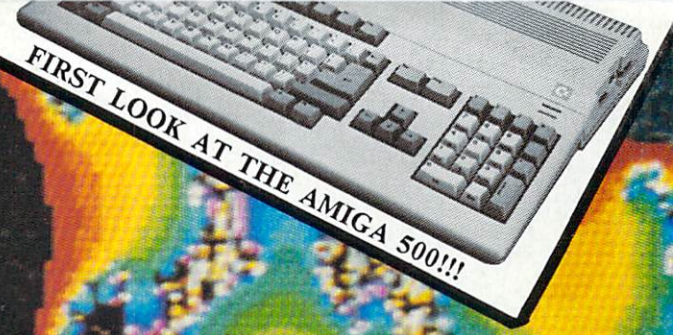
SPRING/SUMMER 1987 ($5.50 Canada) $3.95

INFO

YOUR GUIDE TO COMMODORE & AMIGA COMPUTING!



FIRST LOOK AT THE AMIGA 500!!!

PRODUCT ROUNDUP

0 42372 16032 14

The First personal computer magazine produced entirely with personal computers!

We just did something only the best can do! We made our award winning* software for the Commodore™ 128 and 64 computers even better!

Introducing ...

Pocket Writer 2
word processor
Pocket Planner 2
spreadsheet
Pocket Filer 2
database

New Features

Our new Pocket 2 series offers features usually found only in much more sophisticated applications software. Features that include: compatability with the new GEOS operating system†, ability to work with the Commodore RAM expander to allow a RAM disk, mouse support with pull down menus, 1571 burst mode for faster file loading, increased support for two single disk drives, automatic configuration for screen color, format and printer selection†.

Sophisticated software, yes, and still easy to use. You can be up and running in under 30 minutes even if you haven't operated a computer before.

2 Programs in 1

Now, when you upgrade your Commodore™ 64 to a 128, Pocket software helps make it a breeze. The new Pocket 2 software has both 128 and 64 applications on the same disk. So when you buy one you are actually buying two software packages. The cost only $59.95 (U.S.).

6 Programs in 1

The 180% Solution saves you money! You can buy all three Pocket 2 applications, Pocket Writer 2, Pocket Planner 2 and Pocket Filer 2 in one convenient **Superpak** for the low price of only $99.95 (U.S.). A super way to discover all the integrated features of Pocket 2 software and save almost eighty dollars.

As a companion to Pocket Writer 2, a **Dictionary Disk** containing 32,000 words (expandable to 40,000) is available. The cost $14.95 (U.S.).

For those of you who have already discovered the many benefits of owning Pocket software; we offer all registered owners an upgrade to Pocket 2 software for only $19.95 (U.S.) plus 3.00 (U.S.) shipping and handling! Available only by writing to Digital Solutions Inc.

Pocket Writer 2 Word Processor
In addition to the new features above...

- Spelling Checker incorporated in program (requires a dictionary disk)
- Spelling Checker now runs over 300% faster than in original Pocket software
- Word wrap is now fully automatic†
- Ability to move columns
- Go To page number for finding information in long texts†
- Fully automatic upper and lower case type conversion†
- Enhanced Delete process for word, line or paragraph
- Word Count feature for essays and assignments†
- Enhanced split memory mail merge option

Pocket Planner 2 Spreadsheet
In additon to the new features above...

- Individual column width selection now available†
- Multiple files in memory with cut and paste capability
- Able to print mathematical formulae as well as results of calculations†
- Global formatting option
- Enhanced row/column insert delete†
- Logarithmic and XY graphing capability
- Increased file compatability with other spreadsheets†
- Number of rows increased from 99 to 250†

Pocket Filer 2 Database
In addition to the new features above...

- Dynamic calculations during data entry
- Intelligent re entry to enter/edit mode
- Easier file conversion from other software†
- Automatic index updating for constantly sorted file†
- Enhanced mathematical language including loops and labels†
- High speed sort using dynamic buffering†
- Automatic entry of repetative data†

Serious Software That's Simple to Use

*Commodore's Microcomputers Magazine, independent reviewers, rated the original Pocket Writer 128/64 and Pocket Planner 128/64 software the "Annual Best of 1986" in the productivity category.

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†Features available for Commodore 64™.
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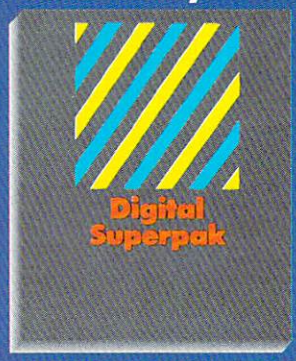
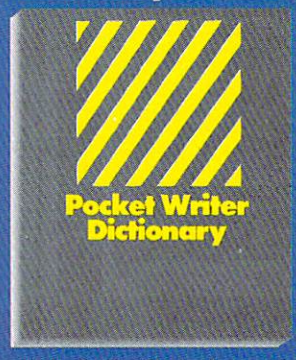
Superpak: The Solution That Saves Money!



- Pocket Writer 2, Pocket Planner 2 and Pocket Filer 2 together
- Convenient; get all three integrated applications at once
- 128/64 software on same disks
- Economical; $179.85 (U.S.) worth of software for only

$99.95 (U.S.)

Pocket Writer Dictionary



- Makes Spelling Checker faster and simpler to use
- More convenient than developing personal disk
- 32,000 words available
- Expandable to 40,000 words

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outside Michigan 1-800-245-7316

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2-30 Wertheim Court
Richmond Hill, Ontario
Canada L4B 1B9
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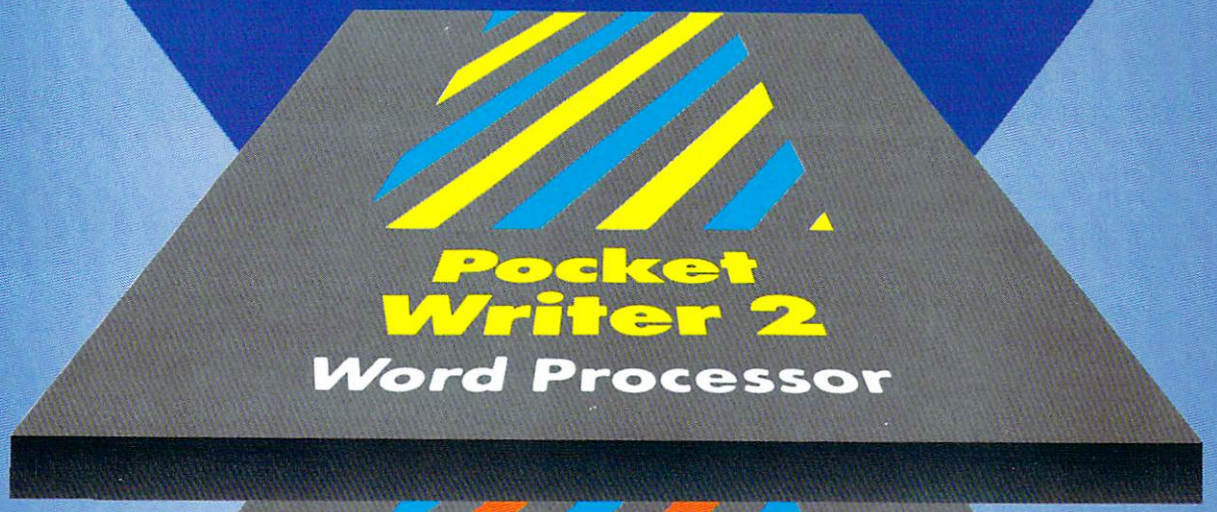
Super Solutions 2



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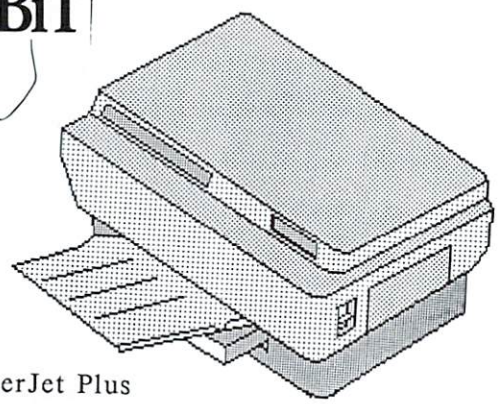

HP LaserJet Plus

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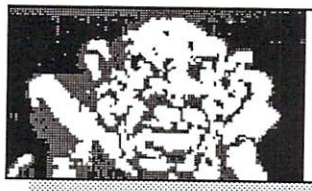
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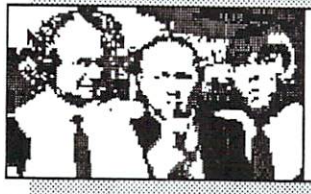
Product Roundup
The most extensive directory of Commodore & Amiga products!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Double-Take
We couldn't resist.

Read all about it!
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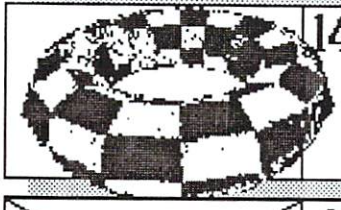
Remember— you read it here!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the EDITORS' PAGE

Breathless

So much has happened since our last issue: *Platoon* got the Oscar, David and Maddie finally got each other, Vanna got the cover of *Playboy*, Oral got his millions, astronomers got their first look at a supernova in some 300 years, and Commodore/ Amiga just gave the personal computing world the Amiga 500 and 2000!

Of the above, we think the most interesting, entertaining, exciting, and important has to be the introduction of the A500. And while the A2000 has received a lot of press, and is undoubtedly the most technically exciting new personal computer, it is the A500 with its low price, compact good looks, 1/2 MEG of stanadard RAM, and improved functionality which has the greatest potential to rekindle the flames of personal computing, and fully establish the age of 16-bit multitasking personal computing. At it's introduction, the Commodore 64 cost about $600, and brought serious computing power within the reach of millions for the first time in history. Now, for the same price, the Amiga 500 offers the consumer 8 times the memory, 8 times the speed, and 10 times the fun of the previous best deal in personal computing! Story and pictures on page 11.

INFO Hits the Big Time!

Starting with the next issue (#15), **INFO** will be distributed nationally (and in most English-speaking countries) by Select Magazines of New York. Select is a GIANT in the industry handling such quality titles as *Family Computing*, *Popular Science*, and *Ms.* magazines- we are very excited about working and growing with this respected company.

What does this mean to you as an **INFO** reader? Well, first of all, for those of you who are not yet subscribers, it's going to be a whole lot easier finding **INFO** now, since we'll be in thousands of new local outlets. With better cash flow and circulation, we'll be able to attract even more quality writers and artists to enhance the pages of each issue, and we'll be able to add more color and put more goodies between the covers every two months. It also means that we will (have to) be more regular, and we know that will be welcome news to many of you.

Our "World Debut" also has us cooking up the best issue of **INFO** you've ever seen! We're having lots of fun putting it together, and we think you'll really enjoy it! Among other things, there will be a nostalgic look back at **INFO**'s origins (how many of you have ever seen a copy of the *Cyborg Gazette*?), an interview with Anne Westfall, a special edition of *C.H.U.M.P.* magazine, an absolutely exclusive review of a new piece of Commodore hardware (which even the competition hasn't caught wind of), and lots of reviews, all new Erg-cards, & all the regular columns and departments as well (plus a few surprises!) All in all, we can hardly wait. In the mean-time, enjoy your copy of the product roundup, the industry's most compre-hensive buyer's guide to Commodore and Amiga products!

-Benn & Mark

"The Bard is Back!"

From impossible dungeons and split-second snares, the Bard and his party emerge. The Sceptre, so long forgotten, gleams with power like an exploding sun. Even Phenglei Kai, the ancient archmage, bows his head in awe.

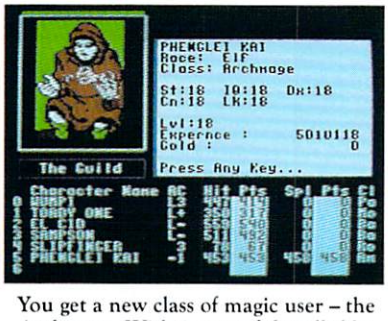
"I smell serpents!" Slipfinger squeals, stealing away like the thief he is. Two archdragons slither out of the ground, their eyes burning with the relentless fury of treasure lost.

Protected behind the flame lizards, beyond the reach of normal weapons, a cackling wizard begins the eerie chants of a death spell. A spell that can finish the Bard and his party.

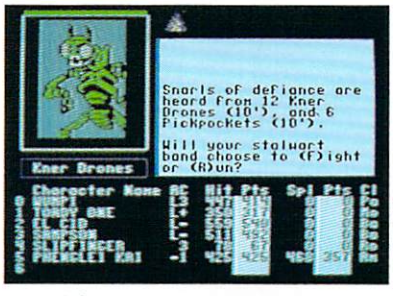
The time has come to battle-test the magic of the Destiny Wand – and reveal the awesome powers of The Destiny Knight.™

The Best Ever Dungeon Role-Playing Game

- 50% bigger than Bard's Tale.™
- An all-new story line.
- Six cities and a huge overland wilderness to explore.
- Dozens of new spells – 79 spells in all.
- New real-time dungeon puzzles. You have to get through them before the clock stops ticking.
- Summon and name monsters to become a permanent part of your party.
- More strategy in combat encounters – the weapons and spells you choose depend on the enemy's distance.
- A bank and casino.
- A starter-dungeon for building up your low-level characters.
- 6 guilds for easier game saving.
- Optional use of Bard's Tale characters. Bard's Tale experience not required.
- Cluebooks available for both Bard's Tale and Bard's Tale II.™



You get a new class of magic user – the Archmage. With 8 powerful spells like Heal All, Fanskar's Night Lance, and the awesome Mangar's Mallot.



There are over 100 monsters, like this Kner Drone. Many animated. All dangerous.

25 scrolling dungeon levels. All in color. All 3-D. Including 7 different Snares of Death, a new kind of real-time puzzle.

The Bard's Tale II

The Destiny Knight

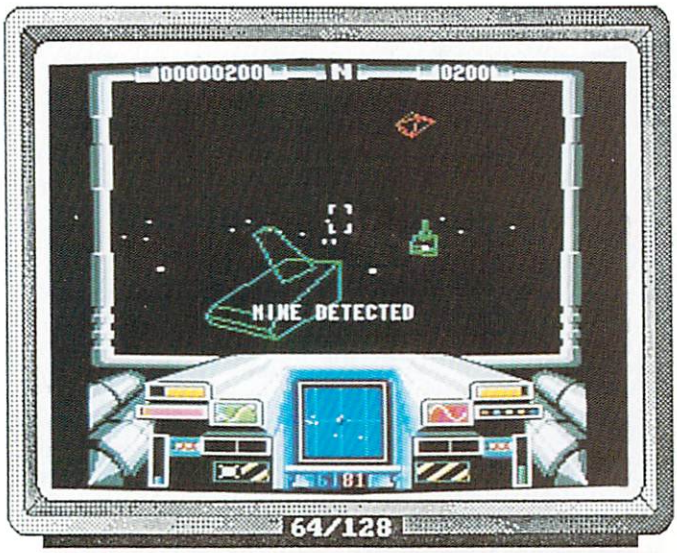
from

ELECTRONIC ARTS™

Optional use of characters from Ultima III™ or Bard's Tale™

HOW TO GET IT: Visit your retailer, or call 800-245-4525 (in CA call 800-562-1112) for VISA or Mastercard orders. **To buy by mail,** send a check, money order, or VISA or Mastercard information to Electronic Arts, P.O. Box 7530, San Mateo, CA 94403. The price is $39.95 for the Commodore 64 version. Add $5 for shipping and handling ($7 Canadian). Allow 1-4 weeks for delivery. The Bard's Tale II and Electronic Arts are registered trademarks of Electronic Arts. Ultima is a registered trademark of Richard Garriott. Commodore is a trademark of Commodore Electronics Ltd. For a copy of our complete catalog, send 50¢ and a stamped, self-addressed envelope to Electronic Arts Catalog, 1820 Gateway Drive, San Mateo, CA 94404.

The Gallery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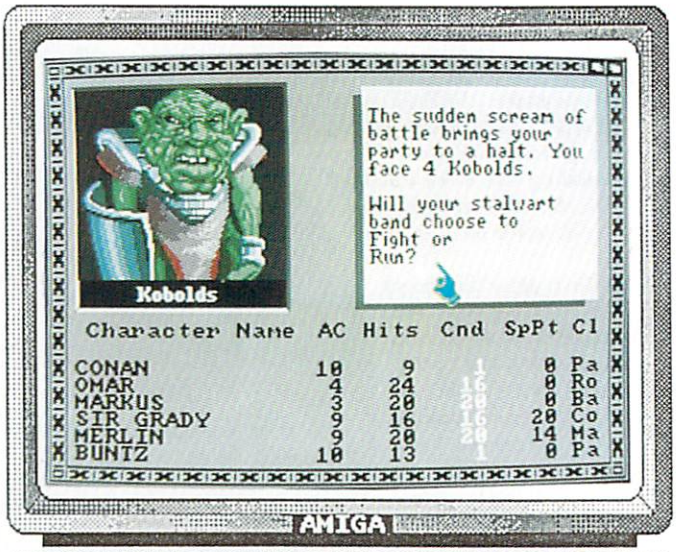
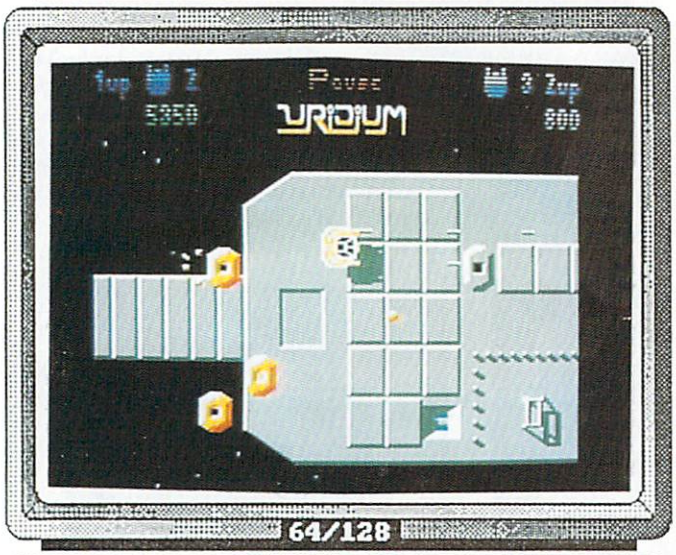
64/128


Kobolds
The sudden scream of battle brings your party to a halt. You face 4 Kobolds.
Will your stalwart band choose to Fight or Run?
Character Name AC Hits Cnd SpPt Cl
CONAN 10 9 1 0 Pa
OMAR 4 24 16 0 Ro
MARKUS 3 20 20 0 Ba
SIR GRADY 9 16 16 20 Co
MERLIN 9 20 20 14 Ma
BUNTZ 10 13 1 0 Pa
AMIGA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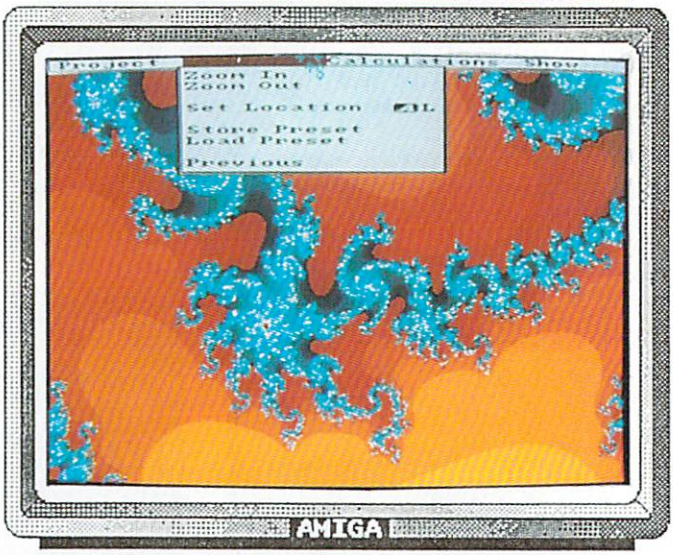
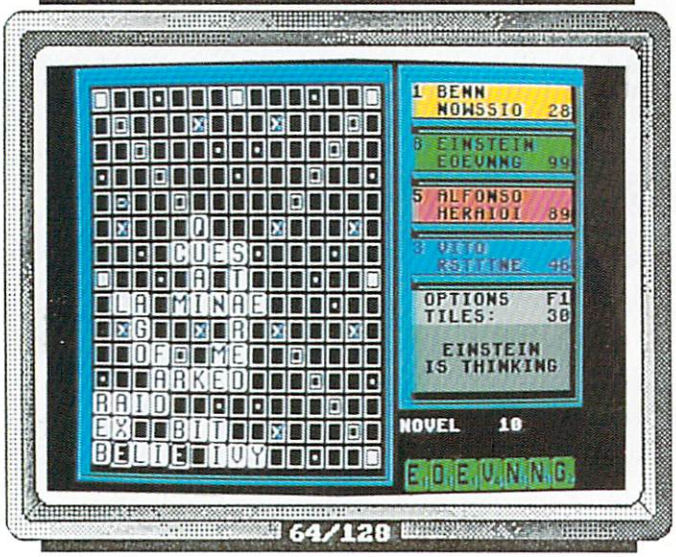
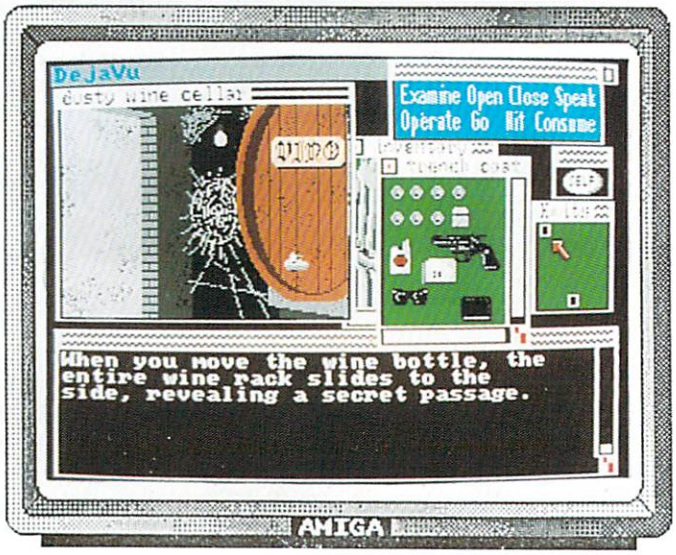

Zoom In
Zoom Out
Set Location
Store Preset
Load Preset
Previous
AMIGA


1 BENN NOWSSIO 28
8 EINSTEIN EOEVNNG 99
5 ALFONSO HERAIOI 89
OPTIONS F1
TILES: 30
EINSTEIN IS THINKING
NOVEL 10
E.O.E.V.N.N.G.
64/128


DeJaVu
dusty wine cellar
Examine Open Close Speak
Operate Go Hit Consume
When you move the wine bottle, the entire wine rack slides to the side, revealing a secret passage.
AMIGA

STARGLIDER
Firebird
Box 49
Ramsey, NJ 07446

INFO-rated ★★★★

"You are in command of Novenia's last Airborne Ground Attack Vehicle (AGAV), with limited weaponry and fuel, with no apparent means of replenishment." *Starglider* is reminiscent of the earlier arcade hits *Star Wars* & *Battle Zone*,with wire-frame targets on a jet-black background (but with better action, detail, and controls). Not as good (or as complicated) as their hit *Elite*, but plenty of fun. Features fast "missile window" mode (ala *Arctic Fox*), a 64-page novella, large color technical poster of the AGAV, and quick reference card. -BD

BARD'S TALE
Electronic Arts
1820 Gateway Drive
San Mateo, CA 94404

INFO-rated ★★★+

Bard's Tale on the Amiga is, as you might expect, vastly faster, prettier, and easier to play than any of the popular 8-bit versions. In spite of all the good-looking graphics, the quick pace, and the convenience of the user interface, I personally find this whole genre wearing a bit thin (dwarf or elf, monster swings, 3 hit points of damage, 2 pieces of gold, etc., etc., etc.). There is an underlying monotony that these dungeon games share with flipping a coin. If you're into Middle Earth gang fights, tho, this is one of the better ones. -BD

URIDIUM
Mindscape
3444 Dundee Road
Northbrook, IL 60062

INFO-rated ★★★★

This is a snappy arcade-style sci-fi shoot-em-up with tasty graphics & effects, and very fast, hair-trigger action. *Zaxxon*-style fly, dodge, and shoot. Successive waves of enemy craft get more tenacious and harder to hit, with varying formations and increasingly evasive maneuvers. Another polished product in the recent wave of Euro-look arcade games from Mindscape. -BD

MandFXP-ENHANCED
CygnusSoft Software
315-1111 Pacific St.
Vancouver, BC Canada
V6E 3X7

INFO-rated ★★★★★

The best yet in what we expect (and hope) will be an ongoing evolution of Amiga Math-Graphics 'toys'. This latest incarnation of graphic Mandelbrot exploration software is NOT public domain, but the programmers are only asking either a $10 registration fee (you make your own copy from a friend's), or $15 for a new diskette with the latest update. IT'S WORTH IT!! 300 decimal place precision, infinite zoom and pan, IFF save and load, variable resolutions, colors, iterations, windows, cycling, boundaries- more features than most commercial titles! A MUST HAVE! -BD

SCRABBLE
Electronic Arts
1820 Gateway Drive
San Mateo, CA 94404

INFO-rated ★★★★★

Functionally nearly identical to the other official computer *SCRABBLE* game, Epyx's *Monty Plays SCRABBLE* (see INFO Gallery, issue #6). The main differences are the screen displays (I still can't decide which I like better), and the greatly expanded dictionary: 20,000 words from the official *SCRABBLE* dictionary (up from *Monty*'s 12,000). Up to 4 players (human or computer), 8 computer skill levels, optional time limits, "hurry up" feature, rack juggling, word hint, optional hidden racks, and variable word placement speed. -BD

DEJA VU
Mindscape
3444 Dundee Road
Northbrook, IL 60062

INFO-rated ★★★★★

Now this is my idea of an adventure game! Click on a door, it opens. Wonder if that picture on the wall is for atmosphere only?- click on it and if the program knows it as a distinct item, it is highlighted and can be examined, taken, or used. "open" your wallet, and the contents are displayed graphically in a "wallet" window. "Open" your gun, and see how many bullets are left in it! Almost everything you see in every scene is active to some extent! Endless delightful details, and easy control interface are the keynotes of this irresistable gumshoe classic. -BD

INFO Reader Mail

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Or reach us vial EMAIL online:

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QuantumLink	INFO Mag
PeopleLink	INFO Mag
PlayNet	Ben D
BIX	infomag

QUANTUMLINK

Mail From: DonaldA3
Date: Saturday 24-Jan-87 16:04 est

Hi! Just had to tell you how pleased I am with your magazine. I just received my first copy (ever) and it is by far the best publication for Commodore users; nothing else even comes close, and I buy all of them! Congratulations. And thanks to R. Baker for letting us QLink users know about INFO!

Thanks Donald! And our thanks to Robert Baker for keeping QLinkers INFOrmed.

-Mark & Benn

Mail From: DebB1
Date: Monday 8-Dec-86 23:41 est

Dear Info, I just wanted to say how much I enjoy your magazine. But a lot of your products were listed without ratings in issue #11. This was most apparent with Amiga products. Still, I always find your magazine a great joy to read. The wit and honesty is refreshing. I like Peggy Herrington's Sound Advice column and hope there will be more articles discussing the Amiga's abilities in department form. The ethusiasm you have for the Amiga has convinced me to purchase one. Question- When running business programs, does the Amiga work slower than an IBM/PC-AT if it is using comparable Amiga programs?

Sincerely-Deborah Brisman

P.S. If you print this letter without correcting the grammar, typing errors, poor spelling, and awkward sentences, I will never read your magazine again. (unless you give me a pseudonymn!)

I hope you'll find many more of your favorite products rated in this Latest, Greatest Product RoundUp ever, Deb! And welcome to the ever-growing community of proud Amiga owners. To answer your AT question: it depends. I've heard product developers claim they can write software faster on the Amiga than the AT because of the multitasking environment. I know that things like spreadsheet recalculation and wordprocessing can be just as fast on the Amiga as on an AT, and the Amiga can run rings around an AT in any graphics or sound application. But it is also my understanding that disk operations are considerably faster on the AT. It really depends quite a bit on what you are doing, but we think the Amiga is a much better deal, and it's definitely a much more exciting machine!

-Mark & Benn

Mail From: Cpt Nathan
Date: Sunday 25-Jan-87 14:27 est

Hi guys. I would like your opinion on something. Berkeley Softworks has made the new GEOS Desktop 1.3 available for download on QLink but not the rest of the latest GEOS version. They have offered to provide complete GEOS updates on disk for $5.00 on request only. Berkeley's ads claim that updates would be provided for free and would be made available on QLink. They did this for the Update from 1.0 to the Color versions 1.2. Now they're not. To add insult to injury Desktop 1.3 is a "Trojan Horse". If you have a broken backup copy of GEOS with the copy protection removed it will delete the boot files. Note also there was no warning of this "feature" except from angry users. How do you feel about this practice?

We've had many letters about the "Trojan Horse" version 1.3 of GEOS. We checked with Berkeley Softworks and asked if this was an accidental occurance or if it was, indeed, an intentional attempt to curb piracy of GEOS. They confirmed that it was and is intentional. Version 1.3 will, when ported to work disks created with third-party copy-busting programs, wipe the disk boot sectors clean. There is no warning to that effect anywhere in the new packaging or documentation. Berkeley says they have "never endorsed" making work disks with a third-party copier, and that they see "no problem" for legitimate users of GEOS who have followed their own backup procedure.

Berkeley's defense is their claim of having lost a great deal of business to software pirates. They point out that the "wiping" process doesn't remove any of your work, it just makes the disk unbootable. It's too bad that there is no warning to that effect before it happens. (Of course, the really dumb thing about all this is that the publishers of copy software inform us that they have already worked out parameters to circumvent the update problem.) For now, the only safe thing you can do about GEOS 1.3 is to

continued on pg. 74

AMIGA'S 2 NEW MACHINES-

NOW: An Amiga for every application AND budget!!

AMIGA 500 is lean, clean, and a compact machine! Note the CBM logo and the REAL numeric pad! The 500 starts with .5 MEG RAM but is expandable to over 8 MEGS!

AMIGA 2000 may look like a PC, but it is an entirely different animal inside! Multi-processing opens a whole new era in computing!

THE NEW AMIGAS

When the Amiga 1000 was introduced a year and a half ago, Commodore said it was the first of a whole new family of Amiga computers. With the introduction of the new A500 and A2000, Commodore has added a little sister and a big brother to the Amiga family tree.

Both machines are functionally equivalent to the A1000. They both use the 68000 cpu chip running at 7.14 MHz, just like the current Amiga, and they offer no new sound or graphics features. Commodore opted for 100% compatibility with the existing A1000 rather than adding system enhancements like a 68010 cpu chip or non-interlaced 640x400 graphics, as it was first rumored they might.

What *do* these new computers offer, then? The A500 is more compact and less expensive than its predecessor, and the A2000 is an incredibly expandable open-architecture computer (and that means *slots!*).

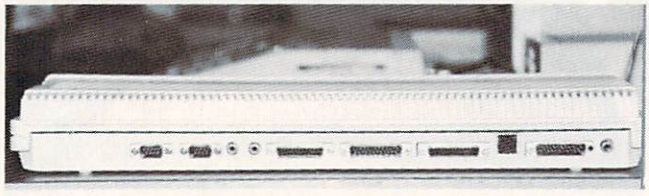
You may have already read about the A2000, the new high-end Amiga. Since the features of this machine have been reported elsewhere, we'll save our discussion of it 'till last and delve first into the details of the new A500.

THE A500

The Amiga 500 is internally identical to the Amiga 1000 (with a few exceptions we'll discuss in a minute). But it doesn't look anything like the Amiga you are used to.

The A500 comes in a case very similar to that of the C128. It is thicker, however, because of the built-in standard Amiga 3.5" drive in the right-hand side of the case. In this aspect of its design the A500 has followed the lead of the Apple IIc and numerous PC-compatible portable computers which similarly place the drive in the right side of the case. This configuration is compact and efficient and takes up less desk space than a separate drive would.

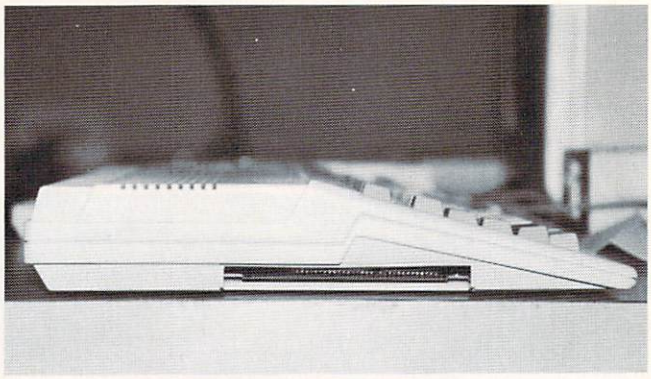
The rear connectors on the 500 have been changed to conform to the IBM standard. A500 owners won't have to purchase custom Amiga cables to hook up modems and printers; they will be able to get serial and parallel cables off-the-shelf at any PC dealer. But they'll have problems trying to plug in a Digi-View video digitizer, Future Sound audio digitizer, or other peripheral designed specifically for the old Amiga ports. We assume that third party developers will quickly adapt their products to fit the new connectors. We're glad to see Commodore adopt the industry standard, even though it will mean some some headaches for developers and Amiga owners alike during the transition period. In the long run, it makes good sense.



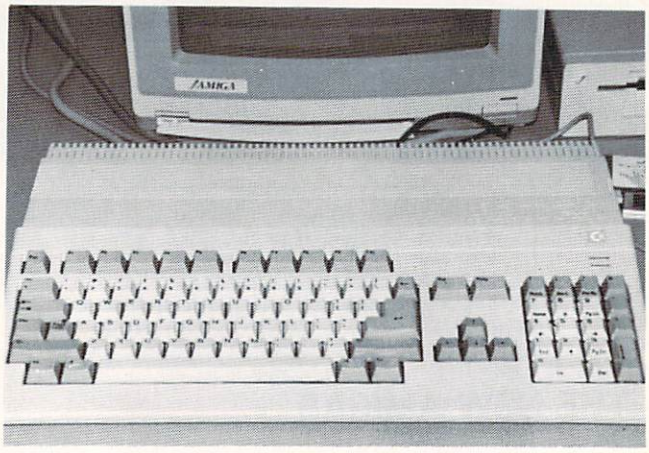
Back of A500 showing STANDARD ports!

The A500 has stereo sound output jacks, a 12-bit RGB analog output port, and a monochrome (yes, monochrome) video output jack. Gone is the composite color video output jack of the A1000. This positions the A500 more directly against the Atari 520ST with its RGB and monochrome outputs. We doubt that the monochrome output will see much use, but then neither did the somewhat fuzzy composite output of the A1000. For those who are interested in using the A500 in home video work, Commodore says that either they or a third party will be coming out with an RGB-analog-to-composite-color adapter very soon after the A500's release.

There is an Amiga expansion buss on the 500, but because of the right-hand built-in drive the buss is located on the A500's left side. This means that existing A1000 expansion products will not plug in without some kind of adapter. For most users this won't be a problem; Commodore most likely expects those with heavy system expansion needs to buy a 1000 or 2000. Commodore has already shown a prototype of a hard disk drive with built-in interface plugged into the A500 expansion buss, so the buss is definitely functional. It's good to see that Commodore included it, despite rumors to the contrary.



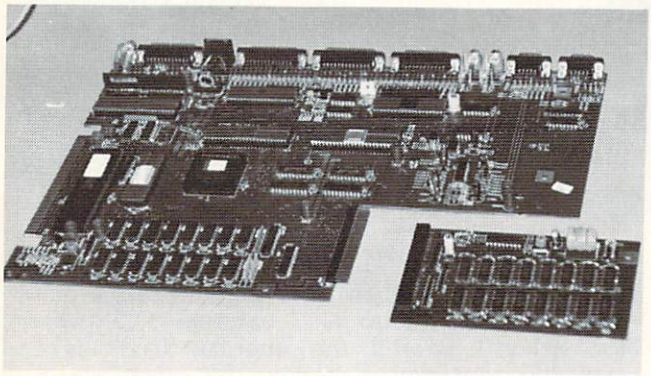
Full expansion buss on left side.



Much improved keyboard of A500.

The keyboard is notably different from the A1000 keyboard. First of all, it is not detachable. Like the C128 (and the Atari 520ST), the A500 incorporates the keyboard into the case. The key layout is also improved considerably from that of the A1000. All the standard Amiga keys are here, but some have been moved and some have been added. The numeric keypad has been enhanced with a full set of operator keys to make it a "professional" numeric keypad. The cursor keypad has been separated from the main keyboard and put into a "T" configuration located between the main keyboard and the numeric keypad. Strangely enough, the keys on the A500 keypad have the fronts marked with IBM keyboard equivalents, in much the same manner as the C64 and C128 mark the keyfronts with CBM graphics characters. This marking is an artifact of using

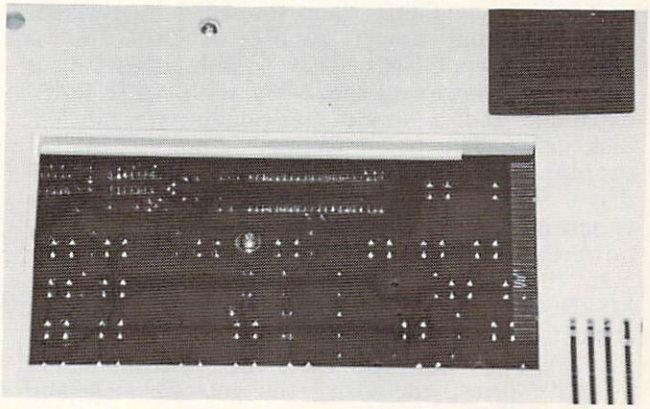
the same keyboard on the A500 and the A2000, since most 500 owners will never have the opportunity to use the IBM key equivalents (unless they operate a 5.25" drive with Transformer software or Commodore adapts the Sidecar to the A500's left-handed buss). To make those upgrading from 8-bit Commodore machines feel more at home, the left-Amiga key on the A500 has been relabeled so it resembles the familiar Commodore logo key on the C64 and C128. (Functionally it is identical to the left-Amiga key.) Interestingly enough, in the prototype photos this key is still labeled as an Amiga key on the A2000. At least in the preliminary designs, this is the sole difference between the keyboards of the A500 and A2000.**



A500 main board & optional .5 MEG RAM board.

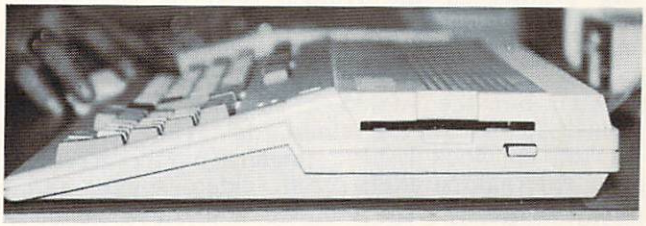
The guts of the Amiga 500 have been optimized and trimmed down. There are a few LSI chips taking over the tasks of dozens of smaller chips, and Kickstart 1.2 is in a 256K ROM. This means the power-up sequence is now a simple process involving a single WorkBench or auto-startup disk. With the A500 and A2000, BBS sysops and others operating unsupervised Amiga systems no longer need to worry about system power-downs. An auto-start disk in the internal drive will automatically reboot the system without a disk swap when power is restored to a downed Amiga 500 or 2000.

Early in the development of the new Amigas it had been proposed to make it possible to boot up with v1.1 Kickstart in the drive to allow the machines to run v1.1 applications. This RAM-overlay method would have cost some user memory, but it would have allowed A500 and A2000 owners to run some 1.2-incompatible software. In the release versions of these machines, however, that feature has not been implemented. The A500 and A2000 will only run applications under v1.2 of KickStart. Some older applications will have to be modified to be compatible with v1.2 before they can be run on the new machines.



Underside of keyboard showing RAM board socket.

The 500 comes with 512K of RAM standard, twice the memory the A1000 debuted with. This 512K is all chip RAM, instantly accessible by the graphics and sound chips. For expansion, there is a cigarette-pack size port in the bottom of the case that accepts a new 512K RAM expander with built-in battery backed-up clock. This gives the A500 a total maximum potential of one megabyte of *internal* RAM. You can also add up to 8 megs of external RAM (for a total of 9 megabytes!) via the expansion buss connector and an appropriate expansion chassis.



3.5" micro drive in right side of keyboard.

The **A501** internal 512K RAM expansion is *not* fast RAM, nor is it chip RAM; here at INFO, we like to call it *Half-Fast RAM*. It occupies high chip RAM address space, positioned just beyond the Agnes chip's ability to address it. This means that the second 512K of RAM cannot be used directly for graphics and sound, but it will still be slowed down

somewhat by intense graphics activity. While you won't get the full effect of 100% fast RAM with this expansion, for approximately $150 you'll still be adding a lot of capacity to your A500 (including a battery backed-up system clock). Commodore says the A501 expansion unit will be available when the A500 is released.

The external power supply of this unit is similar to the C128's, only a little larger. It is capable of powering the A500 with A501 RAM expander and a single additional external 3.5" disk drive. The power supply is not capable of supplying power to more than one external drive. And if you add any equipment to the expansion buss, it will have to be externally powered. You can, however, add an external 5.25" disk drive (with Transformer software) for MS-DOS applications since that drive comes with its own power supply.

The A500 comes with the standard complement of accessories, including the introductory and Amiga BASIC manuals, and two disks containing WorkBench 1.2 and Amiga BASIC. (Remember, KickStart is in ROM in this machine, so you don't need a KickStart disk.) Suggested retail price of the A500 is $640, but Commodore expects most retailers to discount the machine to under $600. Commodore is rushing to get both new Amigas to market by summer, but the 2000 is being given top priority. The 500 may not be available until June.

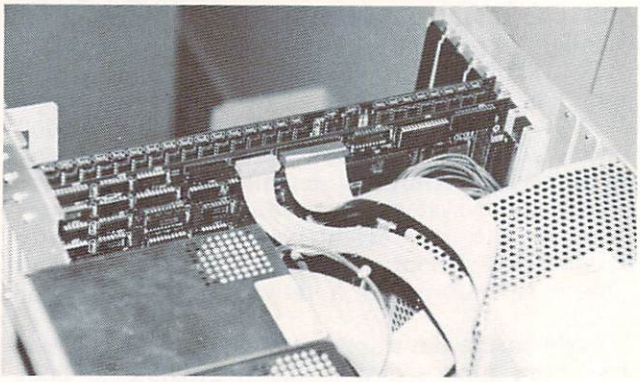
THE A2000

The A2000 is Commodore's open-architecture big brother to the Amiga 1000. It functions nearly identically to the 1000, and includes all of the internal trimming down and optimization of the A500 (including v1.2 of KickStart in ROM), but the A2000 is shipped with a full megabyte of RAM standard.* The battery-backed up clock is also standard on the A2000. The external parallel, serial, video, sound, and drive connectors are identical with those on the A500, and the keyboard layout is the same as that on the 500. The keyboard itself is detachable like the one on the A1000. The keyboard connector has been changed and made sturdier.

The case has about the same footprint as the A1000, but it's taller to make headroom inside for lots of add-on hardware. The chassis comes standard with one front-mounted 3.5" disk drive, with room to mount another 3.5" drive ($200) beside it and a 5.25" drive ($300) below

The A2000- Commodore's "tower of power"!

it. (You can also add two additional external 3.5" Amiga drives, and up to 3 external 5.25" MS-DOS drives.) Behind the internal drives is a hefty 200 watt power supply, the same size as the one in the IBM PC/AT. Why so big? Because, like the AT, the A2000 has lots of expansion slots.



A2000 card-cage has slots for PC & Amiga cards.

