Return of the Jedi*, the *Indiana Jones* movies, *The Addams Family*, *Terminator 2*, and *The Abyss*. And just so you don't think **Babylon 5** will be some kid's show for Saturday mornings, here's the unofficial slogan that M. Straczynski (co-executive producer/writer/director for the show) claims they've adopted: "No kids, no cute robots, EVER!"

(**Babylon 5** is not to be confused with **Deep Space Nine**, a *Star Trek* spinoff with a similar theme that's been thought up more recently.)

Remember the Todd Rundgren "Change Myself" video that wowed crowds in the early days of the Toaster? Attendees at this year's SIGGRAPH show will see the premiere of Todd's new Toaster-created video for a song entitled "Theology". It's quite likely that this new video will make the old one look like something done on a Mac.

#### APPLE'S LEGAL DEPT. EQUALS ENERGIZER BUNNY?

Apple Computer's lawyer armies just keep going and going and going.... This time, they'll be heading to court (or settling out of court) over the use of the name "Newton" for their upcoming handheld Personal Digital Assistant device. Who else has a claim to the use of *Newton* as a product name? Nabisco! Coming soon to a courtroom near you: the Apple Newton versus the Fig Newton. (There's an old story that Fig Newtons are allowed by the health department to contain flies' heads

up to a certain quantity.... I wonder what this says about bugs in Apple's products?)

#### ADIOS, AMIEXPO

AMIExpo, the group that has been responsible for the organizing of the various shows by the same name, has filed for bankruptcy, blaming their loss on the slowness of the Amiga market. Of course, it could also be related to the fact that they kept trying to compete against Commodore's own official Amiga shows, upsetting quite a few developers who couldn't afford to attend both.

#### LAST MINUTE NEWS

Just before this installment of *News From The Nets* was finalized, messages appeared on *usenet* claiming that Commodore Canada had made a number of official announcement pertaining to the part of the continent which falls under their jurisdiction.

The Amiga 600 is supposedly now officially shipping in Canada at a list price of \$799 (their dollars) with a 40 meg hard drive. Retail prices will be much lower, and the price will probably fall quickly.

The long-awaited DCTV add-on for CDTV was also announced, along with news that it and a CDTV hard drive would be shipping by the end of the year (probably sooner). The A570 CD-ROM drive is also now official and should begin shipping any time now (we've heard that one before).

The big news is the announcement of the Amiga 4000 with AA chip set. Although the first public showing of the machine, its existence has now been confirmed and shipping in time for Christmas was promised by CBM Canada.

□

## Aussie Software To Be Marketed In North America By Free Spirit

Free Spirit Software, Inc. has reached agreement with the Education Department of South Australia to market certain Satchel Software titles in North America. The Minister of Education and Children's Services, Mr. Greg Crafter, signed the agreement with Joe Hubbard, President of Free Spirit, in a meeting in Adelaide, Australia on June 30.

The Agreement covers the Satchel Software educational range which was developed by the Angle Park Computing Centre, a division of the Education Department. The Angle Park Computing Centre is a developer of high quality educational

software for use throughout Australian schools.

The Satchel Software titles to be marketed in North America include *Dr. Spellingstein*, *Math Booster*, *Granny's Garden*, *Picture Book*, *Flowers of Crystal*, *Dragonworld*, *Jara Tava*, *The Lost World* and *Fortie Jr.* These titles are for primary school students and are available for MS-DOS, Amiga and C64/128 computers. Each title has a suggested retail price of \$39.95.

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## Continued from page 1

both attendees and vendors than the New York show last spring. All the vendors reported excellent contacts with dealers and even more gratifying responses from the end users who attended. Several vendors were showing movies that had been compressed and saved to hard disk drives, but which were impossible to distinguish from video tape. Newer and better quality video editing boards and software also debuted.

NewTek did not have a booth at the show, a surprising development considering the number of video-related companies and consultants who came to the show from the Hollywood environs.

Newtek did fly in Saturday night and rent a woefully inadequate room at the Pasadena Hilton for a special presentation. They turned away at the door as many people as were in the room itself! They tried to compensate by scheduling a second showing two hours later, but most of those who were turned away from the first showing did not bother to come back later. Clearly, they do not understand just how popular the Video Toaster really is.

## TOASTER MARMALADE

Hollywood is where it's happening with the *Video Toaster*. There are probably more animation experts in the L.A. area than anywhere else in the world. Mark



The LA Toaster User Group's booth.

Stross, of Toaster Marmalade, was kind enough to give us a tour of his animation studio and a preview of some of the programs that will be appearing on your television screen this fall. Look for more on this in upcoming issues.

Mark Stross is also the president of the Los Angeles Toaster User Group, and the sample videos, contributed by members, there were running all three days were truly amazing. I recognized several commercials and logos on those tapes that I also had seen on TV.

For future note, Mark has consented to write several articles for us regarding the equipment he uses and on how to run an animation studio professionally and profitably. He will, as well, be providing us with application stories on the other members of the L.A. Toaster User Group, and how they operate in the fast-changing animation business.

## PLAYMATION

Speaking of animation, Anjon & Associates' new *Playmation* program was a real hit. This program is the only program that uses true ray-tracing to create the finished animation. While other programs,

such as *LightWave* (included with the Video Toaster), use ray tracing to create the model of the animation, the final product consists of myriad tiny polygons, betrayed in the final animation by jagged edges. In most animation work, these edges move by so quickly they aren't noticed, but careful observation will reveal their presence in slow scenes.