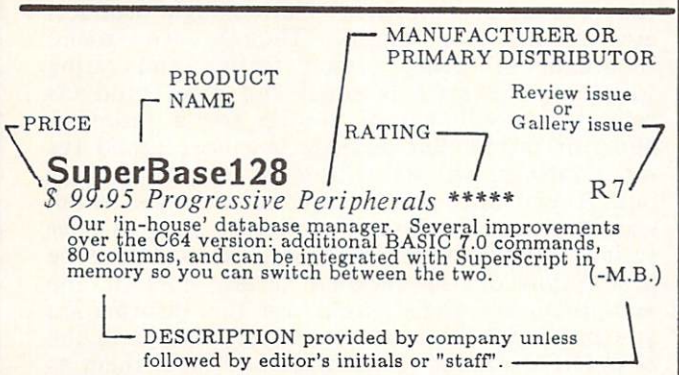
Continued on pg. 128...

'87 SPRING/SUMMER PRODUCT ROUNDUP

Welcome to INFO's biggest Product RoundUp issue ever! Commodore software developers have been burning the midnite oil these last six months; we've seen a flood of new titles. Our last RoundUp listed 1800 Commodore products, but this issue lists over 2100 products for the C64, C128, and Amiga computers.

FINDING A LISTING

The quickest route to finding what you are interested in is to go to the RoundUp Table of Contents on the page immediately preceeding the listings themselves. Check out the proper section (C64, C128, C128 CP/M, or Amiga) and scan down to the category you want, such as Finances, Wordprocessing, Games, etc. If you can't find a likely category, check out the Miscellaneous section.



How to Read the Listings

INFO RATING SYSTEM

★★★★★ OUTSTANDING!
★★★★ SUPERIOR!
★★★ ACCEPTABLE
★★ LAME
★ BULK THIS DISK!

64 128 CP/M AMIGA

Software

	64	128	CP/M	AMIGA
INTEGRATED SOFTWARE	18	66		98
BUSINESS & ACCOUNTING	18	66		98
PERSONAL FINANCE	19	66		98
SPREADSHEETS	20	67		99
WORDPROCESSORS	21	67		99
DATABASE MANAGERS	22	68		101
GRAPHICS	23	68		102
MUSIC (Hardware)	25	--		104
MUSIC (Software)	26	68		105
TELECOMMUNICATIONS (Hardware)	27	--		105
TELECOMMUNICATIONS (Software)	27	69		106
PERSONAL ENRIGHMENT	28	--		106
SPORTS MANAGEMENT	29	69		---
PROGRAMMING TOOLS	30	69		107
PROGRAMMING LANGUAGES	31	70		107
BACKUP UTILITIES	33	70		108
UTILITIES	34	70		108
PRODUCTIVITY UTILITIES	36	71		110
GAMES (Arcade & Action)	36	--		110
GAMES (Conventional)	40	71		111
GAMES (Text Adventures)	42	71		111
GAMES (Graphic Adventures)	43	71		112
GAMES (Strategy & Simulation)	45	71		113
GAMES (Educational)	50	--		114
MISCELLANEOUS RECREATION	52	71		114
EDUCATIONAL (General)	53	--		115
EDUCATIONAL (Advanced)	56	--		115
TEACHING & ADMINISTRATION	56	73		115
MISCELLANEOUS SOFTWARE	57	73		115
SCIENCE MATH & ENGINEERING	59	73		116

Hardware & Information

	64	128	CP/M	AMIGA
TELECOMPUTING HARDWARE	76	76		---
INTERFACES (General)	76	76		116
INTERFACES (Printer)	78	78		---
DATA ACQUISITION & CONTROL	79	79		116
MASS STORAGE	84	84		116
GADGETS CABLES & ETC	85	85		117
SENSORY PERIPHERALS	87	87		118
INPUT DEVICES	88	88		118
DISPLAY DEVICES	89	89		118
PRINTERS	89	89		---
MISCELLANEOUS HARDWARE	91	91		118
INFORMATION SERVICES	93	93		---
PERIODICALS	94	94		120
BOOKS	95	95		121
MAGNETIC INFORMATION	96	96		121

The first products listed in each category are those most highly rated by INFO. Five-star products come first, followed by four stars, three, etc. Unrated products appear last in alphabetical order.

STILL NOT THERE?

Even though this is the most comprehensive listing of Commodore products published anywhere, we don't list every product available for Commodore computers. If we did, you'd be buying a twenty dollar book, not a $3.95 magazine!

In the first place, we periodically delete products that are no longer in production, even though some may still be available through closeout sales, mail-order specials, or trades with other Commodore owners. We try to keep the most important of these products in the RoundUp for at least awhile, and we label these as "No Longer In Production". If you are interested in INFO's comments about an older product we no longer list, we suggest you order a Product RoundUp back issue from our Back Issues Dept. (#1, #3, #8,and #11 are the available RoundUp issues.)

Secondly, we don't list one-shot products from garage operations that are of obviously inferior quality (and we've seen some losers!). We figure we shouldn't make your life miserable by burdening you with these titles, nor should we raise the hopes of incompetent fast-buck garage entrepreneurs. On the other hand, we DO list many titles of excellent quality from sincere, competent, but underfunded Mom & Pop software companies, because their products deserve the exposure and a free listing in INFO is sometimes the only national attention they can afford. Our basic criterion is this: Is the product something our readers will want to know about?

Thirdly, we don't list all the products available from all companies. We will sometimes even have one listing for a complete line of specialized software, something we often do for educational, engineering, or scientific titles. If you see something you like listed in the RoundUp, write the company for a full catalog.

Lastly, if you are looking for C128 CP/M titles, you will find only those titles listed that (1) fill a gap in the library of available software for the C128, such as Ada and LISP language compilers, (2) are exceptionally useful CP/M utilities such as Write-Hand Man and XPIP, or (3) are specifically recommended by Commodore, such as dBase II, Wordstar, and the Perfect series.

COMMENTS

We tag all the product entries with the initials of the person responsible for the comments. Check the masthead to see who goes with what initials. "St" means "staff". If there are no initials, the comments are provided by the company, and may also contain some small observations or comments that we've picked up from a quick perusal. Many descriptions are short, but we've tried to include what we think might be pertinent when you make a purchasing decision.

AVAILABLILITY

We list some products that have been announced but are not yet in production, as well as some products that are no longer in production but may still be available from some sources. Check with the manufacturer or your local dealer before ordering any product listed in the RoundUp. And please do not try to order anything from us: we don't sell software or hardware.

PRICING

The prices we list are the latest known suggested retail prices, and are included only as a guideline. You can find many items for less at your local computer retail or discount store or by mail order. The prices on some items may have increased since our listing was written. In all cases, don't just send money to the manufacturer--call or write for availablility, pricing, and shipping charges first.

COMPANIES

Each product listing includes the name of the company which produces it. In some cases, it may be the name of an exclusive distributor. But it is always the company that consumers and dealers should contact for purchase information. A full directory of companies is printed at the end of the listings.

RATINGS

The one comment we receive most often about the RoundUp listings is "Not enough products are rated!" We agree. Though we spend thousands of hours a year testing and rating software, our staff is small and most products require many hours of testing for a thorough and fair rating. But because you have asked for more ratings, we are willing to let *you* help us out. If you have used a product that you think should be rated, please feel free to send us *your* rating, along with a brief, RoundUp-type description of the product. Please include the manufacturers name. We'll use the information you provide to update some of the ratings in the *next* INFO Product RoundUp, and label them as "Reader Rated" products. Is that fair, or what?

Send your RoundUp Ratings to:

INFO Magazine Reader Ratings
PO Box 2300
Iowa City IA 52244

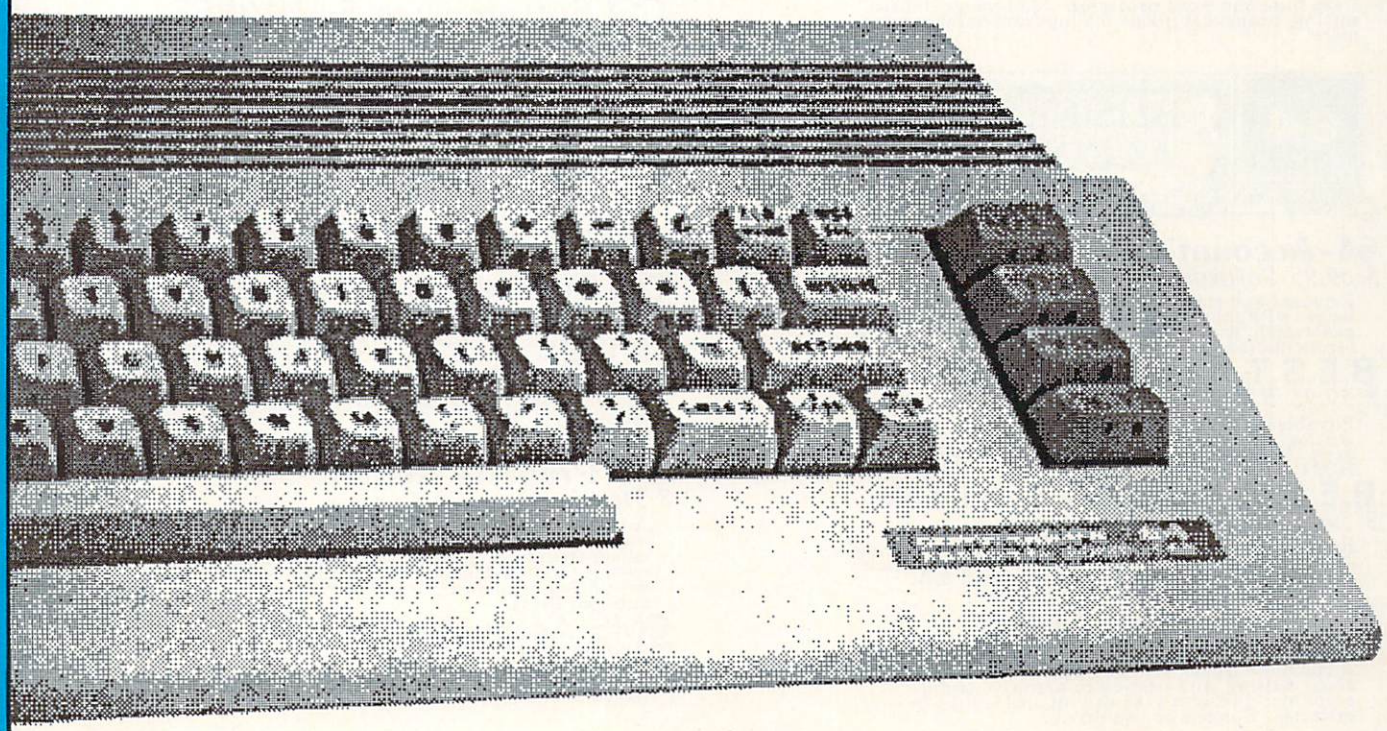
MISTAKES

As soon as a RoundUp issue hits the stands, we always get calls like "That company has been out of business for two months!", or "That's not the right price on that game!", or "How come 'Gumby's Plastic Adventure' isn't listed? It's the greatest!"

There is a very simple explanation for such errors and omissions. Almost 50% of the staff of INFO is composed of human beings. And, being mere Homo Sapiens, we make mistakes. If you catch one, we're sorry, and by all means please help us to correct it.

Hope you enjoy the RoundUp!

64



64 INTEGRATED

Intelligent Software Package
$ 19.95 Intelligent Software **+

25 BASIC programs including text editor, dbms, spreadsheet, etc. A nice tutorial package for those who can learn by LISTing and modifying BASIC code, but these programs are generally no better than many others in the public domain. (-M.B.)

Brown Bag Wordprocessor/dbms
$ 59.95 Brown Bag Software

Wordprocessor supports cut & paste, mail merge from integrated database, and has on-line help. DBMS includes seven predefined templates for addresses, etc., can sort files on any field.

HomePak
$ 49.95 Batteries Included

Word processing, information management and telecommunications on a single disk. Integrated.

Personal Choice Software
$ 99.95 Activision

Activision's revised and redone enhancement of the Creative Software series. Package includes Writer's Choice, Filer's Choice and Planner's Choice.

Rhapsody
$ 64.95 King Microware

Integated database, word processor, spelling checker, and spreadsheet with graphics.

Team-Mate
$ 24.95 Tri-Micro

Integrated word processor, spreadsheet, and dbms, related to the software ROMmed into the Plus/4.

The Write File
$ 17.95 Tri-Micro

Word processor with mail merge dbms and graphics.

Trio
$ 49.95 SoftSync

The 3 most essential computer programs (word processor spreadsheet and data base) on a single disk. Data file compatibility between programs. On-screen command reference and pull-down help windows.

Typro-64
$ 59.00 Input Systems

Data base and word processor. Mail merge, labels, sorting, acoustical phone dialing from database and more.

64 BUSINESS & ACCOUNTING

64-Accounting
$ 69.95 Software Design

Personal and small business accounting system. General ledger with minj-accounts receivable/payable, Statement generation, trial balances, check writing, checkbook reconciliation.

B.E.S.T. Accounts payable
$ 59.95 B.E.S.T.

Payables system with automated file creation and check writing . Maintains last 45 active transactions for each of 100 accounts per data disk. Integrates with BEST General Ledger.

B.E.S.T. Accounts Receivable
$ 59.95 B.E.S.T.

Receivables system with automated file creation and statement printing. Maintains last 45 active transactions for each of 100 accounts per data disk. Integrates with BEST General Ledger.

B.E.S.T. General Ledger
$ 69.95 B.E.S.T.

A complete ledger with 200 g/l accounts. Automated check writing, and posting to a/r, a/p, and g/l accounts. Includes year end reports and 24 month histories. For one or two drives.

B.E.S.T. Inventory Management
$ 69.95 B.E.S.T.

A complete system for managing up to 1500 inventory line items per data disk. Print invoices and purchase orders using standard forms. 1 or 2 drives.

B.E.S.T. Project Planner
$ 69.95 B.E.S.T.

Time constraint planning for large or small projects, with re-evaluation and modification capabilities.

Bottom Line
$ 35.00 Midwest Software

A simple general ledger program for home, school or business. Up to 99 different account titles may be defined. Approximate capacity of 80,000 entries with additional data disks.

BSC Bookkeeper
$ 39.00 Business Systems & Conversions

Complete record keeping system developed by a CPA. Menu controlled, records always in balance, no accounting training needed. Automatic monthly and year-end close. Current bank balance instantly available at all times. And lots more.

Business Systems
$ 59.95 Timeworks

Modular g/l system with optional a/r, a/p, sales analysis, inventory, payroll modules. $59.95/ea.

CCI Bottom Liner Serial/IEEE
$ 74.95 Clockwork Computers

An expandable accounting system with single or double entry for home or small business. Prints checks, invoices & statements; computes cash flow, bank balance, trial balances, a/r and net worth. Manual includes many examples. The two 1541 drive version is $119.95.

CCI Condominium Accounting
$ 154.95 Clockwork Computers

Consists of 2 disks. Disk#1 is for invoicing and printing spreadsheet statements. Disk#2 is an accounting system to handle all income. Requires a C64 or C128 with two 1541/71s or 8050/sfd/8250.

CCI Merchandiser Plus (IEEE)
$ 399.00 Clockwork Computers

A complete POS system for retailers and distributors for handling cash, checks, credit cards, COD, charge sales and refunds. Adjusts up to 5000 inventory items as you make sales. Includes invoicing, price tagging, accounts receivable, sales & profit forecasting. Requires a C64, C128 or B128, 8050 or SFD1001 drive, a C-Link-2 I/F and an Okidata printer. Cash drawer optional.

CCI Property Rental
$ 119.95 Clockwork Computers

A complete unit rental management package, that can search for availability, make reservations for specified times and calculate rental charges. Maintains agents owners, and unit files. Prints invoices and statements with aging, income and expense reports. Requires a C64 and two 1541s.

CMS Accounting System
$ 179.95 CMS Software

Integrated general ledger, accounts receivable and payable, billing, job costing, and payroll.

Cyber-Farmer 64
$ 125.00 Pro-Ag Software

Farm accounting system. Also available are accounting and management programs for grain, beef, pork, and general business applications for $49.95 each. There is also a complete hog production package called 'Hog Farm 64' for $99.95.

Dome Accounting by Computer
$ 39.95 Great American Software

Accounting package based on the popular Dome Bookkeeping Records. Predesigned accounts are included that you may modify for your own needs. Automatic updating is supported. Features include a perpetual calendar, memo pad, calculator, and a report generator that will give you a list of payroll, expenses, and income.

ESI Time Biller
$ 89.00 Electronic Software Inc.

Complete time accounting and client billing system used by attorneys, accountants and consultants. User definable activities and expense codes, multiple billing rates, pre-billing review and more.

Integrated Software Series
$ 49.95 Info Designs

Five separate accounting modules: general ledger, a/r, a/p, payroll, and inventory for $49.95 each.

Invoicer V2.1
$ 69.95 MiccaSoft

Fast and simple invoicing program. Create a database of accounts and stock items which can be recalled while invoicing. Custom modifications available.

Money Manager
$ 24.95 Timeworks

A series of easy to use management information reports flexibly designed to accommodate small and medium sized business requirements. 16 budget and actual categories can be entered on monthly basis for 1 year period.

Statistical Package
$ 100.00 Programmed Press

Collection of 50 investment-oriented statistical progs.

Versabusiness Series
$:na Computronics

Modular accounting package. G/L ($150), A/R, A/P, Payroll, Inventory, ($50/ea)

Certified Personal Accountant
*$ 79.95 Progressive Peripherals ****+*

This is the easiest to use, best documented, sensibly put together personal finance package we have seen yet. Gives you a real sense of confidence and guides you sure-handedly thru all phases of set-up and routine use. Extensive help screens & tutorial. Formerly marketed by Sundex. (-B.D.)

Financial Cookbook
*$ 49.95 Electronic Arts ****+*

One of the handiest little packages for the average person trying to figure out whether to buy/rent or save/invest, etc. I used this recently during the sale and purchase of our home and will use it before I buy a car or open a money market account. (-B.D.)

Personal Accountant
*$ 34.95 SoftSync ****

Double entry bookkeeping/maintain checkbook, credit cards, loans/reports including trial balances, profit/loss, expense vs. income, assets vs. liabilities. Amortization tables and address book functions. (-B.D.)

1986 Tax Return Helper
$ 33.00 KSoft

Supports schedules A, B, C, D, E, G, SE, & W along with forms 1040, 2331, 2106 and 4562. The 'Professional Version' is $45 and prints data on IRS forms.

Amort-64
$ 29.95 Input Systems

Amortization program that displays to screen or printer.

Comtax
$ 29.95 Milo Software

Income tax preparatlion. Prints standard IRS forms. Not protected.

Cost&Value of Retirement Fund
$ 48.00 Perfas

The centerpiece of the software package is the book, it's a set of calculation procedures that enable the reader to evaluate the cost and value of a retiremant or savings fund, taking into account investment return, taxes, and inflation over the life of the fund.

Electronic Checkbook
$ 24.95 Timeworks

Check recording, sorting, and balancing system that interfaces with Money Manager for budgeting.

EZ-Checking
$ 29.95 Genesis Software

Personal checking program using fast ISAM files. Searches on five levels, printed reports, screen displays same as paper checks.

Finance & Statistics
$ 19.95 Cardinal Software

Calculator package that includes several modes: financial, statistical, regression analysis, linear programming, and odds calculator.

Home Finance Manager
$ 49.95 Cardinal Software

Complete mini-financial management program. Maintains all of the details of home finance record keeping, with the ability to store in excess of 200 transactions per month. Keeps detail records of tax deductions, bank payments, monthly charges, check transactions, and individual item expenses. Detailed printouts and charts, annual reports, etc.

Investment Advisor
$ 69.95 MiccaSoft

Complete financial analysis tool sophisticated and yet simple. Includes individual fed. income tax planning.

Investors Pak
$ 25.00 Useful Software

20 plus business programs for solving financial problems, mortgages, real estate analysis, present values, syndication, leases, etc.

J. K. Lasser's Income Tax
$ 49.95 Simon & Schuster

Takes you through form 1040 and 27 other tax forms line by line. The program can determine which forms you need to use.

J. K. Lasser's Money Manager
$ 69.95 Simon & Schuster

Organizer for your financial records. Includes such features as financial statements, check writer, balance sheets, and budget reports. Help screens and a four-function onscreen calculator.

LifePlan
$ 59.95 LifeWare

An easy to use personal financial management system for home use. Designed to help middle class families and individuals improve their financial security. Includes credit management (to control or eliminate debts), expense management (budget plan), and Financial growth monitoring (via special screen displays and printouts), 5 different charts/graphs and 8 monthly reports.

Personal Net Worth
$ 79.95 Scarborough Systems

Lets you manage, track and organize everything you need to know or do about your money matters.

PPM-64
$ 39.95 Abacus Software

Personal Portfolio Manager for tracking the performance of stocks, bonds or options. Also tracks profits and losses for tax purposes.

Prepay
$ 99.95 Useful Software

Figures your savings if you can afford to prepay a mortgage. Use to establish frequency and future value of your payments. Prints amortization table.

Real Estate Investor
$ 35.00 Jance Assoc.

Enables the prospective real estate buyer to analyze the financial and tax consequences of alternative real estate investments.

Realanal
$ 99.95 Useful Software

Income-producing real estate analysis package provides 'what-if' figures on taxes, interest, etc.

Smart
$ 49.95 Double E Electronics

Covers word processing, money management, amortizations, recording keeping and time management.

Stock Helper
$ 30.00 (M)agreeable Software

A technical analysis program that displays weekly price and volume charts and calculates moving averages of prices. You may enter weekly data for up to 100 stocks and up to 20 market indicators. Keeps up to 52 weeks of data and drops the oldest week. You decide when to buy or sell.

Stocktrak
$ 29.95 Dynamax

Charts, plots, and tracks stocks, dumps charts to printer, plots moving averages, etc.

StockTrender
$ 40.00 JB Horton

Stores 53 weekly stock prices (data input by user). Stores values for 100 stocks per disk. Calculates mean mean FPC, annualized yield, variance, standard deviation and other statistics. Ranks best to worst stock in 6 categories.

Swiftax
$ 49.95 Timeworks

An income tax preparation program that requires no prior knowledge of computers or accounting. Supports schedules a,b,c,d,g,w,se, and form 2441 - stores the totals and integrates this info into your form 1040, 1040a, or 1040ez.

Sylvia Porter's Pers. Finance
$ 49.95 Timeworks

Financial planning by objectives, checkbook, budget preparation, tax aids, financial statements and inventory tracking. Includes toll free user support number.

TAS-64
$ 39.95 Abacus Software

Analyzes and charts technical indicators for the serious stock market investor. Automatically download your indicators from Dow Jones/News retrieval service or Warner Computer Systems or manually enter, edit, review, save and recall this information. Claimed to now be 3-4 times faster than previous versions. (-Staff)

Tax Command
$:na Practical Programs

Figures taxes for 1986 for forms 1040 (sched. A to G, R, SE), 1040-EZ, 2106, 2119, 2441, and 3903.

Tax Master
$ 30.00 Master Software

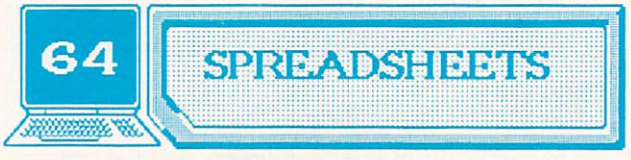
Menu-driven income tax preparation including an on-line calculator. Covers forms 1040, 4562 and schedules A, B, C, D, E, & F.

Tax Planner
$:na MiccaSoft

Tax planning program designed by an accountant, lets you see the consequences of your financial actions.

Wallstreet Microscope
$ 135.00 Wallstreet Corp.

Investment software for analysis of common stocks. Complete with database of 1500 firms on disk. Updates available by subscription. Single or batch processing. Search capabilities, market averages, file creation and maintainance capabilities. Demo disk also available.



Calc Result Advanced
$ 99.00 ScanAm ****

A 3-dimensional spreadsheet that supports split screens, windows, color graphing, extensive help screens and complex formulas. Search and sort routines would make this powerful package exceptional. The 64 and 128 versions are on the same disk. Formerly from Handic. (-B.D.)

Pocket Planner 64
$ 39.95 Digital Solutions ****

250x100 cell spreadsheet with sideways printing, 16-digit accuracy. Formerly Paperback Planner. (-Staff)

Calc Result Easy
$ 29.95 ScanAm ***

A single page, scaled down version of calc result advanced (this is the same product Commodore markets as 'Easy Calc 64') with no windows or split screens. Formerly from Handic. (-B.D.)

Multiplan
$ 45.00 Epyx ***

Microsoft's popular advanced spreadsheet package for the 64, at a fraction of it's original cost and with most of it's original power. The only problem with the C64 version is the long disk accesses between menu selections. The much better C128 version is included on the same disk. (-M.B.)

Better Working Spreadsheet
$ 49.95 Spinnaker

Spreadsheet with basic word processing functions and the sorting capabilities of a data base manager.

Calc Now!
$ 29.95 Supra

64 column by 254 row spreadsheet with split windowing. 39K free memory. Formerly from Cardco.

Calkit
$ 49.95 Batteries Included

Spreadsheet with built-in templates for the most needed home and business applications, including income tax, budgets and more.

geoCalc
$ 49.95 Berkeley

GEOS-based spreadsheet with 112 rows and 256 columns. A number of different mathematical functions. Split screen capability and several print options.

Planner's Choice
$ 39.95 Activision

Activision's revised and redone enhancement of Creative Planner.

Powerplan-64
$ 39.95 Abacus Software

Powerful and flexible spreadsheet for the C64, with built-in graphics so you can display your data in graphs as well as numbers. Menu driven, with over 90 help screens to assist you, and a complete tutorial is included.

PractiCalc 64
$ 29.95 PractiCorp International

Full feature spreadsheet which includes 23 math functions and many spreadsheet options such as insert, delete, move and copy. 250 rows by 100 columns and is compatible with PractiFile's data files.

SwiftCalc
$ 49.95 Timeworks

Powerful easy-to-use spreadsheet designed for home or small business use. Includes 'Sideways' which allows you to print your spreadsheets sideways on your printer. 250 row by 104 columns. Interfaces with Data Manager 2 and Word Writer.

Syncalc
$ 49.95 Broderbund

Electronic spreadsheet, a separate disk of 22 pre-designed templates is available for $19.95.

Vizastar
$ 119.97 Progressive Peripherals

1000 x 64 cell spreadsheet with 10K RAM available (14K with the XL8 version for extra $$$). Powerful spreadsheet commands, windows, DBMS, graphics, pie and bar charts, menu-driven and easy-to-use. Need we say more than it's the C64's answer to 1-2-3! (-Staff)

COMPUTER TRIVIA

The sixteenth century German philosopher Leibniz devised *two* mathematical systems necessary for the development of the computer—binary numbers and symbolic logic.

64 WORDPROCESSING

Paperclip
$ 39.95 Batteries Included ****+

Paperclip is an excellent wordprocessor. It's compatible with 80-column hardware, has software 80/160 column preview modes, horizontal scrolling virtual screens in 40 column mode, extensive search & replace variations, the best column manipulation functions in any wordprocessor, block move/copy/delete, and much, much more. Includes Spellpack, and latest version E is now unprotected (no dongle!) (-B.D.)

Pocket Writer 64
$ 39.95 Digital Solutions ****+

Word processor with visual on screen formatting like boldface, underline, and italics. The best of the what-you-see-is-what-you-get wordprocessors. Formerly Paperback Writer. (-Staff)

Easy Script
$ 49.95 Commodore ****

Quality at a low price. Range of capabilities similar to Wordpro 3 Plus. Features on-screen formatting and horizontal scrolling. (Originally developed by Precision Software). (-B.D.)

Script 64
$ 65.00 Rich Hill ****

Full-featured with search and replace, numerics, screen formatting and dictionary software built-in (you must build the vocabulary yourself). Built-in 80-column software. Mail merge support with included 'Scratch Pad' mailing label program. Now includes integral fast load routines. (-B.D.)

Spellpro 64
$ 49.95 Pro-Line ****

25,000 word dictionary (expandable) spelling checker for Pro-line's Wordpro 64. (-B.D.)

Wordpro 3 Plus/64
$ 49.95 Professional Software ****

Full-featured wordprocessor with Spellright Plus and widely supported by other vendors' products. Lacks on-screen formatting and multi-column capability. Spellright is an 18,000 word spelling checker with room for 1500 user entered words. (-B.D.)

Wordpro 64
$ 39.95 Spinnaker ****

All the standard wordprocessor features plus: 100% proportional spacing, 40 to 136 column of screen display (you can't read them but you can see what your page will look like), multiple columns printed in one pass, and an 'oops' buffer for accidental deletions. Also includes spelling checker. Formerly from Pro-Line. (-B.D.)

Easy Spell
$ 29.95 Commodore ***+

20,000 word dictionary and spelling checker that works with Commodore's Easy Script. (-B.D.)

SpeedScript
$ 14.95 Compute! ***+

A nice little wordprocessor with more bells & whistles than you might expect from a type-in program. Widely used, it stores files in its own format, but they can be converted via a utility. Uses embedded commands, some of which can be defined by the user. There are better wordprocessors out there, but the price is right if you don't mind typing the thing in. Price is for a book containing listing & docs.

Cut & Paste
$ 39.95 Electronic Arts ***

Advertised as 'the remarkably simple word processor'. What Cut & Paste gains in simplicity, it loses in power and utility. While no one likes unnecessary complexity, we don't need to be protected from search & replace, just show us how to use it better. (-B.D.)

Homeword
$ 49.95 Electronic Arts ***

Menu-driven wordprocessor features icon function selection and pictorial view of document layout. Includes audiotape tutorial and a 30 page manual. In spite of thought and labor behind it, it's slow and awkward. (-B.D.)

Omniwriter With Omnispell
$ 24.95 HES ***

On-screen formatting, interfaces with Multiplan, and integral 30,000 word spelling checker highlight the many features of this wordprocessor. (-B.D.)

SkiWriter
$ 14.99 Mastertronic ***

A nice little easy-to-use wordprocessor along the lines of 'Speedscript' w/on-line help. Block moves are somewhat awkward, but still OK. Companion Mastertronic titles are Busicalc3 and Instant Recall (filer) at $14.99/ea. (-M.B.)

Bank Street Writer
$ 49.95 Broderbund

Generally well-regarded wordprocessor especially suited to occasional users. Also available is the Bank Street Speller ($49.95), a spelling checker for use with the word processor.

BrainStorm 64
$ 12.95 Country Road

An idea (or outline) processor for the C64. Unprotected

Fleet System 2
$ 59.95 Professional Software

Complete word processor with built-in 70,000 word spelling checker (15,000 customized words can be added). Built-in 80 column scrolling, math functions, search and replace, etc.

Fontmaster
$ 49.95 Xetec

Version II. 33 fonts, font editor, full wordprocessing editing functions, even supports right-to-left editing for Arabic, Hebrew, etc.! 18 interfaces/50 printers

HomeText (from HomePak)
$ 49.95 Batteries Included

HomePak is three programs on one disk (terminal, word processing & database). 14K buffer is only about 7 pages of text. (-Staff)

Speedmate
$ 20.00 Upstart Publishing

Utility package for Compute!'s SpeedScript word-processor. Includes a hires 80-column preview package, ability to permanently change default margins, 35 predefined printer codes, optional word-wrap toggle, and an 80 X 25 print preview which shows what the page will look like as it is scrolled upward. Requires SpeedScript 3.0 to 3.2.

SpeedPak
$ 20.00 Upstart Publishing

Adds several useful functions to Speedscript, like user defined macro phrases, Dvorak keyboard, alternate screens (edit two files at once/cut & paste between them), help screens, alternate fonts, file encryption, RAM-based mail merge. Also includes SEQ ASCII to PRG screen code conversion. Requires SpeedScript 3.0 to 3.2.

Spell Now
$ 29.95 Supra

Spelling checker to use with Write Now! word processor. Formerly from Cardco.

Textomat-64
$ 29.95 Abacus Software

Wordprocessor features form letter capability, doc. chaining, block operations, 80-columns w/horizontal scrolling.

The Critic
$ 19.00 Quantum Leap

Software 80 column view mode, supports keyboard graphics, globals, word count, quick reference cards and a 15 page memory.

The Whole Bit
$ 39.95 Applied Technologies

Menu-driven wordprocessor with 20K text buffer, 80-column preview. Version with manual as textfile on disk sells for $15 less.

Thinking Cap
$ 49.95 Broderbund

Outline/idea processor which includes four format options and a text editor for writing your final draft.

Thoughtform
$ 35.00 Thoughtform

Thoughtform is an outline processor for the C64. It supports 200 levels of indentation, outlines longer than system RAM (!) and text blocks linked to headings. It allows full compression and expansion of outline sections.

Word Writer 3
$ 49.95 Timeworks

An efficient 80-column professional word processor with built-in 40,000 word spelling checker and calculator. Interfaces with other Timeworks products. This version will write GEOS compatible files.

Word Writer
$ 49.95 Timeworks

An efficient 80-column professional word processor with built-in 40,000 word spelling checker and calculator. Interfaces with other Timeworks products.

Write Now!
$ 29.95 Supra

Built-in 80-column display and all the usual features. Formerly from Cardco.

Writer's Choice
$ 39.95 Activision

Activision's revised and redone enhancement of Creative Writer.

Writer's Workshop
$ 49.95 Berkeley

GEOS based word/text processor that fits into Geowrite. Lets you take text from Geowrite and other word processors such as Paperclip, EasyScript, and SpeedScript and lets you completely revamp the appearance with new fonts, pictures, and the like. You can also upload your formatted files to QuantumLink to be laserprinted and then mailed back to you.

WURDS
$ 20.00 Upstart Publishing

'Websters Upstart Readymade Dictionary'. Spelling checker for use with SpeedScript's spelling checker.

Superbase 64
$ 99.95 Progressive Peripherals *****

This tops our list of the best database managers. Excellent products like 'Superbase 64' have elevated the C64 to new heights of respectability. This is an advanced programmable database manager, with extremely flexible options for manipulating, sorting, and report-making. Not the best choice for the novice who wants to keep track of recipe files, but invaluable for expert and business users. (-B.D.)

Consultant
$ 59.95 Batteries Included ****

This is a quality product overall with 9 screens per record, flexible reports and password protection. It also allows multiple keylists for each database. We found some problems with initial screen design, screen esthetics, and lack of flexibility in mailing label design. Formerly Delphi's Oracle. Now includes C128 version on the same disk. (-B.D.)

Flexfile 2.1
$ 59.95 Cardinal Software ****

Allows thousands of records/file, >20 fields/record. Reorder, select records by multiple criteria. Prints reports, mail labels, etc.

PractiFile
$ 29.95 PractiCorp International ****

Handles large filing tasks with ease. Allows reconstruction of files without re-entry of data. Includes mail label feature, report writer, and integrates with PractiCalc 64.

Home Organizer Series
$ 19.95 Batteries Included ***

Series of dedicated list managers (sold separately) for: stamps, photos, mail list, home inventory, recipes, checkbook, audio/video, address book. While we encourage readers to learn how to use a general purpose database manager, these application subsets of 'The Consultant' may be the best choice for those with a very specific filing need or aversion to programming. (-B.D.)

Pocket Filer 64
$ 39.95 Digital Solutions ***

DBMS that supports up to 2000 characters in up to 255 fields per record, unlimited records, sort up to 9 criteria, password protection, on-screen help, fast loads, and 16 colors. Easy to use, but not a heavy duty DBMS. All commands and operations are similar to other Pocket software. Formerly Paperback Filer. (-Staff)

The Manager
$ 49.95 Commodore ***

This data base management system has many unique and delightful features but suffers from abominable documentation and a lack of internal consistency, possibly due to its long evolution and development at the hands of many TPUG contributors, where it originated. (-B.D.)

Bank Street Filer
$ 49.95 Broderbund

Simple to use DBMS which is compatible with the Bank Street Writer word processor. For custom form letters there is also available the Bank Street Mailer ($49.95)

D-Base/80
$ 59.00 F-Systems

Full featured 80 col. database for use with popular 80 column expanders. Features 'Dual-Screens' operating system that operates 2 monitors simultaneously, each with different screen.

Data Manager 2
$ 49.95 Timeworks

Complete general information storage and retrieval system with report writing, graphics, statistics, and label making capabilities. Interfaces with Word Writer and Swiftcalc. Available as Data Manager without sorting and graphics features for $24.95

Datamat-64
$ 39.95 Abacus Software

You design your own database in free form using the full screen editor. To handle your complex data needs, you can define up to 50 fields per record and up to 2000 records per disk. Sort on multiple fields in any combination, then select records for printing.

Deluxe Addresser
$ 39.00 Briley Software

Easy mailing labels, up to 250/file, four line address with phone, 8 user-definable flags and many features.

ESI Time Planner
$ 49.00 Electronic Software Inc.

Maintain daily and monthly schedules in 15 or 30 minute intervals for any date for any person with any number of daily reminders with this personal calendar and appointment program.

Fastfile with report
$ 59.95 Interactive Mini Systems

Uses 256 byte/record, up to 720 records. Includes pre-designed files for inventory, checks and Tax form 8283. Small record/file size because program stores and manipulates all data in memory, which makes for very fast searching and sorting but limited capabilities. (-Staff)

FGS
$ 21.95 Byteware

Specialized data system for the genealogist. Allows the genealogist to enter information for a Family Group Sheet and saves information to disk or tape. Prints standardized Family Group Sheet. A MINI-UTY utility program for use with FGS and PED C is available for $13.95. It contains disk utilities, date estimator, inquiry letter printer, and label printer.

File Cabinet
$ 5.00 Quantum Leap

Free database (the $5 is for disk, shipping & handling) Searching and sorting included, size limited to disk.

File Master
$ 35.00 Midwest Software

254 character record length with 28 fields per record allowed.

Filer's Choice
$ 39.95 Activision

Activision's revised and redone enhancement of Creative Filer.

Fleet Filer
$ 39.95 Professional Software

DBMS compatible with the Fleet System word processors. Handles up to 5000 records, each with up to 22 text/numeric fields. 255 character field limit. Calculates between fields. Conditional save. Report generator and multi-column mailing label function. Files are compatible with PS's Fleet series wordprocessors.

Geodex
$ 39.95 Berkeley

Geos based card file. Includes GeoMerge to use with the database to produce mass mailings.

geoFile
$ 49.95 Berkeley

GEOS-based DBMS that features automatic sorting, 8.5 x 11 form size, and customized print options. Compatible with all the other GEOS applications.

Handic Data Base
$ 59.95 ScanAm

Allows 3800 records per disk with 17 fields per record, 27 characters per field, and record name of 27 characters. Comes with a template for an address book. 'Comes on a plug in cartridge and diskette.'

HomeFind (from HomePak)
$ 49.95 Batteries Included

HomePak is three programs on one disk (terminal, word processing & database). A simple natural-language list manger. (-Staff)

M'File
$ 49.95 Double E Electronics

Data base with up to 36 fields per record, 250 characters per record, 1000 records per disk. Includes report generator that allows columnar or horizontal printing.

Mailer
$ 19.95 Raymond Reynolds

Stores and retrieves up to 800 records with name, address 1 and 2, city, state, zip and telephone numbers.

MasterType Filer
$ 39.95 Scarborough Systems

Home filer and list manager that uses color, sound and graphics to attract children.

Microfiler
$ 29.95 Supra

Database manager on cartridge, stores to disk or tape.

Multifinder
$ 39.95 Knowledge Ware

A text-oriented DBMS. Comes with templates for literary references (unusual), names/addresses, cookbook index, video cassettes, and home inventory. You can also design your own applications. Full screen editor. Records are displayed neatly with word-wrap. Fast disk searches are executed in drive RAM. 'Hits' are sorted on any field. 650 records/data disk. A demo is available for $2.

PED C
$ 21.95 Byteware

Specialized data system for the genealogist. Allows the genealogist to place information for a pedigree chart in a disk or tape file for later recall or editing. Prints standardized pedigree charts. Also usable by breeders.

Superbase Starter
$ 49.95 Progressive Peripherals

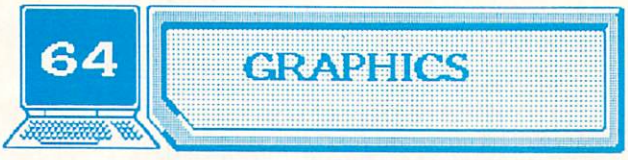
Essentially Superbase without the programming language, this IS the version to get if you want to track recipes

VideoFile
$ 49.95 VideoFile

Keeps track of up to 200 video programs recorded on up to 50 video tapes.

XPER-64
$ 39.95 Abacus Software

Not exactly a database manager, but an expert system. Aids in decision-making based on known data.



Flexidraw 5.0 with light pen
$ 99.95 Inkwell *****

Comprehensive light-pen based drawing package (for use with Inkwell's professional grade pen), supports true hi-res (320x200) with elaborate area pattern fills, unlimited template creation, two printout sizes, sprite editor, animation routines, coloring mode, telecommunications mode for transmitting graphics, programming graphics language & more! Not a toy, but lots of fun! (-B.D.)

Flexifont
$ 29.95 Inkwell ****+

Light pen driven character generator with thirty-three accessable font (letter) styles, plus option to create users' own characters, foreign characters, symbols or patterns fills. Characters can be edited, moved, customized and saved. Requires Flexidraw & light pen.

Print Master
$ 34.95 Unison World ****+

Produce greeting cards, calendars, banners, and more on your dot-matrix printer. On-screen preview before printing, fast print speed. Now revised with a new user interface, without the 'look and feel' of Print Shop. (-M.B.)

Billboard Maker
$ 39.95 Solutions Unlimited ****

A unique program which takes pictures from almost any drawing program and converts them into signs and huge billboards, with a marvelous optimizer routine. Latest revision claimed to be much faster at 'optimization'. (-M.B.)

Doodle!
$ 39.95 Crystal Rose Software ****

Routines include: paint & erase with 8 brush sizes, duplicate, enlarge, reduce, reverse & mirror. Menu driven with color, various text sizes, orientations, zoom, marvelous 'op art' feature, built-in graphics dumps to printer in single or double size. Formerly from City Software. (-B.D.)

GEOS v1.2
$ 59.95 Berkeley Softworks ****

Graphics operating system for 64 (shipped w/64C) gives the 64 an icon-and-mouse operating system. Nice, but hampered by memory and disk limitations of 64. Desktop publishing aspects are the strong point, with GEOwrite & GEOpaint programs. Edit pages with graphics and text integrated, and near-Mac quality fonts & pictures. Key disk protected. The future of GEOS as an operating system rests with third-parties. (-M.B.)

Icon Factory
$ 39.95 Solutions Unlimited ****

Graphics conversion program converts any of the following picture formats into the others: Billboard Maker, Animation Station, Print Shop, Print Master, Newsroom, Blazing Paddles, Doodle!, Koala, Flexidraw, Computer-eyes, Supersketch. In the process you can enlarge and Optimize (ala Billboard Maker) pics, rotate, negate, flip, and otherwise goof around with your images. (-M.B.)

Perspectives II
$ 59.95 Kira ****

Create 3-D hi-res line drawings on a unique orthogonal 'drafting board' where each of 3 views is is displayed and updated as you draw in any one view. Drawings can be saved edited, scaled, and viewed in perspective. You can view finished objects from any position, even from inside! Up to 200 'frames' can be stored for animation Other features include hidden line removal and stereo imaging. Frankly, we're impressed. (-B.D.)

Picasso's Revenge
$ 59.95 Progressive Peripherals ****

Multicolor drawing program with lightpen. Some very nice features including geometrics, palette of mixed colors. The move and copy feature is especially nice, and is unique. Good color printing support to Canon inkjet, and other printers. One limitation is inability to paint interior space a different color than the border. (-M.B.)

Print Shop
$ 39.95 Broderbund ****

Opened new territory for personal computer owners, with capabilities to produce greeting cards, signs, banners, letterheads, and more on a variety of popular printers. Excellent manual, built-in graphics editor, menu-driven simplicity. Suffers from very slow print times, lack of ability to preview designs. Supported by 'Companion' disk and several graphics library disks, plus many public domain graphics designs. (-M.B.)

Banner Machine
$ 49.95 Cardinal Software ***+

Produce banners in custom fonts on dot-matrix printers. Not as versatile as some others, but nice fonts, fast dumps, many additional fonts available. (-M.B.)

CAD-3D
$ 39.95 IHT Software ***+

3D design program lets you rotate, zoom, flip from 3D perspective to 3-plane views. Dump Doodle-compatible files to disk, or to dot-matrix printer, 1520 plotter. 256x256x256 active drawing 'volume'. Not enough detail and depth for serious work, but a good learning tool. (-M.B.)

Graphics Scrapbook
$:na Epyx

A series of clip-art disks for use with Print Shop and PrintMaster. Includes 'Sports' and 'Off the Wall'.

Micro Illustrator
*$ 29.95 Commodore ***+*

The original C64 graphics program, MI offers a choice of joystick or lightpen input. Holds up pretty well to the test of time, though later programs have surpassed it in features. Multicolor, 'mixed' colors, symmetry. (-M.B.)

Newsroom
*$ 50.00 Springboard ***+*

Four stars for innovation, but lacks speed, ease of use additional fonts or graphics tools. Lets you create a newsletter on your computer complete with headlines, banners, and illustrations, and dump it to a dot-matrix printer. Some dot-matrix printers (Epson in particular) produce really inferior output under Newsroom, so check your printer compatibility first. (-M.B.)

Print Shop Graphics Lib. III
*$ 24.95 Broderbund ***+*

More graphics to be used as supplementary art with the (required) 'Print Shop'. Includes graphics for road signs, animals, etc. (-Staff)

Print Shop Graphics Lib. II
*$ 24.95 Broderbund ***+*

120 graphics to be used as supplementary art with the (required) 'Print Shop'. Includes graphics for hobbies, occupations, people, places, travel and health. (-Staff)

Print Shop Graphics Lib. I
*$ 24.95 Broderbund ***+*

120 graphics to be used as supplementary art with the (required) 'Print Shop'. Includes graphics for holidays, special occasions, sports, school, zodiacs, animals and more. (-Staff)

Art Gallery I & II
$ 24.95 Unison World

Over 100 additional graphics for Print Master on each.

Banner Printer
$ 14.95 Raymond Reynolds

Prints letters and characters in banner style on any Commodore printer and many others (does not use bit addressable graphics). Tape version for $9.95.

Blazing Paddles
$ 34.95 Baudville

Koala Pad compatible full-featured drawing program with undo, object draw, copy, texture colors, and more. Three shape library disks available $20/each. Unique in that it is the only drawing program available for C64, Apple][, and Atari 8-bit machines.

CADCOM-64
$ 395.00 First CAD

Printed circuit board design system on cartridge. Boards up to 32x32 inches, control as fine as 1 mil. Dumps 2X production art to dot printers, plotter driver available for $195 extra.

Cadpak-64
$ 39.95 Abacus Software

Computer aided design and drawing package. Use your own lightpen to draw directly on the screen to create and edit pictures, drawings, layouts, etc. Menu driven, rotation and zoom capabilities, hard copy to printer.

Card & Party Shop
$ 29.95 Bantam Books

Combine graphics of Walt Disney characters to create greeting cards, invitations, tickets, signs, memos and more on a dot-matrix printer.

CardWare
$:na Hi-Tech Expressions

CardWare produces animated greeting cards on disk or printed cards. Companions in the series include Party-Ware ($14.95) which gives you everything you need to throw a party, HeartWare ($9.95), which is CardWare for love notes, and WareWithAll ($14.95), a kit of stickers and special printer paper supplies for the programs.

Certificate Library Vol. 1
$ 34.95 Springboard

More than a hundred pre-fab designs for use with Springboard's 'Certificate Maker' program.

Certificate Maker
$ 49.95 Springboard

Allows you to make humorous or serious certificates on your dot-matrix printer.

ColorMe Computer Coloring Kit
$ 29.95 MindScape

Easy to use and designed especially for young children. They can draw freehand or use a drawing program to cut and paste pictures from picture disks(sold separately).

Comic Strip Maker
$ 29.95 Bantam Books

Combine graphics of Walt Disney characters and include your own captions to roll-your-own Disney Comics on a dot-matrix printer.

Compucats Graphics Disks
$ 11.00 Master Software

Series of four disks, each contains 50 additional graphics for the Print Shop. $11/ea.

Create With Garfield
$ 29.95 DLM Educational Software

A printer creativity package that lets you make custom cards, stickers, etc. featuring everyone's favorite cat.

Cyber Video
$ 39.95 Touchstone

Produce your own animated cartoons or music videos with this complete animation package. Graphics editor includes geometric shapes, copy, and color mixing palette (use Koalapad). Music editor lets you edit 3-voices on-staff, use special sound effects. Animator portion includes sprite editor, path animation w/pause and repeat functions. Runtime module lets you use sequences in own programs. Demo included. Dongle.

Davkagraphics
$ 24.95 Davka Corporation

Clip-art collection of Jewish symbols and pictures for use with the Print Shop.

Doodleing Around w/Print Shop
$ 19.95 CTL Software

Transfer pictures between Doodle! and the Print Shop.

Dot 'n Draw
$ 29.95 Illustrated Images

Coloring and dot-to-dot with printout.

Flexi Aided Design
$ 49.95 Briwall

An enhanced version of Perspectives II especially configured for use with the Flexidraw lightpen.

GCAP-64
$ 39.95 Nth Digit Solutions

The initials stand for General Circuit Analysis Program. Maximum size of 25 nodes and 40 branches.

GeoFont / Pattern Editor
$ 19.95 Myth Conceptions

Permits designing your own fonts for use with Berkley's GEOS. The Pattern Editor is on the same disk and lets you alter the 32 GEOS fill patterns to suit your own purposes.

Graph-It!
$ 24.95 Latenite

Menu-driven graph/plot program that features auto-ranging and autoscaling. Three character fonts. Graphic dumps to most popular printers.

Graphic Conversion C64
$ 20.00 Hi-Tech Graphics

Converts Koala pics to Doodle! pics or vice versa with minimal loss of resolution or color definition. Convert either color formats to shaded b/w formats of the Print Shop or convert PS's screen magic displays to either Doodle or Koala. Also works with Flying Colors, CADPAK-64, UltraBASIC-64, B/graph and HES graphic basic.

Graphic Printer Dump
$ 10.00 Hi-Tech Graphics

Graphic printer dump program available separately or with the 'Graphic Conversion C64' for $25.

Graphic Screen Converter
$ 29.95 Briwall

Converts picture files between Doodle!, Print Shop, Supersketch, Koala, and MicroIllustrator.

Graphics Converter
$ 19.95 Cardinal Software

Converts files from Print Shop to Print Master and vice versa.

Graphics Expander
$ 34.95 Springboard

Expander not for the Newsroom as you might expect, but for Print Shop and Print Master. Includes graphics editor, 300 new graphics, and converter routine.

Graphics Integrator 2
$ 29.95 Inkwell

A compatibility 'bridge' between Flexidraw, other popular graphics packages, and word processing software which accept external files (ie file conversion from one graphics package to another, as well as integration of text and pictures). Creates self running 'slide shows' in hi-res and multicolor and more.

Graphics Scrapbook
$:na Epyx

A series of clip-art disks for use with Print Shop and PrintMaster. Includes 'Sports' and 'Off the Wall'.

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Greeting Card Maker
$ 34.95 Activision

Make your own greeting cards with your computer and printer. Offers a library of designs and verses or use your own originals. Also has a built-in address book.

Image 3
$ 59.95 Micro Development

Creates stereoscopic images which appear to have depth Aehind your monitor screen when viewed with special 3-D glasses. Contains a specialized language to convert directional tilt into 3-D vectors. It permits changes in perspective, auto-setup file, and the operator attitude gauges. Also has a screen dump routine that prints images in shades that indicate depth.

Print Shop Companion
$ 34.95 Broderbund

Expands the graphic and editing capabilities of the PS by adding calendars, personlized borders & fonts, etc. (-Staff)

Print Shop Graphics
$ 21.00 Master Software

Two separate disks (price is for each one) of images to use with Broderbund's Print Shop. Done by Compucats.

Rainbow Painter
$ 34.95 Springboard

Drawing package aimed at children 4-10. Includes ten different types of line drawings, a large selection of brushes and color patterns.

Sprite Wiz
$ 19.95 DJ Software

Sprite editor with 9 modes: multi-color, puzzle, page, etc.

Video Display C64
$ 24.95 MicroAds

A video-titling package that allows you to take graphics from Print Shop and/or Screen Magic, recolor them and add them to your display. Features various roll and color effects, along with blinking/flashing, design maker, design display, and many others.

Video Title Shop
$ 29.95 Datasoft

Title screen creator for use with your VCR.

Virtuoso Software System
$ 49.95 Virtusonics

Music video construction set.

242 MIDI Interface
$ 99.00 Sequential Circuits

MIDI in, MIDI out, 5V clock in/out, footswitch ports. Uses cart port. Sequencing software available.

Incredible Musical Keyboard
$ 29.95 Sight & Sound

A nifty little keyboard assembly that sits snugly on your C64 keyboard (and looks like it's part of it). The piano layout gives 2 octaves of keys that make musical sense. You don't get feel of a real keyboard but this is a good compromise for the $. It is compatible with Sight & Sound's entire line of music software. (-B.D.)

MCI MIDI Interface
$ 149.00 Siel

MIDI in, 3 MIDI out, MIDI thru, 5V clock in/out ports. Cart port. Instrument-independent librarian available.

Melodian Keyboard
$ 99.95 Melodian

With ConcertMaster is a strong suit (3 modules at $39.95) from Melodian. We hear the new Melodian keyboard is a vast improvement on the old 'dime-store' model. (-B.D.)

MetaMIDI Interface
$ 95.00 Mimetics Inc.

MIDI in, MIDI out, 5V drum sync out ports. Uses cart port. Yamaha control programs available.

MH01C MIDI Interface
$ 129.95 Korg USA

MIDI in, MIDI out, Korg sync out ports. Plugs into game port. Voicing/editing/sequencing software available.

MH02C MIDI Interface
$ 169.95 Passport Designs

MIDI in, MIDI out, 5V drum sync out, tape sync in/out ports. Music Shop($100), MIDI 8+ software available.

MIDI II Interface
$ 99.00 Beam Team

One MIDI in, two MIDI out ports, plugs into cartridge port. They also have a complete line of MIDI editing, sequencing, composing, and machine-specific control software for the C64.

MIDI Interface
$ 75.00 Sonus

One 'in' and two 'out' ports. Also available is a version for tape sync for $175.00.

MIDI Processor
$ 149.95 Sonus

Lets user load files from Sonus' sequencing software and edit from there. Includes micro- and macro-editing functions such as assigning channel tracks, transposing tracks, velocity, automatic correction, un-bouncing, and many others. Also includes and Event Editor.

MIF C64 MIDI Interface
$ 310.00 Roland

Price quoted includes MPU-401 MIDI interface & MIF C64 adapter. MIDI in, MIDI out, tape sync in/out, metronome audio out. MUSE software sequencer available.

Music Mate Keyboard
$ 99.00 Sequential Circuits

This 2 & 1/2 octave polyphonic keyboard could be the price/performance breakthrough we've been waiting for. Includes software for creating custom sounds and recording/playback of up to 10 minutes of continuous music. Plugs into the joystick port leaving others free. (-B.D.)

Pitchrider 64
$ 249.95 DOD Electronics

Directly converts a note from an instrument to MIDI either through the interface's internal microphone or through the MIDI port. This sophisticated MIDI interface gives note recognition, tuning, and metronome functions. Plugs into the cartridge port.

Sampler-64
$ 89.95 Micro Arts Products

Digital sound sampler for the 64 that comes with a microphone and a little unit that plugs into the user port. Also available for an additional 14.95 is Comdrum, which comes with pre-recorded drum tracks.

Six-Trak Synthesizer
$ 1100.00 Sequential Circuits

Midi-compatible, this keyboard is clearly aimed at the pro market. When used with a C64 and the Model 64 Sequencer it can be used to input 8 sequences. (-B.D.)

Song Producer Interface
$ 395.00 Moog Music

MIDI interface features MIDI in, four MIDI out, two footswitches, clock in, clock out, clock disable in/out eight trigger out ports. Plugs into cart port. Bundled with full MIDI control software system.

TARDUS-125
$ 98.95 Digital Engineering & Design

8-bit sampler with a variable sampling rate of 1kHz to 30 kHz and will let you pull in up to 41 seconds of digitized sound. Interesting live effects like reverb, chorus, slapback, echo, pitch conversion, sound dubbing, sequencing & editing, and a phlanger. Even voice recognition software is included.

Virtuoso! Musical Keyboard
$ 69.95 Synthware

A professional style 4-octave keyboard with software.

Allegro
$ 39.95 Parabola *****

Expert or novice, if you want to get serious about music & sound then you'll love it. Used by many commercial software houses to add music to their programs. New version turns keyboard into real-time synthesizer. Makes complex sounds you can't even get with most other music products for the C64. Excellent documentation includes clear discussions of music & digital sound. (-B.D.)

Kawasaki Rhythm Rocker
$ 39.95 Sight & Sound ****

This will take you for a fast ride thru sights & sounds. Has alot of 'anyone can use it' appeal, along with some pretty 'nuts & bolts' user control features. Preprogrammed base tracks and lots of wild graphics controls. Probably the most fun of the lot. Works with Sight & Sounds keyboard overlay/attachment. (-B.D

Master Composer
$ 39.95 Access Software ****+

This is a real solid music-processor with 4 visible staffs, color voice, designations, real time graphic display of notes as they play. Great sample tunes demonstrate the rich musical potential of Master Composer. Change sounds during play, link files for extended compositions and interrupt-driven with facilities for patching music to existing or new programs. (-B.D.)

Music Writer-64
$ 69.95 M'Soft ****

Especially nice animated staff & scrolling notes (that looklike real notes) highlights this entry. Easy to find your way around the various menus, dumps sheet music to printer, full voice control, well documented. 12k of note storage, and help screens. (-B.D.)

Music Construction Set
$ 39.95 Electronic Arts ***+

Less than the equivalent of Pinball Construction Set. Impressive programming behind it, fun to watch, play and listen to. It just falls short of what it could have been (only 2 voices and 13 pre-determined sounds). These and other problems stem from apple conversionitis. (-B.D.)

Synthy 64
$ 17.95 Abacus Software ***+

Fundamentaly an extension to BASIC adding over a dozen new commands which can be used in BASIC program statements to construct and play music at run-time. Alter ADSR and other controls like glide. Not really state-of-the-art but beats poking into memory. (-B.D.)

Guitar Master
$:na Mastersoft ***

Part entry level instruction, part advanced theory and programmed in BASIC, Guitar Master is more reference material than a teacher. Lessons are sketchy and theory oriented. Fattened with redundancy. (-B.D.)

64 Sounds
$ 22.95 JAL Software

15 programs in BASIC that cover digital sound synthesis using the SID chip. Includes single/multi voice and filtered sound effects, utilities, and examples.

Advanced Music System
$ 29.95 Firebird

All the features of The Music System, plus prints out scores, has advanced voice control, advanced editing and linking of files, plus full MIDI interface support.

AutoPilot
$ 49.95 Ultimate Media

A unique program which allows you to pregenerate random sound patches on the popular Yamaha DX-7 synthesizer, using a MIDI-equipped C64. (-M.B.)

Bank Street Music Writer
$ 39.95 MindScape

For users of any level of music knowledge. Two musical staffs on screen and the ability to shape tones and includes repeats, endings, and triplets.

Cantus, The Music Improviser
$ 39.95 Algo-Rhythm Software

Allows beginners as well as music connoisseurs to use a sophisticated musical device. Full screen editor allows control of tempo, rhythm, harmony, counterpoint, etc. Over 50 ready to run modifiable sample files provided, including 'hoedown-1' and 47 page manual.

Chord Power
$ 39.95 NewArts

Enter one of 8,000 guitar cords and it will be played and displayed on the screen. Displays 12 frets of the guitar.

Dr. T's Music Software
$:na Dr. T's Music Software

Extensive library of MIDI control software, from sequencers to rhythm controllers to a patch librarian/editor to full composition packages. If you're a MIDI musician, we hear this is good stuff. (-M.B.)

Easy Guitar
$ 29.95 DJ Software

Menu driven guitar lesson program with many features. Internal instructions and documentation.

Euphony
$ 39.95

≤Music program allowing long pieces to be entered. Employs all three voices with notes being entered as text files, allowing pieces of greater length. Supports repeat sequences, tempo changing, key signature, odd-duration notes. Sample music is included on the program disk and two additional music disks.

Fastfingers
$ 24.95 See-Thru Enterprises

Full-blown SID chip synthesizer software package that features 256 presets and allows you to define your own as well. Menu-driven with a 4 octave keyboard optional. Gives 10 minutes of real-time recording at 60 notes per minute with slow/fast playback. Includes 13 effects like glide, vibrato, and wah wah. You can also play one voice while the computer plays another.

Guitar Pak
$ 29.95 JAL Software

Menu based integrated musicians utilities including 2 guitar/instrument tuners, metronome, drum machine, external audio processing tremolo filter and on-disk manual. Audio cassette demo also available for $5.

Guitar Wizard
$ 29.95 Baudville

Teaches chords, fingering, scales, tuning, etc.

Kawasaki Synthesizer
$ 24.95 Sight & Sound ****

Two-disk set features beginner's package w/full control over waveforms, effects, etc., plus prerecorded music, second disk has advanced 3-track recording system and expert features. Works with S&S's keyboard overlay. (-B.D.)

Keyboard Technique Series
$:na Electronic Courseware Systems

A series of keyboard instruction programs covering topics from elementary fingering to jazz improvisation.

L&L Yamaha Controller
$:na L&L Music

Yamaha DX7 voicing/librarian.

Make Music
$ 9.95 Mastertronic

An elementary music editor for the 64.

Mastery In Music
$:na MasterSoft

MasterSoft offers several music education programs in this series for institutional or individual instruction in Flute, Saxophone, and other instruments.

Melodian Software
$ 59.95 Melodian

Three separate programs (price is for each) for use with the Melodian Keyboard. Titles are 'ConcertMaster', 'RhythmMaster', and 'ScoreMaster'. (-B.D.)

Micro-Lydian Music Series
$:na GCS Software

Includes Clefs ($49.95), Intervals ($49.95), and Teacher's Aid ($59.95). All three are professional level teaching tools.

Midimouse Patches & Software
$ 35.95 Midimouse Music

Four volumes of sounds for use with CZ synthesizers. Volumes are also available individually. Supported synthesizers include Emulator II; Prophet 2000, 2002; Mirage; Akai S900; Korg; Roland; Casio CZ-101, CZ-1, 1000, 3000, 5000; ESQ-1; and others.

Sonus MIDI Products
$:na Sonus

Sonus manufactures a wide variety of both hardware and software for just about any music project you have in mind. Check the MIDI programs listed in the 64 section, since they will all work on the 128 and some of them have specific 128 versions. Sonus also markets sound disks and librarians for several different synthesizers.

MIDI-Patch
$ 79.00 Hybrid Arts

Yamaha DX or Casio CZ series librarian.

Music Made Easy
$ 29.95 Alfred Music Software

Teaches the basics of music in a colorful, step-by-step course. Includes book and disk.

Music of the Masters
$ 9.95 Free Spirit Software

Four disks (so far) of classical music to play on your 64. Available two for $17.95 or all four for $31.95. Vol. 1 is music from Handel, Haydn, Bach, Beethoven, et al. Vol. 2 is minuets, sonatinas & waltzes from the masters. Vol. 3 is mainly Mozart. Vol. 4 is the 'Best of Bach'.

Music Processor
$ 24.95 Sight & Sound

99 preset voices, 8 octave play, compose your own tunes or play the prerecorded ones. Dumps compositons to dot-matrix printer.

Music Shop
$ 44.95 Broderbund

Lets users work, edit, play and print original compositions all in one program. Has full musical capabilities, automatic page-turn (no scrolling here), gives user full control of the SID chip, and more.

Music Writer 64
$ 29.95 Double E Electronics

Three complete voices, easy note entry, realtime control of wave, 4.5 ocative range, printing capabilities and more.

MusicData MIDI Programs
$:na MusicData

A full series of MIDI control programs includes sequencer, instrument-independent librarian, transcriber, delay, etc., programs.

PCM Librarian
$:na Delta Music

MIDI librarian software.

Piano & Violin Tutor
$ 19.95 Melcher Software

Two separate programs for $19.95 each or $34.95 for both. They enhance note reading ability and sound identification. Colorful graphics, simulating sound and documentation included.

Q.R.S.
$ 49.95 Micro-W

Disk series offers over 10,000 digitized songs available, originally cut on a player piano. Includes MIDI interface.

SampleScope
$ 149.95 Ultimate Media

Probably one of the most specialized pieces of software we've ever seen marketed, SampleScope lets you use a C64 with MIDI interface to fine-tune the editing of digital sound samples on the Akai model S-612 sampler. If you own all of that, I guess you need this program. (-M.B.)

ScoreTrack
$ 40.00 Sonus

MIDI event editor and scoring program. Dongle protected.

Songwriter
$ 39.95 Scarborough Systems

Turns your computer into a 'word processor for music'.

The Music Studio
$ 34.95 Activision

Music composition and editing. Nice graphic music-editing screen, color-coded playback of three voices, and single-channel MIDI-out play capability.

The Music System
$ 39.95 Firebird

SID composition system gives you control over voices, lets you edit music in three voices on staff. Advanced version available with MIDI capabilities.

Virtuoso! 1.1
$ 24.95 Synthware

A complete music package for the 64 that allows you to create sounds, compose, and play compositions. Menu-driven, resides entirely in RAM. Holds 24 presets in memory. Write compositions up to 900 notes for each of 3 voices. Special multi-computer feature allows two or more 64's to be connected and play multi-part music in synchronization.

Virtuoso! BASIC interface
$ 15.95 Synthware

Adds six new commands to BASIC. Allows playing back of Virtuoso! compositions in the background of a BASIC program.

1670 Modem
*$ 199.00 Commodore *****

300/1200baud, auto-dial and answer, plugs into C64, SX-64, C128. The first Commodore modem to be Hayes-command compatible, it won't auto-dial or -answer with earlier communications software. Theoretically, it will work with the Amiga but no adapter is yet available.

1650 Auto-Modem
*$ 89.95 Commodore ***+*

A 300 baud, auto-answer, auto-dial modem. (-B.D.)

1660 Modem/300
*$ 129.95 Commodore ****

300 baud, auto answer/dial modem with software that includes a save buffer, up/down loading, function keys, save parameters, 10 different phone number entries, etc. Works with C64, SX-64, as well as the 16 and Plus/4. Includes all the necessary cables and a special offer from QuantumLink. (-Staff)

1200CM
$:na Supra

1200 baud auto-answer/dial modem.

300CM
$ 59.95 Supra

300 baud auto-answer/dial modem.

AutoPrint
$ 69.95 The Microperipheral Corp.

Auto dial/answer 300 baud direct connect modem with internal parallel printer interface. Full duplex in originate or answer, half duplex software selectable. Compatible with most terminal software (Vidtex, VIP, SuperTerm, Smart64) and connects thru the user port. Handshaking feature allows transmission to be supended until printer is capable of accepting more data.

Volks 6420 Modem
$ 99.00 Anchor Automation

300 baud modem. Also available is the 6480, a 300/1200 baud for $199.

Bobsterm Pro 64
*$ 60.00 Progressive Peripherals ******

This one does it all. Multi-protocol upload/download, user-customizable setups, convenient buffer, and even selectable character fonts! (-Staff)

VIP Terminal
$ 59.95 Softlaw ****+

Includes CBM-Punter & non-CBM protocols, 40, 64, 80, or 106-columns (software), text editor, autodial & redial, 15-entry phone directory, good documentation. (-Staff)

Smart 64 Terminal +3
$ 49.95 Prism ****

User-defined parameters (baud, parity, etc.) compiled basic, one-key log-on, up & down loading, 28k save buffer, and specially designed to optimize access to Compuserve and Commodore's Compuserve database. Now supports the 1650 automodem. (-B.D.)

BBS Construction Set
$ 49.95 Kira

A customizable BBS system which supports up to 300 users, 25 subboards, EMail, upload/download. Fully operational from REMOTE. Operates at 300/1200 baud. Features include an editor, AM/PM clock, calendar, chatmode, online terminal mode, daily status reports, and a self-maintaining logfile. Supports most drives and modems.

Busiterm
$ 29.95 Skyles Electric Works

Auto-start cartridge terminal program, menu driven, 28,000 character buffer.

Color Mail
$ 40.00 CompuServe

This program from Hallmark Cards lets you design electronic 'cards' that you can send via CompuServe. Order this program online; comes with Vidtex on disk.

FirstTerm
$:na Public Domain

Access both non-CBM and CBM-Punter protocols, all CompuServe files including '.IMG' and does conversions. Full screen editing and 33k buffer. 40-column display and separate documentation file (you can print-out yourself). It's not fancy but it's free from most users groups. (-Staff)

Hal's BBS
$:na Richard Buchanan

A freeware bulletin board system that supports Punter protocols, bulletins, mail & messages, up/down loading, and includes a terminal program for HES & CBM modems. (-Staff)

HomeTerm (from HomePak)
$ 49.95 Batteries Included

HomePak is three programs on one disk (terminal, word processing & database). Original HomeTerm was very weak, but we hear it's been updated with more features. (-Staff)

IntelTerm
$:na Rich Hill

Intelligent terminal program. 80 software columns, 1200 baud, other features.

Sixth Sense 64
$:na Prism

Supports most popular modems. Features include auto-modem commands, an alarm (to help out your budget), forward/backward scroll, standard control codes, file conversion utilities, an extract/review option, disk commands. Up/download text or program files using XModem, ASCII/PetASCII, and Compuserve B.

Telemessage BBS
$ 79.50 Tailored Solutions

Professional BBS including 5 support programs and manual. Designed for 'crash-proof' operation. Completely automatic including clock and updated calendar. Program can be modified by user and is not copy protected.

Vision BBS
$ 59.95 Vision Software

Self-maintaining message bases, program modules in BASIC, punter, xmodem and ASCII file transfer. Pull-down menu for user editing while online. Also available are two module disks ($29.95 each) for customizing the BBS.

COMPUTER TRIVIA

Q: What's the difference between an Etch-a-Sketch and a Macintosh?
A: You don't have to turn the Mac upside down and shake it to erase the screen.

64 PERSONAL ENRICHMENT

Alter Ego
$ 49.95 Activision *****

I really like this unusual and innovative 'game' which, tho not billed as such, is some of the most broadly therapeutic and consciousness-raising software available. It's also very entertaining. Describe yourself to the computer, then dive into your hypothetical life at any age level from infant to codger and play out your fantasies, or try on new personalities. Has male and female versions. (-B.D.)

Aerobics
$ 44.95 Spinnaker ****

Leads you through warm-ups, stretches, aerobics and cool-down. Beginner, intermediate & advanced levels, a well illustrated manual and most of all an impressive upbeat musical score to motivate you. Lengthy disk access problem can be overcome by extending the current routine until another has loaded. (-Staff)

Mind Mirror
$ 32.95 Electronic Arts ****

Timothy Leary developed this program for EA as a self-enrichment tool, a 'mirror of the mind'. Has much greater depth than most 'psychosoftware'. Fun to play with, and may even give you some insights. (-M.B.)

The WORD Processor
$ 199.95 Bible Research Systems ****

Not just a word-processor, but 'the word' of God processor. This package consists of a sophisticated search & display program and the entire King James text on 8 disks. Producing an index by keyword is the real power of this package. Written in BASIC and is amazingly quick in completing searches. Recommended for the serious Bible student. (-M.B.)

Clinical Interviews
$ 32.50 Clinical Interviews ***+

Presents you with an interesting twist on the old Eliza theme; this time you are the analyst. Intended for training social workers, etc., but fun just to play. (-M.B.)

Mind Prober
$ 9.95 Human Edge Software ***

Lets you pick personality and behavioral traits you think match the subject under scrutiny. It then produces an analysis of the individual's surmised views and philosophies, along with a guess of projected behavior. Kind of like the pop psychology multiple-choice tests in the Reader's Digest. (-M.B.)

The Surf
$ 19.95 JAL Software *

Hard to categorize this type of software. Creates a crude seaside picture with an animated ripple of surf. If that's not enough for you, an annoying white noise hisses in the background (s'posed to sound like waves rolling in). You can achieve a better effect (for free) by taping an old postcard to your tv set and turning up the volume on an unused channel. I hope you have better uses for your C64 !! (-B.D.)

Decide
$ 19.95 CTL Software

Break down important decisions into component parts, rate each factor, and come up with a solution to your question.

Dinner's On!
$ 10.00 Briley Software

Menu planner for organizing meals up to 15 days in advance. Produces a sorted shopping list. Uses DATA statements. On tape.

Evelyn Wood Dynamic Reader
$ 49.95 Timeworks

Use your computer to improve your reading comprehension retention, and speed.

Grocery Mart
$ 10.00 Briley Software

Maps out one grocery store by aisle and speed. Calculates tax, cost and coupons in advance. Uses DATA statements. On tape.

Handwriting Analyzer
$ 19.95 CTL

Gives a full page analysis of your own or someone else's handwriting.

Micro Astrologer
$ 19.95 Commodore

Shows you how your birthdate affects your personality, career, love life and more.

Micro Cookbook
$ 34.95 Commodore

Two disk program with over 150 recipes. Printout recipes or a grocery shopping list for selected recipes. Each recipe can be adjusted for the number of servings.

Model Diet
$ 29.95 SoftSync

Modifying the government RDA's to reflect your personal lifestyle, Model Diet instantly calculates your vitamin intake, analyzes your unique nutritional requirements and programs a safe diet schedule. Extensive food library which breaks down nutritional values and compare your intake with the RDA. Weekly summary tracks your nutritional intake.

Original Computer Diet
$ 49.95 Scarborough Systems

The original Boston computer diet computer counselor, for easy-to-use day-by-day personal fitness and weight loss counselor. Analyzes your nutritional requirements, monitors your eating habits and suggests meal plans. Designed for persons who have weight-loss problems of 10 to 40 pounds.

People
$ 49.95 Bible Research Systems

Topical cross reference to over 140 personalities in the Bible. Must have 'The WORD Processor' from Bible Research Systems to use this.

Recipes Supreme
$ 34.95 Melcher Software

Comes with 40 recipes on the disk and allows you to store your own.

The Luscher Profile
$ 29.95 MindScape

Personality analysis program based on color preferences

Topics
$ 49.95 Bible Research Systems

Topical cross reference to over 200 subjects in the Bible. Must have 'The WORD Processor' from Bible Research Systems to use this.

Address Bowl
$ 45.00 Briley

Mailing label generator for bowling associations and leagues. Up to 250 bowlers per league file. Sorts, lists, and labels file data into 8 groups.

Autostart
$ 32.00 Briwall

Track & Field record keeping system. Keeps track of 35 events for up to 250 people and 60 meets per disk. It has various report, listing, and sort functions.

Baseball DataBase
$ 39.95 Jacobsen Software Designs

Database for baseball statistics, from little league to college. Tracks 23 individual player and 22 pitcher stats for each game. 11 printed reports available.

Baseball Handicapping
$ 49.95 PDS Sports

Includes 'Baseball Statistics' and makes you better prepared to predict the winner of any game, at least mathematically.

Baseball Statistics
$ 39.95 PDS Sports

See how opposing baseball teams stack up against each other. Produces summaries and performance stats on every team in the major league.

Baseball Stats
$ 35.00 Midwest Software

Provides statistical analysis for both baseball and softball. Up to 90 games per disk.

Basketball Handicapping
$ 49.95 PDS Sports

Includes Basketball Statistics and gives you an inside look into the outcome of games by mathematically equating statistics, lines and point spreads.

Basketball Statistics
$ 39.95 PDS Sports

Pro basketball statistics comparison program lets you stack up the strengths and weaknesses of Pro teams.

Basketball Stats
$ 35.00 Midwest Software

Provides statistical analysis for a roster of 18 players for a 30 game season.

Bowler
$ 39.95 Raymond Reynolds

File tracking and maintenance system for a league secretary. Up to 100 bowlers and 22 teams.

Football Handicapping
$ 49.95 PDS Sports

Includes 'Football Statistics' package and forecasts the outcome of football games based on massive amounts of statistical data, morning lines, and point spreads.

Football Predictor
$ 99.95 Professor Jones

Complete football analysis to predict the outcomes by evaluating the teams statistics.

Football Scout
$ 49.50 Midwest Software

A scouting analysis system which handles up to 250 players on each team scouted. Produces a play list showing down, distance, situation, etc., a tendency list and zone-hash-down-distance reports.

Football Team Statistics
$ 39.95 PDS Sports

Compare teams in over 60 offensive and defensive situations and watch the matchups on the screen. Every team is given a power rating. PDS also provides year-to-date data disks for a nominal charge.

Gymnastics
$ 35.00 Midwest Software

A record keeping and statistical program for gymnastics meets at the high school, college, or club level. Up to 24 contestants per team and 32 teams.

Handicapper
$:na Federal Hill Software

Uses information from the Daily Racing Form (or other source) to rank the entries for horse and greyhound races. 'Thoroughbred Factors', 'Harness Factors', and 'Greyhound Factors' are available for $39.95 each, two for $59.95, or all three for $79.95.

Harness Driver Statistics
$ 39.95 PDS Sports

A complement to the 'Harness Race Handicapping' system that tells you all you need to know about the driver.

Harness Race Handicapping
$ 129.95 PDS Sports

Fast and easy way to find out what races and horses should be looked at. Summarized in a 'power-rating'.

Horse ID/Info
$ 15.00 Himanme Programs

Allows you to keep any general records you want on your horses. You decide what categories of information to use.

Horseracing Handicapping
$ 29.95 The Sortech Group

Set of three horseracing programs: Thoroughbred Racing Forecasts, Harness Racing Forecasts, and Wager Return.

Jockey Statistics
$ 39.95 PDS Sports

Analyzes all local race horse jockeys and shows you why the top 15 jockeys at local tracks win over 90% of the time.

LeagueBowl-40
$ 210.00 Briley Software

A professional package for secretaries of bowling leagues. Handles up to 42 teams plus subs (about 420 bowlers) per league. Full calculating features and many options. There is also an 'Entry-Level' version available and many utility programs also available for each.

Limited Gold Edition
$ 299.95 Professor Jones

Complete racing (thoroughbred, greyhounds, or harness at $299.95 each) analysis that uses the racing form to predict the finish of each race.

Quarter Horse Handicapping
$ 129.95 PDS Sports

Assists you in determining which races are payable and which races are not, by playing only those races in which the system indicates a horse having a distinct advantage.

Show Records
$ 25.00 Himanme Programs

Designed for a more elaborate reordering of show results. Displays name, date, class, placing, number of entries in class, points, judge's name, person showing.

Thoroughbred Handicapping
$ 129.95 PDS Sports

Gives you an edge in predicting winners on the horseracing track.

Tournament Bowl
$ 60.00 Briley

Stand-alone bowling tournament scoring for 250 teams.

Track Simulator
$ 29.95 Professor Jones

Professional thoroughbred race track simulation program designed to test your handicapper skills.

Trainer Statistics
$ 39.95 PDS Sports

Analyzes all local race horse trainers and gives you a rating for each.

Volleyball Stats
$ 35.00 Midwest Software

Handles all basic volleyball statistics such as games played, serves made and attempted, service aces, bumps, spikes, digs, etc.

64 PROGRAMMING TOOLS

Game Maker
$ 39.95 Activision ****+

This system lets you create your own game screens, sprites, music, sound effects, and game rules, then combine them all via the built-in games language to create quality action games or videos. Also available are companion disks with characters, etc., predefined. If you know a little BASIC and are comfortable with it, the transition to Game Maker will be painless and rewarding. A very nice system. (-M.B.)

MAE (Macro Assembler Editor)
$ 39.95 Eastern House ****+

Complete 6502 development system. Features macro assembler, enhanced m/l monitor, and wordprocessor-style editor. One of the best assemblers for Commodore, versions are also available for Apple and Atari machines. (-M.B.)

PAL 64
$:na Spinnaker ****

Supports free-format entry of code with comments using BASIC editor. Conditional assembly, and many assembly options. Relocatable and takes up only 4K of memory. Outshines all other assemblers for combining BASIC with machine language routines. A favorite with old PET programmers. Now available only with POWER 64 as Programmer's Toolbox for $19.95. Formerly from Pro-Line. (-M.B.)

Power 64
$:na Spinnaker ****

A BASIC programmer's dream utility package in 4k to 8k of memory, depending on how much power you want. Adds dozens of commands like: merge, search and replace, renumber, etc. Our only complaint is that the renumber utility doesn't properly tag invalid GOTOs and GOSUBs (it renumbers valid ones fine, though). Now available only with PAL 64 as Programmer's Toolbox for $19.95. Formerly from Pro-Line. (-M.B.)

Petspeed 64
$ 29.95 Metacomco ***+

This venerable BASIC compiler has been around since the early days of the PET. Four-pass compiler is for the patient user. Lots of PD information is available on Petspeed. Time-honored, slow, but reliable. (-M.B.)

Radar Basic
$:na RadarSoft ***+

Expands your Basic workspace to 51199 bytes, includes a version of DOS wedge, fast load/save tape commands. Completely compatible with BASIC 2.0 programs. (-M.B.)

S'More
$ 49.95 Supra ***

A Basic workspace expander, with an extension to Basic itself, unfortunately it won't work with many of your present Basic programs. Expands your Basic workspace to 61183 bytes (an almost 22k increase) but you lose Basic 2.0 graphic and sound compatibility in doing so. Has 65 new and enhanced commands. Very good manual. Formerly from Cardco. (-M.B.)

Assembler Monitor-64
$ 39.95 Abacus Software

Macro assembler supports conditional assembly, has disassembling M/L monitor. Uses BASIC screen editor.

BASIC Compiler 64
$ 39.95 Abacus Software

BASIC compiler to machine code, p-code or both. 80-page programmer's manual included. Will also compile Simon's BASIC and other BASIC extensions, using a skip-and-execute-at-runtime method.

Blitz 64
$ 49.95 Skyles Electric Works

Well-respected, easy-to-use, full-featured BASIC compiler. License-free distribution of compiled programs.

Freedom Assembler
$:na Hughes Associates

Cartridge-based assembler/monitor. Supports 6502, 6510, 65C02, 6500/11, /12, /13 microprocessors.

Game Maker Libraries
$:na Activision

Each contains selected scenes, sprites, sounds and music for sports, science fiction, or other scenarios. For use with GameMaker.

Game Maker Library Sampler
$:na Activision

Contains selected scenes, sprites, sounds and music. Requires the Game Maker.

Games Creator
$ 19.99 Mastertronic

This system lets you create shoot-em-up type arcade games with your own screens, characters, and rules, without 'programming'.

Gnome Kit 64
$ 39.95 Kira

Utility package that provides added commands for DOS, BASIC, and ML programming. Commands include such things as Merge, Scroll (backwards and forward), Find with Replace, Renumber, Delete, Dump and Trace. An ML monitor and a disk editor are included. Both 64 and 128 versions are on the same disk.

Interactive Simulation Lang.
$ 100.00 Interactive Mini Systems

Solve differential equations with ease, allows you the power to model, conduct graphical experiments, evaluate strategies, and more at assembly speed. Applications for sociological models, electronic circuits, biological, chemical nuclear processes, fluid dynamics and more. Contains editor, compiler, reverse assembler, graphics and run time executive. 48 page tutorial.

Merlin 64
$ 49.95 Roger Wagner

Macro assembler, editor, monitor. Enhanced screen editing, excellent manual.

Midnight Assembly System
$ 29.95 Mountain Wizardry

Two-pass assembler with color full-screen editor. Handles multiple instructions per line without delimiters. Can access RAM under ROM and blanks the screen for fast assembly. Disk support, pseudo-ops. User expandable.

Programmers' BASIC Toolkit
$ 49.95 Epyx

Adds graphics, sound, and utility commands to BASIC. Includes sprite & font editor, BASIC extensions include drawing commands (circle, box, fill, etc), applications utilities and program editor (find, renumber and undo). Formerly HES Graphics BASIC.

PTD-6510 Symbolic Debugger
$ 49.95 Schnedler Systems

Advanced debugger: step, breakpoints, windowing. Super complex conditional breaks, patch, show prior 128 steps, compiled BASIC-like machine language. Comes with a 100-page manual.

Super BASIC 64
$:na Rich Hill

BASIC extension package on disk, adds BASIC 4.0 and additional graphics, etc., commands.

Symbol Master
$ 49.95 Schnedler Systems

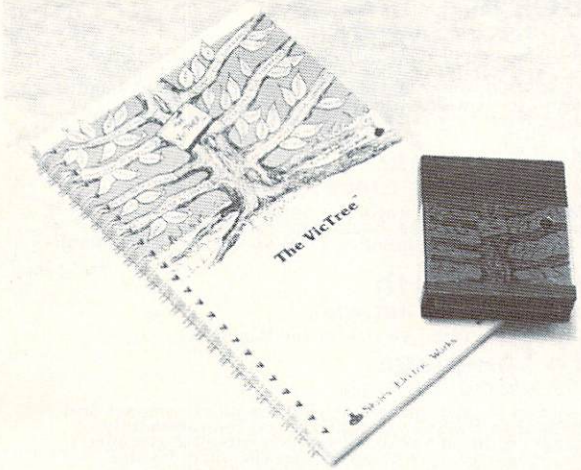
Symbolic disassembler for converting 6502, 6510, 8502, etc. machine lang. programs into highly readable source code. The use of labels, coded as to usage, on each line referenced by another instruction allows one to see the overall structure and flow of a program. Outputs source code files compatible with each of 6 different assemblers for editing and re-assembly.

The Boss
$ 35.00 SoftTools

A BASIC extension specifically for writing communications programs.

TSDS
$ 49.95 Briwall

Total Software Development System. Includes BASIC extensions, macro assembler, sound effects editor, matte editor, and sprite editor. All are integrated to work together. Includes PAL/MAE-to-TSDS translator. Developed by pro programmer Kevin Pickell.



Victree
$ 49.95 Skyles Electric Works

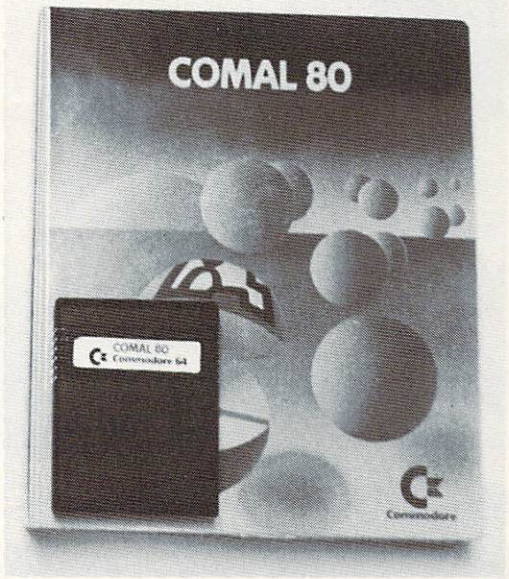
Adds 22 BASIC 4.0/7.0 commands to the C64, adds 15 BASIC programming and de-bugging commands. Includes 5 commands for simple word processing, and a plain vanilla parallel printer driver.

XREF-64
$ 17.95 Abacus Software

A BASIC programmer's tool that indexes the usage of all variables, line numbers, numeric constants and BASIC keywords. It tells you which line uses a given variable name or which line numbers use a given BASIC command. Cross reference can be listed to screen or printer.

COMPUTER TRIVIA

Alan Turing, the father of the *Colossus* computer that broke the German codes in World War II, was arrested in the early Fifties because he was a homosexual, and committed suicide as a result.



COMAL 80
$ 74.95 Comal Users Group *****

COMAL 80 spoils you, this cartridge version leaves you with over 30K to use and overcomes the shortcomings of COMAL 0.14, which is very good itself. Commands like viewport, window and stamp ease graphic programming. The sound capabilities surpass some dedicated music programs. For $98.95 you also get 2 books and demo disk (formerly called Comal 2.01) (-M.B.)

LOGO
$ 49.95 Commodore *****

A no-contest best buy and one of the finest pieces of software to ever bear the Commodore label. LOGO is an ideal beginner's language due to instant graphic feedback. The C= version has all the bells and whistles, and will run most textbook LOGO examples. (-B.D.)

C64-Forth/79
$ 69.95 Performance Micro Products ****+

A Forth/79 development system including 2D graphics, string-handling, and floating point extensions. Also includes standard Forth assembler, and excellent 167 page manual. A fine professinal programers development language with royalty-free distribution rights. (-M.B.)