*Playmation* is easy enough that even a child can use it, and, in fact, many do use their parents' Amiga with *Playmation*. One

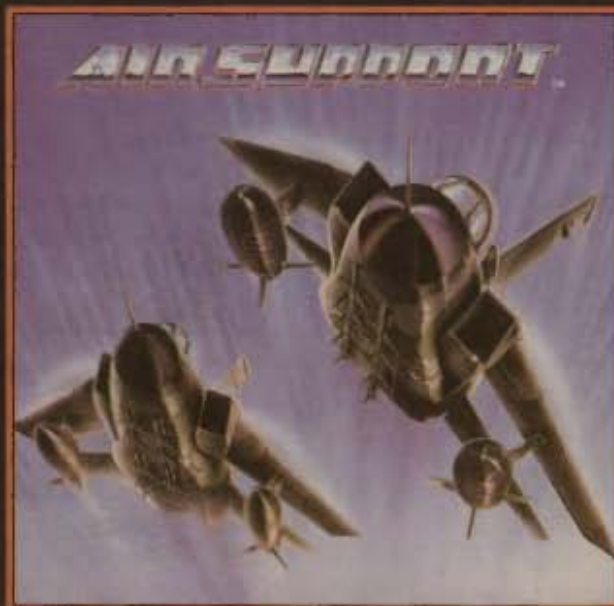
high school student used his Amiga and *Playmation* to win a scholarship to a Fine Arts college.

All in all, the show was quite a success. Thanks to all the guys and gals who managed to drop by our booth and say hello. Virtually all of them praised *Amiga News* and called it the best of the magazines for the Amiga.

## IMAGEMASTER

Trekking all the way to Pasadena from Montana, Black Belt Software showed off

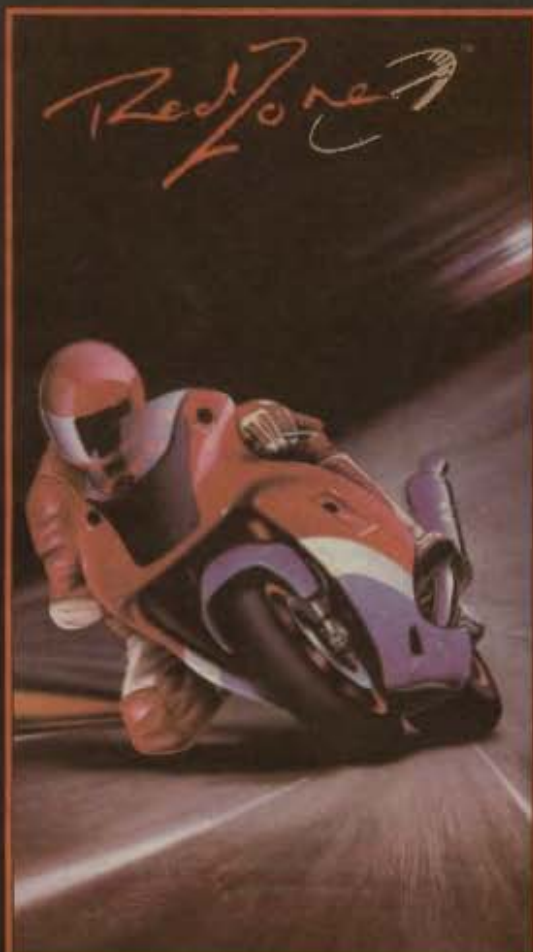
a dazzling new *Imagemaster* with "more than a hundred tweaks and new features" according to the pleasant young fellow who ran the demo. While many vendors at the show demonstrated the popular "morphing" techniques, BBS delivered a stunning princess-to-frog routine that blew us away. We should be getting a new copy of *imagemaster* in the mail soon, so the details on how to do all these neat new things should be forthcoming. □



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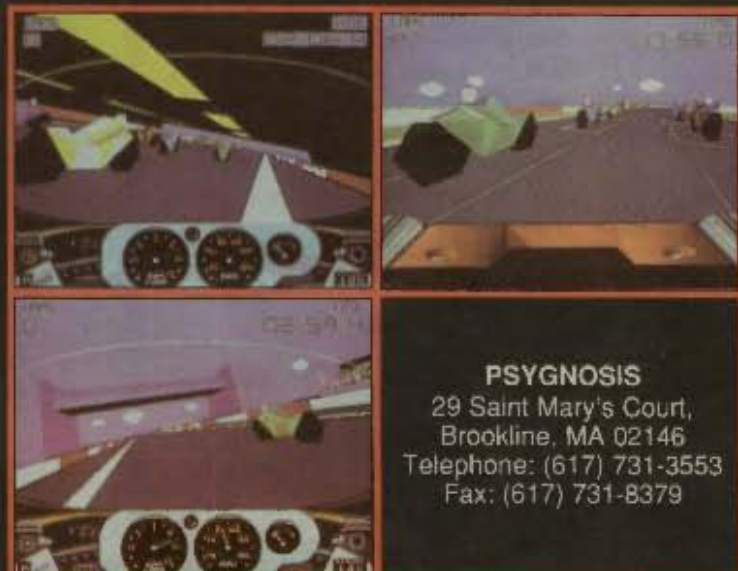
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# Texture City<sup>®</sup>

**24-Bit Image Library for Video, 3D Graphics and Print**

CD-ROM's True Color Images Instantly Available on  
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Texture City offers you the very best in True-Color 24-Bit imagery for use in video, 3-D graphic design, color slides, and print production. Texture City's extensive True-Color library provides the ultimate in digital production images. These professional quality textures include animal skins to scenics, quarry marble to metals, hand-blown glass to special effects, and more.... And unlike other packages which may include small repeating pattern textures, each full screen Texture City image has real world look and clarity. All images have been carefully selected and processed for correct orientation, color balance and file size. Each image varies in color, style and category.

The latest addition to the Texture City line is a complete library on CD-ROM. This provides you instant access to Targa, TIFF, PCX, and IFF file formats from your Macintosh, MS-DOS, or Amiga desktop computer. The variety of formats gives you the ability to use these high quality images in hundreds of today's software programs. Over 400 MB of professional images are on this disk. The CD-ROM contains 13 categories with 100 completely different images in each format. Each 24-bit full color image is a severe overscan image (752x480) for ultimate quality in video and computer based presentations. Suggested retail for the CD-ROM is \$199.95 less than \$2.00 per True Color Image.