COMAL Super Chip
$ 29.95 Comal Users Group ****+

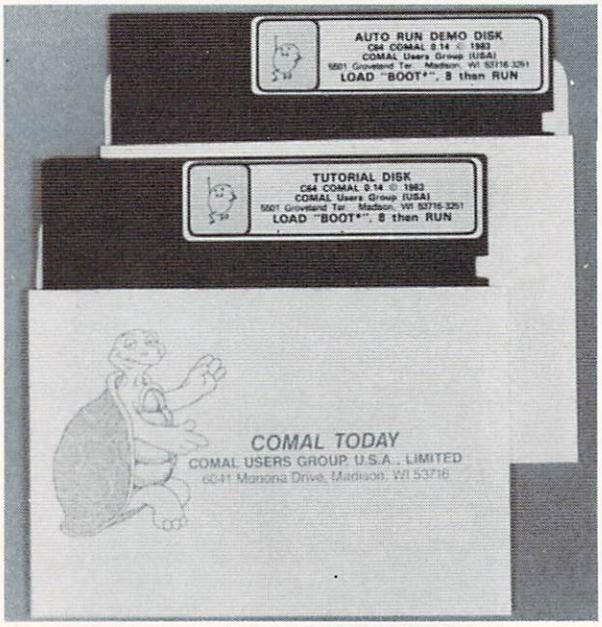
Adds over 100 new commands to the COMAL 2.0 cartridge (which is obviously required). Over two dozen of the commands are specifically for the 128, including access to the 80-column screen, double res graphics, keypad, and the FAST mode.

SuperForth 64 + A.I.
$ 99.00 Parsec Research ****+

Forth system with many features for graphics, sound, and control systems. Includes artificial intelligence modules for AI applications experimentation. Two disks, 496 page manual. Distribute applications programs license-free. Includes such esoterics as a music editor and turtle graphics. If you want a Forth system with everything set up for you and ready to go, this is it. (-M.B.)

COMPUTER TRIVIA

Grace Hopper, the first professional programmer, designed the *A-0 Compiler*, the first language compiler, on the UNIVAC I in 1951.



COMAL 0.14 Starter Kit w/book

$ 29.95 Comal Users Group ****

COMAL is a personal language based on BASIC, but with graphics and structured programming commands that make it far superior. Most programs run three times faster than BASIC. Even though this disk-loaded version leaves you only 10K of program space, it is so efficient that it seems like more. Also available on disk for free from many users' groups. (-M.B.)

KMMM Pascal

$ 85.00 CGRS Microtech ****

True compiler that generates machine code from Pascal source. Editor compiler, translator included. The translation program is excellent, providing a run-time package that is compact and fast. Recently revised with truer UCSD compatibility, better editor. Good support. (-M.B.)

Kyan Pascal 64

$ 69.95 Kyan Software ****

Available in standard and professional versions. Kyan is hailed by many as the standard Pascal for 8-bit Commodore machines. Actually pretty pleasant to use, as Pascals go. String handling, dispose, assign, chain, enhanced graphics and much more.

Power C

$ 39.95 Spinnaker ****

A true C language development package for the C64. Editor, compiler, linker, uses 1 or 2 drives, compiles textbook C code flawlessly. Documentation is thin, and support libraries could be much more extensive, but if you want C for the C64, Power C is your best choice. (Formerly C Power from Pro-Line.) Includes C128 version (-M.B.)

Ultrabasic-64

$ 27.95 Abacus Software ****

Adds 50 commands to BASIC including graphics, music, and turtle commands. Built-in screen-dump routines for most printers. Includes manual with 2-part tutorial and demo. (Tape version - $24.95) (-B.D.)

M&M Forth

$ 27.95 M&M Software ***+

Disk based Forth language system. Includes screen editor, 6502 assembler, 80 page manual. Includes links to Kernal ROM, graphics & sound primitives, Directory buffer. A nice implementation of 79 standard Forth from a good company.

Oxford Pascal

$ 34.95 Metacomco ***+

2 to 5 times faster than BASIC, supports graphics and sound, ability to chain programs for complex tasks. No string data types. Uses enhanced BASIC editor. Includes less powerful but unique Pascal interpreter for quick debugging, which makes this an excellent teaching system. (-M.B.)

Simons BASIC

$ 29.95 Commodore ***+

Adds many graphics, disk, sound, and programming commands to BASIC, but does so somewhat erratically. For example, the RENUMBER command does not renumber GOTOs. Of all the BASIC extensions, Simon's has more PD program support than any, and has even been the subject of past magazine tutorials and type-in programs. Just to keep you humble, the author was 16 when he wrote this package! (-M.B.)

Waterloo Structured Basic

$ 99.00 Watcom Products ***+

Features structured statements, procedures, auto-line numbering, delete lines, and renumber. Developed mainly for educational systems, the stong points of Waterloo BASIC are its structure and the excellent study manual. Other BASIC add-ons with graphics and sound commands are more highly recommended for personal use. (-M.B.)

ADA Training Course

$ 39.95 Abacus Software ***

Compiler for a small subset of this high level language plus an assembler/disassembler and syntax-checking editor. Not powerful enough for program development, and not really complete enough for teaching Ada. (-M.B.)

PROMAL

$ 49.95 Systems Management Associates **+

A programming language editor/compiler package that is definitely for the pro only. Difficult to learn, with obscure error messages. Program structures require indents to compile properly. Compiled code is fast and compact. May be a choice to consider if you are a software developer, but pay the extra $50 for the professional version and prepare to relearn everything. I would recommend C instead. (-M.B.)

64-TRAN

$ 50.00 Master Software

FORTRAN compiler/linker. Write your source code with a word processor or the BASIC editor and then compile into stand-alone 6502 machine code.

COBOL 64

$ 39.95 Abacus Software

COBOL system for C64 includes editor, compiler, interpreter, and debugger. Most COBOL features are here. Using COBOL on an 8-bit machine is curious, but might be useful for learning the language, at least. This is the best implementation, if you must. Formerly Visionary COBOL. (-M.B.)

COMAL extras

$:na Comal Users Group

COMAL demo disks, keyboard overlays, tutorials, utility disks, user group disks, books, and cartridges all at various prices (discounted to COMAL Today subscribers).

Enhanced Forth

$:na Accelerated Software

FIG-Forth standard version of the language.

Forth Language

$ 39.95 Abacus Software

Allows you to write programs that are more compact and efficient than BASIC yet easier to use than Assembly language. Built-in vocabulary which supports graphics, sound, create your own new words, also includes full screen editor, Forth assembler and handbook.

Green Pilot

$ 20.00 Greenwood Software

A version of standard PILOT, that has been enhanced for easier use. Includes 'help' command.

Lips LISP

$ 39.95 List Processing Software

Despite its limited speed, Lips LISP and its associated excellent tutorial manual provide a painless intro to the premier AI language. (-M.B.)

Master-64

$ 39.95 Abacus Software

Application development package with powerful commands for screen management, superior indexed file management, multiprecision math, machine language monitor and more. Adds 100 commands to BASIC and creates royalty free programs.

MasterForth

$ 125.00 MicroMotion

Forth-83 programming environment for the 6502/6510. Includes macro assembler and complete interface to the 1541. String package, screen editor, hi-res graphics extension, and resident debugger are standard. Relocatable utilities and transient definitions.

MVP Forth
$ 175.00 Mountain View Press

Forth language system for both program development and learning. Source code and a tutorial are included.

Super Pascal 64
$ 59.95 Abacus Software

A development system with high speed DOS. Full J&W implementation with free run-time package, 11-digit fp, exact error reporting, overlays.

The Sixty Forth
$ 39.95 Elcomp Publishing

Forth compiler.

Turtle PILOT 64
$ 13.95 Alan Poole

This version of PILOT includes turtle graphics, and may be freely copied and distributed by users. Additional copies of the manual are 7.95/ea.

Vanilla Pilot
$ 29.95 K-12 MicroMedia Publishing

Basic PILOT for C64 with lo-res graphics.

Video Basic-64
$ 39.95 Abacus Software

Adds dozens of powerful commands to BASIC that let you create graphics and accompanying music or sound effects. Create royalty free software. Hardcopy printouts are possible with most dot matrix printers.

Watcom Pascal
$ 149.00 Watcom Products

Features bit mapped graphics capabilities, procedures for accessing sprites, SID chip, and any other i/o device. Developed mainly as an educational Pascal. (-M.B.)

Fasthack'em
$ 29.95 Basement Boys Software *****

Disk copier for MSD II, 1 or 2 1541s, or a C128 w/1571. 2-minute copies with one 1541, less than 35 seconds with MSD or 2 1541s. Programs multiple drives or dual drive for stand-alone operation to copy disks all by themselves while you use your C64 for something else! Latest version (4.0) includes many more parameters for copying stubborn programs. Excellent support & updates. (-M.B.)

Super Kit/1541
$ 29.95 Prism Software *****

Expert copier with many features. Track & sector editor and GCR editor, file copier, error scanner, and more. Nibblers for single or two drives. Parameter copier has more parameters than any competitor. Backs itself up to one generation. User interface is menu-driven, but you can't get back to menu without rebooting. Full track verify of copies. Nice 'history of protection' in manual. 1571 version in the works. (-M.B.)

Capture
$ 39.95 Jason-Ranheim ****+

Best cartridge-based copier. Its main fault is that it produces so many disk files. They can be joined together, but it's an extra step you don't need to go through with the others. (-M.B.)

Ultrabyte
$ 39.95 Ultrabyte ****+

Copies tracks 35-38, completely automatic; just swap-and-go. Takes about 2 minutes. 160 parameters. Copies itself. (-M.B.)

Copy II 64/128
$ 39.95 Central Point ****

Copies nearly all protected software using either a 1571 or 1541 disk drive. Recreates all errors, half tracks, non-standard sectors, changed data rates, duplicate sectors and many special track formats. Works with printer and other devices plugged in, maximum 4 swaps, and NOT copy protected itself. (-M.B.)

Snapshot
$ 49.95 Marshview Software ****

Copy and 'de-protect' memory resident software. Uses fewer steps than Isepic. Formerly called CodeBuster. Distributed in the US by CSM. (-Staff)

CBUS
$ 99.95 R.J. Brachman Associates ***+

Cartridge Back-up System for the C64, that lets you copy cartridges to disk. Many cart programs can be loaded back into a regular C64, though some require the CBUS II be plugged in to run properly. Code can also be burned into EPROM carts. (-M.B.)

Di-Sector
$ 39.95 StarPoint ***+

Latest release is version 3.0e. A pro tool, more than a copier, includes m/l monitor with drive memory & undocumented op code support, disk editor, fast formatter and more. Now includes parameter copier; also makes unlimited copies of itself. Still no 1571 mode support. (-M.B.)

Isepic
$ 64.95 StarPoint ***+

The first of the 'memory snapshot' copiers, Isepic has been surpassed by its competitors. Because it consists of both a cartridge and a disk-loaded component, it is not as transparent as some of the other snapshotters. Still, it deserves kudos for being the very first tool to totally copy and unprotect many RAM-resident titles. Recently discontinued (Spring '87). (-M.B.)

Kracker Jax
$ 19.95 Kracker Jax ***

Busting a program with KJ is a two-step process. First you copy the program with a four-minute copy program, then crack the protection with the proper specific parameter on the KJ disk. Four volumes are currently available, with 80-120 parameters per disk. Other copiers do the same thing in a single step, and some offer many more parameters, for a better deal. (-M.B.)

Ditto
$ 39.95 Cardinal Software **

Copies most older disks, but not up to the latest protection schemes. Takes 25 minutes to copy. Backs itself up (and was among first to do so), but badly in need of an update. (-M.B.)

21 Second Backup
$ 39.99 VG Data Shack

You must pull your drives apart and install a special parallel cable (included), but once you do it is claimed that this program will copy most any disk in just (you guessed it!) 21 seconds. Does direct copies of many disks that most other copiers require parameters for. Works with one or two drives. A file copier that handles relative files is available for $19.99 additional or $39.99 w/cable. (-Staff)

Cartridge Backer
$ 54.95 CSM Software

Allows you to make disk based archival copies of most of the cartridges (and many disk programs) on the market. Create your own autoboots and copy files to or from disk or tape. No external ram boards, roms or cartridges required. Includes manual, expansion board with re-set switch, and program disk.

Diskette File Copy (DFC)
$ 25.00 Layton Berry Software

This shareware file copier features an excellent user interface, and handles all file types including REL.

Mass Duplicator
$ 25.95 Chip Level Designs

For the MSD SD-2 disk drive only, this copy program comes with a replacement ROM. 15-sec. backup for unprotected disks, an 18-second nibbler, and a 9-sec. format. (It will even format 2 disks at once during that 9 seconds). You can even disconnect the computer and the MSD will continue with your backups.

Quickcopy V 2.0
$ 19.95 Abacus Software

Copy an entire disk in 2.5 minutes using two drives or 3.5 minutes using a single drive.

Super Clone Machine
$ 49.95 Micro-W

Super Clone Machine includes copiers for 1541 and 1571 drives, many additional tools for error writing, sector editing, etc.

The Mirror
$ 24.95 Compumed

Automatically makes back-ups using nibbling, half tracks, extra sectors and tracks, reproduces all disk errors, even copies itself.

Physical Exam
$ 39.95 Cardinal Software ****+

Drive calibration program on a specially prepared disk. Check and adjust speed, head stop, and alignment. Includes replacement 'soft stops' to improve older drives. Provides printed record of alignment status. Highly recommended for 1541 owners, and an absolute necessity for clubs. Now available for 1571, 4040 and 8050 disk drive formats. (-M.B.)

Power Cartridge
$ 59.95 RadarSoft ****+

A handy little all-in-one utility package in a 16K ROM cartridge. Includes reset switch, ML monitor, BASIC utilities, tape and disk speedups, multi option screen dumps (while almost any program runs) and a memory resident copier. (-M.B.)

The Final Cartridge
$ 39.00 H&P Computers ****+

Multi-function cartridge integrates screendump utility, disk & tape turbo loaders, centronics printer driver, m/l monitor, BASIC extensions, and memory freeze-and-save functions in one cartridge. The reset-to-monitor capability has come in handy more than once around here. Can be switched off for C128 mode operation, and kicked in after a C128 program has loaded. A super hacker's cartridge. (-M.B.)

Fast Load
$ 39.95 Epyx ****

Cartridge based disk speed-up program with a 3 to 5 fold increase in speed (loading only.) Includes utilities like machine language monitor, copier (for non-protected disks) and a dos wedge for simpler disk commands. Desperately in need of an off switch, but otherwise a worthwhile investment. (-B.D.)

Peek A Byte 64 V2.0
$ 25.00 Quantum Software *****

With 'Disk Mechanic V2.0'. Excellent track and block editor for the C64 & 1541. It is memory-resident and compatible with the DOS wedge and machine code monitor. Read and modify header information, data under errors, directory information. Displays in hex, ASCII, screen codes, and will disassemble M/L programs. The best programmers utility since the monitor; an indispensible tool for the serious programmer. (-M.B.)

COMPUTER TRIVIA

The first fully transistorized digital computer was the *CDC 1604*, built in 1958 at Control Data Corporation by Seymour Cray.

Mach 5
$ 34.95 Access Software ****

Like Epyx's 'Fast Load' with additional commands like 'hardcopy' and 'disable drive rattle'. A disk is also included with 2 programs:Disk Organizer and BASIC Plus 4K which frees up an additional 4K of BASIC memory. (-B.D.)

64 Doctor
$ 19.95 PractiCorp International **+

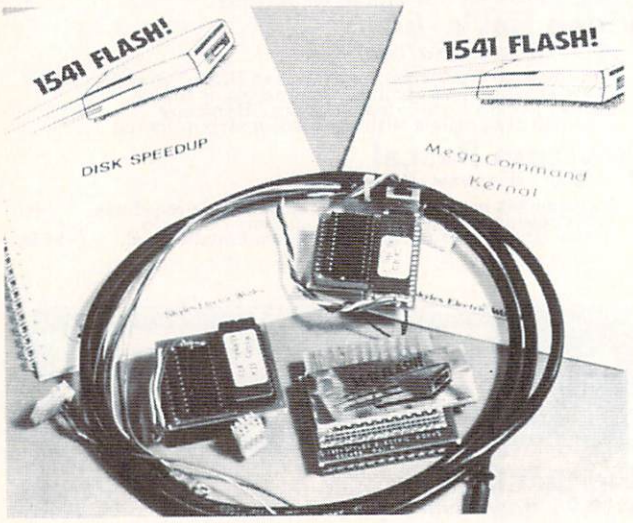
Simple diagnostic programs for the C64 that can verify your own good hunches about what's not working. Tests drive, keyboard, video, audio, printer, joystick, RS-232 port and RAM. Cute, overpriced, you can live without it. (-B.D.)

1541 Alignment Program V2.0
$ 44.95 CSM Software

A two disk calibration package for aligning and adjusting 1541 disk drives. Check speed, alignment, and head stop adjustment. Calibration diskette included.

1541 Express
$:na Rich Hill

Speedup cartridge for the 1541.



1541 Flash!
$ 59.95 Skyles Electric Works

Permanent firmware installation to the C64 and 1541. Speeds up loading (by approx. 3 times) and adds 50 DOS commands. Two disk drive version available.

C-64 Micro Dr.
$ 150.00 Micro R&D

A diagnostic cartridge to plug into your dead or ailing 64 that will tell you whether the problems lie in RAM or ROM. Even works with 'dead-screen' computers.

Disk Exerciser
$ 29.95 Genesis Software

Disk diagnostic program enabling disk drive testing, read, write, scan, seek, disk speed plus full disk editor.

Disk Librarian v2.2
$:na A.J. Kwitowski

Freeware (send blank disk and...) disk cataloger for tracking up to 128 disks.

Disk Librarian
$ 35.00 Software Unlimited

Single drive disk backup, disk backup to tape, and disk cataloging program.

Disk Library
$ 19.95 Genesis Software

A database for disk users. Add, update, search, print disk labels, and print reports.

Disk Maintenance
$ 29.95 Reflexive Software

Utility for disk directory editing including ABLE (Advanced BLock Editor). The main program can create menus as well as handle a variety of disk functions. ABLE is a word-processor type block editorwith the ability to disassemble ML and write ML commands on the disk.

Disk Organizer
$ 24.95 Cardinal Software

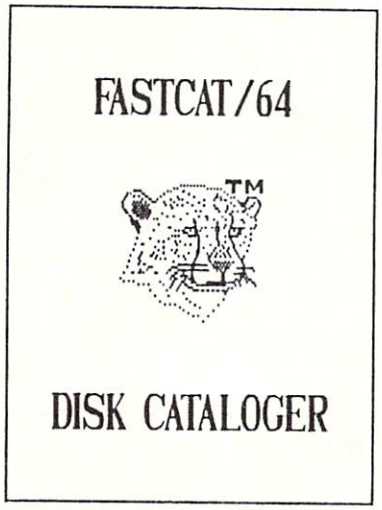
Utility disk with programs for: backup, disk copy, directory sort, backup marker (marks programs which have been backed up), directory print and library maintains disk directories and allows them to be printed.

Disk Sleuth
$ 9.95 Nth Digit Solutions

Catalogs the contents of up to 100 disks onto an alphabetized master directory disk. Each program entry contains full program information, including up to 40 characters of personal comments. Directory can be viewed, printed or searched. Allows key files to group programs by type.

EZ-DOS
$ 19.95 Genesis Software

A menu driven DOS program supporting all DOS commands plus lock/unlock files, unscratch, change disk name, and print disk directory.



Fastcat/64
$ 20.00 R. J. Biancosino

Disk cataloger that supports a variety of methods of catalog construction. Instant screen dump. You can search, select, print, or view entries using pattern matching, wildcards, and comparative logic on any combination of fields. Money back guarantee (!).

Freeze Frame
$ 49.95 Supra

Instant screen dump cartridge for printing both text and hires screens. Formerly from Cardco.

Geos Deskpack 1
$ 34.95 Berkeley

Geos utilities disk with Graphics Grabber, Icon Editor, Calendar, and a blackjack game.

Geos Deskpack 2
$ 34.95 Berkeley

The second GEOS utility disk. Includes geoChart, which generates charts from your own data or from other GEOS applications, and geoSpell, a spellchecker to use with geoWrite.

Help Master 64
$ 24.95 Master Software

Provides on-line help screens for all of the BASIC 2.0 commands and statements with no memory overhead. Includes 368-page reference book.

Invisible Calculator
$ 39.95 Master Software

Multifunction calculator with memory that hides until needed. The results of your calculations can be transferred to the BASIC screen.

Peek A Byte 64 V1.0
$ 10.00 Quantum Software

This original version of Quantum's excellent track and sector editor without the 'Disk Mechanic' utilities is available as a shareware program, or for $10 direct. (-M.B.)

Master Catalog
$ 25.00 Midwest Software

Disk organization utility.

Masterdisk v2.0
$ 29.95 Integrated-Software Systems

Fully integrated, automatic disk cataloging system with disk repair utilities. Dual drive version (for 4040, MSD, etc.) is also available.

PPD Software Printer Driver
$ 10.00 Drude Micro Services

Shareware printer driver makes any Centronics-standard printer act like a CBM serial printer. The $10 price is only for software. A registered copy and assembled cable are $35, $25 for the disk and unassembled cable. An unassembled cable only is $20.

Screen Dump
$ 19.95 Cardinal Software

Dumps the characters on the C64 screen (with the exception of sprites) with the touch of two keys.

Skyles C64 Utilities
$:na Skyles Electric Works

Disk Revealed ($29.95), Arrow cassette speedup ($49.95) Printer/Buffer ($19.95) and more.

Slik Load
$ 29.95 Megasoft Ltd.

Cartridge fast-loader with utilities. Claims 5X speed improvement for loading. Eliminates drive rattle. Status key gives device number, bytes free, and drive status.

StarDOS
$ 64.95 StarPoint

writing, eliminates head-knock, DOS wetge, built-in 3 minute copier, and more. Long legal delays in the release of StarDOS have resulted in comsumer grumbling, but Starpoint says it's now ready to ship. Honest.

Super Diskdoc
$ 24.95 Progressive Peripherals

Disk maintainence package includes error finder, disk search, sector editor, directory sort, more.

SuperCat
$ 29.95 Cornucopia Software

Provides an alphabetized index for up to 640 disks and 5000 titles. Includes free back up.

SuperdiskAEX64
$ 35.00 Avantgarde64

Includes copier, ML monitor, 32 extra commands, line xreferencer, macro assembler and disk surgeon editor.

SX-64 Flash!
$ 69.95 Skyles Electric Works

Same as the 1541 Flash! but for the SX-64 computer.

The Boot
$ 19.95 Theta Technologies

Auto-boot cartridge for automatically booting programs from disk.

The Infinity Machine
$ 24.99 Mastertronic

This is a cartridge that bypasses sprite collision detection. In many games, this means you can blast the aliens, but they can't blast you! Rack up incredible scores to impress your friends, or on a more practical note, if you are a complete klutz like me, get a chance to play the higher levels that you've never seen before (you can switch it off once you get to where you want to be.) Definitely unique! (-M.B.)

Time-DOS
$ 19.95 Family Software

Time/date stamper wedge-type program for dating your disks.

Vorpal Utility Kit
$ 49.95 Epyx

Includes programs for: 1541 head alignment, file recovery, fast-format, fast (file & whole disk) backup, drive speed check, and Vorpal save/load.

Windows
$ 25.00 St. Mars Systems

A programmer's utility package that lets you add windowing capabilities to your own programs. Unfortunately there is no routine for formatting print in the window. (-M.B.)

64 PRODUCTIVITY UTILITIES

B/Graph
$ 29.95 Commodore ****

Professional quality graphics, charting and statistical package. Creates pie, bar, and line graphs, provides statistical analysis of data extracted from disk files. Excellent manual. Very powerful, but suffers from slow disk access times between modules. (-Staff)

Desk Manager
$ 39.95 SoftSync ***

This poor man's Sidekick clone lacks the one feature that makes Sidekick so appealing: it takes over your whole computer. SoftSync suggests dedicating a whole system to Desk Manager. Includes notepad, phone index, scheduler, mini wordprocessor, calculator. Includes C128 version on same disk. (-M.B.)

Chartpak-64
$ 39.95 Abacus Software

Make professional quality charts without any programming. You can enter, edit, save and recall your data. Then you interactively build pie, bar, line or scatter graphs. Includes statistical routines for average, standard deviation, least squares and forecasting. Works with most printers.

Chartplot-64
$ 84.95 Abacus Software

Like a sister to Abacus's 'Chartpak-64', but you can also record the final results onto plotters. You can also use data from spreadsheets such as 'MultiPlan', 'CalcResult' or 'BusiCalc'. You control the chart building from the keyboard. Pie, bar and line charts.

Partner 64
$ 59.95 Timeworks

Cartridge-based 'Sidekick' for the C64 can be push-button activated from within applications programs. Includes notepad, calculator, phone list, calendar, and more, plus hooks for user-written expansion. Also includes integral screen-dump utility. (-M.B.)

Sideways
$ 29.95 Timeworks

Can print any normal text file to virtually any width by printing sideways on your printer.

64 ARCADE & ACTION GAMES

Dig-Dug
$ 44.95 Atarisoft *****

One of our all-time favorite arcade games that is faithfully recreated for the C64. All the detail of the original: screens, patterns, animation and pleasing game-play. A nice extra is the ability to start at any screen and proceed from there. Hours of fun guaranteed. (-B.D.)

Pit Stop II
$ 39.95 Epyx *****

This is not only the best car-racing game made for the C64, but easily one of the top 10 arcade games of all time for the 64! The dual-screen is incredible with each driver seeing the same world from his own position. Every detail is included, from changing tires & fuel to steering responce. The smooth animation is 1st rate. For 1 or 2 drivers. (-B.D.)

Zaxxon
$ 39.95 Broderbund ****+

This 3-D effect video game with angled scrolling and shadowing is a real winner. Just like the arcades! (-B.D.)

Archon II: Adept
$ 39.95 Electronic Arts ****+

The sequel to Archon for 1 or 2 players. (-B.D.)

Archon
$ 39.95 Electronic Arts ****+

Played on a board where icons occupy the squares, and in an arena where icons race around trying to zap each other, the object of Archon is to occupy all six power points (they move around, increasing the difficulty). For 1 or 2 players. (-B.D.)

Arcticfox
$ 32.95 Electronic Arts ****+

One of the first titles converted from an original on the Amiga to the 64. Those who take the controls of this lethal 100mph super-tank will be treated to some g eat 3-D graphics, plenty of gadgetry, and all the heat a joystick jockey can handle. You must defeat a wide variety of foes on the ground and in the air. Intuitive control interface gives tight control over numerous real-time tasks. (-B.D.)

Blue Max
$ 34.95 Broderbund ****+

Strafing and Bombing actually made fun. Very detailed animation, graphics and sound. Blue Max is like a World War I version of 'Zaxxon', with angled scrolling and realistic shadow under planes. Readouts for fuel, damage, wind, landing gear, etc. (-B.D.)

Donkey Kong
$ 44.95 Atarisoft ****+

The original Nintendo arcade game brought to Commodore by Atari. If you need this game described then you must have been off the planet the last few years. The C64 version even outshines the Atari version. (-B.D.)

Ghostbusters
$ 29.95 Activision ****+

Foot-tapping music, great animation and scary ghost voices. If you liked the movie, you'll love this one! (-B.D.)

Impossible Mission
$ 34.95 Epyx ****+

Lifelike movements of high resolution graphics like the hero running down hallways and somersaulting over enemy robots. Neither is this an anti-climax or a one-dimentional game. At its heart IM uses the classic video game structure of multiple rooms with catwalks, tokens and lots of enemys and adds puzzles, graphics, sound and speech synthesis. (-B.D.)

Raid Over Moscow
$ 39.95 Access Software ****+

An engrossing multi-screen challenge, requiring skills similar to those needed in 'Beach Head' and then some. ROM also allows you to relax through the demo mode until the later screens appear and moving your joystick activates game mode and you can then practice. (-B.D.)

Spy vs. Spy
$ 14.95 Accolade ****+

True to the MAD magazine comic strip, these well known spy guys bounce back from repeated slayings and set-backs. Fortunes change in favor of one spy and then the other. Two players can play simultaneously or the computer will play one. (-B.D.)

Ultimate Wizard
$ 29.95 Electronic Arts ****+

Newly-polished version of Wizard (from Progressive Peripherals), and still one of the very best ropes-and-ladders games. Construction mode lets you build your own levels. (-M.B.)

Ballblazer
$ 39.95 Epyx ****

A Lucasfilm game where you and an opponent scurry around a 3-D playing field, each trying to gain possession of a fast moving ball. Features high speed action and futuristic looking graphics. Dramamine may be required by those prone to motion sickness. (-B.D.)

Centipede
$ 44.95 Atarisoft ****

Once again, a completely convincing adaptation of the classic with all the nuances of the original. Though none of Atarisoft's C64 titles are in production any more, they are still shipping from warehouse stock. (-B.D.)

Jumpman
$ 39.95 Epyx ****

One of the all time greats, you can play this rope & ladders game for weeks without getting bored. (-B.D.)

Night Mission Pinball
$ 29.95 Sublogic ****

An award winning pinball simulation with ten levels of play. Also features an editor for customizing the game. (-B.D.)

COMPUTER TRIVIA

Ralph Baer designed the first videogame in 1970.

Championship Lode Runner
$ 34.95 Broderbund ****

50 complex screens, each more intricate and difficult than any in the original L.R., this requires concentration and ingenuity to complete, no screen building in this one. For Lode Runner experts only! A hint book is available for $9.95 (-B.D.)

Frogger -by Sierra
$ 34.95 Sierra On-Line ****

The official version of the popular arcade game by SEGA comes to the C64 with every nuance intact except the coin-slot and the aroma of pizza. Impressive music and sound, smooth animation. (-B.D.)

G.I. Joe
$ 34.95 Epyx ****

This game is quite decent with several phases including hero/opponent choices, missions selection, and combat. While the hand-to-hand combat sequences are goofy, the equipment combat is better than others. (-B.D.)

Koronis Rift
$ 29.95 Epyx ****

This is my pick of the four Lucasfilm titles offered by Epyx. This easily has the best graphics and just enough depth to ensure prolonged and repeated play. While there is plenty of blast the alien, the main emphasis is on discovery and techno-fascination. (-B.D.)

Lode Runner
$ 34.95 Broderbund ****

A tiny 'Gumby'-like figure, the lode runner races along catwalks and climbs ladders collecting bungeling booty and escaping the guards. Lode Runner carries a laser to shoot through the floor making a trap for the guards or an escape route for yourself. Edit mode enables creation of screens. (-B.D.)

Pac-Man
$ 44.95 Atarisoft ****

It's the real thing! This, like most Atarisoft games, looks better on the 64 than it does on the Atari. Just like the arcades. Still available from backstock. (-B.D.)

Raid on Bungeling Bay
$ 29.95 Broderbund ****

The enemy territory covers 100 screens' area. Each of six island factories keeps building the war machine until it is destroyed. You carry 9 bombs and your guns never run out of ammo. If tanks and anti-aircraft guns don't destroy you, fighter planes with heat seeking missles just might. (-B.D.)

Realm of Impossibility
$ 39.95 Electronic Arts ****

Deluxe edition of zombies. Has simultaneous two player action (& without each other you're dead meat), 13 dungeons and 129 rooms. Frantic action with poor character/background relationship. Also has an eye opening 'warp-speed' scrolling between screens. (-B.D.)

Robotron:2084
$ 44.95 Atarisoft ****

If you liked it in the arcades, you'll be happy with this Atarisoft conversion of the Williams game for the C64. Discontinued. (-B.D.)

Spindizzy
$ 29.95 Activision ****

This is a hot little number with much of the appeal of 'Marble Madness', but with faster action, more player freedom, greater variety of playfields, and jewels to hunt for. Yep, it's a winner. Guide your spinning top from screen to screen, and collect all the jewels before time runs out. The maze aspect adds still more interest and challenge to this game. For one player only. Recommended. (-B.D.)

Spy vs. Spy Volume II
$ 29.95 First Star ****

The famous guys are back, this time on a tropical island. Not as good as the original, it's more for those of you who didn't get enough the first time. (-B.D.)

World Karate Championship
$:na Epyx ****

International Karate competition with up to 17 Karate moves. We hear that a black belt was filmed to provide the model for the excellent realism to be found in the various fighting stances and moves. (-B.D.)

Worms
$ 34.95 Electronic Arts ****

A unique game in which players (up to 4) program their colorful, musical worms to take over and dominate the game grid. The C64 will play the parts of any missing players. (-B.D.)

Axis Assasin
$ 34.95 Electronic Arts ***+

Survive the web-spinning 'master-arachnid' and rescue extra men from its nest. (-B.D.)

Defender
$ 44.95 Atarisoft ***+

A classic in the arcades (I'm glad that Atari spent some of my quarters on the R&D to bring this out on cartridge for the C64!). The controls lack the original's responsiveness and leaves the Earth in much greater danger! (-B.D.)

Flip & Flop
$ 39.95 First Star ***+

Inventive animated game that has you hopping all over the place, then just when you've got the hang of things, you're suddenly upside down, climbing and hanging around. (-B.D.)

Fort Apocalypse
$ 34.95 Broderbund ***+

Take your jet copter down thru tunnels and caves. Good arcade action, but the difficulty makes it frustrating. (-B.D.)

Gridrunner
$ 39.95 HesWare ***+

Fast & colorful, somewhat reminiscent of Atari's 'Centipede' but with many original twists. (-B.D.)

Hard Hat Mack
$ 34.95 Electronic Arts ***+

An entertaining arcade game, along the lines of, but not quite as good as 'Jumpman'. (-B.D.)

Marble Madness
$ 29.95 Electronic Arts ***+

A noble attempt, but this 64 version is just a shadow of the arcade original and the excellent Amiga version. I don't know if it's a case of just asking the 64 to do more than it's capable of, or if the programming wasn't up to EA's usual snuff, but the end result is a visually convincing landscape with marbles that handle like intoxicated turtles. Especially frustrating with two players. (-B.D.)

Master of the Lamps
$ 29.95 Activision ***+

Ring bells in a 'Simon'-like game to earn the right to take a joyride on a magic carpet. (-B.D.)

Movie Monster Game
$:na Epyx ***+

Ever want to squash a city? Then this is the game for you. You have your choice of becoming one of 6 movie monsters, including Godzilla. Now, get out there and destroy some landmarks and stomp some nasty little humans! Your monster is a bit ponderous and slow-moving but this is still a fun farce. (-M.B.)

Neutral Zone
$ 34.95 Access Software ***+

Deep space combat with smooth scrolling (360 degrees), 3-D realism and great sound effects. All machine language and hi-res. graphics. (-B.D.)

Operation Terminal
$ 39.95 Dreamrider ***+

You must escape from an island nuclear plant before it blows up. This game is unique in that it supports a two-player version via modem. The graphics are OK, but nothing to write home about. I only played against the computer, but I can see that a human opponent would make the game much more interesting. Hard to recommend if you don't intend to play via modem.

Rock n' Bolt
$ 29.95 Activision ***+

Your job is to move up thru the various levels of a skyscraper, and bolt down the girders which are sliding around all over the place. You must arrange them exactly as the blueprint inset shows. Cute with nice sound and music, but not complex. (-B.D.)

Saucer Attack
$ 29.50 Sachs Enterprises ***+

Don't let one nice graphic screen fool you into thinking there are more. Only one other screen is included in this game and it shows a slighty larger flying saucer, the mother ship, hovering in space. If you win the game, the capitol screen returns with a small fireworks display, an anticlimax. (-B.D.)

Scrolls of Abadon
$:na Access Software ***+

You travel around on a sliding grid looking for scrolls, your travels are complicated by the restriction that you may not retrace you steps in an opposing direction. This is my least favorite offering from Access Software so far. (-B.D.)

Skyfox
$ 34.95 Electronic Arts ***+

More of an arcade-strategy game than a simulation, Skyfox is packed with gadgetry and great effects(the zoom-in computer display and dual-mode radar screen are certainly eye-poppers). This gizmo fascination eventually wears thin and the gamester finds a much less involving product lying below the surface glitz. Good for a few hours of fun. (-B.D.)

Spell of Destruction
$ 29.95 MindScape ***+

This is a nice little dungeon-esque arcade-like game which features scrollingng '3-D' graphics and so-called 'motion picture' musical score that changes with the action. The puzzles which must be solved are unusually difficult and will probably frustrate all but the most hard-boiled gamer. I also found the aiming of weapons and spells to be a bit too tricky. (-B.D.)

Super Boulder Dash
$ 29.95 Electronic Arts ***+

Deceptively simple and strangely addictive sequel to First Star's original Boulder Dash. 16 caves to explore filled with diamonds and surprises, fun for all ages. (-B.D.)

The Rocky Horror Show
$ 29.95 Activision ***+

Based on the cult movie of the same name, this time you get to be Brad or Janet and do 'The Time Warp Dance'. Only one of the movie's many songs is used (and it gets kind of old after a while, no matter how much you like it). The characters are all there, but there really isn't much of the flavor of the film in the game. Not a bad game, but all in all, pretty tame stuff.

World Games
$ 39.95 Epyx ***+

Summer Games, Winter Games, and now World Games. Will we soon see Galactic Games? WG is my least favorite of the series. Slalom Skiing the the best of the eight new events. The other seven are: Cliff Diving, Sumo Wrestling, Bull Riding, Barrel Jumping, Log Rolling, Weight Lifting, and the Caber Toss. Epyx does such a nice job of execution that it's hard to take off too many points for such boring material. (-B.D.)

Z
$:na Educational Systems ***+

A fine example of some of the better arcade titles from Great Britain. Your craft moves omnidirectionally over 4 levels of scrolling 3-d landscapes, zapping various hostile objects. Good graphics and fast action are the keynotes here. (-B.D.)

Beach-Head II
$ 39.95 Access Software ***

Sequel to Beach Head I. Live action video footage was supposedly used as a basis for the animation of BH II's characters. The result of such graphics techniques, combined with digitally simulated cries like 'Medic!', and 'Ahhh! I'm hit!', is a bloody game which seems best suited for 10 year old boys who have a limited comic-book allowance, and have tired of torturing G.I.-Joe at the hands of Skeletor! (-B.D.)

Great American Road Race
$ 29.95 Activision ***

You are driving at speeds up to 100 mph and you must deal with changing road conditions and of course cops with speed radars. (-B.D.)

Karateka
$ 29.95 Broderbund ***

You are trained in karate and you must save your beloved princess Mariko from the evil warlord. Unfortunately this game is rather simple and 2-dimensional (literally) with your figure travelling left and right with only 3 punches and 3 kicks at your disposal. (-B.D.)

Pole Position
$ 39.95 Atarisoft ***

A big hit in the arcades, but the magic has not been translated well for the C64. Chunky graphics and animation, unsophisticated sound effects and unconvincing joystick response, make this racing game seen like an amateur effort. If you want a really hot racing game, you won't find it here. Discontinued. (-B.D.)

Willow Pattern
$:na Firebird ***

A pleasantly animated and scored quest involving the rescue of a princess. Lots of sword play and treasure in this fairly standard recreation. On the flip-side of the disk is 'Chimera' a robot-in-a-maze game. (-B.D.)

Indiana Jones / Lost Kingdom
$ 29.95 MindScape **+

The idea is great: a set of problem-solving games with no instructions where you must use your wits & logic, like 'Indy' would to survive and complete the 6 rooms. Unfortunately all fail to translate this into a satisfying product. This game is boring and roughly animated. Sure to disappoint Indiana Jones fans. (-B.D.)

3 for Fun
$ 12.95 JAL Software

3 joystick controlled action games in compiled BASIC. Backwoods driver, Fastrack, and Rainball.

Arc of Yesod
$ 19.95 Firebird

Fighting the baddies on the surface of the moon. There is also a continuation called the Nodes of Yesod which takes place beneath the lunar surface.

Arcade Album
$ 8.95 Polarware/Penguin Software

Collection of 3 games, 'Spy's Demise', 'Spy Strike Back', and 'Thunderbombs'.

Bandits at 4 o'clock
$ 25.00 Infinity Software

Recreates a WWII scenario which places you as the tail gunner in a B-36 bomber. You must defend your plane from the fast, deadly enemy fighters. Skill and reflexes are required to prevent destruction of your aircraft by an enemy determined to shoot you down.

Battle Trek
$ 29.95 Touch Technologies

Action game designed especially for 'TREKKIES'. The game is a battle between the starship Enterprise and an invading horde of Klingons. The object is to rid the galaxy of Klingons within 50 star dates while achieving as high a score as possible. There are 3 skill levels and a comprehensive user's guide is included.

Beach Blanket Volleyball
$ 14.95 Artworx

Volleyball at the beach either against a friend or the computer. Timing & strategy are your main concerns through nine difficulty levels. Be careful not to get any sand in your microchips.

Black Magic
$ 19.95 Datasoft

Overcome the minions of the evil warlock Zahgrim through over 100 screens of action & puzzles.

Black Thunder
$ 25.00 Avalon Hill

Roadwarrior-type game with fifteen levels. Uncomplicated and addictive.

Blue Max 2001
$ 29.95 Broderbund

Shoot-em-up flight simulator with diagonal scrolling in which you try to destroy the evil FURXX empire.

Bop 'N Wrestle
$ 29.95 MindScape

3D animated wrestling simulator imported from Great Britain. Joystick or keyboard control. Choose from 10 contenders and battle your way to the Championship!

Boulder Dash
$ 29.95 First Star

Avoid the crashing boulders as you dash for treasure.

Championship Wrestling
$:na Epyx

All the flavor of 'real' Saturday-night wrestling, complete with phony holds and classic characters.

Choplifter
$ 34.95 Broderbund

Helicopter simulation in which you have to rescue hostages from behind enemy lines.

Co & Co
$:na RadarSoft

Cooperative 2-player arcade/adventure with 245 rooms.

Commando
$:na Data East

You only have a machine gun and hand grenades. They have an army.

Deceptor
$ 14.95 Accolade

Maze-type game with six levels and robot vehicles.

Diablo
$ 29.95 Classic Image

64 version of the Amiga maze game. A ball rolls along sections of track, making it disappear as it goes along. Your job is to make sure there is always a piece of track for the ball to roll onto or you lose.

Desert Fox
$ 14.95 Accolade

Fight the Nazis in North Africa with your tank.

Equestrian Showjumper
$ 14.95 Artworx Software

One to six players can compete in international show jumping on one of twelve provided courses. An editor is included for designing your own courses. Gives full control over your horse's movement, including walk, canter, gallop, turns, and jumps.

FIST: The Legend Continues
$ 29.95 Mindscape

You are a Kung Fu master fighting against all kinds of evildoers.

Gemstone Healer
$ 29.95 Strategic Simulations

Sequel to Gemstone Warrior.

Gemstone Warrior
$ 14.95 Strategic Simulations

Role-playing fantasy in which you must brave the Netherworld dungeons and recover the Pieces and restore the Gemstone to the Temple. Part of 'SSI Classics' as of the fall of '86.

Ghost Chaser
$ 19.95 Artworx Software

Features animated, hi-res graphics and multiple game screens in a challenging problem solving format. Explore the rooms of an old manor but watch out for anything that moves.

Highland Games
$ 14.95 Artworx

Includes six traditional events: Hammer Throw, Discus, Long Jump, Caber Toss, Weight Toss, and Tug 'O War. Earn the right to display the plaid of your clan amid the wail of the bagpipes.

Infiltrator
$ 29.95 MindScape

Tongue-in-cheek helicopter raid into the territory of the 'Mad Leader' lets you choose one of three attack missions as the commander of the 'Whizbang Gizmo' DHX-1 Attack Chopper.

Invaders of the Lost Tomb
$ 29.95 Spinnaker

Make your way thru the Lost Tomb of King Tut.

Karate Champ
$:na Data East

Karate simulation.

Konami Game Cartridges
$:na Konami Software

C64 versions of arcade games from the Nintendo game system. Titles include 'Jailbreak', 'Yie Ar Kung Fu', 'Iron Horse', 'Super Basketball', 'Track & Field', 'Mikie', 'Circus Charlie', 'Gradius', and others. Prices range from $14.95 to $34.95.

Kung-Fu II: Sticks of Death
$ 29.95 Spinnaker

You must decimate you opponents with your wit and Koba.

Kung-Fu Master
$:na Data East

Rescue the fair maiden using only your wiles and your skill at Kung-fu.

Kung-Fu: Exploding Fists
$ 29.95 Spinnaker

Fight or die on the island of Ninjas.

Lode Runner's Rescue
$ 34.95 Broderbund

You become Alexandria, Lode Runner's daughter, and you must successfully negotiate 46 mazes on the way to rescue your father from prison. This LR sequal is in 3-D and has a built-in game editor with easy to use graphic icons.

London Blitz
$ 25.00 Avalon Hill

Enter the perilous world of bomb disposal during WWII. German bombers turned daily existence in London into a nightmare. Be careful and God save the king!