Now include photo-realistic images in Autodesk 3D Studio, Toaster 2.0, Photo Shop, Publisher's Paintbrush, Picture Publisher, Imagine, 3D Professional, Art Department Professional, Ventura Publisher, Pagemaker, .... And by combining images with image processing programs you will have hundreds more.

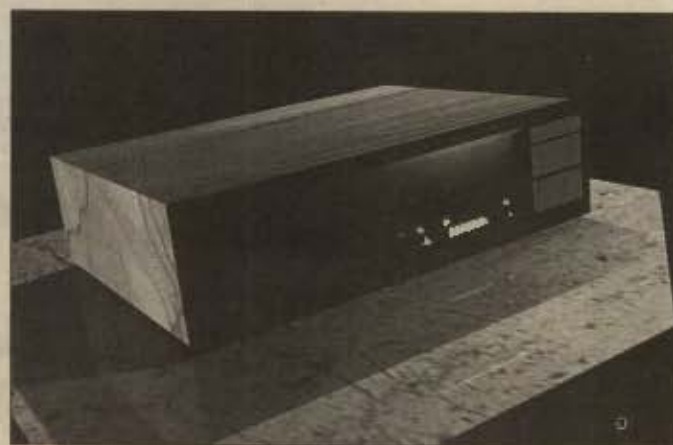
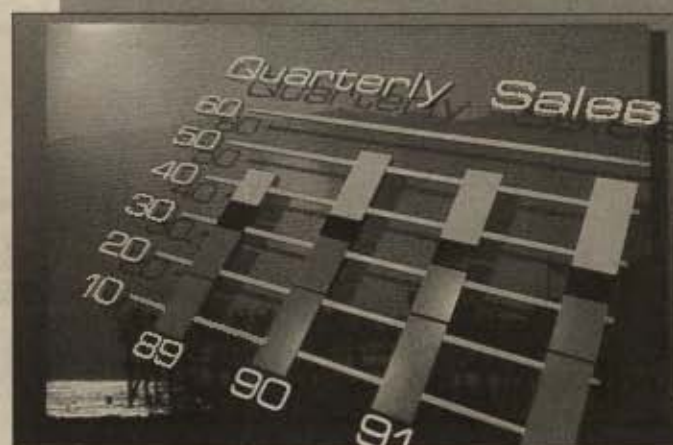
Texture City libraries are also available on floppy disk for the Amiga computer. The 24-Bit packages are stored using the latest in JPEG compression and include an integrated Decompressor & Viewer program, with the ability to browse the entire Texture City image library at the click of a button.

**For more information call or write to:**

**Texture City,**

**3203 Overland Avenue #6157, Los Angeles, CA 90034**  
**Dealer and Distributor inquiries welcome. (310) 836-9224**

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## Digital Micronics Brings Amiga Silicon Graphics Performance

Digital Micronics Inc is now shipping its "Vivid 24" graphics coprocessor board, a super-high resolution graphics rendering engine for the Commodore Amiga 3000 series. Capable of calculating and rendering 100,000 Gourand shaded polygons per second, DMI's graphics controller can display twenty-four bit color images at resolutions up to 2,048 by 2,048. The Vivid 24's design is completely modular, allowing users the option of adding the features they require. One of the modules is a broadcast quality digital video encoder supporting NTSC, PAL, and SVHS resolutions. Suggested list price for the Vivid 24 starts at \$2,995.

The Vivid 24 is powered by a Texas Instruments' 34020 Graphic Processor and four Texas Instruments' 34082 Graphics Math Coprocessors, providing 160 million floating point operations per second (MFLOPS). Applications needing such power include 3D rendering, computer animation, image processing, real-time scientific simulations, and medical imaging. This technology brings unprecedented rendering and image processing at an af-

fordable price within the reach of every professional 3D graphics animator. Graphics houses of all sizes can now concentrate on their final product as opposed to the limitations of their hardware budget.

"The Vivid 24 ushers in a new era of affordable and extremely powerful graphics boards for personal computers. This type of image manipulation and 3D graphics power was previously available only on very expensive and very high-end engineering workstations," said Dean Tucker, Director of Marketing for Digital Micronics, Inc.

DMI's Vivid 24 in a Commodore Amiga 3000 provides 160 MFLOPS of graphics processing power. A Silicon Graphics Indigo Elan provides 4.2 MFLOPS, and a top of the line Silicon Graphics 4, and a top of the line Silicon Graphics 4D/480 VGX provides only 170 MFLOPS.

Contact Dean Tucker, Director of Marketing, Digital Micronics Inc, 2075 Corte del Nogal, Ste. N, Carlsbad, CA 92009, (619) 931-8554 or (619) 931-8516 fax for more information. □

## SAS Institute Releases Ver. 6 of Their C Language Development System

SAS Institute has released Version six of the SAS/C Development System, a comprehensive development system for the Amiga. The SAS/C Development System, Version 6, has powerful capabilities for compiling, linking, debugging, editing, and more.

Unique and new features of the new version make it the best way to produce tighter, faster code more efficiently for the Amiga:

- \* extensive online help library functions, commands, and utilities,
- \* residentable precompiled headers,
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- \* global optimizer and peephole optimizer,
- \* over 1,000 pages of new documentation,
- \* Amiga to Amiga cross development,
- \* free technical support,
- \* CodeProbe debugger,
- \* #pragma tagcall command,
- \* Message browser.

Recommended for novices as well as experienced programmers, the SAS/C Development System, Version 6, addresses the needs of all who program in the C language.

The SAS/C Development System, Version 6, has a suggested retail price of \$395, and requires AmigaDos 1.2, 1.3, 2.0 or later, running on an Amiga with at least one megabyte of memory (for full use of all features, two megabytes of system memory is recommended), and with two 880K floppy disk drives (a hard disk is recommended.)

For more information, contact SAS Institute, Book Sales Department, SAS Campus Drive, Cary, NC 27513, (919) 677-8000 or (919) 677-8166 fax, USA; SAS Institute Australia, Pty. Ltd., Private Bag No. 52, Lane Cove, NSW 2066, (61) 2-428-0428 or (61) 2-418-7211 fax, Australia; SAS Institute (NZ) Ltd., P.O. Box 10-109, The Terrace, Wellington, New Zealand (64) 4-4727-595 or (64) 4-4727-055 fax, New Zealand; or SAS Institute GmbH, P.O. Box 10 53 07, Neuenheimer Landstrasse, 28-30, 6900 Heidelberg 1, (49) 6221-4160 or (49) 6221-474850 fax. □

## Trifecta — A New Product Line From ICD

The new Trifecta line of hardware enhancements for Amiga computers offers three new computer peripherals in several packages packages and options for the Amiga 500, 2000, and 2500 that will fit most budgets.

ICD claims that the Trifecta line offers absolutely the quickest hard drive controller available for an Amiga. This SCSI-2 controller offers ten Megabytes per second synchronous and five Megabytes per second asynchronous data transfers. Data flow is full DMA on the bus and hidden DMA to Trifecta RAM which keeps sustained transfer rates extremely high while using very little CPU time. "Whether your Amiga uses a 68000, 68020, 68030, or 68040," Thomas Harker, director of press relations said, "you won't find a faster hard card."

Trifecta is a high performance 16-bit IDE (AT-style) hard card for connecting low-cost IDE hard drives to an Amiga. Quick block transfers combined with intelligent caching make IDE drives on this card as fast or faster than most 16-bit SCSI cards. The hard card configuration has ample physical space and mounting holes to attach a 2.5- or 2.5-inch hard drive on the board. One or two drives are supported on this IDE interface while up to seven drives are supported by Trifecta's SCSI interface.

Trifecta is a high performance fast RAM card which supports up to eight megabytes of zero wait-state RAM using low-power

four Megabit ZIP DRAM ICs. Hidden DMA from the SCSI-2 section into this RAM takes almost no CPU time, which keeps a multitasking computer zipping along.

Amiga 2000 and 2500 owners can choose from the Trifecta 2000 LX, with all the features on a single hard card, or the low-cost Trifecta 2000 EC without the SCSI-2 feature. A simple, plug-in upgrade kit is available to add the LX option at a later date.

Amiga 500 owners can choose from the Trifecta 500 LX or the Trifecta 500 EC, with the same options as mentioned for the 2000 LX and EC versions.

Trifecta includes ICD's all new version 4 software package.

ICD is taking now taking orders for all Trifecta packages with production shipments expected in September for the 2000 version and October for the Trifecta 500. Trifecta comes with a full one year warranty.

### Suggested Retail Prices:

Trifecta 500 EC .....	\$299.96
Trifecta 500 LX .....	\$349.96
Trifecta 2000 EC .....	\$199.96
Trifecta 2000 LX .....	\$249.96
Trifecta LX Kit .....	\$69.96

Contact: Thomas Harker, ICD, Incorporated, 1220 Rock Street, Rockford, IL 61101. (815) 968-2228, fax (815) 968-6888. □

## Presentations With Your Amiga

Multimedia is one of the latest computer buzzwords, but the Amigas have had this "new" capability since their introduction years ago. Amigas offer a variety of professional software applications including a number of authoring systems that make the computers ideal for educational, interactive and other multimedia applications.

But how do you implement your presentations? What do you need to do to create an interactive kiosk or a laser lightshow? How do you tie the audio into the video?

If you've asked yourself any of these questions lately, you may want to check out *The Amiga Multimedia Workbook* by Jay Gross.

This book explains and defines the tools,

techniques, tricks and tips of multimedia production on the Amiga, along with extensive information about related subjects like desktop video and multimedia in general. Topics covered include planning, preparation, and production of a variety of multimedia applications, as well as sound mixing, animation, porting resources from non-Amigas, laser lightshows, CD-ROM applications, interactive kiosks, and the skills involved in doing all of this.

*The Amiga Multimedia Workbook* is printed by Push+Button Publishing. ISBN 1-879211-07-6. 200 pages, soft cover, Spiral bound. Suggested list price: \$34.95.

Contact: Joel Gross, P.O. Box 1696, Lexington, SC 29072. (803) 957-1106. □



# USA Media Cooks Up Two Software Packages

USA Media has two software programs that can help you clean up in your kitchen: *Celebrity Cookbook* and *Great Recipes of Italy*.

*Celebrity Cookbook* contains two modules. The first loads and displays celebrity recipes, diets, wines, party tips and also contains a bar and wine guide. The second module is a smart database word processing package for entering and retrieving your own favorite recipes or files. Is your favorite recipe written for 4 servings, but your guest list is 19? No problem.

All recipes resize from one to 999 servings, in either American or metric measure.

*Celebrity Cookbook Version 3.1* is for systems of 1MB or greater, but also contains version 2.0 for 512K systems. Recipes may be viewed in either 40 or 80 columns, resized from one to 999 servings, and converted from American to metric or vice versa. The word processor/database module holds up to 12 full pages of text at one time and features full wordwrap, margin settings, cut and paste and search and

replace. The cookbook has 16 food categories and six wine guides. It also supports American or metric measures and resizing of recipes. You may perform a full disk search of ingredients or recipe text contents. All recipes will print either the entire recipe or simply the ingredient list. All recipes print to Amiga compatible printers. Available for all Amiga systems (Also supports DOS 2.0). Suggested retail price is \$39.99.