Lords of Midnight
$ 29.95 MindScape

Battle the WitchKing in this medieval game with 32,000 scenes.

Mastertronic Games
$ 9.95 Mastertronic

Mastertronic offers a line of over two dozen imported British games, most priced at $9.95. Though none of the ones we've seen could be rated tops in their category, they have been consistently playable and well worth the price. (-M.B.)

Mercenary: Escape from Targ
$ 29.95 Datasoft

You are trapped on the planet Targ. There is a second disk (which requires the original disk to work) with more of the adventure at a price of $14.95 Basically a flight-simulator type of game.

MicroLeague Wrestling
$:na Micro League Sports Assoc.

Features Hulk Hogan and moves the player decides on.

Mr Do!
$ 29.95 Datasoft

All the features of the arcade game of the same name.

Parallax
$ 29.95 Mindscape

Alien shoot-em-up. An evil computer (is there such a thing?) on another planet plots to destroy the earth and you must stop it. 3-D graphics/flight-type game.

Pole Position II
$ 29.95 Datasoft

Formula I racing on four tracks or design your own.

Police Cadet
$ 14.95 Artworx

You are a cadet at the police academy and must handle a beat, stake-outs, and the capture of armed suspects. You get a report card evaluating your methods and telling you whether you pass the semester.

Power
$ 14.95 Accolade

Arcade type shoot-em-up where you are fighting against the evil Demoid terrorists in the 22nd century.

Quake Minus One
$ 29.95 MindScape

Save the world from a nuclear-triggered quake!

Saracen
$ 19.95 Datasoft

You are the crusader Ilan fighting the evil Saracen. Over 100 mazes.

SilverDisk Series
$:na Firebird

The SilverDisk series features two action games on one disk. Included in the series are Willow Pattern/Chimera Underwurlde/Sabre Wolf, Gerry the Germ/Microcosm, Rasputin/Chicken Chase, Runestone/The Helm, Arc of Yesod/Nodes of Yesod, Battle of Britain/Battle for Midway, Chimera/MRCA-Mach II. These range from a text adventure to a flight simulator, with everything in between. Good-quality British imports.

Solid Gold
$ 14.95 Activision

This series is composed of the old classic arcade games which Activsion holds the rights to. The first release features Demon Attack and Pitfall together. A good deal. Get nostalgic!

Spy vs. Spy III: Arctic Antic
$:na First Star

Third in the series, the spies are at each others' throats in the frigid Arctic!

Starglider
$ 39.95 Firebird

This vector-graphic game offers 3D opponents & towers. You command a lone ground vehicle against the combined forces of the alien invaders. Your mission is to destroy their mighty command ship: the Starglider.

Starsweep
$ 9.95 JAL Software

2 player nonviolent action game in compiled BASIC. Just sweep your star into the goal and keep your opponent from doing the same.

Stealth
$ 29.95 Broderbund

Destroy the evil Council of Nine and its Dark Tower with your Stealth Starfighter.

Super Cycle
$:na Epyx

Essentially 'Pole Position' on motorcycles.

Superman
$:na First Star

It's you as Superman versus the evil Darkseid, or reverse the roles and battle the Man of Steel.

Thai Boxing
$ 14.95 Artworx

Kickboxing simulation with a 3D display. Even shows the unpretty effects of the bout on the contestants' faces. Includes six backgrounds.

Thunder Mountain Games
$ 9.95 Thunder Mountain

The company is offering 30 titles, British, mostly games. 'Rambo', 'Voodoo Island', 'Cyrus Chess', 'Songwriter' are among those available.

Top Gunner
$ 24.95 MicroProse

A three-in-one collection package including the previously released MiG Alley, Hellcat Ace, and Air Rescue.

Tracker
$ 39.95 Firebird

It's you against the Cycloid fighters, artificially intelligent invaders. This game claims your opponents are truly AI driven.

Trailblazer
$ 29.95 Mindscape

Soccer ball races through 'hyperspace networks'.

Transformers
$:na Activision

Subtitled 'Battle to Save the Earth'. The heroic Autobots wage war against the evil Decepticons.

Uridium
$ 29.95 Mindscape

Alien Super-Dreadnought ships are using up all the mineral resources in your sector of the galaxy and you must stop them.

Whistler's Brother
$ 29.95 Broderbund

You have to keep your dotty brother out of harm's way.

Zoids
$ 29.95 Activision

Based on the Tomy toy characters, the ones your kids go around the house playing like and pretending they're on the planet Zoidstar.

Monty Plays Scrabble
$:na Epyx *****

The process of computerizing scrabble (the all-time best selling word game) has not only left the original intact, it has enhanced it tremendously. 1 or 2 players, colorful board, 12,000 word on-line dictionary and a host of options. Sound effects are just right. Scrabble lovers won't be disappointed. (-B.D.)

Bridge Baron
$ 39.95 Great Game Products ****

Play bridge against your computer. Standard bidding Stayman, Gerber, and Blackwood conventions supported. No graphics to speak of, but it does play a mean hand of bridge. 1048575 possible hands with the option to rebid and replay each one. Use a disk speed-up to minimize the wait between bidding and play. Keep your mother away from this one or you'll never get near your computer again. (-Staff)

Indoor Sports
$ 29.95 Mindscape ****

An unusual and mixed bag of computer games: Air Hockey, Darts, Bowling, and Ping Pong! All four of these sports are nicely rendered in the computer medium by the authors, and they are all quite enjoyable. All games allow player vs. player or player vs. computer play. Ping Pong is unique with paddle that float in the air. It's unusual titles like this that keep us fascinated with computer gaming year. (-B.D.)

Robot Rascals
$:na Electronic Arts ****

A cute game for two to four players that combines a card game and a computer game, which makes it to our knowledge the first 'family' computer game. The computer part of Rascals is a nice remote-controlled-robot scavenger hunt. The music, sound, and graphics are very good, and the robots are well-animated. The cards have the same feel as UNO, with lots of card swapping. This one deserves a look. (-M.B.)

Play Bridge with Sheinwold
$ 29.95 Great Game Products ***+

91 different tutorial hands from one of THE experts on the game of bridge. This program is a play tutorial only. It doen't cover any bidding. You can set the number of tries you get to choose the right card. No graphics, but none are needed. Comes with a matching book that covers each hand. (-Staff)

Shanghai
$ 34.95 Activision ***+

Highly addictive computer version of Mah Jongg. Plan on spending many more hours than you intend to on this one. A little hard to distinguish between the tiles at first but addicts don't care about such inconveniences.

Strip Poker
$ 29.95 Artworx Software ***+

Play strip poker with Suzi or Melissa, or one of the gals (or guys!) on supplemental disks. Though not photographic, the graphics are just enticing enough, and the poker game is pretty good, too. (-M.B.)

Video Poker & Jackpot
$ 10.00 Mastertronic ***+

Great graphics on the slot machine simulator, and realistic sound effects on the poker machine. The slot machine is an elaborate four-reel affair with the 'hold & shuffle' optionss more prevalent in European casinos (the payoffs are shown in English pounds!) Lots of different fruit. The video poker machine is very good, with the convincing sound effects of a typical machine in Vegas, & it's only $10! (-B.D.)

Charles Goren:Learning Bridge
$ 79.95 CBS Software ***,

Charles Goren may be the best known name in bridge. Unfortunately this tutorial doesn't live up to his reputation. Set up in quiz form, you may feel like you are back in grade school. The hands dealt in the quiz often have little to do with the chosen topic. Bidding in the practice hands is good but play is rather slow and it is sometimes difficult to keep track of who led what. (-Staff)

Chessmaster 2000
$ 39.95 Electronic Arts ***

8-bit version of the Amiga game ALMOST makes the translation to the 64. While sporting most of same playing features (including the invaluable teaching mode), one major design oversight really spoils the whole party for me; the only way to move piece is by typing in the standard algebraic chess notation on the dang keyboard. What a royal pain in the bit bucket! If you don't mind typing, you might like it. I don't. (-B.D.)

Colossus Chess IV
$ 34.95 Firebird ***

Cursor and joystick options for piece movement. The features are fairly complete: board setup, chess clock, forward and backward stepping, replays, color selection 2D & 3D displays, mate-solving, & more. The biggest problem with Colossus is that all these features are accessed through shifted keyboard control sequences which are difficult to remember or find in the manual. Needs a quick reference card. (-B.D.)

Crosscheck
$ 29.95 Datasoft ***

This crossword game is for one to four players. Your goal is to build a chain of words from the center of the board to your home base in a corner. The board is much larger than the screen, so it scrolls. There are elements of Scrabble and crosswords combined in this game, and it should have some appeal for word-game addicts. The graphics are not much to speak of, but it as an extensive word list. (-M.B.)

Casino 64
$ 15.00 Quantum Leap **+

2 public-domain-quality casino games, Slots and Poker. Slot simulation features 1, 2, or 3 lines of play.

Video Vegas
$ 29.95 Baudville ***

Four Vegas-style casino games: Blackjack, Keno, Slots, and coin-op Draw Poker. Each of these simulations is just barely better than what you'd expect to find for free in the public domain. The graphics and sound are ho-hum, and there are lots of little shortcomings like the tedious transfer of funds (often 1 coin at a time). (-B.D.)

Backgammon & Euchre
$ 19.95 Hutchcraft

Traditional backgammon - user vs. computer and four-hand partnership euchre for one player. In BASIC with character graphics.

Blackjack Tutor
$ 39.00 Briley Software

Learn to hit, stand, double, and split efficiently. Full card graphics with 150 key practice scenarios. It assumes 2 decks (not a card counting scheme).

Bridge 4.0
$ 24.95 Artworx Software

Allows you and your computer partner to bid (unlimited) against two computer opponents and play out the hand. The program reviews the bidding, keeps tabs on score and tricks taken and will inform you of an illegal bid.

Cardinal Game Disks
$ 19.95 Cardinal Software

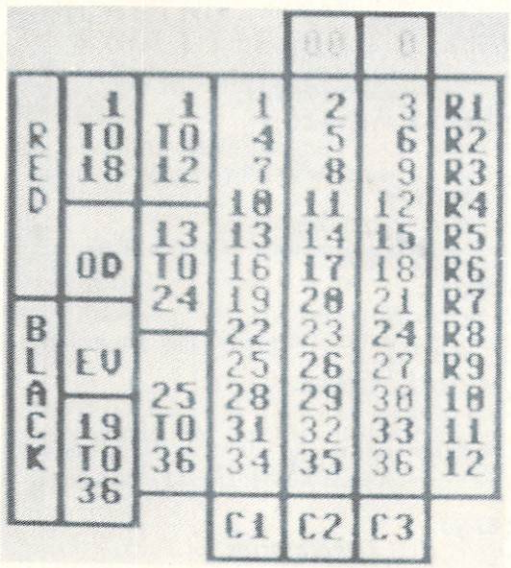
BASIC titles include Mad Libs & Other Fun Games, Puzzles,Learning Can Be Fun, Battle Games, Logic Games. Price quoted is for each disk.

Casino Blackjack
$ 19.95 Dragon Magic Software

Handles up to 6 players and 6 decks of cards and provides a variety of statistical analyses. Unprotected.

Casino Craps
$ 19.95 Casino Software

Simulates various house rules and game variations. Includes Place, Buy, Hardway, Pass, Don't Pass, Odds, Come, Don't Come, and many other options.



Casino Roulette
$ 19.95 Powerline Software

Provides nearly all functions of roulette as played in American and European casinos. Displays roulette board, places chips as bets and displays a roulette wheel with ball spinning. Supports multiple players.

Chessmate
$ 29.95 Cardinal Software

Not a 'computer plays you' program, but a powerful learning tool that allows you to analyze, master, book-games, open, save and print games. 'Chess Movie' mode lets you step through any entered or saved game. Has single stroke commands to memorize any board position and recall it after playing through each variation.

CompuBridge
$ 24.95 Artworx Software

For anyone who wants to improve his bridge game or for someone who has never played before. Based on a popular bridge text and consists of 10 tutorials and 8 computer generated quizzes to aid you in the game.

Computer Scrabble
$ 32.95 Electronic Arts

Classic crossword game with a 12,000 word vocabulary. Four difficulty levels for play against other players or the computer.

Crossword Magic
$ 49.95 MindScape

Create your own crossword puzzles including clues. A unique way to study any language or subject.

Euchre & Gammon
$:na Hutchcraft

Disk includes both Euchre for four players, and a Backgammon game.

Five Weeks to Winning Bridge
$ 39.95 Great Game Products

Computerized version of Alfred Sheinwold's classic book on the game of bridge.

Grand Master Chess
$ 24.95 Artworx Software

Has 10 skill levels to choose from and can serve both as an instructive tutor for beginners and a challenging competitor for the serious player. Has many features like number of moves made, computer's & your last move, dual timer, color and more.

In Search Of...
$ 14.85 Sher-Tek

Word search game with pre-built games, clock, challenging levels and ability to create your own games.

Jeremy Stillman's Guide to...
$ 59.95 Enlightenment

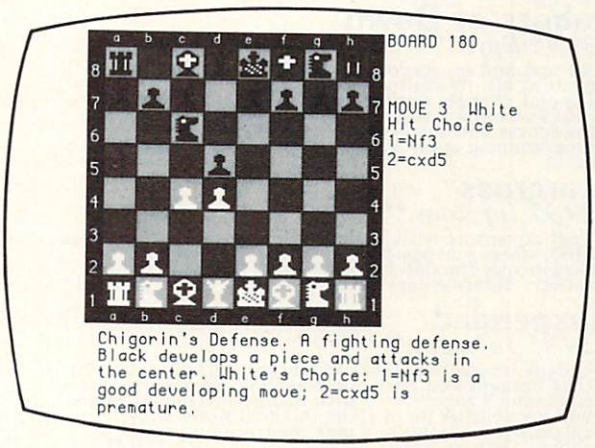
'Jeremy Stillman's Guide to Chess Openings'. Over 60 hours of instruction. Includes the 'Coffeehouse Chess Monster' opponent program.

King's Indian Defense
$ 39.95 Enlightenment

Deep analysis of the popular chess opening. Includes the 'Coffeehouse Chess Monster'.

Najdorf Sicilian Defense
$ 39.95 Enlightenment

Tutorial on the chess defense. Includes the 'Coffeehouse Chess Monster' opponent program.



Paul Whitehead Teaches Chess
$ 59.95 Enlightenment, Inc.

Learn chess from square one. 40+ hours of instruction from how the pieces move to quizzes to test your knowledge. The 'Coffeehouse Chess Monster' opponent program is included gratis.

Pensate
$ 8.95 Polarware/Penguin Software

Original thinking game of evasion.

Play Bridge w/Dorothy Truscot
$ 29.95 Great Game Products

Bridge tutorial by 'declarer play' expert Dorothy Hayden Truscott. covered are queeze plays, safety plays, end plays, and tips on deceptive strategy.

Sargon III
$ 44.95 Hayden

Features 9 levels of play and a library of 68,000 moves. Provides instruction for the novice and brain teasing chess problems for the master.

Strip Poker Data Disk 1-3
$ 19.95 Artworx Software

Additional opponents to be used with 'Strip Poker' master disk by Artworx. Each disk provides 2 additional opponents (disks #1 & #2 are female and #3 has male opponents).

Wurble
$ 14.85 Sher-Tek

Computer board game with editor to allow 100s of rule variations.

Deadline
$ 39.95 Infocom ****

You are the detective solving a murder in this exciting adventure. Very realistic characters with distinct personalities. Expert level. (-B.D.)

Infidel
$ 39.95 Infocom ****

Another Infocom text adventure where you are marooned by your followers in the heart of the Egyptian desert. You have come in search of a great lost pyramid and its untold riches. Kind of a strange offering from Infocom in that there really aren't any odd creatures and you are very much alone. The puzzles are challenging but very solvable. The ending is a real surprise. I liked it. Advanced level.

Leather Goddeses of Phobos
$ 39.95 Infocom ****

This sexy tongue-in-cheek takeoff on raunchy thirties science fiction pulps can be played in three different modes: Tame, Suggestive, or Lewd. Even though it asks if you are over 18 before it will let you play in the Lewd mode, you probably better keep the kids away from this Infocom adventure. (-M.B.)

Robots of Dawn
$ 39.95 Epyx ****

All text and no graphics does not make this a dull game at all. While based on the book by Isaac Asimov, the plot changes somewhat for each game. The color coded screen information makes it easy to distinguish the source and the type of information. Thoughtful programming is evident in the responses to player input. (-B.D.)

Starcross
$ 39.95 Infocom ****

Text adventure with a science fiction theme in the year 2186, where you are destined to rendezvous with a gargantuan starship from the outer fringes of the galaxy. Intermediate level. (-B.D.)

Suspended
$ 39.95 Infocom ****

Unique interactive-prose adventure from the company that brought you Zork and Deadline. In this one you command 6 robots each with distinct personalities and various abilities in an effort to avoid world wide catastrophe. Includes a map for tracking your 6 robots. Expert level. (-B.D.)

Zork I, II, III
$ 39.95 Infocom ****

The Great Underground Empire confronts you with perils and predicaments ranging from the mystical to the macabre, as you strive to discover the Treasures of Zork and escape with them and your life. Zork I ($34.95) is standard level and II & III ($39.95 ea.) are advanced levels. All three are available as a set for $79.95

Amnesia
$ 39.95 Electronic Arts

The first text adventure from EA, written by mystery and science fiction author Thomas M. Disch, has you waking up with amnesia. Your goal is, of course, to discover who you are.

Ballyhoo
$ 39.95 Infocom

Mystery behind the scenes at the circus.

Bible Trip
$ 19.95 Smoky Mountain Software

Adventure game true to New Testament geography. For ages 10 and up.

Breakers
$ 39.95 Broderbund

Broderbund takes an excursion into the realm of text adventures with this one, which puts you into the SF world of Borg. 1500 word vocabulary and real-time play. (-M.B.)

Brimstone/Essex/Mindwheel
$ 39.95 Broderbund

Three individual text adventures (electronic novels), operates in real time.

Cutthroats
$ 39.95 Infocom

This text adventure places you on an out-of-the-way island populated by some disreputable characters. You're a diver for hire and they hire you to recover some sunken treasure. Standard level.

Cyborg
$ 34.95 Sentient Software

Science fiction text adventure with full word input.

Domination
$ 29.00 Quantum Leap

Space adventure for 2 to 6 players simulating the growth and decline of galactic empires in terms of gross economic variables, population, technology, and resource use.

Enchanter
$ 39.95 Infocom

In the Zorkian tradition, you are a beginning magician whom Fate has chosen to do singlehanded combat with a dark and fierce power. Standard level. The whole Enchanter trilogy (Enchanter, Sorceror, and Spell-breaker) is available for $79.95.

Escape
$ 24.95 Infinity Software

Introductory level graphic/text adventure played in real-time. Short playing time.

Expedition Amazon
$ 12.95 Polarware/Penguin Software

Fantasy role playing game into the deep, dark Amazon.

Fur Trapper
$ 10.00 Briley Software

Explore the Rocky Mountains in 1848 with all its danger and lore. On tape.

High Seas
$ 10.00 Briley Software

Sail the Atlantic in 1811 and recover gold, but beware of mutiny! On tape.

Hollywood Hijinx
$:na Infocom

Glitz and kitsch in Hollywoodland. You must find ten treasures in the home of your late Uncle Buddy Burbank (who produced such gems of the silver screen as 'Vampire Penguins') and Aunt Hildegard's mansion in Malibu.

Imagery!
$ 10.00 Dr. Evil Laboratories

Club-type fantasy/role-playing group. The price will get you an adventure called Beneath Mount Imagery, a list of available programs, and a one year membership in the club, which also gets you a quarterly newsletter. If you want to design your own adventure, an Adventure Designer program is another $10.

Moonmist
$ 39.95 Infocom

Murder, ghosts, and mystery in an old castle in this new entry-level Infocom adventure.

Pilgrim's Progress
$ 29.95 Chipmunk Software

Adventure based on Bunyan's 17th century moralistic allegory of the same name.

Planetfall
$ 39.95 Infocom

You are teleported forward in time to a Stellar Patrol ship, where your rank is Ensign 7th Class (the lowest). The ship explodes and you are jettisoned to a deserted and mysterious world, where you must dare its dangers and try to save it. Standard level.

S. Holmes & the Abbey Murders
$ 32.95 Ellicott Creek

The second Sherlock Holmes text-adventure from Ellicott Creek. The action takes place in a monastery in the West of England. People are dying while two powerful landowners struggle for possession of ancient land.

Sorcerer
$ 39.95 Infocom

Another text adventure that poses you with a mystical clue and a magical tour thru the darker side of the Zorkian Empire. Advanced level.

Suspect
$ 39.95 Infocom

This time you are the suspect, and Sgt. Duffy wants you! You must solve the murder to clear your name and do it amidst the activity of masked ball in a mansion. Advanced level.

The Tracer Sanction
$ 29.95 Activision

Adventure based on the sci-fi book.

Witness
$ 39.95 Infocom

Spine-tingler of a blackmail case that turns into murder before your eyes, and anyone from the knockout heiress to the poker-faced Oriental butler could be the killer. Standard level.

Exodus: Ultima III
$ 59.95 Origin Systems *****

As in chess, the game pieces in this are better at some things and poorer at others. You assemble 4 adventurers and then roam a strange, enchanted land. Documentation is mysterious too, providing only bare essentials. You can save games in progress to disk. (-B.D.)

Portal
$ 39.95 Activision *****

You've gone on a space mission and return to a deserted Earth! You discover a computer terminal linked into the barely-functioning worldwide database. You try to piece together what happened. An engrossing, fascinating, & somewhat disturbing program. Like a murder mystery, an expedition, and having amnesia all rolled into one. The graphics are minimal but good, text excellent, & icon interface well done. (-M.B.)

Countdown to Shutdown
$ 29.95 Activision ****+

One of the better offerings from Activision since 'GhostBusters'. Even before you figure out the object of this game, you will enjoy the delightful 3-D graphics effects, well-done animation (with shadows), sound effects, detailed information displays, and fluid gameplay. The object: your androids must prevent a nuclear meltdown. (-B.D.)

Murder on the Mississippi
$ 34.95 Activision ****+

No typing in this all-joystick graphic adventure. Great animation, music, and sound effects, and a good cast of characters involved in a challenging mystery. Good fun--It feels just like 'driving' a cartoon! (-M.B.)

The Bard's Tale
$ 39.95 Electronic Arts ****+

With its 16 mazes, 85 spells, 400k of machine language code and numerous animated sequences, this new entry in to the animated adventure gaming world should be a best seller. Uses the small graphic window for faster play. (-B.D.)

Adventure Creator
$:na Spinnaker ****

A marvelous graphics adventure creation program, that creates a dungeon for children to explore and populates it with strange creatures and wonderful treasures, or lets them create their own. The quests are challenging and non-violent. Another solid winner from Spinnaker. (-M.B.)

Aliens
$ 34.95 Activision ****

Join Ripley and the gang in this version of the hit movie. There are six complete game sequences in Aliens including 'The Drop Ship', 'APC Rescue', 'Operations Room', 'Air Duct Maze', 'Newt Rescue', and 'One on One' (where you are Ripley strapped into the power loader locked in combat with the Queen Alien!) The aliens are creepy & each sequence is well done & plays quite differently from the others. (-B.D.)

Curse of Ra
$ 19.95 Epyx ****

Expansion module for 'Temple of Apshai'. (-B.D.)

Borrowed Time
$ 29.95 Activision ****

A big step forward in the realm of interactive fiction. A small graphics window is super, allowing fast loading of scenes. The parser is both fast & smart, while the text is colorful and full of sly humor. (-B.D.)

Dragon Riders
$ 39.95 Epyx ****

Based on the popular Anne McCaffrey fantasy novels. You are one of the weyr leaders, riding your dragon, fighting the deadly 'thread' and maneuvering thru the delicate politics of the lord holders. Multiple screens and varying activities keep you going. (-B.D.)

Hacker II
$ 34.95 Activision ****

Superior sequel to the original. Hacker II gets very involved with some complex audio-visual equipment and the services of a remote control robot. An engrossing and challenging espionage game with the flavor of the old Mission Impossible shows. The documentation is fun and filled with all kinds of detailed techno-babble, schematics, etc. (-B.D.)

Hacker
$ 29.95 Activision ****

An interesting concept; here's a game that includes no instructions as you 'accidentally' gain access to a high-security mainframe. From there you are left to your own devices and cunning to get to the bottom of whatever is going on! (-B.D.)

Murder by the Dozen
$ 39.95 CBS Software ****

An engrossing collection of detective adventures for one to four players. Assuming your favorite sleuth personas, you will search for clues, question suspects, draw your conclusions and finally announce your solution. Includes clue book and answer book. (-B.D.)

Murder on the Zinderneuf
$ 39.95 Electronic Arts ****

Like starring in a detective novel instead of just reading it. There is a different case to solve each time, and you conduct the investigation your way. 16 passengers and 16 cabin rooms with furninshings. (-B.D.)

Seven Cities of Gold
$ 39.95 Electronic Arts ****

An adventure game of discovering the new world in the late 1400's. Carefully balance your resources between the number of ships, men, supplies and valuables to trade or give the natives. You'll like this one if you like exploring and can negotiate with unpredictable natives. (-B.D.)

Shadowfire
$ 29.95 MindScape ****

A very stylish import with emphasis on graphic gadgetry and special effects. Play is entirely icon controlled with support for lightpen, keyboard, or joysticks. You have 100 minutes of realtime to equip your attack team, beam aboard the captive skyfortress, free the ambassador and locate the secret plans. Movement via the icons gets tiresome after the 1st 20 min., but the displays are great. Unusual. (-B.D.)

Sword of Fargoal
$ 29.95 Epyx ****

The junior version of 'Temple of Apshai', with a simpler command interface for younger or less patient players. (-B.D.)

Telengard
$ 24.95 Avalon Hill ****

A classic graphic underground adventure featuring a reputed 50,000 rooms to explore. A full complement of monsters, characters, weapons, and spells inhabits the world of Telengard. Not as imposing, varied, or impressive as others like Ultima, but inexpensive and colorful. Good manual & reference card and demo mode. (-M.B.)

Temple of Apshai
$ 39.95 Epyx ****

Excellent rendition of the award-winning graphic adventure. Makes good use of the 64's hi-res, sound, and sprites. Surpassing Apple and Atari versions. We liked the elfen text fonts and sprite animation. Additional modules allow extended play. (-B.D.)

The Pawn
$ 44.95 Firebird ****

A unique adventure with pull-down graphic screens and optional cameo pictures. Excellent parser understands a broader range of commands than its predecessors. Though I miss the excellent music of the Amiga version, most of the flavor of the sixteen-bit version is here. Nicely done! (-M.B.)

Upper Reaches of Asphai
$ 19.95 Epyx ****

Expansion module for 'Temple of Apshai'. (-B.D.)

Alcazar: Forgotten Fortress
$ 29.95 Activision ***+

Interesting graphic variation of the ubiquitous dungeon adventure. You must collect and properly use the right objects and weapons in order to overcome your various adversaries and complete your quest. On-screen map and large over-view map. (-B.D.)

Standing Stones, The
$ 39.95 Electronic Arts ***+

Not up to EA's usual quality, the screens consist of the standard hallway labyrinth drawn with straight, converging lines and creatures drawn with character graphics. Looks like most of the effort went into packaging, the title screen and translations into Old English ('Canst thou toggleth?'). (-B.D.)

Tass Times In Tonetown
$ 34.95 Activision ***+

In Tonetown all the rules change and to be successful you have to be totally tass. A truly bizarre adventure. 'New Wave' types will feel most at home with this adventure. I have to admit it left me pretty bewildered. (-M.B.)

The Hobbit
$:na Addison-Wesley ***+

J.R. Tolkien's famous book brought to electronic life. The graphics (which may be turned off, for speed) are pleasant but no show stoppers. The nice touch is that your input lines appear in a separate area so you can always see what you last typed regardless of responses. (-B.D.)

Moebius
$ 39.95 Electronic Arts ***

This ambitious game takes up both sides of two disks. Many sequences are involved in the gameplay, from karate and swordfights to graphic adventuring. Unfortunately it suffers heavily from Apple conversionitis, with blocky graphics, jerky animation, and clumsy user interface. If you can get past the look, it has a decent storyline and the action is challenging. (-M.B.)

The Bard's Tale II
$ 39.95 Electronic Arts ,

'The Destiny Knight' is the continuation of EA's popular role-playing fantasy. 50% larger code size over the original, with more advanced combat and magic systems. The Destiny Wand has been stolen and broken into seven pieces. You have to lead a band of adventurers to retrieve the fragments and restore peace to the realm. (-B.D.)

Ultima IV
$ 59.95 Origin Systems ,

'The Quest of the Avatar', fourth and most advanced of the Ultima series.

221B Baker St.
$ 29.95 Datasoft

Become Holmes, solving one of 30 different cases. Add-on disks, each containing 30 more cases, are $14.95/ea.

Accolade's Comics
$ 39.95 Accolade

A three-disk set that is basically an onscreen comic book with eight arcade sequences included. You are a spy named Steve Keene out to save the free world. The user directs the plot, which can make the outcome different each time it's played.

Age of Adventure
$:na Electronic Arts

Two illustrated adventures, The Return of Heracles, and Ali Baba and the Forty Thieves. In each, you control a party of adventurers.

Alternate Reality
$ 39.95 Datasoft

Role playing adventure game, as you try to survive in an alien environment.

Amazon
$ 32.95 Spinnaker

Journey into the dangerous Amazon in this Telarium adaptation of the Michael Crichton novel.

Autoduel
$ 49.95 Electronic Arts

Roleplaying game with arcade action elements. Based on the Car Wars board game.

Beyond the Forbidden Forest
$ 19.95 Cosmi

Graphic adventure in 'Omnidimension 4-D', whatever that is.

Castles of Doctor Creep
$ 29.95 Broderbund

Over 200 rooms in thirteen different castles. Has a two-player option.

Choose Your Own Adventure
$ 24.95 Bantam Books

Computer adventure games gave rise to choose-your-adventure books, and now Bantam's line of books has completed the circle by inspiring this software series. Titles include Escape and Cave of Time.

Datasoft Games
$:na Datasoft

British imports include 'Tobruk', 'Bismarck', 'Swords & Sorcery', 'Saracen', and 'Black Magic'.

Destiny
$:na Software Investments Plus

Graphic adventure with a kings and warriors theme.

Dolphins Rune
$ 29.95 MindScape

Takes you into a mystical colorful underwater world with the object to find hieroglyphics hidden in the sea, that may be linked together creating a poem that reveals the secret to ancient dolphin lore.

Dragonworld
$ 32.95 Spinnaker

The Last Dragon's been kidnapped and you must save it.

FairLight
$ 29.95 MindScape

Seek the Book of Light in this 3D graphic adventure.

Fellowship of the Ring
$:na Addison-Wesley

The first volume of 'The Lord of the Rings' made into an adventure game. It's a follow-up to A-W's 'The Hobbit'.

Frankie Goes to Hollywood
$:na Firebird

You seek the Pleasure Dome in this rock-band inspired off-beat adventure.

Gateway to Apshai
$ 29.95 Epyx

Sequel to 'Temple of Apshai'.

Goonies
$ 29.95 Datasoft

Based on the hit Spielberg movie. Lets you relive the thrills and dangers of the big screen as the Goonies kids go after the pirate treasure while trying to unscramble the tricks of each screen.

Great British Software
$ 29.95 MindScape

Collection of three British games includes Brian Bloodaxe, Revelation, and Quo Vadis.

Gunslinger
$ 29.95 Datasoft

A wild west text/graphics adventure. You've got big trouble with the Dalton gang...

Heart of Africa
$ 32.95 Electronic Arts

The sequel to EA's 'Seven Cities of Gold' adventure.

Howard the Duck
$ 34.95 Activision

Subtitled 'Adventure on Volcano Island'. Adventure game based on the movie.

Intrigue!
$ 40.00 Kinemation

Graphics and text adventure that uses multiple choice questions instead of a parser.

Killed Until Dead
$ 29.95 Accolade

Multi-plot murder mystery in which 'Hercule Holmes' tries to prevent a murder rather than trying to solve one that has already been committed. If he (you) fails he's the next victim.

Labyrinth
$ 34.95 Activision

Animated graphic adventure based on the amazing George Lucas/Jim Henson movie of the same name.

Law of the West
$ 29.95 Accolade

Old west interactive adventure with Wyatt Earp and all the rest of the gang from the Old West.

Macbeth
$ 25.00 Avalon Hill

Four separate text adventures, two of which have graphics, delve into Shakespeare's play.

Mansion!/Museum!/Pentagon!
$ 10.00 Briley Software

Three detective programs available separately, each with different locations, but with similar plots, where you must determine 'who did it'. On tape.

Mask of the Sun
$ 39.95 Broderbund

You are Mac Steele, intrepid archaeologist in search of legendary Aztec treasure.

Masquerade
$ 35.00 American Eagle

Puzzle-filled mystery adventure pits you against a crafty criminal.

Maxwell Manor
$ 28.00 Avalon Hill

A murder mystery that takes place in a haunted mansion. 1,000 play variations.

Mindshadow
$ 29.95 Activision

An adventure which starts you out as an amnesiac stranded on a island. Your main challenge is to discover your own identity, who did it to you and why.

NeverEnding Story
$ 29.95 Datasoft

Graphics and text adventure based on the book and movie of the same name. Venture into Fantasia and try to save the Princess. Ages 10 and up.

Nine Princes in Amber
$ 32.95 Spinnaker

Game of negotiation, politics, and alliances, in the far future. Adapted from the Roger Zelazny novel.

Ninja
$ 59.95 Origin Systems

Fantasy role playing game set in mythical oriental land. Travel through the elemental planes of earth, water, air, and fire, in search of the warlord. Hand to hand Karate style fighting and sword play.

Oo-Topos
$ 17.95 Polarware/Penguin Software

Adventure on the planet Oo-Topos.

Perry Mason: Mandarin Murder
$ 32.95 Spinnaker

You get to be THE man himself on a murder case.

PSI 5 Trading Co.
$ 29.95 Accolade

Pronounced 'sci-five'. In this one you are a 35th century spaceship captain. You must assemble your crew and undertake a dangerous mission.

Quest
$:na Polarware/Penguin Software

A quest to rid the kingdom of a vengeful dragon.

Riddle of the Redstone
$:na Software Investments Plus

Graphic adventure where you must search for a multi-million dollar estate deed.

Serpent's Star
$ 39.95 Broderbund

Mac Steele, the daring archaeologist from 'The Mask of the Sun' is back in a new adventure.

Shard of Spring
$ 39.95 Strategic Simulations

Multi-player fantasy/role-playing adventure where you assemble a band of adventurers to go on a quest to recover the stolen Shard from the evil sorceress Siriadne and restore springtime to the people.

Sherlock Holmes / Another Bow
$ 40.00 Bantam Books

You are Sherlock Holmes and must solve five related cases while you are aboard an ocean liner.

Spelunker
$ 29.95 Broderbund

Explore an enormous cavern and try to survive.

Spinnaker Windham Classics
$ 26.95 Spinnaker

Various graphic adventures: Treasure Island, Alice in Wonderland, Wizard of Oz, Swiss Family Robinson, and Below the Root.

Sword of Kadash
$ 17.95 Polarware/Penguin Software

Explore a dragon's castle to find the magical Sword of Kadash.

Swords & Sorcery
$ 29.95 Datasoft

Fantasy/role-playing pilgrimage to solve the mystery of the Prayer of the Seekers.

The Coveted Mirror
$ 17.95 Polarware/Penguin Software

Beat the evil King Voar in a quest for a magic mirror.

The Crimson Crown
$ 17.95 Polarware/Penguin Software

A sequel to 'Transylvania'.

The Dungeon
$:na Datasoft

A new adventure from Datasoft's Alternate Reality series.

The Fourth Protocol
$ 34.95 Bantam Books

Adapted from the best-selling novel by Frederick Forsyth, this game was released at the same time as the novel, a first.

Titanic: The Recovery Mission
$ 29.95 Activision

Your mission is to explore the Titanic and ultimately raise her.

Transylvania
$ 17.95 Polarware/Penguin Software

Search all of Transylvania to find and rescue the princess.

Wrath of Denethenor
$ 19.95 Electronic Arts

You are a 'scoundrel explorer out to pillage the war-torn countryside of Deladain.' Role-playing fantasy where you do battle with the evil Lord Denethenor.

Xyphus
$ 17.95 Polarware/Penguin Software

Fantasy role playing game with 6 scenarios and four player independent movement.

F-15 Strike Eagle
$ 34.95 MicroProse Software *****

A captivating game experience flying a fighter bomber. Not as finicky and crash prone as some flight simulators (this plane is considered landed by just coming close to your base). The real action and pleasure of this game is combat flying, bombing, and dogfighting. The cockpit is detailed and the action is convincing. Four skill levels. (-B.D.)

Flight Simulator II
$ 49.95 Sublogic *****

Hi-res real-time color animated flight simulator with practice takeoffs, landings & aerobatics in your Piper 181 Cherokee Archer or fly into WWI dogfight. Includes 80 airports (NY, Chicago, Seattle & LA), adjustable weather conditions, complete instrumentation and documentation. (-B.D.)

Gunship
$ 34.95 MicroProse Software *****

Almost 2 years after I first heard of Gunship, the product shipped. Worth the wait? You bet! It is without qualification the best combat flight simulation ever released for 8-bit computers. WOW! Solid-modelled terrain graphics, incredible weapons, good sound effects, & convincing physics. Smooth & easy to learn without sacrificing realism. The manual is also a masterpiece. PRIME! (-B.D.)

Project Space Station
$:na HesWare *****

Impressive simulation of a space station construction project and probably one of the most ambitious programs ever developed for the C64. You control all aspects: budget, hiring crews, shuttle launch schedules and running experiments upon completion. More than a game! (-M.B.)

Fast Tracks
$ 29.95 Activision ****+

A knock-out slot-car simulation. (-B.D.)

Hardball
$ 29.95 Accolade ****+

Easily the best baseball simulation we have seen to date. The most striking feature of this game is the graphics: 3-D perspective view from several angles angles gives the look and feel of watching on TV. You have total control of players and managers. Full of nice effects like the sound of the the ball when you connect and the uniforms even get dirty! (-B.D.)

Jet
$ 44.95 Sublogic ****+

This one's got it all: speed, detail, smooth real-time animated graphics. Super! Fly an F-16 over land, or the Navy's F-18 over sea. Note: most reviewers were surprisingly cool in their reception of JET. The common complaint seemed to be over the lack of little dials & guages (silly, since modern fighters use heads-up displays such as the one well-simulated in JET!) If you want dials, fly Flight-Simulator! (-B.D.)

Leader Board
$ 39.95 Access Software ****+

The best 8-bit golf simulation we've seen. First rate graphics, sound and playablity. Highly recommended. (-B.D.)

Lords of Conquest
$ 29.95 Electronic Arts ****+

If you like the board game 'Risk', you will love this one, but it adds sea transport, weapons & resource management, trading, variable chance levels and more. (-B.D.)

Paradroid
$:na Educational Systems ****+

The scenario: A galactic space freighter loaded with robots has become a derelict in space and her robots have gone berserk. You must destroy them and regain control of the ship. Layout has 20 decks of smooth-scrolling hires playfield--over 400 screens in all. Combines arcade action with graphic adventure play and even includes logic/shootout mini-game that's lots of fun itself. Among Britain's best! (-M.B.)

Space Shuttle
$ 29.95 Activision ****+

Highly accurate flight simulator puts you in control of the space shuttle. So good that the playtesters at Activision discovered a new emergency landing procedure that NASA now uses in training astronauts! (-B.D.)

Summer Games II
$ 39.95 Epyx ****+

The sequel to SG I with 8 new events: cycling, fencing, kayaking, triple jumping, rowing, high jumping, javelin throwing and equestrian. Well-done with exceptional realism as well as EPYX's usual top-notch input and control routines. (-B.D.)

Ultimate Life
$ 24.95 Steve Cohen ****+

Menu-driven, simultaneous dual resolution, full control of game rules, printer and disk macro control, hires drawing package built-in and contextual help screens. The Ultimate game of Life for the C64, almost as fast as some sixteen-bit computer versions. Playing with the rules is a real kick. Formerly from Jenday, now available direct from the author. If you're a math/computer/games fanatic, You Need This Game! (-M.B.)

Winter Games
$ 29.95 Epyx ****+

For all you fans of Summer Games I & II, now there is Winter Games. Compete in bobsledding (great graphics), ski jump, figure skating, free-style skating, hot-dog aerials and the biathlon. Like the others, you have a choice of countries to represent and the opening ceremonies. Sports simulation at its best! (-B.D.)

Acro Jet
$ 34.95 MicroProse Software ****

Allows those pilots who have soloed in Solo Flight to now pilot their own personal jet, the BD5-J. You can then participate in a Decathlon of Sport Aviation events, including spot landings, ribbon cuts, acrobatics, and more. High performance flying, including rolls, loops, Immelmanns all in 3-D. (-B.D.)

Combat Leader
$ 14.95 Strategic Simulations ***+

Scrolling hi-res battlefield shows trees, rocks, topography & enemy armor. Command your 5 tanks together or individually, deploy foot troops, send commands via radio (on-screen command line). Design your own scenarios, simple or very elaborate. Now a part of 'SSI Classics' series. (-B.D.)

Crusade in Europe
$ 34.95 MicroProse Software ****

From D-day to the Battle of the Bulge, you will have the chance to replay the hands dealt by history in this real-time strategic war-game simulation. A large scrolling map shows terrain and troops with your choice of symbolic or pictorial game pieces. Very easy to start playing, but amply complex for crustier war-gamers. Sound effects and graphics are just right. (-B.D.)

Hole in One Golf +6
$ 14.95 Artworx Software ****

An enjoyable 18-hole game with a course construction set, too. Pick your club, andgle, swing force, time slice, and hook. A real sleeper. Great value. Latest version includes six additional courses for $5 less! (-B.D.)

International Hockey
$ 24.95 Artworx Software ****

Sequel to 'Slapshot Hockey' with speech synthesis, 1 or 2 player action, and 3 levels of play. Hockey fans should really enjoy this battle on ice. Smooth screen scrolling with good animation, body checks and even fights break out on the rink. (-B.D.)

International Soccer
$ 24.95 Commodore ****

One of Commodore's best game efforts for the 64. One of this game's impressive features is the smooth, natural way that control passes from player to player without the conscious effort and awkward joystick manipulation required by most team sport simulations. Great graphics, fast action, 9 skill levels, and fun to play. (-B.D.)

Jet Combat Simulator
$ 29.95 Epyx ****

1 of 2 very good simulations based on the F-15 fighter, this seems to fly more realistically, especially take-offs and landings. Four sperate modes enable you to progress from landing practice to air-to-air combat. (-B.D.)

Kennedy Approach
$ 34.95 MicroProse Software ****

Best (and only) air traffic controller. Sports several advanced and unique features that help make it work (good quality speech synthesis and visual indication of altitude for planes, gives you 3-d visual info on a 2-d game grid). If you aren't getting enough tension in your life, this should help. (-B.D.)

M.U.L.E.
$ 39.95 Electronic Arts ****

This is a charming game with something for everyone (for 0 to 4 players). It's sort of an off-planet monopoly game with plenty of horse-trading, back-stabbing, lucky breaks, disasters, and just enough comic relief. (-B.D.)

On-Court Tennis
$ 29.95 Gamestar ****

Like their other sports simulations, Gamestar's tennis game features good animation with convincing 3-dimensional effect, including shadowing and foreshortening. 1 or 2 players, choice of surfaces (clay, grass, etc.), choice of character (Bjorn, Jimmy, etc.) and a surprising amount of joystick control (drop shots, etc.). This captures much of the real flavor of real tennis. (-B.D.)

On-Field Football
$ 29.95 Gamestar ****

Rounds out the Gamestar series of animated action sports titles. While this version of the great Sunday obsession sends only 6 warriors per team into the skirmish, the action is well-done. Scrolling allows full field play, for 1 or 2 players. (-B.D.)

One on One
$ 39.95 Electronic Arts ****

1 or 2 players may switch personalities with Dr. J or Larry Bird. All elements of the game have been included through excellent programming: dribbling, shooting, rebounding, stealing, blocking, 180-degree spins & slam dunks (easy on the backboard...its breakable). Referee calls the fouls, janitor sweeps up broken backboards, and instant replays on good moves. (-B.D.)

Silent Service
$ 34.95 MicroProse Software ****

A submarine simulation of WWII submarine combat in the Pacific. Features multi-sub locatjons including engine room, and ship's bridge. Detail, depth, and graphics are all unmistakably Microprose. (-B.D.)

Sonar Search
$ 30.00 Signal Computer Consultants ****

A good sub game is hard to create and this one is good! As the commander of a trio of destroyers, you get that eerie feeling when you know they are out there, but the sonar signal is not returning. Separate screen for each ship and more than one sub to find, this is the battle of the bilge! (-B.D.)

Star League Baseball
$ 29.95 Gamestar ****

The players are small and some what sketchy, yet very realistic in their motions. Wind ups, pitches, steal, bunt etc. Joystick control sequences are natural to learn, on screen score, count & inning. Batting practice options helps your batting average. The sound is well done also. (-B.D.)

Summer Games I
$ 39.95 Epyx ****

The element of strategy is incorporated into 4 of the 8 events in a limited way: energy meter paces runner, harder gymnastic routines earn high points, etc. There is some wiggling and joy-button tapping used to propel athletes. Includes: running, swimming, diving, gymnastics and skeet shooting. (-B.D.)

Touchdown Football
$ 29.95 Electronic Arts ****

Imagic's version of football thats easy to play and has good action. (-B.D.)

Train Dispatcher
$ 25.00 Signal Computer Consultants ****

No flashy graphics, just an accurate simulation of a day in the life of a train dispatcher. You contend with train crew schedules, track maintainence, and transmit train orders to try and keep the trains rolling over 150 miles of track without a hitch for your full 8 hour shift. (-M.B.)

World's Greatest Football
$ 35.00 Epyx ****

I'm not sure about 'Greatest' but it's pretty good. There are tons of plays to choose from (and a playbook) and several nice effects like windows and scrolling playfield. Player control is a bit tricky getting the hang of, and even with pointers and icons. (-B.D.)

Ace
$ 19.95 Spinnaker ***+

A cross between 'F15 Strike Eagle' and 'Jet Combat Simulator', but not as good as either. A few nice touches tho, like mid-air refueling and speech. (-B.D.)

Battle Command
$ 20.00 Applied Computer Consultants ***+

This game is living proof that you don't have to be a giant company to produce a good game. A fun, easy-to-learn battle simulation with limited graphics & sound, it is reminiscent of Battleship or Stratego, but more complex. You wage war with tanks, artillerry, infantry, etc. The main attraction though, is its 2-player-via-modem mode, which lets you play all night via the phonelines. What fun! (-M.B.)

Dam Busters
$ 29.95 Accolade ***+

A multi-view screen combat simulation, where you are the pilot, navigator, gunner and bombardier of a 1943 vintage British Lancaster bomber. This simulation is certified by the Royal Air Force and actually recreates an historical event; the mission against 3 Nazi dams in the Ruhr Valley. Lacks depth and variability, but has better than average graphics and play features. (-B.D.)

Europe Ablaze
$ 34.95 Electronic Arts ***+

As close as you'll get to military board games without the board. Requires a considerable amount of time, as you control the air over Europe during the 1940s. (-B.D.)

Fight Night
$ 29.95 Accolade ***+

Build boxers from the ground up and let them go at it. Fighting and movement are pretty good. (-B.D.)

Legionnaire
$ 30.00 Avalon Hill ***+

A strategic war-game simulation which puts you out in the field as Julius Caesar with nothing but blood-thirsty barbarians from horizon to horizon. The sound effects of tramping boots may make you chuckle. Pretty good game controls and scrolling battle field. (-B.D.)

Locomotive Switcher
$ 30.00 Signal Computer Consultants ***+

Uses high resolution graphics and sophisticated sounds to simulate railroad switching operations in an industrial area. There are 2 modes of operation, flat yard and hump. High scores can be achieved in both modes by minimizing moves and damage, and maximizing efficiency. (-M.B.)

Ogre
$ 40.00 Origin Systems ***+

Ogre is a cybernetic tank with more armor and armament than your standard army division. You defend your command post against one of these juggernauts with standard armor & infantry. You can play a 2-human version, but the real fun is against the computer. The rules are easier than most simulations and the graphics and sound are limited, but the pull-down menus and joystick interface make play easy. Very nice. (-M.B.)

Pool-64
$ 34.95 Abacus Software ***+

Pretty nice pool simulation, aims & shoots with keyboard and realistic physics. (-B.D.)

Solo Flight
$ 34.95 MicroProse Software ***+

Great looking real-time light airplane simulation. 3-D terrain graphics, multiple airports, varying conditions, full instrumentation, air-mail game, VFR & IFR flying. (-B.D.)

Star Rank Boxing
$ 29.95 Gamestar ***+

Good fun for boxing fans: this animated fight simulation puts you in the ring against a friend or a computer-coached fighter. You build your boxer first by selecting a number of attributes (race, fighting style, attitude, image, agility, stamina, etc.) (-B.D.)

Super Huey
$ 19.95 Cosmi ***+

Simulation of a Bell UH-1 (Huey) Helicoptor. Operation is convincing, the instrumentation and detail are good, and the manual is fine, but the one real weak spot is the landscape graphics. Super Huey II is also available ($19.95) with six new adventures. (-B.D.)

Tenth Frame
$ 39.95 Access Software ***+

Bowling simulation with 3D animation, up to 8 players. The controls lack the finesse of Access' much better golf simulation, Leader Board. (-M.B.)

World's Greatest Baseball
$ 34.95 Epyx ***+

The statistical game plays any of 75 teams form the 84 and 85 seasons, against another, where you are the manager, and player performance is based on actual records. Playing is a let down, player motions and ball movement is unrealistic and imprecise. Balls and strikes are not apparent to the viewer. (-B.D.)

Golden Oldies
$ 30.00 Electronic Arts ***

Collection includes Pong, Life, Adventure, and Eliza. These are available in the public domain in versions as good as the ones on this disk. (-M.B.)

IFR (Flight Simulator)
$ 29.95 Academy Software ***

This flight simulator, while lacking a terrain view, is detailed functionally with apparently accurate instrumentation and responses (I'm no pilot so how would I know?). You get rated for your performance landing at various airports (make sure the landing gear is down!). (-B.D.)

The Railroad Works
$ 29.95 CBS Software ***

Always wanted an electric train set-up, but have no $s? Well this comes as close as you can without going to a hobby shop. Choose between modern and old-fashioned trains. Design your own layouts or select from many pre-fab layouts on the disk. (-B.D.)

Gato
$ 29.95 Spectrum Holobyte Inc. **+

Suffers from 'Apple-Mac conversion-itis'. Bad color combinations and lack of imagination ruin it. (-B.D.)

On-Track Racing
$ 29.95 Activision **+

On-Tracking Racing seems to be from another company (or an earlier period of software history). A few laughs at first as the 2 tiny cars jitter uncontrollably aroung the course, but the poor control design soon turns to plain annoyance. The fact that you can choose drivers or transmission does little to salvage this retread. (-B.D.)

3 in 1 Football
$ 39.99 Lance Haffner Games

Stat-based football simulation. The player chooses the teams and players based on past statistics.

Ace of Aces
$ 29.95 Accolade

Fly missions over Europe in the RAF's Mosquito fighter/bomber. Enjoy the view out the bomb-bay doors!

America's Cup
$ 24.95 Electronic Arts

Joystick driven simulation of the 1987 Perth America's Cup yacht race.

American Challenge
$ 29.95 Mindscape

Sailing simulation. Race against the computer, another player, or you can play via modem.

Avalon Hill Games
$:na Avalon Hill

Avalon Hill offers a complete line of historical wargames, ranging from Legionnaire (Roman times) to Jupiter Mission 1999.

B-1 Nuclear Bomber
$ 16.00 Avalon Hill

Fly the B1; drop a load of nuclear death on the USSR.

Baron
$ 29.95 Blue Chip Software

Speculate in real estate to make your million in this simulation. You start with $35,000 and have 60 game-months to make it big or wind up in the poor house.

Baseball
$ 49.95 Sublogic

Joystick-controlled full-team action baseball simulation. Player stats from 1985 season, along with eight classic teams of the past, determine actual play. An additional Stadium Disk is available for $19.95

Battle of Antietam
$ 49.95 Strategic Simulations

Simulation of the bloody Civil War battle.

Battle of Chickamauga
$ 39.95 Electronic Arts

Scrolling map battlefield simulation of the Civil War battle. 3 difficulty levels against another player or the computer.

Battlecruiser
$ 59.95 Strategic Simulations

Naval simulation with scenarios from both WWI and WWII.

Battlefront
$ 39.95 Electronic Arts

'Corp Level Command in World War II'. The player can take command at Crete 1941, Stalingrad 1942, or Bastogne 1944.

Battlegroup
$ 59.95 Strategic Simulations

Sequel to 'Kampfgruppe'.

Bismarck-The North Sea Chase
$ 34.95 Datasoft

You command the battleship Bismarck against the British navy. Variable difficulty levels.

CCI Subwar 64
$ 19.95 Clockwork Computers

Classic simulation that puts you in complete control of a modern nuclear powered submarine. Your mission is to sail from port, dive, attack, sink surface ships, survive attacks, use sonar and ballast, all in real time. Training program and detailed operators guide included.

Championship Baseball '86
$:na Gamestar

A baseball simulation based on teams from the 1986 pro teams.

Computer Baseball
$ 14.95 Strategic Simulations

Detailed play based on actual teams or player-created ideal teams. Also available (at $15.00) are Data Disks of past teams. Made a part of 'SSI Classics' in the fall of '86 at a reduced price.

Computer Stocks & Bonds
$ 25.00 Avalon Hill

Boardgame adaptation of what used to be a 3M game. Avalon Hill also has a related game called Market Forces.

Dam
$ 20.22 Greenwood Software

Real time simulation of a hydro-electric dam.

Destroyer
$:na Epyx

You are the captain of a Fletcher-class destroyer and it's sink or be sunk.

Destroyer Escort
$:na MicroProse Software

This game puts you on the other side of MicroProse's Silent Service. This time you are subhunting as the commander of a WWII destroyer.

Drag Race Eliminator
$ 24.95 Family Software

Simulation of a day at the drag races.

Dreadnoughts
$ 30.00 Avalon Hill

A wargame that takes place in the North Atlantic during WWII. It has a roster of 44 British, German, French, and American ships that sailed and fought in the Atlantic during the period.

Final Four College Basketball
$ 39.99 Lance Haffner Games

Stat-based basketball simulation. No graphics.

Financial Time Machine
$ 34.95 Insight

An historically based financial simulation. The player picks a year anytime between 1930 and 1984 to build a stock portfolio. Then various jump routines allow tracking of the investments over the years.

Football
$ 39.95 Sublogic

Joystick-controlled full-team action football simulation. Allows player substitutions, individualized player strengths & weaknesses.

Full Count Baseball
$ 39.99 Lance Haffner Games

Stat-based baseball simulation. Includes all 26 teams from the most recent season and 52 past teams. Complete boxscore to screen or printer after each game. You can make up your own teams or use the ones provided.

GBA Championship Basketball
$ 34.95 Gamestar

Two-on-two basketball simulation.

Gettysburg: The Turning Point
$ 59.95 Strategic Simulations

Take either side, against a human or computer opponent in the pivotal Civil War battle. Uses the same gaming system as its prececessor, the Battle of Antietam.

GFL Championship Football
$ 34.95 Activision

Scrolling animation with 34 offensive plays and 12 defensive plays. Sound effects include 'the quarterback counting at the line of scrimmage and the pounding of cleats.'

Guderian
$ 30.00 Avalon Hill

General Heinz Guderian drives the Nazi army deep into Russia, trying to capture Moscow.

Gulf Strike
$ 30.00 Avalon Hill

A wargame in the Persian Gulf. Pits the US and its European allies and Iran (???) against the Soviet Union and Iraq for the invasion of Afghanistan.

Halley Project
*$ 39.95 MindScape **+*

A very dull introduction to the solar system. The concept is good (to teach basic facts about the solar system), but the graphics are so bad, and the interest factors so limited that the most engaging apsect of this product is the packaging. Fortunately, MindScape has come a long way since the Halley Project. (-B.D.)

Hellcat Ace
$ 29.95 MicroProse Software

3-D combat flying simulation.

High Roller
$ 29.95 Mindscape

Flight simulation shoot-em-up using the British Harrier jet, which is capable of vertical takeoff and landing.

Iwo Jima - 1945
$ 19.95 Firebird

Simulation of the WWII battle in the Pacific. The player controls the U.S. Marines and the computer is the Japanese. The other side of the flippy disk contains 'Falklands 82'.

Leader Board/Famous Courses
$ 19.95 Access

Adjunct to Access' Leader Board golf simulation, this is a disk containing two actual golf courses, Augusta and Pinehurst. The Leader Board game is required.

Management Decision
$ 25.00 Infinity Software

Educational simulation that tests the player's ability to develop and operate a new company. Over the next 18 months, you will be the president and in the position to guide your company to profit and success or lose your shirt. Regardless of the outcome, you will come to understand the relationships and trade-offs to make a profit.

Microbroker
$ 34.95 Cardinal Software

Stock market simulation, which supports up to 6 investors. Teaches players to invest based on their net worth and credit rating. Help screens for: news release, financial consultant, stock record displays and the investor's portfolio.

Microleague Baseball
$:na Micro League Sports Assoc.

You manage AL and NL teams. Uses real players and stats, both past and present.

Millionaire
$ 29.95 Blue Chip Software

You begin with $10,000 at the Novice level and try to make it rich over a period of 77 weeks in this stock market simulation.

NATO Commander
$ 34.95 MicroProse Software

On-screen scrolling European war map, real time, five senarios & news service updates. You command the infantry, mechanized armor, and helicopters.

Operation Whirlwind
$ 39.95 Broderbund

You are a battalion commander trying to take a city.

PHM Pegasus
$ 34.95 Electronic Arts

PHM stands for 'Patrol Hydrofoil Misslecraft'. You are in charge of a high-speed hydrofoil boat out to combat terrorism. Includes 8 missions based on current events.

Reach for the Stars
$:na Electronic Arts

Board/computer game of extreme depth. Trade, transport, and battle your way to the conquest of the galaxy.

Ringside Seat
$ 39.95 Strategic Simulations

Semi-animated boxing simulation, arrange the match-ups of the century and see who would have won.

Roadwar 2000
$ 39.95 Strategic Simulations

A survival game set in the post-nuclear war age. Surviving depends on your vehicle and what equipment you think is most useful.

Run for the Money
$ 39.95 Scarborough Systems

Based on economic models by an MIT professor, this is a game for two players. You crash-land your spaceship on the planet Simian and must start a business to make enough money to get your ship repaired.

Russia -Great War in the East
$:na Electronic Arts

WWII simulation, 1941-1945 from the Black Sea to the arctic circle.

Six Gun Shootout
$ 39.95 Strategic Simulations

Old west simulation with 10 fictional or historically accurate scenarios. You have a choice of 18 different weapons for man-to-man combat.

Spitfire 40
$ 35.00 Avalon Hill

Fly a simulation of WWII Mark I Supermarine Spitfire, historically accurate right down to fuel pump problems!

SSI Classics
$ 14.95 Strategic Simulations

A variety of previously released SSI titles at reduced price. Each one is $14.95. Titles include: Combat Leader, Computer Baseball, Computer Bismarck, Eagles, Cytron Masters, Fortress, Galactic gladiators, Gemstone Warrior, and Warp Factor.

Star Fleet 1
$:na Electronic Arts

Defend the Alliance (read Federation) from the evil Krellan (read Klingon) and Zaldron (read Romulan) Empires.

Star Trek
$ 32.95 Simon & Schuster

There are two games in the series: The Kobayashi Alternative and The Promethean Prophecy. In both, you take the role of Captain Kirk and command the SS Enterprise.

Street Baseball
$:na Epyx

You've seen the pro league simulations; well, this is the opposite end of the spectrum. This game is the sand-lot version in which the players are neighborhood kids with their own peculiarities. One might even pick up the ball and bat and go home.

Super Bowl Sunday
$ 35.00 Avalon Hill

A realistic football simulation which puts you in control of everything in 10 AFC/NFC match ups.

Super Dispatcher
$ 35.00 Signal Computer Consultants

Railroad simulation where you are the Dispatcher and are responsible for routing and scheduling up to 60 trains.

Survival
$ 25.00 Infinity Software

2-player game which combines the strategy of Chess with the challenge of war-gaming.

Theatre Europe
$ 34.95 Datasoft

The first 30 days of a war in Europe between the Warsaw Pact and NATO.

ThunderChopper
$ 29.95 Action Soft

Attack helicopter simulation based on technology licensed from SubLOGIC.

Tobruk - The Clash of Armour
$ 34.95 Datasoft

Rommel (you) vs. the British (the computer) in WWII North Afrika.

Two-On-Two Basketball
$ 34.95 Activision

This basketball simulation includes two-player moves like passing and blocking.

Tycoon
$ 29.95 Blue Chip Software

Try to make your fortune in this simulation of the commodities market. Trade in gold, oil, foreign currencies or agricultural products.

Uchi Mata
$ 29.95 Mindscape

Martial arts simulation.

Up Periscope!
$ 29.95 Action Soft

WWII submarine simulation using technology licensed from SubLOGIC.

War in the South Pacific
$ 59.95 Strategic Simulations

Three scenarios from WWII: Battle of the Coral Sea, the Invasion of Guadalcanal by the US, and the Japanese counterattack on Guadalcanal in 1942.

Wargame Construction Set
$ 29.95 Strategic Simulations

Design your own battle simulations.

Warship
$ 59.95 Strategic Simulations

The naval war in the Pacific, 1941-45.

Wingman / Mig Alley Ace
$ 34.95 MicroProse Software

Player vs player, head to head, split screen 3-D combat flying simulations.

Wizard's Crown
$ 39.95 Strategic Simulations

Fantasy/role-playing with a map display. Battles can be resolved either by the computer or by the player.

X-15 Alpha Mission
$ 29.95 Absolute Entertainment

A group of terrorists have a fully armed space station and are holding the U.S. hostage. Your mission is to destroy the space station with your X-15 3-D flight simulator.

64 EDU-GAMES

Chipwits
$ 39.95 Epyx *****

A fantastic program that is as educational as it is entertaining. Using the pull-down menus, you choose one of 16 Chipwit robots and program it to solve one of the 8 varying-difficulty adventures. Programming is done with pictures and can be rather elaborate. (-B.D.)

Where...is Carmen Sandiego
$ 34.95 Broderbund ****+

You must outwit Carmen's gang of international thieves to recover stolen treasures. Your clues are in the (included) World Almanac. Besides teaching you how to use reference books, WITWICS will lead you to all kinds of interesting info about the countries you visit, like currency, flags, and population. You'll hardly be aware that you've been taught. The graphics and gameplay are nice, too. (-M.B.)

The Factory
$ 44.95 Sunburst Communications ****

This is a wonderful edu-game which stimulates problem-solving, visualization, and spatial comprehension. Players must use a variety of machines to create simple to complex parts. (-B.D.)

Quink
$ 39.95 CBS Software ****

Each screen presents the player with 8 random places, names, or things: some items will belong together by some associating element, while the rest will be totally unrelated. Sort it out as fast as you can for maximum points. (-B.D.)

Talking Teacher
$ 39.95 Firebird ****

This appealing edu-program teaches preschoolers elementary keyboard, letter recognition, and beginning spelling through extremely clear speech and colorful animated graphics. A kid-pleaser with real educational value. (-B.D.)

Up for Grabs
$ 34.95 Spinnaker ****

Fun crossword-type puzzle for up to four players of various ages and skills with joysticks or paddles. Good graphics. (-B.D.)

Floyd the Droid
$ 39.50 RadarSoft ***+

An interesting game which is sort of a cross between Chipwits and Impossible Mission. You design Floyd's procedures for dealing with the denizens of the sewer. (-B.D.)

Maps/USA
$ 39.50 RadarSoft ***+

The USA version of Maps/World that includes political boundaries for the states, and thus overcomes the major objection of Maps/World. But like the world version the long musical intro and load time are aggravating, but overall an enjoyable and painless edu-game. There is a similar program for Europe called Maps/Europe. (-M.B.)

Pathwords
$:na CBS Software ***+

An interesting variation of those word games you see on paper, where you have to find the hidden words from a solid mass of letters, and draw a circle around them. But this version allows for any continuous path of letters (twists & turns allowed). (-B.D.)

Perplexity
$ 29.95 Daybreak Software ***+

A series of classic thinking puzzles. The best of which is 'Electro-connection' which has you trying to route wiring across the screen without crossing over yourself (like circut design). (-B.D.)

Fraction Fever
$ 34.95 Spinnaker ***

We're not convinced that this program helps kids learn fractions, (the visual scheme is fairly confusing in terms of numbers), but they will probably have fun bouncing along on their pogo-sticks, riding up elevators, and falling thru the gaps. Edu-game...ok but not one of Spinnaker's best. (-B.D.)

Maps/World
$ 39.50 RadarSoft ***

Includes two programs: one is a simple world statistics 'electronic pamphlet', the other (and main) program is an impressive hi-res smooth-scrolling world map, over which you fly your helicopter to reach the item (river, country, city, etc.) you are prompted to find, against the clock of course. Unfortunately no political boundaries makes even simple places difficult. (-M.B.)

The Pond
$:na Sunburst Communications **+

After titles like The Factory and Missing Links, this one's a disappointment. The Pond is a tedious problem-solving exercise wherein the player must find a pattern that will enable a frog to cross a pond on a pathway of lily-pads. (-B.D.)

A.B. Choo Choo
$ 24.95 Boston Educational

Students are drilled in letter recognition, alphabet sequencing, and sight word recognition in this 3 part program featuring oversized letters in a train/truck theme. Preschool to K.

Arithmetician
$ 24.95 Tensoft

Math games with music and animation. Skill levels go from single-digit addition to seven-digit long division.

Bank Street Story Book
$ 39.95 MindScape

Children can create dynamic multiple-paged stories with animation and sequencing. Stories may be saved to disk or printed out to make books of the non-electronic books.

Basic Facts Fun
$ 27.95 Micrograms

Grades 3 - 5. Programs to help teach 2-digit addition, subtraction, multiplication, and division.

Bible Fun 1
$ 49.95 Smoky Mountain Software

Seven complete, unabridged programs of Bible knowledge. For ages 8 and up.

Big Birds Funhouse
$ 39.95 CBS Software

For children ages 3 - 6. Allows children to develop visual/auditory match and discrimination abilities as well as counting and memorization. Includes keyboard overlay.

Body Transparent
$ 44.95 Designware

Teaches anatomy in a game setting. Ages 9-16.

Build a Book about You
$ 39.95 Scarborough Systems

Create a personalized childrens book.

Castle Clobber
$ 24.95 MindScape

As children pilot 'Tonk' around the castle, they strengthen their logic, critical thinking and map reading skills. Colorful graphics, lively animation and original music. For ages 4 to 18.

Cave of the Word Wizard
$ 24.95 Timeworks

Develops spelling skills by combining arcade action and speech in this spelling game with 500 spoken words on 10 skill levels and 4 game levels.

Challenge Math
$ 44.95 Sunburst Communications

An alien space intruder, a dinosaur and a mysterious mansion entice students into practicing basic arithmetic operations.

Choice of Hercules
$ 19.95 SocrateSystems

Multiple choice screen game with color, sound, help, and score keeping. Sample files are included with an editor to construct your own. False answers are made up by the teacher or computer, and ramdomized for each game. Each of the SocrateSystems programs can be purchased separately, but still use the same files.

Creature Creator
$ 29.95 DesignWare

Lets children create their own creatures and at the same time learn computer keyboarding.

Donald Duck's Playground
$ 34.95 Sierra On-Line

Teaches chlidren ages 7 to 11 about money: counting cash, making change, paying for purchases, keeping track of their assets and most importantly teaches them the relationship between work, wages and possessions.

Dr. Suess Fix-up the Mix-up
$ 29.95 CBS Software

Electronic jigsaw puzzle that features favorite Dr. Suess storybook characters. Increases your child's problem solving, concentration, pattern recognition and memory skills. For ages 4 to 10.

Enrichment Mathematics
$ 39.95 JMH Software of Minnesota

5-disk series of math activities for grades K through 3. Deals with problem solving, number puzzles, patterns, and logic.

Forecast!
$ 59.95 CBS Software

Learn to forecast the weather and explore the mysteries of amospheric conditions.

Fruit Tree / Gumball
$ 24.95 Boston Educational

Two games are contained within this program to drill counting and simple addition and subtraction. For preschool to second grade.

Getting Ready to Read & Add
$ 44.95 Sunburst Communications

Sound, color and animation help young students identify and match shapes, upper/lower case letters and numbers.

Ginger the Cat
$ 34.95 Cardinal Software

Music, bright colors and movement create a happy environment in which your children learn basic skills like colors, letters, numbers, shapes and simple arithmetic. For ages 2 to 6.

Hemlock
$ 19.95 SocrateSystems

Hangman type screen game for grades 1 thru 12.

Incredible Laboratory
$ 44.95 Sunburst Communications

Students learn problem solving skills as they mix 'crazy chemicals' to produce colorfully vivid monsters.

Just Imagine
$:na Commodore

Unique educational program that lets your child design imaginative stories increasing their word to image association, creative writing and simple word processing. Includes 9 background scenes, 25 animated characters, and 48 stationary objects.

Kid Pro Quo
$ 29.95 SoftSync

Kids can write text, draw, paint, animate pictures and compose music. Built-in picture and music libraries.

La Corrida de Toros
$ 29.95 Gessler

Spanish language version of Hangman.

La Guillotine
$ 29.95 Gessler

French language version of Hangman.

M-ss-ng L-nks
$ 44.95 Sunburst Communications

Passages from nine classics of childrens literature and solutions depend on the student's educated guess.

Math Action Games Series
$ 19.95 MindScape

Teaches children in grades K-3 numbers and counting, teaches multiplication and division for grades 3-6 and for grades 6-8 it teaches percentages, decimals and fractions.

Math Bowl
$ 15.95 Micrograms

Grades 4 - 5. Edu-game for mathematics with a bowling scenario.

Math Double Drill
$ 34.95 Cardinal Software

Two math games adjustable for individual skill. K-6

Memory Castle
$ 44.95 Sunburst Communications

Gives students practice in remembering and following directions.

Monkeymath
$ 17.95 Artworx Software

Graphics and animation couples the fun and excitement of an arcade game with the opportunity to learn. Children ages 6-12 can practice number placement, addition, subtraction, multiplication, and division. Three levels of difficulty.

Mr. Pixels Cartoon Kit
$ 29.95 MindScape

Allows children to explore their creativity by selecting or building cartoon characters and then combining them into unique cartoon features. Works with other Mr. Pixel programs.

Mr. Pixels Game Maker
$ 29.95 MindScape

Allows children 9 and older to create their own arcade games using 'if/then' statements for rules and adding predrawn or original characters and backgrounds (like those created from 'Paint Set' or 'Cartoon Maker').

Mr. Pixels Paint Set
$ 29.95 MindScape

Teaches children 8 and older an intuitive understanding of programming while they explore their creativity. Drawing in full color or change other drawings. Works with other Mr. Pixel programs.

Pitchrider Hear, Hear
$ 19.95 DOD Electronics

Teaching game to be used in conjunction with the Pitchrider MIDI interface to learn intonation, intervals, and scales.

Rainy Day Fun
$ 39.95 Thorn EMI

Ten creative activities that include: Connect-the-dots, Mask-maker, Sliding puzzles, Banner maker, Fortune Teller, Mouse Maze, and Coloring Book.

Science Instructor
$ 24.95 Pro Comp

Science questions (taken from homework research) are put into game form.

Scrambled Verses
$ 29.95 Smoky Mountain Software

Your task is to recognize the proper order of each line in a multi-line Bible selection and organize them correctly. For home or Bible study use. Ages 8 and up.

Scramble
$ 20.00 Greenwood Software

Word game that scrambles the letters of words so you can unscramble them.

Sea Voyagers
$ 39.95 CBS Software

For ages 8 to adult. An electronic learning game which chronicles the lives and historic discoveries fo 30 New World explorers from Balboa to Vespucci.

Shape Games
$ 24.95 Boston Educational

Patterns and basic shape recognition are drilled in this two game program. Audio rewards are given for correct answers. Preschool to second grade.

Show Director
$ 29.95 MindScape

Children can direct their own animated productions. They write a script, then select a predrawn character and background. Add sound and music to complete the show.

Social Studies Instructor
$ 24.95 Pro Comp

Social studies questions put into game form. For grades 4 through 8.

Socratic Quiz
$ 19.95 SocrateSystems

Question/answer screen game with color, sound, help, and score keeping. Sample files are included with an editor to construct your own. For classroom or home-study, Jr high and up, depending on file complexity. Uses any of the other SocrateSystems files.

Sort'em Series 1 & 2
$ 24.95 Smoky Mountain Software

Series of programs to teach preschoolers and elementary age children Bible history and sequencing skills. $24.95 each.

Spell That Word!
$ 15.95 Microgrames

Grades 3 - 6. Game show format allows 2 students to spell words that have been flashed on the screen.

Spellers Duel
$ 19.95 Bobco

Spelling program for grades 4 and up. The computer randomly spells a word and the players press a key when the word is recognized. Players can make their own word lists.

Teasers by Tobbs
$ 44.95 Sunburst Communications

Motivates students to think logically to solve addition and multiplication problems in number-puzzle grids.

Tink in the Land of BuddyBots
$ 24.95 MindScape

Children learn visual discrimination by distinguishing shapes and patterns and develop concentration and memory skills as well.

Tink's Adventure
$ 24.95 MindScape

Children's illustrator and author, Mercer Mayer, designed this for children to learn ABCs and to become familiar with the keyboard.

Tink's Mazes
$ 24.95 MindScape

Innovative way for children to learn counting and develop basic math concepts.

Tink's Subtraction Fair
$ 24.95 MindScape

Children learn principles of earning and spending as they visit the fair with Tink. Mathematical memory and concentration skills are developed thru the 5 levels. For ages 4 to 8.

Tuk Goes to Town
$ 24.95 MindScape

Children become part of this graphic/text adventure as they choose Tuk's vehicle and places thru which he should travel. Develops the child's vocabulary and strengthens his spelling.

Welcome Aboard
$ 24.95 Broderbund

Based on a cruise ship theme with Jim Henson's Muppet characters leading you through the world of computers (from BASIC to DBMS to word-processing to E-mail and games) on the S.S. MicroShip.

Woodbury Software Games
$ 24.95 Woodbury Software

Series of disks, mainly for children, to write and illustrate books. Each comes with supplies to turn out a real hardcover book. Different stories can be generated each time. Titles are 'Tales of Me', 'Adventures in Space', 'Castles & Creatures', and 'Mystery!'. Price is for each disk.

Word Party
$ 10.00 Michael Crick

Word search game for families, parties or the classroom. Word Party (previously published by UMI and K-Tel as 'Word Feud') is now being published in English, Spanish, French, German, and Esoteric. As a party game it requires secret signals, bluffing, and deception, as well as work skills and quick reflexes.

Word Zapper I
$ 27.95 Microgrames

Grades 3 - 5. Game show format where you must zap incorrectly spelled words.

Pinball Construction Set
$ 39.95 Electronic Arts *****

INFO's choice for best recreational software of 1983. Much more than a game. You can build almost any pinball game you can imagine using a super parts box of components, then go to a screen that lets you control gravity, rebound strength etc. and save them to disk. Many pre-designed pinball machines as well. Still one of the best C64 entertainment programs ever. (-B.D.)

Pirate
$ 5.99 Tech Soft ****

Use your own ML monitor, track and sector editors, or even a pickaxe if you think it will help you dig out the game hidden beneath the layers of copy protection on this disk. The ultimate challenge for software pirates! (-M.B.)

Quizam
$ 29.95 Electronic Arts ****

Trivia game where the players are judged not only on the accuracy of their answers, but the speed of response. Your choice of several boards/games, and lots of questions on the disk. (-M.B.)

Dr. Ruth's Game of Good Sex
$ 29.95 Avalon Hill ***+

Now, fresh from the Donahue show!...that dynamic little sex celebrity (who can't possibly have time for sex herself) has brought her crusade for elevated sexual awareness to the computing community. There are some explicit multiple-choice questions allowing up to four players to test their knowledge of sexual facts. Very educational, with lots of good information. Not for prudes or 6th grade boys. (-B.D.)

Little Computer People
$ 34.95 Activision ***+

Cute 'Dollhouse-in-your-computer' program gives you a computer-generated pal to play with. He watches TV, plays the piano, plays games with you, etc. Entertaining for the small fry and those with vivid imaginations but the characters are not complex enough to endear themselves to you forever. (-M.B.)

Trivia Fever
$:na Professional Software ***+

If you're not near 'trivia overdose', then this belongs with the rest of your collection. Notable in that it can be played with or sans computer, and offers numerous handicapping features to ensure a fair and interesting game. (-B.D.)

Eliza
$ 45.00 Artificial Intelligence ***

A full implementation of the classic artificial intelligence program written at MIT in 1966. Eliza is a Rogerian Psychotherapist who responds to questions or statements typed in by the user. Many public domain versions of Eliza are as good as this one. In BASIC and easily modified by those interested. (-Staff)

Trivia Plus
$ 24.95 Academy Software ***

The structure is very simple: a question is selected from one of eight categories and the player attempts to answer correctly. The computer then reveals the answer and awards points. The challenger option adds interest (-B.D.)

Christmas Kit
$ 24.95 Activision

Make three-dimensional Christmas ornaments and decorations. The program includes patterns for such things as gift boxes, toy trains and miniature villages that you can print out and assemble. It comes complete with card stock, pens, glue, and a ruler.

Load'N'Go Entertainment
$ 6.99 Sharedata

Titles include 'Bulge - A Battle for Antwerp', 'Land, Sea and Air Adventures', 'Open', 'Space, the Ultimate Frontier', 'Championship Gambler', 'Maze Madness', 'Crazy Corners', 'Adventure Master', 'Peg Out', 'Sky Fighters', 'Atomic Challenger', 'Freedom Fighters', 'Professional Gambler', and others. Marketed through mass merchandisers.

Murder Party
$ 39.95 Electronic Arts

Host a murder! This software generates the invitations and the clues for you to host your own murder mystery. From the stuff we've seen, the writing is very clever, the plots convoluted, and the overall tenor just what mystery fans will like. The program is only used to generate the clues, not for the actual play. (You'll actually have to relate to real people instead of your computer!) 6 or 7 guests required.

ScanAm Games
$:na ScanAm

A number of games formerly offered by Handic. Titles include 'Real Estate 64', 'Stud Poker 64', 'Q-Hop', 'Pro Golfer 64', 'Stellar Conflict', 'Imagination', 'Oisac', 'Space Action', 'Space Trap', 'Bridge 64', 'The Ship', 'The Fourth Sarcophagus', and (get this title) 'The Mutant Spiders'.

Science Fiction Trivia
$ 25.00 Infinity Software

For all you loyal fans of the Outer Space Classics (Star Wars, Star Trek, etc.). Trivia game for 1 to 4 players or teams can compete against the clock to answer multiple choice questions about the last 25 years' sci-fi movie and tv shows. Includes on-screen scoring, timer, pause, and hi-res graphics of your favorite sci-fi scenes.

The Toy Shop Refill Pack
$ 24.95 Broderbund

Replacement construction materials for The Toy Shop.

The Toy Shop
$ 59.95 Broderbund

Contains the plans for 20 incredible paper toys, from a balloon-driven model of a steam engine to a foot-high ferris wheel. Includes dowels, special adhesive cardboard, and other materials to construct these solid, beautifully-designed toys using your computer's highly detailed printout of the toy components. A novel high-tech approach to that almost-lost delight of childhood, making your own toys. (-M.B.)

World Geography
$ 24.95 Bobco ****+

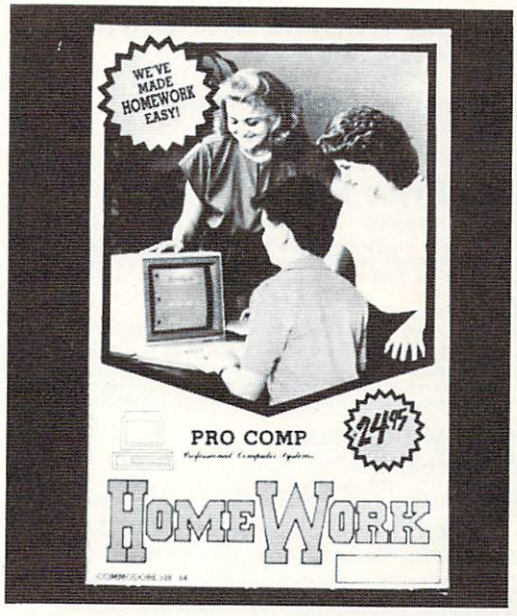
Teaches world geography by featuring a full color 3-D rotating globe and detailed graphics of over 175 countries. Colorful, interesting, and still manages to be very educational. Also available in foreign language versions. (-M.B.)

Typing Tutor + Word Invaders
$ 24.95 Academy Software ****+

The best typing tutor we have seen yet, it can get your children touch-typing in short order and bring an old hand up to speed. Includes excellent training modules and an arcade-type mode to liven things up and put some pressure on. (-B.D.)

Hodge Podge
$ 9.95 Artworx Software ****

A computer classic. Kids hit a key and are rewarded with a picture and sounds. Becomes a favorite with kids just like a favorite storybook. (-M.B.)



HomeWork
$ 24.95 Pro Comp ****

Homework tutor for students in 4th thru 9th grades. Over 200 texts covered so far--you supply the ISBN number of the book when you order the program. The student enters the page and question number, HomeWork supplies the page and paragraph in the text he must read to find the answer. 'Parents mode' gives the actual answer. It's like having the teacher's manual at home! (-M.B.)

Animal Stories
$ 27.90 Micrograms

Grades 2 - 6. Contains 12 stories for remedial readers. Covers literal and interpretive comprehension, sequencing and recognizing the main idea.

Arcademic Series
$:na DLM Educational Software

A series of math, spelling, and vocabulary games for home or school, plus turtle graphics intro and others.

Biology
$ 19.95 American Educational Computer

Teaches the difficult new vocabulary introduced in biology. Matches the content of most biology textbooks. Contains 35 lessons with 10 exercises each, and room for additional user input lessons.

CBS Educational Series
$:na CBS Software

Nearly 100 titles from preschool to college age, covering topics from counting, spelling, and reading, to computer science and SAT preparation.

CCI Super Word Find
$ 19.95 Clockwork Computers

For teachers and cross-word enthusiasts to achieve an educational objective or just for entertainment. Program consists of user specification of a list of words (from 2 to 50), print out options, answer key, and the puzzle itself (10x10 to 40x25).

Connections
$ 99.95 Krell Software

Unique program consists of a database of facts. Kids are encouraged to explore the data and formulate their own theories about it, then test their theories back against the database. Teaches logic and the scientific method. Additional databases and a users group are available.

DesignWare Educational
$:na DesignWare

Various educational programs, mostly in game format. Titles include 'Trap-a-Zoid' (geometry), 'States & Traits' (geography), 'Spellicopter', 'Spellakazam', 'Spellagraph', 'Crypto Cube' (vocabulary), 'The Notable Phantom' (music), 'Mission: Algebra', 'Math Maze', 'The Grammar Examiner'. Prices range from $19.95 to $44.95.

Ernie
$:na Classic Image

Computer driven robot used to teach the basics of programming and problem-solving skills.

European Nations & Locations
$ 44.95 DesignWare

European geography tutor.

Figuring with Fractions I
$ 55.95 Micrograms

Grades 5 - 7. Programs covering mathematics with fractions.

Fisher Price Educational
$:na Spinnaker

Software for elementary kids ($25/ea) includes Peter Rabbit, Peter & the Wolf, Jungle Book Reading, and First Men In The Moon Math.

French
$ 19.95 American Educational Computer

Teaches English to French translation. Reinforces syntax and knowledge of French idioms. Includes 98% of the vocabulary in most French textbooks. 35 lessons with 10 exercises each, and room for additional user lessons.

Friendly Figures
$ 41.85 Micrograms

Grades 1 - 2. Programs to help young children learn about counting and simple addition and subtraction.

Gessler Educational Software
$:na Gessler Educational Software

Gessler publishes a variety of foreign language educational programs to make language learning a little less painful. Prices range from about $35 to $175. Comprehensive packages for elementary levels on up.

Grammar
$ 19.95 American Educational Computer

Sharpens and reinforces English grammar and usage, in areas such as lay/lie, who/whom, and more. Contains 35 lessons with room more. Grades 4 thru 6.

Health and Safety
$ 67.95 Micrograms

Grades 3 - 6. Programs that contain information concerning bicycle safety, health and first aid areas.

Inside Story
$ 34.95 Access Software

Anatomy learning program features fifty hi-res screens.

Keyboard Cadet
$ 39.95 MindScape

Trains users to type on the computer keyboard, excellent graphics and ease of use make it appropriate for users age 8 and up.

Keys to Typing
$ 24.95 Batteries Included

Easy to follow typing tutorial program. Now unprotected

Learn to Read
$ 39.95 American Educational Computer

Teaches word structure to ensure success in reading. Such topics as prefixes, suffixes, contractions, synonyms, homonyms, antonyms, etc, are among the structural skills included in the program. For grades 1-4.

Learning Numbers
$ 41.95 Micrograms

Grades K - 1. Programs to help young children develop an understanding of counting numbers.

Learning Technologies Series
$:na Wordware

Series of graphic elementary level educational titles priced at $19.95/each. Also available from Wordware are the Basic Skills educational software series for schools and a complete series of tutorial books for schools and businesses.

LearningWare
$:na Advanced Ideas

LearningWare is a series of educational programs for school or individual use. The line includes Wizard Of Words and The Game Show.

Linkword
$ 24.95 Artworx Software

Learn a vocabulary (available in Spanish, Italian, German or French) of about 400 words, basic grammar, and pronunciation in 10 hours. Each package includes an audio tape so you can hear the correct pronunciation of new words.

Load'N'Go Educational Series
$ 6.99 Sharedata

Series includes 'Typing Tutor', 'Math Tutor', 'Speed Reader', 'Picture This', 'Time Trucker', 'Number Chaser', and 'Number Builder'. Marketed through mass merchandisers.

Long Division
$ 25.00 Infinity Software

A program that teaches long division fundamentals and monitors student performance with positive feedback. A random number generator assures varied problems. 3 skill levels.

MasterType Figures & Formulas
$ 29.95 Scarborough Systems

Learn weights and measures.

MasterType New & Improved
$ 39.95 Scarborough Systems

Learn to type or get blown to bits in this typing instruction edu-game. (-Staff)

Match Master
$ 69.95 Micrograms

Grades 5 - 8. Students are given a 3 minute time limit in which to match the names of famous people to notable accomplishments.

MECC educational titles
$:na MECC

Various educational courseware, mostly Apple, but with a couple of dozen C= titles: The Friendly Computer, etc

MicroEd Educational Titles
$:na MicroEd

Several titles available covering vocabulary, basic usage, punctuation, etc.

MicroMouse
$ 20.00 Greenwood Software

Programming environment which enables anyone to discover computer programming.

Monkeynews
$ 17.95 Artworx Software

Innovative reading comprehension program, for children ages 7-12. Allows for active participation in selection of story direction, answering questions, finding and replacing missing words and even typing headlines for the story.

Mr. Readwell - Primary
$ 41.85 Micrograms

Grades 1st - 3rd. Child selects story and reading speed, then after each page of reading, the child is asked questions over the reading. Intermediate version available for grades 3 - 6.

My Book
$ 34.95 Boston Educational

Children create their own stories, including pictures and text, with this creative writing tool. Using a joystick, they select from the 6 menu options, such as adding captions to their favorite pictures, read, save, or print. Preschool to second grade.

Number Patterns
$ 27.95 Micrograms

Grades 1 - 2. Programs to help young children develop an understanding of even and odd numbers, and sequencing numbers.

Phonics
$ 39.95 American Educational Computer

Begins with phonics, the building blocks of reading skills, introduces the sounds of vowels and consonants in reading: short vowels, long vowels and initial consonants. For grades k-3.

Picture Phonics
$ 41.85 Micrograms

Grades preschool to 1st. Over 100 colorful and Easily recognizable pictures along with large, easy-to-read lower case letters.

Pre-Algebra
$ 49.95 JMH Software of Minnesota

18-disk series to be used as a supplement for 7th and 8th grade math. Correlated with texts from 10 major publishers.

Primary Language Skills
$ 41.95 Micrograms

Grades 2 - 3. Program covering punctuation, capitalization and grammar.