*Great Recipes of Italy* contains the same convenient features but comes with 160

Italian recipes. As with the *Celebrity Cookbook*, you may view recipes in 40 or 80 column format, resize recipes from one to 999 servings, and perform American/metric conversions. The cookbook contains 16 individual food categories and six wine guides and allows you to search for ingredients or recipe text contents. All recipes will print either the entire recipe or ingredient lists only. Available for all Amiga systems. Requires 1MB. Suggested retail price \$39.95.

Let's eat!

Contact: USA Media, 7810 Malcolm Road, Clinton, MD 20735. (301) 868-9060, fax (703) 845-1660.

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## Swing into Action with GREENS

"Computer golfers will find an intense and highly entertaining challenge in *GREENS*," says MicroProse Vice President of Development Ted Markey. "*GREENS* offers the greatest number of features and most accurate presentation of the complexities of golf of any game yet released."

Highlights of this simulation include: six different courses, 3-D graphics, ten different game types, full handicap system and a complete player profile.

Players compete with the MicroProse "best" on six challenging courses in an attempt to become Tournament Champion. Game types range from singles to 18-, 36-, and 72-hole tournaments. Gamers play head-to-head against eight ranked computer players with customizable playing styles or against a human opponent. Statistics on best, average and latest score, as well as average putts and performance can be examined.

Game options in *GREENS* range from playing a new round, practicing driving or putting, loading an old game, replaying saved shots, viewing the player profile or watching a computer demonstration. Gamers can play at a novice or handicapped level with a right- or left-handed swing.

An isometric map of each hole is based on real 3-D landscaping to display every detail. The map can be viewed from any of the four corners and all relevant hole information is displayed, including wind direction and strength. The player can follow the ball's flight from one of six camera options with a full simulation of ball mechanics.

*GREENS* is now available for the Commodore Amiga. Suggested retail price is \$59.95.

Contact: MicroProse Software, Inc., 180 Lakefront Drive, Hunt Valley, Md 21030-2245. (410) 771-1151.



# Never Run Out Of Paper Or Envelopes Again

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The Genesis JetTray 1500 supplies your laser printer with 1,500 sheets of paper. That's a lot of paper — enough to satisfy the demands of your busy office.

A perfect addition to any shared laser printer, the JetTray's huge paper capacity provides hours and hours of no-stop paper supply, eliminating the hassle of constantly refilling the standard cassette tray that comes with your computer.

The JetTray 1500 installs on many printers offered by Apple, Hewlett-Packard, Canon, DEC and other manufacturers. To begin using the JetTray, you simply load the tray into the computer normally and plug in the JetTray's independent power supply — no software changes or extra cabling is needed.

List price for the JetTray 1500 (including all accessories) is \$595.

If you demand the speed and quality of laser printed envelopes, then the Genesis JetTray 250E is for you.

The JetTray 250E allows you to print up to 250 #10 envelopes without a single refill. It's perfect for small to mid-sized mailing projects. As with the JetTray 1500, no software is required. Retail price for the JetTray 250E is \$595.

For compatibility information or for more information, contact Genesis Technology, 3860 Bay Center Place, Hayward, CA 94545 (510)782-4800, (800)JET-TRAY, fax (510)782-4842. □



The large capacity JetTray 1500 from Genesis Technology.



Print envelopes in bulk with the JetTray 250E from Genesis Technology.

# MicroProse Flying Aces

*Command the past in B-17 Flying Fortress*

B-17 is an accurate recreation of the hazardous World War II missions over occupied Europe of the legendary B-17 bomber, the *Memphis Belle*. The simulation features authentic flight dynamics, ordnance and World War II atmosphere.

Relive the experiences of the crew of the *Memphis Belle* as you lead the crew to victory or defeat against the squadrons of Nazi warplanes. Players will fly in group formations with other B-17s in an accurate

3-D world that includes canals, bridges, roads, dockyards, submarine pens and factories.

Players must successfully command a bomber through 25 daytime missions from bases in eastern England over occupied Europe. Mission briefings and intelligence reports will be available for pilots to study.

Select 10 crew members after studying their past missions, promotions and medals. Crew members can be allocated to

specific tasks such as navigating, carrying out bombing runs and reacting to damage sustained. The player will be able to view the action and take control of each crew member from pilot to bombardier.

Suggested retail price for *B-17 Flying Fortress* is \$69.95.

Contact: MicroProse, 180 Lakefront Drive, Hunt Valley, MD 21030-2245. (410)771-1151. □

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Continued from page 2

not. Where is their product?

\* Get the Amiga into major hardware resellers, not single-store operations. Single-store operations are great because they're more personal, but their lack of buying power hurts them.

Amiga owners can do their part, too. The negative reaction to your column is not the first instance of bad reaction on the part of Amiga owners. Knight-Ridder columnist Philip Robinson has been getting some vicious feedback after his "Amiga/Slow Death" column. This does one thing; it makes us look very bad.

Your front page story by Anon is another example of a problem facing the Amiga. Several months ago on Internet, all hell broke loose when someone mentioned having *Workbench 2.1*. It started showing up on BBSs around the country, too, including one in my area.

The worst thing about all these controversies is that when someone says "The Amiga is dying," all hell breaks loose. So much time is spent on rebuttals and comments that nothing gets done.

Commodore is incorporated in the Bahamas, and that's where they hold their shareholders' meetings. It's convenient and cowardly. Those meetings are so shareholders have the chance to tell the company how they feel. Holding it offshore makes that conveniently impossible.

Just once, Commodore, hold your meeting in the U.S. and let Amiga owners show up and show how they feel. Do you have the courage?

Andy Patrizio, Stamford, CT

Andy, I just got back from the Pasadena World of Amiga show, and I think you are going to see a major improvement in Commodore's attitude toward the users and the future of the Amiga itself.