Professor Snead
$ 41.95 Micrograms

Grades 5 - 7. Contains 6 stories and after each reading page, the reader is asked comprehension questions over the reading.

Queue Educational Software
$:na Queue

A variety of school-oriented software. Titles include 'Basketball Stats', 'Testmaster', 'Mastergrades', 'Analogies Analysis', 'Mathwise', 'Memory Builder', 'Montana Reading Program', 'Picture Blocks', 'Preschool IQ Builder', 'Preparing for Aptitude Tests', and others. Prices range from $34.95 to $79.50.

Reading Comprehension
$ 39.95 American Educational Computer

Improves reading comprehension by working with finding main ideas, cause and effect, similarity and differences, predicting outcomes, differentiating between fact and opinion, etc. Grades 1-8.

Reading Graphs
$ 15.95 Micrograms

Grades 4 - 6. Pictographs, bar, double bar, and line graphs are introduced.

Reading Readiness
$ 41.85 Micrograms

Grades preschool to 1st. Many programs on one disk to teach letters of the alphabet.

Reading Series (Grades 3-6)
$ 99.00 American Peripherals

Each grade is a series of 15 lessons, reading passages and associated questions.

RomperRoom:I love my alphabet
$ 29.95 First Star

2-5 year olds learn actions and feeling through 4 different learning techniques.

Science
$ 19.95 American Educational Computer

Three separate programs which cover life, earth/space and physical sciences. Can be used in conjunction with elementary science programs. Contains 35 lessons with 10 exercises each, and room for additional user input lessons. Grades 3-4, 5-6, 7-8.

Sequencing Sam -Primary
$ 41.85 Micrograms

Grades 1st - 3rd. Child selects story and reading speed, then after each page of reading, the child is asked to sequence story events. Intermediate version available for grades 3 - 6.

Sharing Science I
$ 41.95 Micrograms

Grades 2 - 5. Programs that contain information concerning basic concepts in 6 or 7 science curriculum areas. Also available version II for grades 6 - 8.

Spanish
$ 19.95 American Educational Computer

Teaches English to Spanish translation. Reinforces syntax and knowledge of Spanish idioms. Includes 98% of the vocabulary in most Spanish textbooks. Contains 35 lessons with 10 exercises each, and room for more.

Speed Math
$ 27.95 Micrograms

Grades 3 - 5. Programs to help teach basic multiplication facts with an emphasis on rapid responses.

Spelling
$ 39.95 American Educational Computer

Uses 'test-teach-test' approach to teach the spelling of 4,233 words most often used in writing. Incorrectly spelled words are added to 'words to study' list and are deleted when correctly spelled. For grades 2-8.

Spinnaker Educational Titles
$:na Spinnaker

Various edu-games and helpers: Alphabet Zoo ($21), Kids on Keys ($21), Math Busters ($27), Kidwriter ($27), Homework Helper Math Word Problems ($33), Homework Helper Writer ($33), and more.

Springboard Educational
$:na Springboard

Early Games, Math, ABCs, Fractions, are just a few of the topics in Springboard's educational line.

States and Capitals
$ 15.95 Micrograms

Grades 4 - 6. Hi-res outline map of the U.S. and students may name states &/or capitals.

Stickybear Series
$:na Weekly Reader Software

Easy to use educational programs for small children. Topics covered painlessly include ABC's and Numbers.

Study Skills I
$ 27.95 Micrograms

Grades 3 - 4. Contains 2 programs 'Alphabetical Order' and 'Guide Words' which concentrate on alphabetizing skills.

Supertype
$ 34.95 Progressive Peripherals

Typing tutor teaches touch typing in ten hours using color coded keyboard course.

The Professor
$ 34.95 Progressive Peripherals

An in-depth self tutorial for the C64 on a two sided disk. Menu driven and covers BASIC, sound, music, graphics and quizzes your comprehension.

Type!
$ 39.95 Broderbund

This one doesn't seem to be just another typing tutor. For one thing, your typing test results are analyzed seven ways from Sunday. I've never seen a more comprehensive analysis of typing mistakes in my life! Should make it easy to pin down where your real typing problems lie. (-M.B.)

U.S. Adventure
$ 29.95 First Star

Teaches geography, history and trivia of the USA.

U.S. Geography
$ 19.95 American Educational Computer

Teaches facts and information about our states, cities, landmarks, lands, waterways, and climates. Lessons are broken into regions (Mid-West, Pacific etc). Contains 35 lessons with 10 exercises each, and room for more user input lessons. Grades 5 and up.

U.S. Government
$ 19.95 American Educational Computer

Reviews the U.S. constitution, structure of federal, state and local government, policies and important laws. Contains 35 lessons with 10 exercises each, and room for extra user input lessons.

U.S. History
$ 19.95 American Educational Computer

Designed to supplement an introductory course. Teaches important dates, facts, and events in U.S. history. Contains 35 lessons with 10 exercises each.

Vocabulary Crosswords I
$ 41.95 Micrograms

Grades 3 - 5. Crossword puzzle format is used to help students strengthen their vocabularies.

Vocabulary
$ 19.95 American Educational Computer

Helps the user increase his vocabulary by working with synonyms, antonyms, homonyms, etc. Contains 35 lessons with 10 exercises each and more room for additional lessons. For grades 4-6.

Whole Brain Spelling
$ 34.95 Sublogic

Spelling tutor uses color highlighting to visually impress proper spelling of difficult words.

World Geography
$ 19.95 American Educational Computer

Teaches facts and information about continents, countries, capitals, cities, waterways and oceans. Contains 35 lessons with 10 exercises each, and room for extra user input lessons. Grades 8 and up.

World History
$ 19.95 American Educational Computer

Designed to supplement an introductory course. It teaches important dates, facts, and events in world history. Contains 35 lessons with 10 exercises each, and room for extra user input lessons.

64 ADVANCED EDUCATIONAL

Bataille de Mots
$ 49.95 Gessler Educational Software ***+

A French language version of Gessler's foreign language series (also available in Spanish and German versions). Modes for vocabulary drill, timed French-to-English (or vice versa) multiple choice quizzes, fill-in-the-blank sentence, and the Word Attack mode in which you fire at French words in response to their English definitions. Overall a nice tutorial package for home and classroom.
(-M.B.)

Biology Series
$ 525.00 American Peripherals

Sequential series that covers an entire high school course in biology, topic by topic. Consists of mini-lessons that introduce, develop and quiz you in biology (explanations are given for incorrect answers). Contains 72 programs.

Chemistry Series
$ 340.00 American Peripherals

A complete high school chemistry course on disk. Each program is a series of mini-lessons and as new topics are of introduced and developed, the student is quizzed with explanations being given for wrong answers. The whole set contains 43 programs on disks.

CLEF
$ 499.00 Gessler

A monumental 30-disk set of French language instructional disks. Disks are available individually for $19.95 or five for $85.

College Pak
$ 25.00 Useful Software

20 plus college level programs teaching: math, chemistry, medicine, psychology, finance etc.

Dictionary
$ 19.95 SocrateSystems

Transforms your computer into a dictionary/glossary for foreign language study, English vocabulary, history , biology terms, etc. For classroom or homestudy use.

Excel-A-Read
$ 49.95 American Educational Computer

Designed to increase the user's reading rate while maintaining and improving reading comprehension. Improves left-to-right and top-to-bottom page eye movements, scanning and highlighting skills. Contains 60 reading selections of a wide interest. Grades 5-adult.

Krell Software
$:na Krell Software

Various software including SAT, ACT, GMAT, NTE, GRE, TOEFL and MAT preparations, as well as many other educational areas.

Lord of the Flies
$ 39.95 CBS Software

Using a semi-adventure game format, this program delves into William Golding's novel about a group of boys marooned on a desert island. Has four different levels, including a 'Cliff's Notes' sort of summary section.

Mastering the ACT
$ 139.95 CBS Software

Comprehensive, self-paced coverage of the American College Testing exam, covers English, math, social studies and natural sciencs. One of the finalists in our 'Best Double Entendre In A Software Title' category.

Mastering the SAT/64
$ 79.95 CBS Software

A four-disk package including two full-length practice exams. Current owners can update to this version for a small fee.

Physics Series
$ 475.00 American Peripherals

Covers an entire high school course in physics, topic by topic. Each program consists of a series of mini-lessons. As new topics are introduced and developed, the student is given 'mastery' questions, and explanations are given for incorrect answers. Contains 64 programs.

Remember!
$ 79.95 DesignWare

An educational 'database' which helps you study any subject. Subject disks available separately.

SAT Perfect Score
$ 69.95 MindScape

Allows users to study all sections of the SAT with material presented on 6 double sided disks. Teaches students good test-taking techniques. Includes timed tests. Price also includes 'The Perfect College', a database of US colleges and universities to help in your selection of a school.

64 TEACHING & ADMINISTRATION

Attendance Master
$ 39.95 Melcher Software

Stores attendance info for up to 39 students per class for an entire semester. Unlimited classes.

Bingo Printer
$ 19.95 SocrateSystems

Prints BINGO cards and a call sheet for an entire classroom or any large group, using the same files (vocabulary types work best) used in all the other SocrateSystems programs, Jr high to college, depending on file complexity. Includes editor and sample files. sample files.

CLAS
$ 89.95 Touch Technologies

Computerized Lesson Authoring System is a tool to allow educators and parents to create their own courseware. No computer experience is necessary to create a single lesson on a single topic or a whole semester's course. Includes an author disk, student disk and user's guide.

CompuGrade
$ 34.95 Melcher Software

Computes average and letter grades. Tests may be weighted in any fashion and any letter scale may be used. Many options like dropping lowest & highest test scores.

CRIMP
$ 35.00 Wayne Levine

CRIMP stands for Class Record Information Management Program. Takes care of recording test scores, printing seating charts, progress reports. Grading can be done using a standard curve or a percent.

Genesis 2
$ 20.00 Greenwood Software

Computer assisted instruction authoring system which allows teachers or parents to create computer exercises in a question/answer format.

Grade Manager 3
$ 69.95 Smoky Mountain Software

Grade calculation, management and reporting system. Maintains detailed student, assignment history, absences, tardies, etc. If run on a C128, the numeric key pad is activated for use.

Grade Manager 64
$ 69.95 Associated Computer Services

Menu-driven grading system allows complete tracking of students' grades.

Grade Organizer
$ 39.95 Cardinal Software

Stores names and grades of students in 6 different classes with up to 40 students per class and 680 grades per student. Prints interim and final reports, class name lists and individual grade up-dates at the touch of a button. For teachers of students from intermediate through college.

Lesson Master
$ 59.95 Small System Software

A tool for teachers to make up lessons and track students' progress through an entire course.

Master Grades
$ 35.00 Midwest Software

A simple to use teachers grading program. Works on the point system and keeps cumulative points only, up to 9999 per marking period for up to 200 students in one file.

Music Education Software
$:na Electronic Courseware Systems

ECS offers a number of music instruction programs. Titles include 'Descending/Ascending Intervals', 'Find that Tune', 'Ear Training Skills'. Prices are generally $39.95 with savings for sets.

Multi Printer
$ 19.95 SocrateSystems

Prints multiple choice tests from the same master files which work with other SocrateSystems programs. Sample files are included with an editor to construct your own. For teachers' use, elementary to college, depending on question file complexity. Questions and answers are independently randomly generated and a key is printed for each version of each test.

Plus Series
$ 850.00 Redicker Software

Attendance Plus, Report Cards Plus, Scheduling Plus, $850 each. Heavy duty total school administration software works with all Commodore equipment, including IEEE drives.

Spelling Tutor
$ 39.50 Midwest Software

Complete spelling package comprised of a teacher's utility program, two drill games for students and a data disk containing 4289 words from 4 major spelling lists.

Teachers Gradebook
$ 24.95 American Peripherals

This program has been refined over and over to do most of the functions wanted by most teachers. Keeps class lists, grades, automatic-averaging and weighting, optional alphabetized output to disk, printer or screen.

Teachers Pet/Aide
$ 25.00 Quantum Leap

Aide: keeps schedules, stores scores, alphabetize/cross reference students and teachers. Pet: stores student scores and figures weighted averages. Price is for both. Pet is $10 and Aide is $15.

Test Maker
$ 34.95 American Peripherals

Teacher enters multiple choice questions and then the choices for answers, computer then produces as many versions of that test as desired to the screen or printer. Flexible and any question may be up to 10 lines long.

Test Printer
$ 19.95 SocrateSystems

Prints varied versions of tests or review sheets with keys, using files of questions created for this or any other SocrateSystems program. Includes editor. For classroom or homestudy use, elementary to college, depending on question file complexity.

TestMaster
$ 35.00 Midwest Software

Complete test and quiz development system which allows creation of true/false, multiple choice, completion and short answer tests.

The Test Maker
$ 39.95 Melcher Software

Allows the user to create a data base of multiple choice questions, up to 500 per file with unlimited number of files. Complete documentation and user friendly.

Bartender Guide & Host
$:na After Six Software ,

Contains drink recipes and blood alcohol content computation for social-conscious hosts. Enter your inventory of ingredients and get a list of drinks you can offer to your guests (120 possible). Inventory driven with menus.

10-Fix
$ 12.50 Raymond L. Zarling

A freeware program (if you can find a copy, or pay the above amount for one) that when run before booting up Print Shop, it allows older model Star Gemini 10-x printers to run PS. (-Staff)

8 BASIC programs
$:na Ned Schultz

Freeware (send blank disk, mailer and postage) of some listable games, like Square of Fortune (with Vanna!).

ABL-64
$ 39.95 Input Systems

Transparent auto boot/load/run cartridge for security, BBS, and other constant use systems.

America Cooks Chinese
$ 14.95 Concept Development Associates

A collection of nearly 200 recipes from chefs in Chinese restaurants. Also in the series are collections of Mexican and Italian recipes.

Aspect Calculator
$ 19.95 CTL Software

Astrological calculator.

Bartender's Friend
$ 14.95 Raymond Reynolds

Contains a treasury of liquor terms and recipes using almost 40k of memory.

BCI Software
$:na BCI

BCI produces an inexpensive series of entertainment and educational software that is distributed through mass merchandisers, such as K-Mart.

Best of C64 Public Domain
$ 225.00 National Public Domain

102 disks of public domain software. For sale or rent.

Business Researcher
$ 49.00 Briley

Simplex decision-aiding management tool. You supply the basic algebra, it does the rest. Has the option for students to display step by step calculations.

Business Strategy Series
$ 79.95 Info Designs

Four separate programs (formerly sold by Human Edge Software). Includes Sales Edge, Negotiation Edge, Management Edge, and Communications Edge, $79.95 each.

C64 Tutor
$ 29.95 Comprehensive Software

C64 tutorial with screen display editor, sprite editor, music synthesizer, and programmers calculator.

Cam-64
$ 295.00 Input Systems

Call Accounting manager collects SMDR data from a telephone computer system and organizes it into several different hardcopy formats.

Celebrity Cookbook
$ 19.95 Merrill, Ward & Associates

Recipes from such celebrities as Frank Sinatra, Ronald Reagan, and Bob Hope.

Chinese Writer
$ 49.95 DynaComp

Wordprocessor for Chinese. Produces small or large Chinese characters on-screen, dumps to most printers. Character editor allows you to expand included database of 1300 characters up to 6550 if needed.

Chipmunk Software
$:na Chipmunk Software

Chipmunk has titles ranging from a disk cataloguer to computer song albums to graphics and sound utility programs.

Christmas Adventure
$ 16.95 BitCards

Find Santa Claus in his ice castle in this mainly text (converted-from-Apple) adventure with some humor. Customize the program for a gift with the recipient's name and other personal info, that pops up in the middle of the game.

Clearing House
$ 49.95 F/22 Press

Identifies bad checks and warns (visually and audibly) users not to cash them. Prints a complete report on each check to screen or the printer.

Dark Star
$ 64.95 F/22 Press

Solves all of the exposure and filtration problems normally encountered in the photographic darkroom. Can automatically operate the Omega d5500 enlarger. 'Plus' version ($89.95 disk) adds the Time Star program.

DynaComp Products
$:na DynaComp

A wide selection of scientific, engineering, financial, statistical, educational, and other programs. Their catalog is 196 pages of small type. That's a lot of software.

EMED
$ 29.00 DMC Software

Electronic Medical Database designed for home use. Conatains data on over 460 diseases and 325 symptoms. Many options for the user.

Energy Manager
$ 29.95 Powerline Software

Energy analysis program to help control energy cost in homes and buildings, using utility energy bills as a data base it provides a method to maintain vigilance over energy use and measure the effect of energy conservation.

Eyebrow Lifting Speller
$ 5.00 Don Peterson

Allows a person who is severely physically handicapped or voiceless or both, to speak with the S.A.M voice synthesizer or type any word in the language with the mere lift of an eyebrow (or any other useable muscle) with an electronic switch mounted on the muscle and connected to the joystick port.

Family Tree
$ 49.95 Genealogy Software

575 names per disk with pedigrees through the sixth generation. Both alpha and numeric indexing with search functions.

Fireworks Celebration Kit
$ 34.95 Activision

Create fireworks displays with music and messages. Turn them into computer greeting cards and send to friends.

Gardener's Assistant
$ 29.95 Shannon Software

Produces vegetable garden layout based on input of garden size, shape, location and vegetables desired. Includes planting data for more than 50 vegetables and you can add more entries or change existing ones.

Gleaner
$ 19.95 Kudzu Software

Genealogical program designed primarily for ease of use. Data entry is similar to filling out a family group sheet and all entries are prompted. Pedigree charts are automatically linked. Each data file has a capacity of 48 families (in memory) and disk file limited only by disk space.

GreenMaster Pack
$ 20.00 Greenwood Software

For the new C64 user, includes a graphics tutorial and a disk utility program.

Hidden Words
$ 19.95 Smoky Mountain Software

Generates word search puzzles from words you supply.

I Am the C64
$ 34.95 Activision

Step by step tutorial on C64 features, BASIC, etc.

IntraCourse
$ 49.95 IntraCorp

Educational and entertaining software that includes an interactive sexual questionnaire, sexual/medical dictionary, public sexuality statistics and information on human sexuality.

Jubilee
$:na Monte Lee Stark

A freeware (send him a blank disk) program integrating a screen-oriented color notepad/diary with time/date stamping and an avant-garde music composition program.

Keypunch Software
$ 6.99 Keypunch Software

Keypunch offers over a dozen educational, entertainment and personal productivity software disks, each with 3 to 4 programs, through mass merchants at $6.99/disk.

Keys to Responsible Driving
$ 89.95 CBS

Teaching program leading toward a driver's license. Includes a section on the dangers of mixing alcohol or drugs with driving.

Lamata Software
$ 7.95 Lamata Software

PD stuff. Same address as Mystic Software Club.

Legal-ease
$ 29.00 Quantum Leap

A collection of text files to use with Quantum Leap's Critic wordprocessor to print out legal documents. Files include simple will, contract agreements, and others.

Library Programs
$:na Right On Programs

A series of programs ($25 and up) designed primarily for running a school library. Handles everything from inventory to overdue books. There are also several tutorials for teaching people how to use a library.

Lottery 64
$ 24.95 Superior Micro Systems

Picks random numbers for you to play in any of the various state lotteries.

Movie Musical Madness
$ 39.95 CBS Software

Makes you the director, producer, writer and composer of your own Hollywood movie musicals.

New Testament Concordance
$ 49.50 Midwest Software

Three disk set includes the entire NT. Multiple search functions.

Paper Models: Christmas Kit
$ 25.00 Activision

Make three-dimensional paper ornaments for your Christmas tree. Printer required.

Pedigrees
$ 25.00 Himanme Programs

Produces a 4 generation pedigree for each animal, using the standard format. Display or screen printouts.

Perfect College
$ 19.95 MindScape

Information on over 1600 4-year US colleges and universities. Also available with Mindscape's SAT Perfect Score.

Phonedial-64
$ 21.95 Input Systems

Accoustically dials a touch tone phone. Program includes a program for random, or sequential dialing through a selected exchange or dial up your own data list.

Pigskin Predictions
$:na Federal Hill Software

Statistically based predictions for football games.

Public Domain Collections
$ 2.50 Schneider Software

Price quoted is per disk, with a discount for quantity orders offered. A catalog on disk is available for $2.00. Over 300 disks with more than 8000 programs are available.

Right On Programs
$:na Right On Programs

Various programs of mainly educational applications. Prices from $18 on up.

RoadSearch
$ 34.95 Columbia Software

Take your next trip with a computer listing showing the best route. Database covering 487 cities and road junctions in the USA and Canada. Also available is 'RoadSearch - Plus' ($74.95) with which you can customize your roadmap with up to 250 towns/road junctions any where in N. America.

ScanAm Productivity Software
$:na ScanAm

Titles include 'Stat 64', 'Graf 64', 'SSP--Save, Search, & Print' (a calendar organizer), 'Tool 64', 'Mon 64', (ML monitor), and 'Forth 64'.

Seeker
$:na AF Systems

This system provides control over the ICOM IC-R71A communications receiver.

Shopping List
$ 29.95 Kledzik Company

Make up your shopping list electronically before you go to the supermarket. Over 800 items to choose from as you wander the electronic aisles.

Shortwave Database
$ 15.00 Ronald Pokatiloff

Database lists over 2000 English/North America short-wave programs. Editor and database search capabilities.

Skyles Software
$:na Skyles Electric Works

Titles include Rhythm King ($89.95), Busidata ($49.95), Taxware ($49.95), Busicalc 3 ($49.95), and others.

Speak Again
$ 49.95 Sound Professionals

This program for the handicapped allows the user to create a database of up to 700 sentences that can be spoken by a C64/voice synthesizer setup. Sentence construction is by joystick control.

Statistical Lottery/Lotto
$ 99.95 Professor Jones

For those who still believe there is some magical statistical method of predicting winning lottery/lotto numbers from past winners. Offers several means of analyzing past results. (-Staff)

SWL
$:na Microlog

Short Wave Listener cartridge, to receive radioteletype and morse code.

The Works!
$ 49.95 First Star

13 programs on disk, includes: letterwriter, typing teacher, finances, calendar pad, address book and more.

Ticket to Paris
$ 30.00 Blue Lion Software

A simulated trek through Paris that will both show you the sights and teach you a une peu of the language.

Time Star
$ 24.95 F/22 Press

Turns the computer into a powerful sequence timer and allows the user to program as many as 15 sequenced events. Can automatically operate the Omega d5500 enlarger.

Video Title Editor
$ 29.95 The Sortech Group

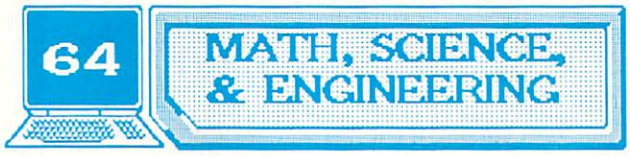
Create video title screens for your home videos or tape collection, with templates for special occasions.

Will Writer
$ 39.95 Nolo Press

Prepare a legal will without the expense of hiring an attorney.

Win
$ 99.95 f/22 Press

Lottery number picker.



Sky Travel
$:na Commodore *****

Commodore has done it again with an educational and fun masterpiece. This electronic planetarium displays more than 1200 stars and 88 constellations in their proper positions over a 10,000 year period. Printer dumps and more. A must buy! (-B.D.)

64-Beam Calc
$:na Hartley Software ****

For designers, architects, engineers, students or anyone who wants to quickly and accurately determine the deflection and stresses in a structural beam. User friendly and comes complete with graphics, prompts and function key driven aids (help, stop, main menu, continue), allows for 'what ifs'. Screen or printer outputs. Now released to public domain. $10 donation will get you manual & disk. (-B.D.)

C64 Curve-Fitting
$ 24.95 Nth Digit Solutions

Fits the user's data to over 20 different mathematical curve types and selects those which best fit the input data. The curves can then be used to make projections based on the data, and to express the data mathematically in the user's own programs.

Curvefit-64
$ 29.95 Nth Digit Solutions

Advanced math utility to convert your XY data numbers and turns them into as many as 23 different equations and then finds the ones that fit the data best. Can be used for such things as statistical analysis, business cost/sales analysis, or scientific research.

Comm-Stat
$ 99.00 StatSoft

Complete statistical package for business, science, education. Menu-driven, with data editor. Correlation, relation, significance tests, and more. Barcharts, scatterplots of output.

Distil Simu
$ 36.00 Engrsoft

Distillation simulator for chemical engineers. Features menu-driven, input error checking, hardcopy to most popular printers, tutorial, stagewise stepoff of stages on McCabe Thiele diagram and VLE curve fit and plot option.

Electronic Circuit Analysis
$ 39.95 Nth Digit Solutions

Includes two programs to analyze the frequency and phase output of most any electronic circuit. Analyzes ladder circuits of up to 200 components, and user specified circuits of up to 40 components and 25 component junctions. Allows resistors, capacitors inductors, NPN and FET transistors, op-amps and transformers. Output to screen or printer.

Electronic Design Utilities
$ 19.95 Nth Digit Solutions

Menu driven collection of 13 programs to design active and passive filters and to solve numerous electronic design problems including: resonance, Ohm's Law, decibel conversions, attenuators, etc.

FFTSA
$ 49.00 Sofcad

FFTSA stands for 'Fast Fourier Transform Spectrum Analyzer'. It can be used for both digital and analog signals. Spectrum plots are in discrete form. Function include AM, FM, pulse, sine and triangular waveforms. Included BASIC program allows any waveform to be analyzed & entered. Illustrated manual.

Lincad
$ 49.00 Sofcad

Linear circuit analysis and design program. Number the nodes of your circuit, enter elements, and make any measurements or changes you want. Transistors and/or amps can be modeled. Find frequency response, gain, input & output impedances. All parameters can be plotted as a function of frequency. Has a tone routine. Effects of element tolerances can be found.

Number Cruncher Stat System
$ 59.95 Number Cruncher Stat Systems

An integrated, menu-driven statistical system including multiple regression, oneway ANOVA, t-tests, chi-square and more.

RNAV3 Navigator/w
$ 39.00 Briley Software

Flight planner, VOR/DME radio data, 11 western states. Only needs starting and ending points. Also available version for 17 northeast states.

Robotics Laboratory
$ 115.00 Parsec Research

Interface and software for robotics experimentation. Forth-based PaRcl robot-control language on disk. Full kit including Fisher robotics experimentation kit available for $279.00.

Science Software Series
$:na David Eagle

A series of 'scientific' software related to hobby topics like hot air ballooning, astronomy, and rocketry in BASIC, priced in the $7-$15 range.

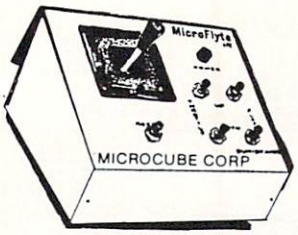
SPP-Statistics for PCs
$ 295.00 Kobetek Systems

Menu driven, includes in part: descriptive statistics, cross-tabulation, correlations, linear/quadratic/cubic regressions and multiple regressions, one-way and two-way anova and non-parametric stats. Missing values supported throughout. Data displayed as histograms, scatter plots, normal probability plots, box diagrams and tables. Junior version available for $75 (US).

STAT
$ 29.95 Melcher Software

A series of 11 statistical programs for students or professionals. Bar graph generator, binomial frequencies, confidence intervals, and more. Output to screen or printer.

The MicroFlyte JOYSTICK



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McMurphy's Mansion -- text adventure $14.95
Handy-Capper -- race handicap system ...$14.95

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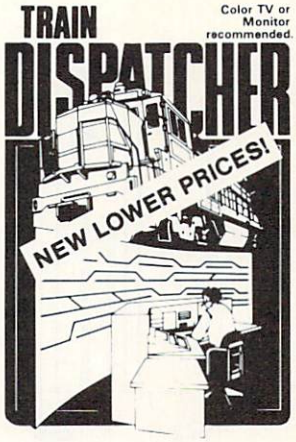

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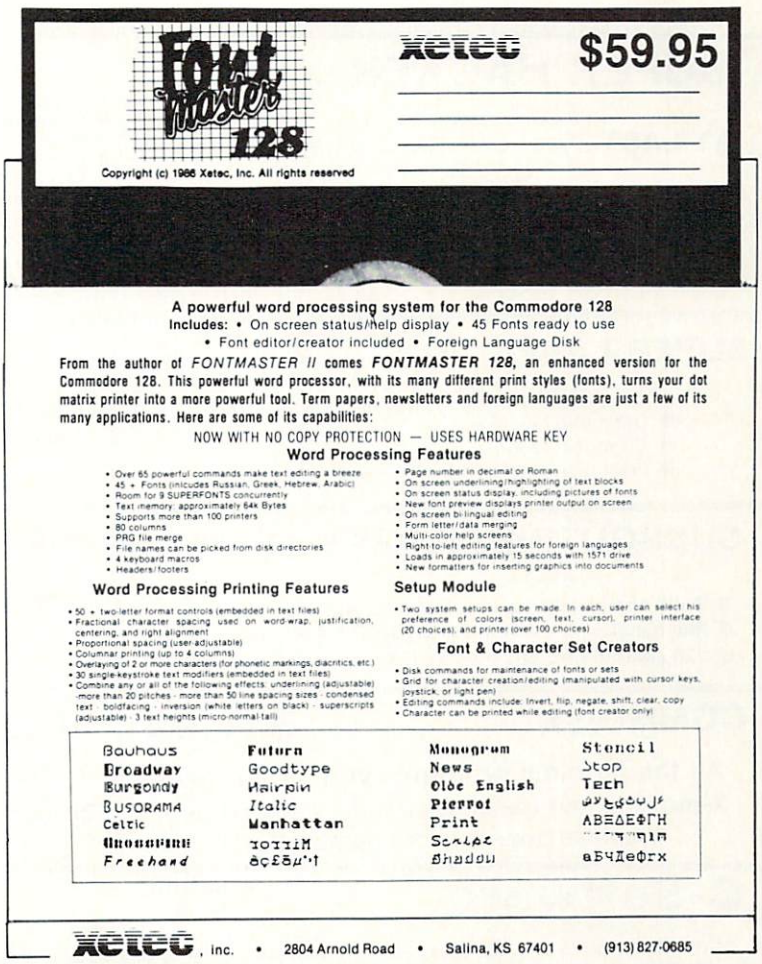

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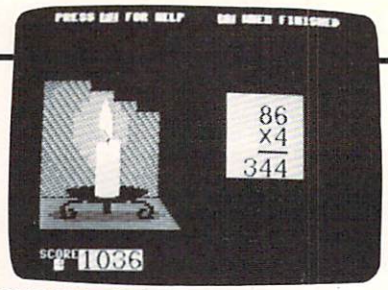

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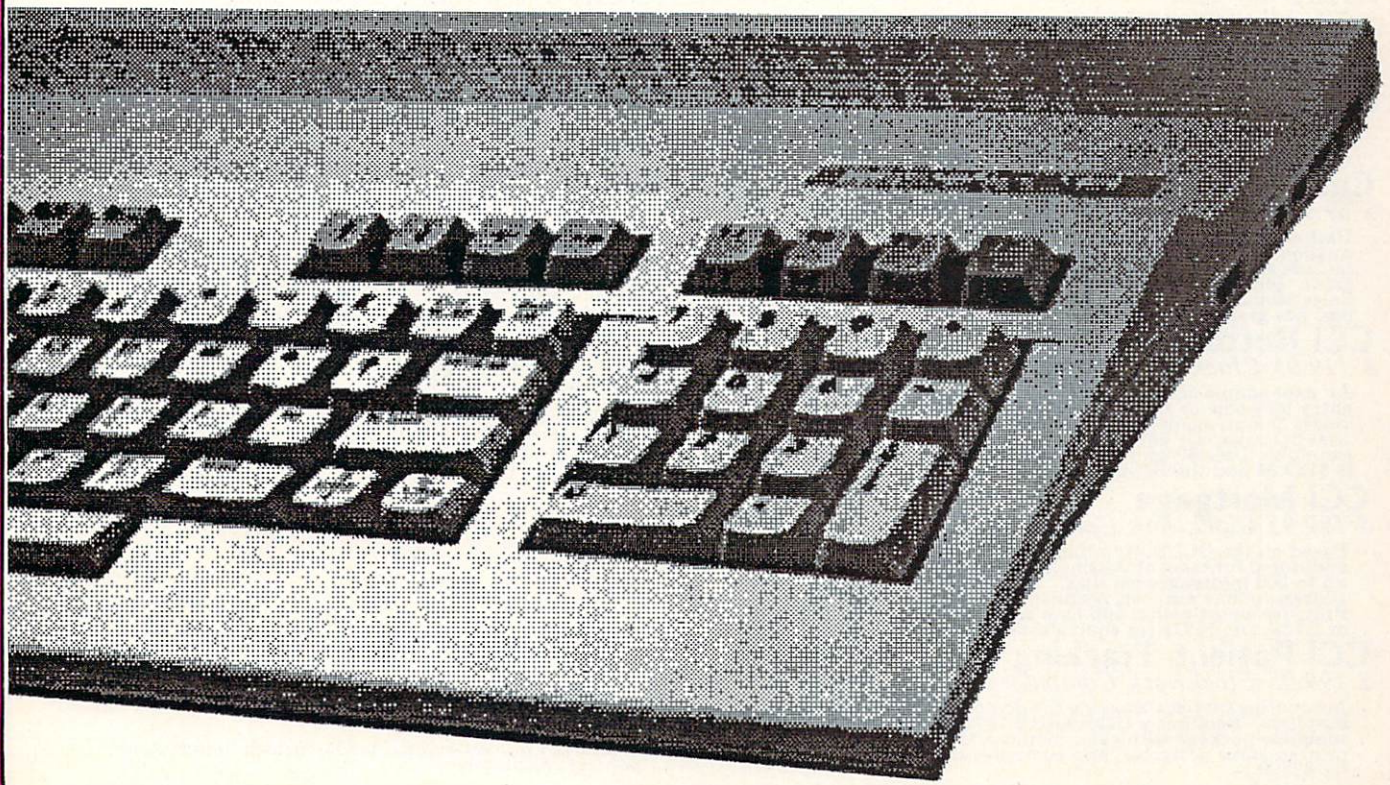

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Calc Result Advanced
$ 99.00 ScanAm ****

A 3-dimensional spreadsheet that supports split screens, windows, color graphing, extensive help screens and complex formulas. Search and sort routines would make this powerful package exceptional. The 64 and 128 versions are on the same disk. Formerly from Handic. (-B.D.)

Pocket Planner 128
$ 49.95 Digital Solutions ****

250x100 cell spreadsheet with 16 digit accuracy, sideways printing, smart evaluation, 16 colors, spreadsheet overlays, windows, etc. Familiar commands to other Pocket (formerly Paperback) Software. While this isn't the most powerful spreadsheet, it's ideal for beginners to learn on. (I learned spreadsheeting on this one myself.) If you're a relatively casual user, this is a good one to use.

Vizastar 128
$ 89.95 Progressive Peripherals ****

The popular 64 integrated package for the C128. Added features include 80-col., keypad, improved speed, more memory, and added features. Formerly from Solid State.

Swift 128
$:na Skyles Electric Works

This is exactly the same as Swiftsheet 128, but with better documentation, and it doesn't include the C64 40-column version. Lookup, popup menus, 64x254 area. (-Staff)

Swift Calc 128
$ 59.95 Timeworks

Requires an 80 column RGB or monochrome monitor. Offers a 250x250 cell sheet, 17 digit math, if-then-else, min/max/avg and bar charts. Includes Sideways, which runs in 64 mode.

Swiftsheet 128
$:na Cosmi

This is exactly the same as Swift 128, but with different documentation, plus it includes a C64 40-column version. Lookup, 64x254 sheet, popup menus, more. (-Staff)

PaperClip II
$ 79.95 Batteries Included *****

All of the powerful capabilities of C64 Paperclip plus 'what-you-see-is-what-you-get' display of underlining, boldface, etc., 80-column display, 80, 160, and 320 column preview, high-speed spelling checker, and built-in integrated terminal software. This version also includes optional word-wrap, faster scrolling, and better editing and text manipulation features. Replaces Paperclip 128. Latest version: F. Dongle. (-M.B.)

Pocket Writer 128
$ 49.95 Digital Solutions ****+

A what-you-see-is-what-you-get wordprocessor. The display shows your text formatted just as it will appear on your printer, including bold face, underlining, italics, etc. File options will let you read or write compatibly with just about any other wordprocessor. Includes spelling checker, column functions, & foreign characters. I've used this one extensively & I like it. Formerly Paperback Writer.

SuperScript128
$ 79.95 Progressive Peripherals ****

Nice menu-driven wordprocessor with many features. The main claim to fame of SuperScript is that it can be integrated in C128 memory with Superbase128 to provide simultaneous wordprocessing/database capabilites, as well as Superbase-controlled personalized mailings. (-M.B.)

Braintrust 128
$ 21.95 Country Road ***+

Two programs, BrainStorm 128, an idea (or outline) processor, and BrainPower 128, a word processor that integrates with the idea processor to produce documents from your outlines (it can also be used independently). Nice integration of modules, very handy scroll-thru outline from wordprocessor. Some limitations to outline size and wordprocessor functions, but great for typical school and home applications. (-M.B.)

Vizawrite 128
$ 89.95 Progressive Peripherals ***+

One of our current 'in-house' wordprocessors due to its support of the Laserjet+ printer. Pull-down menus, includes 30,000 word spelling checker, auto-pagination, on-line help, calculator, variable width columns and 3 fonts (CBM & Epson printers only). Still has a few bugs but has some unique features. Erg-card in #10. Formerly from Solid State. (-M.B.)

Word Writer 128
$ 69.95 Timeworks ***

Requires 80 column RGB or monochrome monitor. Offers variable line length, word wrap, cut-and-paste and a spelling checker. 64k of available space. Insert mode is extremely annoying, & there is no 40-column option, but now enhanced with speed keys, on-screen highlighting, super/sub script, etc. Main advantage is same user interface as other Timeworks titles. (-M.B.)

Critic II
$ 39.00 Quantum Leap

80-column wordprocessor. It can display multiple fonts while editing.

Fleet System 3
$ 69.95 Professional Software

648x80 column text capacity, up to 120-column editing with horizontal scrolling. 90,000 word dictionary/spell checker to which you can add 10,000 of your own words. Includes an online thesaurus. Not a WYSIWYG word processor, but it does have a preview function. Comes on three sides of two disks.

Fleet System 4
$ 79.95 Professional Software

Fleet System 3 and Fleet Filer bundled together.

Fontmaster 128
$ 59.95 Xetec

Upgraded from the 64 version, this is a wordprocessor for many languages. Supports over 100 printers with more than 40 fonts.

Ghost Writer 128
$ 39.95 HesWare

Auto-format, 30,000 word spellchecker, mail merge from databases, block functions.

Term Paper Writer
$ 59.95 Activision

A four-stage program for term paper needs. Includes a Notetaker card file, an outline processor, The Writer for actual text entry and editing, and finally, a footnoter/bibliography compiler.

The Critic 128
$ 39.00 Quantum Leap

Full 80 column support with various fonts and full global commands and easy to use.

Wordfile 128
$ 24.95 Michaelsoft

Wordprocessor with mailmerge functions (requires dfile 128). Includes word-wrap, file linking, windowing.

Wordpro 128
$ 39.95 Spinnaker

An 80-column only version of the popular C64 version, Features include an undo buffer, true proportional spacing, multiple column printing, as well as all the standard wordprocessor functions. Now bundled with File Pro 128 dbms with mail-merge capability, and spell-checker. Formerly from Pro-Line.

SuperBase128
*$ 99.95 Progressive Peripherals ******

Our 'in-house' database manager. Several improvements over the C64 version: additional BASIC 7.0 commands, 80 columns, and can be integrated with SuperScript in memory so you can switch between the two. (-M.B.)

Pocket Filer 128
*$ 49.95 Digital Solutions ****

DBMS that supports up to 2000 characters in up to 255 fields per record, unlimited records, sort up to 9 criteria, password protection, on-screen help, fast loads, and 16 colors. Easy to use, but not a heavy duty DBMS. All commands and operations are similar to other Pocket software. Formerly Paperback Filer. (-Staff)

Dfile 128
*$ 24.95 Michaelsoft **+*

DBMS with fast memory management of records, fields may have up to 160 characters and up to 2 field sorting. You will probably want to buy 'dfile 128 Utility Programs' also, if you want to add fields, export records or you exceeded dfile 128's record capacity. Strictly memory-based and somewhat prone to crash.

Consultant
$ 59.95 Batteries Included

Loads up in either 40 or 80 column format (no switching back and forth). Other than the 80 column and autoboot it's identical to the 64 version (included on the disk).

Data Manager 128
$ 59.95 Timeworks

Requires an 80 column RGB or monochrome monitor. Offers up to 64 screens in which to define a database of up to 100 fields and 4096 characters. Text fields are limited to 16 characters each. The 'validate' field is nice for exclusive data. Can sort up to 10 fields deep and includes statistics and bar chart capabilities. Now enhanced for more convenient record browsing.

Data Master 128
$ 29.95 Bouncing Dog Software

Up to 25,000 records through dynamically linked files. Provides all the standard DBMS features along with on-line help, and report & label generator.

FGS
$ 21.95 Byteware

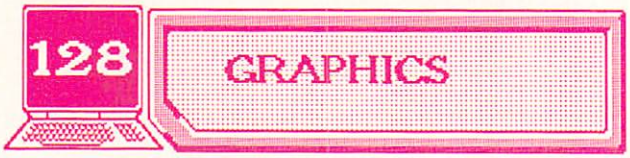
Specialized data system for the genealogist. Allows the genealogist to enter information for a Family Group Sheet and saves information to disk or tape. Prints standardized Family Group Sheet. A MINI-UTY utility program for use with FGS and PED C is available for $13.95. It contains disk utilities, date estimator, inquiry letter printer, and label printer.

Flexfile 128
$ 49.95 Cardinal Software

The C128 incarnation of Mike Riley's FLEXFILE, which has been with us since the days of the PET. Up to 40 fields/record, up to 10,000 records per disk. 80-column display, uses full 1571 capacity, in-memory HELP files.

PED C
$ 21.95 Byteware

Specialized data system for the genealogist. Allows the genealogist to place information for a pedigree chart in a disk or tape file for later recall or editing. Prints standardized pedigree charts. Also usable by breeders.



CADPak C128
$ 59.95 Abacus Software

Keyboard or lightpen driven CAD package is upgrade of C64 version.

Chartpak-128
$ 39.95 Abacus Software

C128 version of Chartpak-64.

Home Designer
$ 45.00 Briwall

2-D CAD package claimed to produce drawings accurate enough to make bluprints from. Object-oriented to give better resolution. Features include True Scaled Text, up to 5 layers, Library Figures, Rotation, Object Snap, Mirroring, Circles, Arcs, etc. Most popular printers are supported.

T.H.I.S.
$ 59.00 Micro Aided Designs

Lightpen driven CAD package for the 128 that absolutely requires the 1750 (512K) RAM expander. The price with a Design Technology lightpen is $159. Features include 4 active drawing screens, 100% tracking in all modes, adjustable grids, cut, copy, paste, tumble, roll, rotate, variable line width, 48K print buffer, disk functions, 7 hardcopy sizes, 7 font styles, and much more. Future modules are planned.

MIDI Processor
$ 165.95 Sonus

Lets user load files from Sonus' sequencing software and edit from there. Includes micro- and macro-editing functions such as assigning channel tracks, transposing tracks, velocity, automatic correction, un-bouncing, and many others. Also includes an Event Editor.

Sonus MIDI Products
$:na Sonus

Sonus manufactures a wide variety of both hardware and software for just about any music project you have in mind. Check the MIDI programs listed in the 64 section, since they will all work on the 128 and some of them have specific 128 versions. Sonus also markets sound disks and librarians for several different synthesizers.

Super Sequencer 64/128
$ 40.00 Sonus

Uses full 64/128 memory. Has system exclusive librarian for controlling and storing sound patches/functions. 8 tracks, 16 sequences, four songs in memory at once. Features include autocorrect, bounce tracks, step record, sequence append, and step record & play. A smaller version called 'Glasstracks 64' is $15.

Rhythm King 128
$ 89.95 Skyles

Turns your 128 into a drum machine. Has 8 built-in percussion sounds which can be played 3 at a time. Handles 'patterns' of up to 24 bars, with up to 32 notes per bar and up to 64 steps per note. Up to 64 patterns can be linked together and patterns can be repeated up to 255 times within one song. Comes with an audio (monaural) output cartridge that plugs into the cartridge port.