Plus, I didn't think you sounded all that negative. You had a realistic approach to Commodore and the Amiga community--

as it existed last summer.

## A PAT ON THE BACK

I finally remembered to grab a copy of *Amiga News* while at our local user group meeting. I was very pleased to see that it looks like a nicely done and informative Amiga publication. I hope that the ZipperWare promotion is still in effect, since it sounds like there are a few nice programs on the disk.

Keep up the good work, and if only some of your news and rumors about new systems come to pass in the next few months, I think we will see a revitalized Amiga mania.

Kevin Gardner, Holland, MI

## A DIFFERENT KIND OF COMPUTER VIRUS?

I have been reading with interest the ongoing debate over the Amiga's longevity. People with little knowledge and a lot of access to the press have been taking

potshots at Commodore for years. These people think it is fun to attempt to destroy something that has been truly innovative. The problem is, the press picks up on these things and implants these ideas as facts in the public's mind. Let's look at a few very basic facts to get back to reality.

The Amiga operating system is still the only true multi-tasking system that is affordable enough to be accessible to the public. You might say "what about Unix?", but look at the average price of the Unix platforms. To even approach a system equivalent to a very basic Amiga configuration with any of the other machines would cost five to ten times as much. System 7 and OS/2 still don't really multi-task and have little software that allows them to do so. Why do the other guys need FIFTY processors to do what the Amiga does with 7MHz? Don't even attempt to refute this without doing some research first.

There is solid third party support for the Amiga. Companies such as GVP, DKB Software, Gold Disk, Progressive Peripherals and Software, and Newtek as well as many others are committed to offering innovative hardware and software products for this machine. There is really a much longer list than this. Refer to *Amazing Computing's* annual Anthology of Products.

The other platforms still have to resort to kludges to achieve the performance of the Amiga in the video arena. No matter what, the Amiga is still a leader in video. It is still a joke that otherwise intelligent people would buy a disguised Amiga with a *Video Toaster* to run with their Mac and IBM as terminals. Our "intelligent" corporate directors don't want a name like Amiga in THEIR company.

The Amiga products in the desktop publishing field ARE equivalent to ANY of the products on the other platforms. The



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The Advanced Learning Center strives to give the most comprehensive classes available on the Amiga. All classes are on a first come first serve basis.

- Qualified Teaching Staff - currently work in the subject being taught
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- Extra lab time is available to students who want to devote more time on the computer

Advanced registration starts August 1992 with classes starting September 1992. For more information, and to be included into our mailing of summer and future class schedules, call or write us at our address.





problem is Amiga owners' complaints about bugs in some of this software seem to get into the hands of the wrong people. (See the third sentence.) I am sorry to say this, but if I were to choose a word processor for anything, it would not be *WordPerfect*. That product is the most non-intelligent kludge that I have ever seen. I wouldn't even use it on a IBM. Yet it seems to have attracted a quasi-religious following of users. Sure, it does almost everything, but what do you have to go through to get it done? If the software is written correctly, you shouldn't need a class to use it. If you need a class to run a well-written Amiga application, you shouldn't own a computer. Aldus *PageMaker* and Ventura *Publisher* are really no better for 99% of desktop publishing and are inferior to *ProPage*, *PageStream*, and *Saxon Publisher* for some things. I have used all of the above programs.

The Amiga products in the field of music (my profession) are as good or better than any product on any other platform. Dr. T's products for the Amiga are superior to their products for other platforms. Blue Ribbon SoundWorks *Bars and Pipes Professional* and *SuperJAM* almost do it all. These products are DESIGNED to be multi-media oriented from the ground up, not reverse-engineered to be something they are not. Incidentally, multi-media happened first on the Amiga.

As for Microsoft, Lotus, WordPerfect and the others, who needs them? Just because of name recognition? I do not believe they have programmers who can write acceptable programs for the Amiga. If they do, they won't let them do anything of value for the Amiga. They are snobbish, arrogant, corporations that people strangely look up to because of these very questionable qualities. Hey Bill, where's your multi-tasking operating system, for anything? WordPerfect's excuse for not continuing production on Amiga products is ridiculous! Lotus can't count past three (*sic*) and they're making spreadsheets.

It seems we have a sickness in our society that seems to center around technology. It seems to follow this paradox:

- (1) Ours is better than theirs.
- (2) Even if there is irrefutable proof that theirs IS better than ours, refer to number one.

Do not call this bashing of other companies. Amiga owners have taken far more abuse for their ownership than anyone else. They have a right to snap back once in a while. When people like Mr. Phillip Robinson get all that press coverage, and the good things about Amiga do not, there is something definitely wrong. Are people in this country really that stupid? Maybe so. The rest of the world certainly must think so. They're buying more Amigas than we are for some reason.

Frank Podroskey, Jr., Monongahela, PA

*I don't know about everyone being stupid, but the Amiga has suffered from not being brought to the public's eye. And out of sight is truly out of mind, for most people. Because they don't see it seriously promoted in advertising or on TV, people tend to think the Amiga just isn't important. That's what Amiga News is trying to do -- bring the Amiga to the public's attention via an inexpensive and easily read format. Notice the application stories we've run. Real people using the Amiga in real business situations (not just playing games).*

*Anyway, Commodore seems to have taken the last few months' criticism in the press to heart: they seem to be embarking on a long-term commitment to supporting the Amiga both in the press and to users directly. Have hope.* □

## CORRECTIONS

Our July/August issue inadvertently transposed two digits in the ZIP code for Kara Computer Graphics. Their correct address is: Kara Computer Graphics, 2554 Lincoln Boulevard, Suite 1010, Marina del Rey, CA 90291.

We also mis-identified the manufacturers of the keyboard drawers mentioned in our July/August issue. Those ergonomic products are produced by MicroComputer Accessories, not MicroComputer Associates. MicroComputer Accessories also has a new address and phone number: 9920 LaCienaga Blvd., Inglewood, CA 90308. (310) 645-9400, fax (310) 645-9403. Our apologies to our readers and to MicroComputer Accessories.

# Wrist Support from Comfort Mate



The Comfort Mate line of wrist support systems from American Packaging Corporation.

Transcribing information used to be a simple task. You would use a pencil. (Remember pencils?) Today, things have changed. Carbon paper, comptometers and bound ledgers are endangered species. The keyboard, calculator and mouse have become as common in our lives as the pencil once was.

Unfortunately, along with the sophistication in equipment has come equally complicated injuries related to the use of these devices. Wrist and hand injuries (known as Carpal Tunnel Syndrome) are directly related to the repetitive use of our hands to input information using these devices. Studies pinpoint the major cause of pain and injury to the hands to be the lack of support to the wrist area.

The "Comfort Mate" line of wrist support systems from American Packaging Corporation are designed to make your keyboarding work less painful and ease the strain which can lead to CTS.

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pads come in various densities and heights, which can provide the customized support needed for each individual's situation.

The KEYBOARD "Comfort Mate" is designed to fit all keyboards. Velcro tabs firmly position the keyboard on the tray section so that the keyboard can be carried, placed on a desk top or in the user's lap. Retail price is \$29.95.

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# Commodore Releases New Amiga 4000

*The USA Has It And Europe Is Left Waiting!*

Commodore Business Machines, Inc. today introduced the Amiga 4000, the company's revolutionary new premier multimedia computer. The Amiga 4000 marks the company's most significant new technology advancement in its Amiga line since the product's introduction in 1985. In addition to the Amiga 4000, Commodore announced several other significant product introductions including the Amiga 600 and 600HD, AmigaDOS Release 3 Operating System, A570 CD-ROM Drive, and AmigaVision Professional Authoring System.

James Dionne, President and General Manager of Commodore Business Machines, Inc., commented, "these product announcements exemplify Commodore's continued commitment to offer computers with probably the best price/performance ratios in the computer industry today. We are confident that these products, particularly the Amiga 4000, will keep Commodore at the forefront of multimedia technology and enable us to continue our aggressive push in the multimedia marketplace."

This powerful new machine features Commodore's Advanced Graphics Architecture custom co-processor chip set that enables users to display and animate graphics in multiple resolutions at up to 256,000 colors from a palette of 16.8 million. The new hardware features are driven by AmigaDOS Release 3, the newest version of Commodore's multitasking operating system, in combination with the machine's main processor, the Motorola 68040. While this new version of the operating system takes advantage of the latest hardware features, it also maintains backwards compatibility with Amiga software not written specifically for the Amiga 4000.

The Amiga 4000 will come standard with a 120MB hard drive, 6MB of memory, a dual speed high-density floppy drive, and CrossDOS which enables users to read and write to MS-DOS formatted floppy and hard drives. Other key multimedia features include: a dedicated slot for video devices; selectable NTSC scan rate con-



The new Amiga A4000.

patibility; four voice dual-channel digital audio; up to 8 sprites, enabling high speed animations; and full hardware video overscan. The List Price for the Amiga 4000-040/120 is \$3699.00.

## THE AMIGADOS RELEASE 3

The newest version of the Amiga operating system adds several software enhancements to the previous 2.04 operating system. Among the new features are: CrossDOS, allowing access to MS-DOS formatted floppy and hard drives; a new Installer utility; and a Postscript printer driver. Additionally, AmigaDOS Release 3.0 offers full support for the new Advanced Graphics Architecture chip set featured in the Amiga 4000.

## AMIGA 600

The Amiga 600 is a powerful entry-level computer with a small footprint and low profile shape, making it very attractive to the home computer buyer. The Amiga 600 and 600HD will come with AmigaDOS 2XX and a selection of software packages. The price for the Amiga 600 is \$499.00.

## A570 CD-ROM DRIVE

The A570 is a high capacity read-only storage device for the Amiga 500 series. (not for 600) The A570 accepts standard 5" compact discs in a CD caddy and plays all CDTV, audio CD, CD+G, and CD+MIDI discs. It can also read industry-standard ISO-9660 CD-ROM discs. The price for this series is \$659.00.

## AMIGA VISION PROFESSIONAL

AmigaVision Professional builds and expands on the visual programming environment used in earlier versions of Amiga Vision. The new features include support for the CDTV player, speed and memory improvements, and enhancements to the authoring environment. In addition, a freely redistributable runtime module has been included, enabling flows created in AmigaVision to be played back without loading AmigaVision. □

# Da Do ROM, ROM

## A570 CD-ROM for the Amiga 500

Christmas came early for those who attended the World of Commodore show in Pasadena, CA. Those new Amiga releases and accessories you've wanted for so long are finally here. If you've been waiting for a CD-ROM drive, your wait is over. Take a look at the Amiga 570—External CD-ROM storage for the Amiga 500.

The Amiga A570 is a high-capacity read-only storage device for the Amiga 500 series. The A570 accepts standard 5" compact disc in a CD caddy and plays all CDTV, audio CD, CD+G, and CD+MIDI discs. It can also read industry-standard ISO-9660 CD-ROM discs.

Other features include:

High-capacity, Read only CD-ROM storage for the Amiga 500.

CDTV compatibility.

Internal 2MB RAM expansion capability.

Rear expansion Slot for Plug-In cards.

The A570 has an internal slot for memory expansion and a rear slot for cartridge-based peripherals. Built-in software configures the A570 for CDTV, CD-ROM or digital audio uses.

The convenient front panel headphone jack and volume control will allow listening to your favorite audio CD while working on Amiga-based applications.

Manufacturer's Suggested Retail Price for the A570 is \$659.

Contact Commodore Business Machines, Inc., 1200 Wilson Drive, West Chester, PA. (800) 66-AMIGA.

In Canada, contact Commodore Business Machines, Ltd., 3470 Pharmacy Ave, Agincourt, Ontario, M1W 3G3. (800) 661-AMIGA.



The Amiga A570 CD-ROM disk drive.



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# Drug Wars 2001

**A.T.A.C. (Advanced Tactical Air Command)**, the latest release from MicroProse takes place in the not-too-distant future. The year is 2001, and the world is far more different than most would have imagined. Traditional enemies, Western society and Eastern bloc nations, are now allies. The world is threatened now not by nuclear annihilation, but by a much more subtle weapon: drugs. The new United States government, elected for its strong "anti-drug" stance, forms an elite paramilitary task force to take the battle to the international drug cartels.

The player will be the leader of that task force, charged with spearheading a massive, high-tech aerial assault of the drug cartel's domains. At the player's disposal will be four of the newest F-22 fighter planes.

You will fly any or all F-22 fighters at the same time, on separate missions or as part of coordinated attacks. The player will monitor all activities through a sophisticated control and communications panel that will give access to any of your planes and/or operatives. Combat sequences will be displayed in full 3-D graphics, with detailed images of drug plantations, factories, headquarters, warehouses, and more.

The drug cartels will respond intelligently to your actions. Success will depend not only on superior flying skills but also upon executing an effective strategy.

**A.T.A.C.** is part of the Masters of Strategy series. Retail price is \$49.95.

Contact: MicroProse, 180 Lakefront Drive, Hunt Valley, Md 21030. (410)771-1151. □

# Lap Your Competition With World Circuit

**World Circuit** is the only Grand Prix racing simulation to offer the player the chance to compete on all 16 championship circuits in Formula One racing. All tracks are accurate, detailed and in 3-D. Players will compete against world class competition in an attempt to win the World Championship.

You will be able to adjust your car to achieve optimal performance on the different tracks. Car features include:

realistic car handling and performance, authentic cockpit instruments, joystick-controllable gears, throttle and brakes and adjustable wing mirrors.

**World Circuit** has three game options: practice, single race or Grand Prix competition. The player will race at various difficulty levels from novice to Grand Prix. You will also have full use of the pit stops — all detailed and animated — and will be able to inform the pit crew of any damage via an in-car radio.

The race can be viewed at any time from multiple angles using the replay feature. The simulation also features dramatic slipstreaming effects and variable track and weather conditions.

Suggested retail price for **World Circuit** is \$59.95.

Contact: MicroProse Software, Inc., 180 Lakefront Drive, Hunt Valley, MD 21030-2245. (410) 771-1151. □

# The New Amiga 600

The Amiga 600 is a powerful entry-level computer with a small footprint and low profile shape, making it very attractive to the home computer buyer.

Incorporating the unique features of the Amiga family of computers, the Amiga 600 offers a Motorola 68000 microprocessor along with sophisticated custom processors for enhanced computing speed and versatility.

And with the ability to connect to a variety of video display devices the Amiga 600 is a great choice as an entry level system for home entertainment and educational uses.

The Amiga multitasking operating systems allows users to integrate text, graphics and sound and reaches new levels of affordable excellence in home and professional multimedia computing.

The Amiga 600 is compatible with a wide range of standard peripherals. The newly added PCMCIA industry standard slot can provide additional storage on removable credit card size modules.

With an easy-to-use point-and-click interface and quick connection to a display device even computer novices can be up and running with a minimum of effort.

Adding an internal hard drive and memory transform the Amiga 600 into a powerful, low-cost computer for courseware delivery, business presentations and point of information displays.

The Amiga 600 and 600HD will come with AmigaDOS 2.XX and a selection of software packages.

Suggested retail price for the Amiga 600 P is \$499.

The Amiga 600 features:

Compact low-profile design  
External PCMCIA expansion connector  
AmigaDOS Release 2 software in ROM  
Color composite, RF Modulated and RGB Video Output

Advanced Custom Processors for DMKA Video, Graphics, Sound and I/O Control

NTSC Video Horizontal Scan Rate Compatibility

Multitasking Operating System

Selectable Resolutions/True Overscan Standard File Format (IFF)

## SPECIFICATIONS

**CPU:** Motorola 68000, 16/32-bit 7.17 Mhz NTSC, Multi-Chip coprocessor system for DMA, Video, Graphics and Sound, Expandable to 2 MB Chip RAM, Maximum RAM expansion 6MB with PCMCIA

**Software:** 512 KB ROM with AmigaDOS Release 2 Multitasking Operating System, Workbench 2.X and Utilities software

Integral 78 Key International keyboard

**Mouse:** Opto-mechanical, 2-button design One built-in 3.5 inch 880 KB floppy disk, optional external 3.5-inch floppy disk

Internal IDE hard disk drive (optional)

**Graphic Modes:** Color palette of 4096 colors, selectable resolutions, supports full overscan

**Video Display Output:** RGB analog 15 KHz Horizontal, Color Composite, RF Modulated Four channel stereo sound

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## Interfaces

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Video RGB analog (DB23 15 KHz)

Color Composite (RCA) RF Modulator (RCA)

PCMCIA Card Slot

Internal AT IDE connector

## A600 CONFIGURATIONS

**A600 P** — Amiga 600 with Motorola 68000 Processor, Internal 3.5" 880KB Floppy Drive, 1 MB RAM, Internal Keyboard, Release 2.X Operating System and Utilities, 2-button Mouse

**A600HD** — Amiga 600 with Motorola 68000 Processor, Internal 3.5 880KB Floppy Drive, 1 MB RAM, Internal 40 MB IDE Hard Drive, Integral Keyboard, Release 2.X Operating System and Utilities, 2-button Mouse □

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