128 TELECOMPUTING (software)

Bobsterm Pro 128
$ 80.00 Progressive Peripherals *****

This one does it all: 40 or 80 columns, emulates VT-100 or ADM31, 1660 and 1650 compatibility, and easy to use.
(-Staff)

Paperclip II
$ 79.95 Batteries Included ****

Huge capture buffer shares all word processing features or you can send and receive to disk. Xmodem/CRC and Punter C1, ASCII or CBM translations, auto-dial/answer with full selection of modems and changeable comm parameters to 9600 baud. Extra carriage returns can be stripped from text. Would be 5 * with CompuServe B protocol, split screen and macros but a dynamite combo nonetheless. Dongle.

Sixth Sense 128
$ 49.95 Prism ****

Xmodem/CRC and CompuServe B, macros, split screen, auto dial/answer for Hayes and others, phone memory, changeable comm parameters to 2400 baud, 40/80 columns, two text editors, full disk access, recognizes expansion RAM. Everything but Punter, but compared to BobstermPro the pulldown menus (despite keyboard bypasses), 800-line drum buffer and documentation seem cumbersome. Copy protected.

SpeedTerm - 128
$ 39.95 Abacus ***

VT52 emulation with 14 redefined keys, 300 or 1200 baud 40/80 columns, Xmodem and Punter C1, auto-dial and answer but no phone number memory, changeable comm parameters, full disk access, 8 function keys for macros. Type-in commands rather than menus, no split screen. Documentation has tutorial and index. Separate program translates PETASCII to ASCII. Copy protected.

128 SPORTS MANAGEMENT

LeagueBowl-40
$ 210.00 Briley Software

A professional package for secretaries of bowling leagues. Handles up to 42 teams plus subs (about 420 bowlers) per league. Full calculating features and many options. There is also an 'Entry-Level' version available and many utility programs also available for each.

128 PROGRAMMING TOOLS

BASIC Compiler 128
$ 59.95 Abacus Software

BASIC compiler to machine code, p-code or both. 80-page programmers manual included.

Blitz 128
$ 99.95 Skyles Electric Works

BASIC compiler that features high speed P-code, small P-code execution. Handles all BASIC 7.0 commands.

Gnome Kit 128
$ 39.95 Kira

Utility package that provides added commands for DOS, BASIC, and ML programming. Commands include such things as Merge, Scroll (backwards and forward), Find with Replace, Renumber, Delete, Dump and Trace. An ML monitor and a disk editor are included. Both 64 and 128 versions are on the same disk.

Gnome Speed
$ 59.95 Briwall

This compiler handles most of the BASIC 7.0 commands, programs up to 2000 lines, 8000 jumps, 749 distinct variables. The required 11K runtime module can be copied onto your program disk. Directives can be embedded into your BASIC program, which will store line numbers in the compiled code for easier debugging. Dynamic and multi-dimensional arrays are permitted.

Merlin 128
$ 69.95 Roger Wagner

Full-blown native 128 assembler includes file management system, editor system, assembler system, and linker. Recognizes over 50 pseudo-ops. Local and global labels, entry & external label definitions for the linker. Macro library included. Comes with the Sourceror disassembler and utility programs.

Petspeed 128
$ 49.95 Metacomco

This venerable BASIC compiler has been around since the early days of the PET. Four-pass compiler is for the patient user. Lots of PD information is available on Petspeed. Handles all BASIC 7.0 commands.

Rebel Assembler
$ 29.95 Nu-Age

Assembler with advanced editor, fast assembly. C128 version includes split-screen editor on 80-column screen, on-screen help, and more. C64 version included.

Symbol Master
$ 49.95 Schnedler Systems

Symbolic disassembler for converting 6502, 6510, 8502, etc. machine lang. programs into highly readable source code. The use of labels, coded as to usage, on each line referenced by another instruction allows one to see the overall structure and flow of a program. Outputs source code files compatible with each of 6 different assemblers for editing and re-assembly.

The Development System
$ 79.95 Access Software

C128 compatible macro assembler with advanced editor, included Spritemaster sprite editor/animator.

XREF-128
$ 17.95 Abacus Software

A BASIC programmer's tool that indexes the usage of all variables, line numbers, numeric constants and BASIC keywords. It tells you which line uses a given variable name or which line numbers use a given BASIC command. Cross reference can be listed to screen or printer.

Zoom! 128
$ 29.95 Skyles Electric Works

C128 ML monitor with a save command for code from location A to be re-loaded to a different location B.

128 PROGRAMMING LANGUAGES

COMAL Super Chip
$ 29.95 Comal Users Group ****+

Adds over 100 new commands to the COMAL 2.0 cartridge (which is obviously required). Over two dozen of the commands are specifically for the 128, including access to the 80-column screen, double res graphics, keypad, and the FAST mode.

Oxford Pascal 128
$ 49.95 Metacomco ,

2 to 5 times faster than BASIC, supports graphics and sound, ability to chain programs for complex tasks. No string data types. Uses enhanced BASIC editor. Includes less powerful but unique Pascal interpreter for quick debugging, which makes this an excellent teaching system. Uses all 128K.

COBOL 128
$ 59.95 Abacus Software

Faster running COBOL compiler than its predecessor with the added C128 features, like memory and 40/80 columns. Formerly Visionary COBOL 128.

Kyan Pascal 128
$ 69.95 Kyan Software

Upgraded version of Kyan's C64 compiler.

Super C Language
$ 59.95 Abacus Software

Includes editor, compiler, linker and handbook. The editor lets you create source programs (up to 41k) containing 80 character lines and features horizontal scrolling, and compiles it to 6502 machine code. Linker lets you combine up to 7 modules for later execution. (-M.B.)

Super Pascal 128
$ 59.95 Abacus Software

A development system with high speed DOS. Full J&W implementation with 11-digit fp, overlays, exact error messages, free runtime package.

128 BACK UP UTILITIES

Copy II 64/128
$ 39.95 Central Point ****

Copies nearly all protected software using either a 1571 or 1541 disk drive. Recreates all errors, half tracks, non-standard sectors, changed data rates, duplicate sectors and many special track formats. Works with printer and other devices plugged in, maximum 4 swaps, and NOT copy protected itself. (-M.B.)

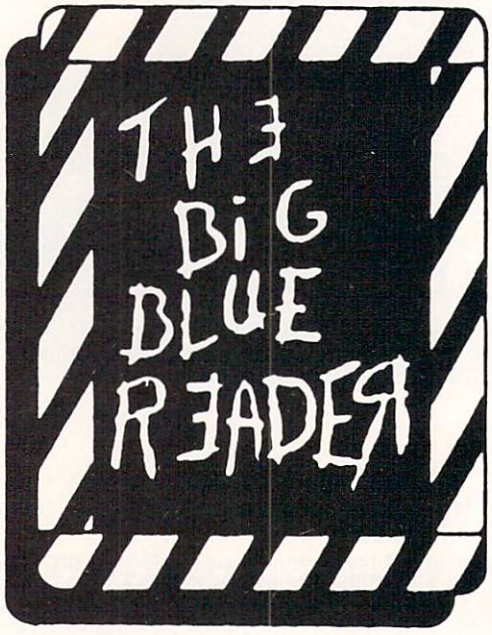
Super Clone Machine
$ 49.95 Micro-W

Super Clone Machine includes copiers for 1541 and 1571 drives, many additional tools for error writing, sector editing, etc.

128 UTILITIES

Physical Exam
$ 39.95 Cardinal Software ****+

Drive calibration program on a specially prepared disk. Check and adjust speed, head stop, and alignment. Includes replacement 'soft stops' to improve older drives. Provides printed record of alignment status. Highly recommended for 1541 owners, and an absolute necessity for clubs. Now available for 1571, 4040 and 8050 disk drive formats. (-M.B.)



Big Blue Reader
$ 31.95 S.O.G.W.A.P. ****

Allows the C128 and 1571 to read MS-DOS text files and convert them to standard Commodore files, and vice-versa. Allows for exchange of wordprocessing files between IBM-PC and C128. Fast and easy, with an excellent user interface. My only complaint is that it will only copy a single file at a time. (-M.B.)

Mach 128
$ 49.95 Access Software ***+

Gives a C128 or C64 fives times faster program loads from a 1541 disk drive. Includes a 40 or 80 column screen dump and utilities on disk to provide 4k of BASIC 2.0 memory expansion, cataloging and organization C64/C128 mode select switch and a reset switch. No speedup to 1571 activity.

Matrix
$ 59.95 Progressive Peripherals **+

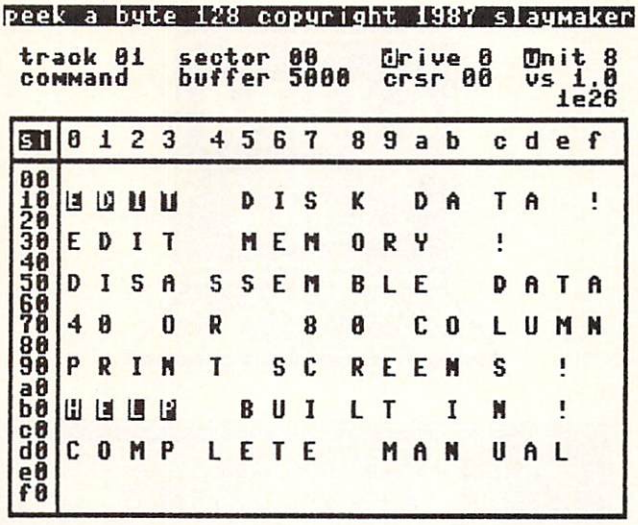
An expensive and somewhat disappointing utility package for the C128. Its main claim to fame is in making the keypad, 80-column display, etc., available to C64 programs. It pretty well does for your own BASIC stuff, but will not work with most C64 commercial software. We have also heard reports of incompatibility with some C128s. 1571 disk copier included. Many of the same features are available in public domain (-M.B.)

C-128 Micro Dr.
$ 150.00 Micro R&D

A diagnostic cartridge to plug into your dead or ailing 64 that will tell you whether the problems lie in RAM or ROM. Even works with 'dead-screen' computers.

Hack Pack
$ 39.95 Metacomco

Features include a RAM Disk that responds to all the regular disk commands, a Toolkit that adds eight new commands, and a Compressor to reduce program size.



Peek A Byte 128 V2.0

$:na Quantum Software

Upgrade of the 1541 track editor for the 1571. Still under development, available soon. (-M.B.)

Source Linker

$ 9.95 PRG Software

Lets you reuse parts of your BASIC programs, link, compress and expand code, rename variables, renumber lines, etc. A separate manual is available for $19.95.

Time-DOS

$ 19.95 Family Software

Time/date stamper wedge-type program for dating your disks.

128 PRODUCTIVITY UTILITIES

Partner 128

$ 69.95 Timeworks ****

Cartridge-based 'Sidekick' for the C128 can be push-button activated from within applications programs. Includes notepad, calculator, phone list, calendar, and more, plus hooks for user-written expansion. Also includes integral screen-dump utility. Works great...this may be the best yet from Timeworks. (-M.B.)

Desk Manager

$ 39.95 SoftSync ***

This poor man's Sidekick clone lacks the one feature that makes Sidekick so appealing: it takes over your whole computer. SoftSync suggests dedicating a whole system to Desk Manager. Includes notepad, phone index, scheduler, mini wordprocessor, calculator. Includes C64 version on same disk. (-M.B.)

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Sideways 128

$ 29.95 Timeworks

Can print any normal text file to virtually any width by printing sideways on your printer. 80-col. screen.

COMPUTER TRIVIA

The Oxford English Dictionary still defines "computer" as "a person employed to make calculations".

128 CONVENTIONAL GAMES

Cardinal Game Disks

$ 19.95 Cardinal Software

BASIC titles include Mad Libs & Other Fun Games, Puzzles,Learning Can Be Fun, Battle Games, Logic Games. Price quoted is for each disk.

128 ADVENTURES (TEXT)

Trinity

$ 39.95 Infocom

A weird combination of historical accuracy and Alice in Wonderland, you travel through time to experience a-bomb blasts!

64 ADVENTURES (GRAPHIC)

The Scoop

$ 32.95 Telarium

You are a reporter trying to get 'The Scoop' on a murder story in this C128-only action/adventure. The plotline comes from a story by Agatha Christie.

128 STRATEGY & SIMULATION GAMES

Battlefront

$ 39.95 Electronic Arts

'Corp Level Command in World War II'. The player can take command at Crete 1941, Stalingrad 1942, or Bastogne 1944.

Championship Golf: Vol. I

$:na Gamestar

Play like the pros at the Pebble Beach golf course.

The Great War

$ 29.95 Free Spirit Software

One- or two- player simulation of World War I.

128 MISCELLANEOUS RECREATION

The Experiment

$ 20.00 Quantum Leap

Interactive AI type program that 'learns' as you communicate with it, building a vocabulary and a library of information.

128 TEACHING & ADMINISTRATION

CRIMP
$ 35.00 Wayne Levine

CRIMP stands for Class Record Information Management Program. Takes care of recording test scores, printing seating charts, progress reports. Grading can be done using a standard curve or a percent.

128 MISCELLANEOUS SOFTWARE

BASICally Simple 128
$ 19.95 Free Spirit Software

Tutorial covering BASIC 7.0.

Family Tree
$ 49.95 Genealogy Software

Enhanced from the 64 version, this one has a capacity of 1200 names per disk and 80-column display. Outputs to screen or printer.

I am the C128
$ 34.95 Activision

Step by step tutorial on C128 features, BASIC, etc.

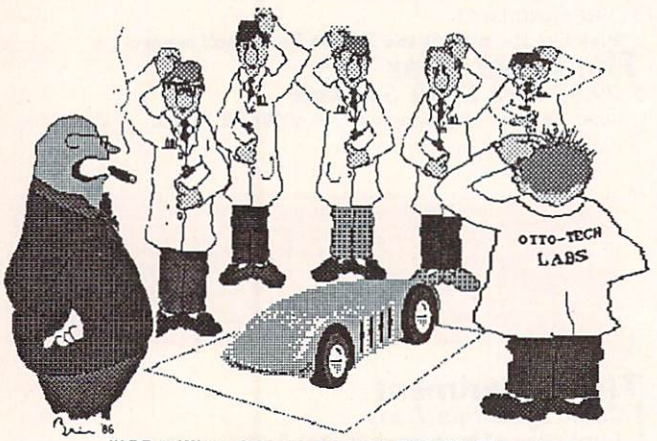
Legal-ease II
$ 49.00 Quantum Leap

A collection of text files to use with Quantum Leap's Critic wordprocessor to print out legal documents. Files include simple will, contract agreements, bill of sale, rental agreements, and others.

128 MATH, SCIENCE, & ENGINEERING

Deluxe Circuit Analysis C128
$ 59.95 Nth Digit Solutions

Analyzes the output of electronic circuts of up to 43 junctions and 100 components; resistors, capacitors, coils, transistors, etc. Output is plotted in hi-res combined with numeric data on screen. Screens can be saved to disk for use with drawing programs. Back-up disk is included.



"$20 million for an expert CAD/CAM system and this is it's idea of the perfect 4-door?!"

CP/M for the C-128

CP/M BUSINESS ACCOUNTING

Desktop Accountant Series
$:na Rocky Mountain Software

Modular accounting series, available for $395 with four modules: GL,A/R,A/P,Pay, or separately at $250/ea. Also available: Time & Billing ($495), Inventory ($295) DBMS ($495).

Mini-Accounting Series
$:na Paradigm

Modular accounting package. Ledger ($150), Billing ($150), Inventory ($50), A/R-A/P (?).

Mini-Billing
$:na Paradigm

Billing with formats that can be customized.

Time & Billing
$ 395.00 Paradigm

A billing program designed primarily for lawyers, but adaptable for other professions.

CP/M SPREADSHEETS

Calcstar
$ 145.00 MicroPro

Wordstar-compatible spreadsheet.

SuperCalc 2
$ 295.00 Sorcim

Spreadsheet and data manager compatible with Wordstar and DIF files.

SuperCalc
$ 195.00 Sorcim

Well established spreadsheet. Be sure to check the version before you buy - not all of them work on the 128.

CP/M WORDPROCESSING

Wordstar
$ 495.00 MicroPro ***

The original CP/M word processor, against which all others are judged. Lots of disk accesses involved, and many complex key combinations are required to get the job done. Better than anything that came before it, but outstripped by many native C128 wordprocessors now. The main strength of Wordstar is compatibility with other systems, or some advanced features such as footnotes or complex printer control. (-M.B.)

AlphaText
$ 34.95 Cranberry Software Tools

Text processor that operates in pure ASCII code (it doesn't have to convert from PETASCII) to ease printer use. Includes a text editor, spelling checker, and printer enhancer that includes three built-in NLQ fonts for Epson (and compatibles) and Okidata printers. A font editor is also included. One of the few CP/M products that comes in a C128 specific format.

Kamas
$ 99.95 Kamasoft

A cross between an outline processor and a programmable DBMS. Contains a Forth-type programming language that lets the user structure and restructure outlines under program control. Compatible with Kamasoft's Out-Think outline processor.

MailMerge
$ 250.00 MicroPro

Adds form letter capability to Wordstar.

Out-Think
$ 69.95 Kamasoft ****

CP/M+ outline processor, rearrange sections and access info by keyword (even if it's misspelled). One of the very best CP/M programs we've seen so far for the C128. Easy to use, powerful text leaf editor with Wordstar-like commands. Suffers from long disk accesses, as do most CP/M programs, but otherwise a fine program. (-M.B.)

Perfect Writer
$ 69.95 Commodore

Wordprocessor with split-screen windowing, spelling checker, and Thesaurus.

Spellstar
$ 250.00 MicroPro

Spelling checker for Wordstar.

COMPUTER TRIVIA

The CP/M operating system was originally developed to aid in the creation of an astrology program.

dBase II
$ 495.00 Ashton-Tate

The quintessential programmable database system generator. Tested and approved by Commodore for the C128, though you will have a tough time finding a copy in 5 1/4 format. If you can find an Osborne version, it should work fine.

Infostar
$ 495.00 MicroPro

DBMS compatible with Wordstar. You will have trouble finding this in a suitable 5 1/4 format.

Perfect Filer
$ 69.95 Commodore

DBMS with built-in forms.

Waltz Lisp
$ 169.00 ProCode ****

Formidable LISP system for CP/M. Included mini-PROLOG written in LISP. By our tests, it works fine on the C128. Suitable for serious exploration into the world of artificial intelligence. (-M.B.)

MTBASIC Compiler
$ 49.95 Softaid ***+

Multitasking BASIC compiler with recursion, windows, etc. for Z80/CPM environment. Great for writing applications in familiar BASIC and compiling them down into fast Z80 machine code. Also lets you write custom applications that use data already available in CP/M formats from other machines. (-M.B.)

Janus ADA
$:na R.R. Software

Several Ada subsets available. The only respectable Ada for 8-bit machines. Unknown whether Janus will run on a C128 at this time.

Josef
$ 45.00 Kobetek Systems

An educational programming language for the C128, announced early in the development of the 128 and finally in beta testing. (Spring '87).

Nevada Languages
$ 49.95 Ellis Computing

Inexpensive languages for CP/M systems, as yet untested on C128. Pilot, FORTRAN, COBOL, Pascal, BASIC, etc., all available in Kaypro IV format.

Public Domain C Source Code
$ 8.00 C Users Group

C source code for your 128. Over 100 formats with 116 volumes available. Price is for each volume and inludes shipping. Catalog can be had for $10.

Turbo Pascal
$ 49.95 Borland

Highly praised Pascal for CP/M systems. Toolbox, tutorial package available. Be sure to get the Osborne version.

XPIP
$ 29.95 System Facilities ***+

CP/M utility disk now enhanced, since the review in #10 to include a separate file sort program, ability to display and tag files you want to operate on. Available in Kaypro 2, IV or 100+ other 5&1/4 inch formats. (-M.B.)

Big Blue Reader CP/M
$ 44.95 S.O.G.W.A.P.

This CP/M version of Big Blue Reader does everything the regular 128 version does, and adds the capability to read and write CP/M files as well. You can transfer text between MS-DOS, regular Commodore files, and CP/M format, all interchangeably. It does everything you want it to and does it correctly.

ConIX DOS
$ 79.95 Computer Helper

Shell-like front end for CP/M-like UNIX.

Write-Hand Man
$ 49.95 Poor Person Software ***+

'Sidekick' for CP/M includes Notepad, Phonebook, Calculator, and more. M/L expandable. Functions are disk-loaded to save space, takes about 1.5K away from TPA area, can be called from within most CP/M applications. These tools are not fancy, but nicely functional, and as close to multi-tasking as you will see under CP/M. (Use WHMT version on Osborne 2 disk, configure to ADM31 terminal.) (-M.B.)

COMPUTER TRIVIA

Konrad Zuse built the *Z1*, the first stored-program computer, in Germany in 1936.

CP/M GENERAL EDUCATIONAL

Queue Educational Software
$ 39.95 Queue

Price quoted is for each disk. Titles include 'Adding with Carrying', 'Adding Without Carrying', 'College Board Score Builder', 'Long Division', 'Multiplying Single Digits', 'Subtraction I & II', and programs on decimals and percentages.

CP/M MISCELLANEOUS SOFTWARE

CP/M 128 Public Domain
$:na National Public Domain

Software from the CP/M users groups. For sale or rent.

CP/M Kit
$ 29.95 INCA

Three disks of public domain software and a booklet to initiate the 128 owner into the mysteries of CP/M. It assumes no prior knowledge of CP/M. Works with either the 1571 or 1541.

CP/M Library
$ 9.95 INCA

Collection of approximately 20 public domain disks tested for 128 compatibility. Price is for each disk and they can be ordered in 1571 or 1541 format.

CP/M Public Domain
$:na Poseidon Electronics

Extensive public domain CP/M library with C128 support. $2.00 and a 56-cent SASE will get you a catalog.

CP/M Tutor
$:na Computer Answers

A tutorial on the basic terminology and operation of CP/M on the C128, including reference card & quiz.

Cramer Public Domain Library
$ 8.00 Cramer

SASE for list. $8/disk.

DynaComp Products
$:na DynaComp

A wide selection of scientific, engineering, financial, statistical, educational, and other programs. Their catalog is 196 pages of small type. That's a lot of software.

Elliam Public Domain library
$ 7.50 Elliam Associates

6000 programs on 300 disks. Catalog is $7.50.

CP/M SCIENCE, MATH, & ENGINEERING

Statistical & Business
$ 100.00 Lionheart

Statistical and business program series, PERT, Monte Carlo, etc. in $100 range.

INFO Reader Mail

continued from pg. 10

update only work disks made with the copy program on the GEOS disk itself.

Berkeley also says that the latest wave of GEOS programs is being supplied with a free update disk in the box, and that registered owners can obtain a backup for $5.00.

As for the online update policy, Berkeley says that 1.3 of the DeskTop is now available online, and, though they are behind in getting updates online, it is still their intention to offer online updates of all GEOS modules. -Mark & Benn

Mail From: Skyrat
Date: Sunday 18-Jan-87 20:24 est

After reading your latest issue, I have just three things to say:

(1) More RJ Mical columns!
(2) More RJ Mical columns!
(3) More RJ Mical columns!

Thanks!

Mail From: Skyrat
Date: Tuesday 20-Jan-87 20:24 est
Re: My E-Mail to you several days ago.

I forgot to add one thing: More R.J. Mical columns!

Well, guy, fortunately for you we plan on having more RJ Mical columns in the future, just as often as that busy character can squeeze in a few moments to give to us! -Mark & Benn

Mail From: David M
Date: Saturday 17-Jan-87 17:33 est

I just picked up the JAN/FEB issue of INFO and I must congratulate you on a wonderful issue. It's the ONLY magazine I read from cover to cover. About your editorial on Sysops: I had at one time Sysoped for PlayNET and they were from what I have seen or heard more giving to their Sysops than some. I was given free time during the time I worked plus 5 free hours a month. I frankly agree with you that most Sysops deserve a lot better and would like the trend to improve. Otherwise, can you say: STRIKE! I think your editorial comment has opened a can of worms for the networks...Hooray!

David Martin

Thanks, David. Most of the people we've talked to agree, including sysops online. We don't intend to let the issue die. -Mark & Benn

continued on pg. 121

Hardware and Information

TELECOMPUTING (hardware)

Novation 2400 Professional
$ 795.00 Computer Resources *****

Top of the line, it's expensive but offers everything: fully Hayes compatible, performs to 2400 Baud, 6 touch-sensitive LCDs for English status reports, cycles thru test mode and a little melody on power-up. Beautiful housing & extensive docs. Overcame an Amiga hardware failure (#1488 IC glitch) when other modems wouldn't -- I swear by Novation. Requires special Amiga cable, or RS232 interface for C64/128.

SmartTEAM Modem
$ 295.00 MOrrison & DEMpsey Comm. *****

Best price/performance ratio of the modems reviewed in #12. Steel housing they claim you can stand on, guaranteed 100% Hayes compatible, 8 LEDs, speaker. Worked flawlessly for months on a daily basis directly with other PCs and network mainframes. Works with Amiga with special cable, or RS232 interface with C64/128, SX-64.

CTS 2424ADH Datacomm
$ 429.00 Micro-Systems Software ***+

Performs to 2400 Baud, fully Hayes-compatible, eight standard LEDs, speaker and good docs, comes with ONLINE!, M-SS's Amiga communications software. Nice little package if a little pricey. Comes with special Amiga cable; use RS232 interface with C64/128.

Password 1200 Modem
$ 449.00 U.S. Robotics ***

Performs with Amiga or C64/128 with extra RS232 interface. Fully Hayes compatible, speaker, built-in cable and power indicator, no LEDs. Available discounted if you shop.

Avatex 1200
$ 159.00 Everett/Charles

A 300/1200 baud modem. Lots of push-buttons and lights, several self-test modes, and compatible with the C64/C128 (with RS232 interface) and Amiga. Not fully Hayes compatible, so it may take a little longer to get set up initially, but it looks like a quality instrument. (-M.B.)

Cat
$ 169.00 Novation

RS232 modem. Requires interface. Also available are the D-Cat for $199 and the J-Cat, which has auto-answer and auto-originate, for $149. All are 300 baud.

Connect 1200
$ 149.00 U.S. Robotics

RS232 300/1200 baud modem. Includes phone cable.

Mercury Modem
$ 265.00 Computer Friends

300/1200 baud autodial modem claimed 100% Hayes compatible. RS232C interface.

MFJ-1237 Modem
$ 49.95 MFJ Enterprises

300 baud. Comes with a type-in terminal program in the manual.

PC 212A/1200E
$ 149.00 Qubie

1200 baud RS232 modem. Requires interface.

PC 212A/2400E
$ 299.00 Qubie

2400 baud (!) RS232 modem. Requires interface.

Smartmodem 300
$ 199.00 Hayes

From the company that sets the standard for the industry. Requires RS232 interface. 2 year warranty.

TCM-1200H
$ 179.95 Trans Com

Auto-select 300/1200 baud modem. No interface required

COMPUTER TRIVIA

Cassette storage is still the dominant form of mass storage in Europe.

INTERFACES (general)

BusCard II
$ 199.95 Batteries Included ****

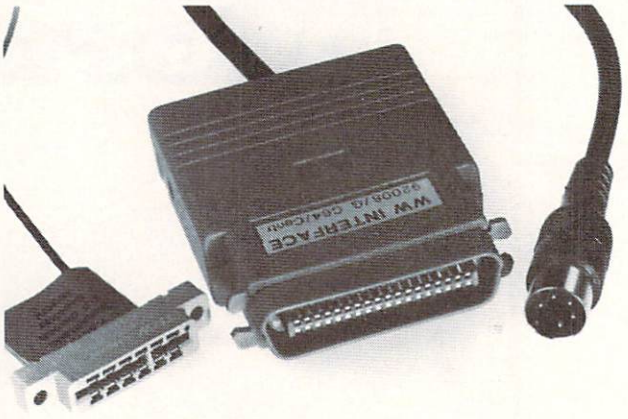
Adds BASIC 4.0 commands, IEEE interface, fully compatible with other software, built-in centronics printer port, and resident ml monitor. No longer being produced by BI, but still available from stock. (-B.D.)

CSI Connect IEEE Interface
$ 99.95 Computer Specialties **

A serial to IEEE-488 interface to connect the C64 to CBM IEEE-488 devices. Interferes with the correct operation of the serial buss with many programs. Try this one out before you buy. C128 compatible. (-M.B.)

E-Link
$ 119.95 Progressive Peripherals *

Serial to IEEE interface is C64/C128 compatible, IEEE drives with E-Link load approx. 2X faster than 1541. Transparent and needs no driver software. Ours have consistently run hot, and we have burned out so many (even the new 'fixed' units) that we have quit using them. (-M.B.)



Blue Box Printer Interface
$ 49.00 TecTrans

True C= graphics with graphics buffer. Also available with 8K on board for $59. Can be used with just about any Centronics-type parallel printer. A separate power supply is available for $15 so you can use it with an SX64.

CSI-64 Switch Model 1208
$ 149.95 Computer Specialties

Allows eight C64s (up to 36 feet away from the Switch) to share a single disk drive and printer. A front panel numeric display indicates the current user.

CSI-IE3CENT
$ 89.95 Computer Specialties

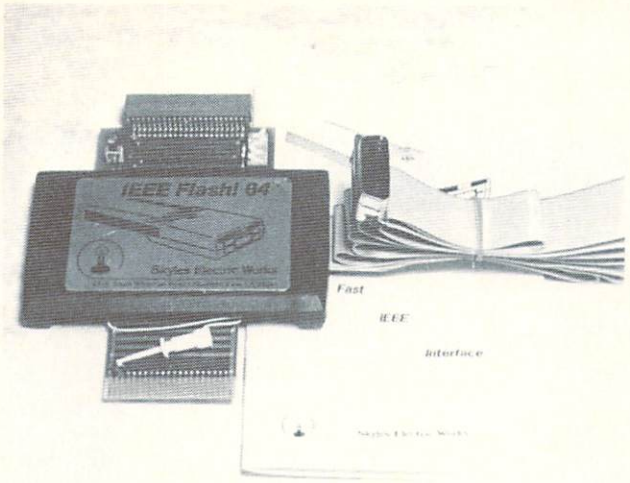
Allows all Commodore IEEE computers (PET, B128, etc) to output to parallel interface printers. Supports 7 or 8 bits. Works with the Commodore disk and operates using simple BASIC commands and machine language programs as used in word processors.

Deluxe RS232 Interface
$ 49.95 Omnitronix

RS232C interface with integral 3' cable. Allows you to use standard RS232 modems with your C64 and C128.

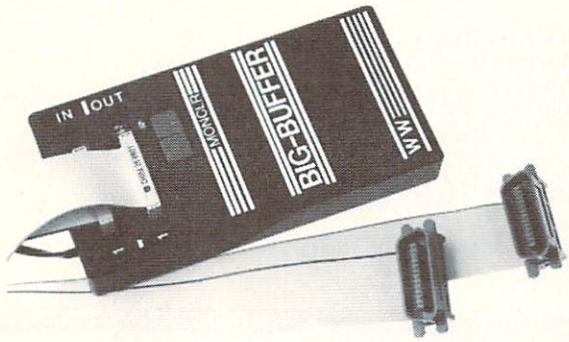
Hot Shot Printer Interface
$ 59.95 Omnitronix

Centronics standard interface that supports screen dumps and Commodore graphics characters. Plugs directly into the back of the printer. A version with an 8k buffer installed is $74.95



IEEE Flash! 64
$ 99.95 Skyles Electric Works

IEEE-488 bus interface that allows you to use other disk drives (sfd-1001, 8050, etc.). Transparent in that it does not occupy any RAM. Just some of the things it will handle: CBM SFD 1001, 2031, 2040, 4040, 8050, 8250, 9060, 9090, and MSD SD1, SD2 disk drives; CBM 2022, 2023, 4022, & 4023 printers.



IEEE Printer Buffer
$ 396.00 TecTrans

Connects IEEE printer to IEEE interface with 64K buffer on board. Has a MONITOR button for printing hex dumps. Completely transparent. Device address can be set to 1,4,5,6, or 7.

IEEE/C64 Interface
$ 289.00 TecTrans

Bidirectional interface for connection of devices with C64/128 and IEEE interfaces in various combinations. It can serve a maximum of 3 peripheral devices on the IEEE bus in talk and control mode.

Instructor Monitor Prompter
$ 1695.00 Computer Specialties

Networking device for multi-station applications with the C64. Master unit can monitor and give prompts to any or all 16 slave units. The entire video screen of the slave unit being monitored is displayed at the master's screen at the touch of a key. For schools and dealer training labs.

JE232 RS232 Adapter
$ 39.95 Jameco Electronics

Converts user port to standard RS232. Switch allows inversion of four control line signals.

Link-2
$ 89.00 Rich Hill

IEEE interface, more transparent than older Link-1.

MacMaster
$ 299.00 Computer Friends

This is a printer buffer and printer controller. Up to 99 control strings can be stored and accessed from the keypad. 64K/$299, 256K/$450, 1 meg/$750. Parallel or RS232 versions available.

MCS 8000 Printer Network
$ 899.95 Comspec Communications

A softswitched 4-computer-to-one-printer network with integral 256K buffer. Eliminates manual switching.

Microshare MCS64-8
$ 995.00 Comspec Communications

Allows up to 8 users to share disk drives and/or printers. Works with all C64/VIC-20/C128 equipment. Built-in IEEE and VIC/64 serial ports. 100% hardware interfaced, software transparent and no special commands required. Built-in 14k print buffer and disk drive priority.

Microspooler
$:na Consolink

Three printer data buffers of different types and prices ranging from $139.95 to $595.

MicroStuffer Printer Buffer
$ 69.95 Supra

External 64K printer buffer that will accept parallel input. One button repeat. Say the name 3 times fast! (-Staff)

Multi-Link
$ 400.00 Rich Hill

Network up to 48 Commodore computers. $400 master, each slave unit $150.

Network
$ 141.00 ScanAm

Multi-user system allows up to 8 C64s to be connected to a single drive and/or printer. Designed especially for schools. Special cables are required, ranging in price from $14.95 to $19.95 depending on length. Formerly from Handic.

Parallel/C64 Interface
$ 99.00 TecTrans

Permits connection of serial C= printers (1525, 1526 etc.) to computers with parallel/Centronics interface. 8K buffer.

Printer Enhancer
$ 249.95 Xetec

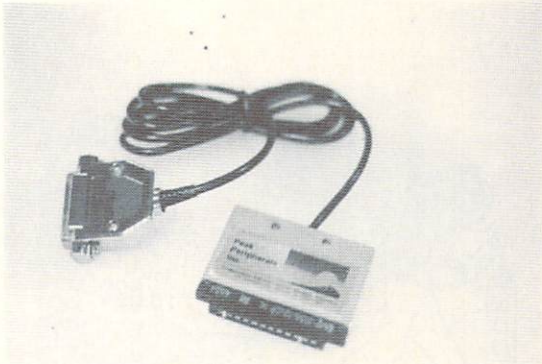
64K printer buffer with 8 internal fonts and support for two independent printers.

Proteus
$ 199.00 Computer Friends

This is a printer buffer/two-printer connector. You can hook up two printers, dump to one printer, switch to the other and dump another file, and they'll both be printing at the same time while your computer is freed up for another task. The 256K buffer can be dynamically allocated between the two outputs. Set up, for example, and simultaneously dump form letters on one and the envelopes for them on the other.

Ramjet
$ 269.00 Omnitronix

256K printer buffer. Centronics or RS232 interface.



RS232 Modem Interface
$ 29.95 Peak Peripherals

Connects to user port with a 4-foot cable to allow use of non-Commodore modems. No switches to set.

Serial Box
$ 79.95 R.J. Brachman Associates

Serial buss 64K printer buffer. Connects between computer and printer interface or Commodore-compatible printer.

Serial Buffer
$ 129.00 TecTrans

High speed printer spooler for serial printers. 64K on board. Configured to device 4, but can be set via DIL switches to device 5,6, or 7. Other addresses are programmable.

Superbox
$ 127.50 ScanAm

IEEE multi-user interface that will let you connect any IEEE printer or disk drive to your 64. Has 3 cartridge slots and a pass-through. Slots are push-button controlled for selection of the active cartridge. Includes a reset button as well. It will let you connect up to five printers to one IEEE drive. Transparent and takes up no RAM.

TecTrans Printer Buffer
$ 299.00 TecTrans

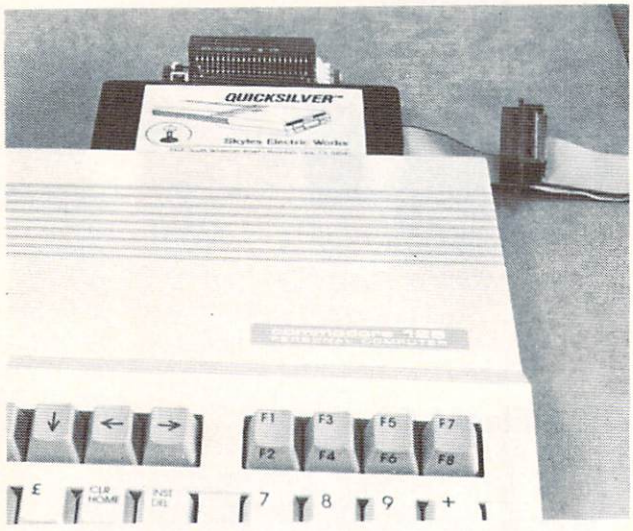
Allows Centronics-type printers to be connected to IEEE. 128K buffer.

TecTrans Printer Interface
$ 149.00 TecTrans

Allows connection of printers with Centronics/parallel interface to computers with IEEE 488 (CBM 8000 for example). Two code changes are available and the device can be set from 1 to 7.

V24/RS232C
$ 39.00 TecTrans

Connects to the user port. Equipped with an additional terminal program, the adapter produces the standardized V24/RS232C levels.

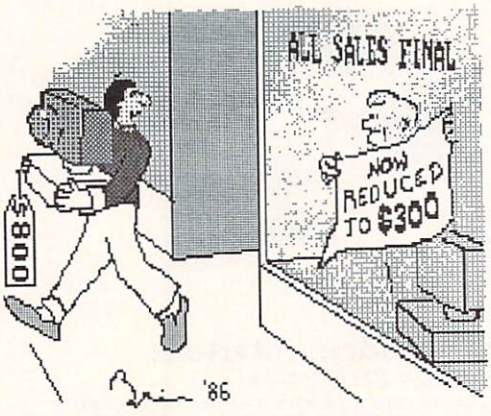


Quicksilver 128
*$ 119.95 Skyles Electric Works ****+*

IEEE-488 interface (with a ROM replacement) that allows you to use other disk drives (SFD-1001, 8050, etc.). When used with SuperBase 128 and an 8250, we noticed about a 25% speed increase over a serial to IEEE interface. Transparent in that it does not occupy any 64/128 RAM memory.

Link-2 (for 128)
$ 139.00 Rich Hill

C128 IEEE interface, transparent.



MW 350
*$ 89.95 Micro R&D ******

Graphics parallel printer interface. Now includes CP/M mode switch for use with dBase II and WordStar. You have the option of a 2K or 10K buffer.

Super Graphix
$ 99.95 Xetec *****

Buffered graphics interface with: 8k buffer, 10 print modes, reset button, fonts (NLQ resident, room for 2 more from the supplied disk containing 27 fonts), corrected aspect ratios for most printers, external DIP switches, internal fonts support superscript, subscript underlining, bold-face, and nine pitches. Xetec also has helpful customer support. I've used it a lot and couldn't be more pleased with it.

PPI with Graphics Buffer
$ 49.95 DSI ****+

True Commodore graphics, expanded graphic characters and alphanumeric (reversed for both also), condensed alpha-numerics, total Commodore emulation, no dip switches, fully shielded, graphics buffer and Epson compatible. Another one of the fastest graphic interfaces that we time tested.

Printmaster/+G
$ 99.95 Omnitronix ****+

Fast graphic printer interface.

Easy-Print with Graphics
$ 119.95 Progressive Peripherals ****

High quality, easy to use, fast and reliable. Switches on the outside allow easy configuration for your printer. Steel DIN plug, external reset switch, power cord from joy-port, built-in self-test, utility disk, optional 4K buffer (recommended). (-B.D.)

Card/Print +G
$ 49.95 Supra ***+

Full Commodore character set translation (as well as ASCII values for non-implemented characters). We don't like the internal dip-switches (you have to open the housing to flip 'em!) Formerly from Cardco. (-B.D.)

Card/Print B
$ 39.95 Supra ***+

Features direct connect (instead of hanging out at the end of a cable), 3 micro-switches for locking printer and interface in various configurations. Formerly from Cardco. (-B.D.)

G-Wiz
$ 49.95 Supra ***

The slowest graphics interface of all that we tested, surprisingly slower than the older Cardprint +G interface. This one plugs directly into the printer, so allow for more paper and wall clearence than usual. Formerly from Cardco. (-Staff)

ApriCord CD
$ 69.95 Apricorn

Supports printing capabilities of the entire line of Commodore computers and allows parallel graphics printers to emulate CBM printers.

AutoPrint
$ 69.95 The Microperipheral Corp.

Auto dial/answer 300 baud direct connect modem with internal parallel printer interface. Full duplex in originate or answer, half duplex software selectable. Compatible with most terminal software (Vidtex, VIP, SuperTerm, Smart64) and connects thru the user port. Handshaking feature allows transmission to be supended until printer is capable of accepting more data.

Device One
$ 119.95 Progressive Peripherals

This is a printer interface with a great many intelligent features, including ROM fonts, 16K RAM buffer, hires screendump support, built-in calendar, and the ability to buffer and dump letterheads at the start of every page. Also emulates Commodore printer. Suffers from poor documentation.

Grappler CD
$ 119.95 Orange Micro

A respected name in Apple circles. Orange Micro has released a 'Grappler' for the C64. Connects to both the serial and expansion slot (with feed-thru for both) and provides many modes of printer operation.

P-Link
$ 59.95 Rich Hill

Serial-to-parallel interface.

Printmaster/S
$ 119.95 Omnitronix

An advanced RS232 printer interface which connects to the C64 serial port. Selectable 300, 1200, 2400 baud, plus parity, word, and stop bits. Supports CBM graphics on all popular printers.

Super G Printer Interface
$ 69.95 Supra

RS-232 printer to serial port connector. Formerly from Cardco.

Super Graphix Jr.
$ 59.95 Xetec

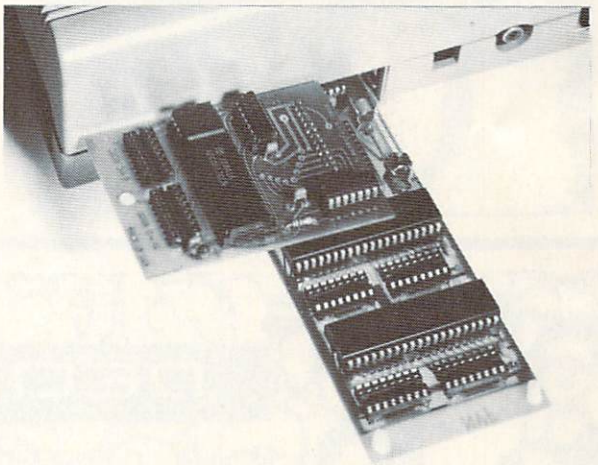
Correspondence quality and graphics interface. Includes micro-buffer, 10 printing modes, 100% 1525 printer compatible. Plugs directly into printer.

Digital Oscilloscope
$ 449.00 Rapid Systems ***+

A four-channel storage oscilloscope that plugs into your C64's user port. Driver software allows you to operate at 500KHz with autoseek, zoom, screen print, and a Fast Fourier Transform package for spectrum analysis. The device is small and compact, probes are included. (-M.B.)

80-Line Digital I/0
$ 119.00 Schnedler Systems

Board for general purpose interface has 40 separate buffered digital output lines which can each directly switch 50 volts at 500 mA, and 40 separate digital input lines (TTL). Has socket for standard ROM cartridge so an autostart dedicated controller can be created without relying on disk drive. Extensive documentation with programs on disk. Model SS100 plus.



A/D Conversion Module
$ 69.00 Schnedler Systems

Model 64IF/ADC816 A/D module adds 16 channels of 8-bit a/d conversion.100 microsecond conversion. Requires the Model 65IF22 board. Works in 64,128 and cp/m modes.

Analog Interface Board
$ 220.00 Computer Continuum

Fast analog interface board with 8 bits resolution, 8 channels A/D, 8 channels D/A. Digital oscilloscope and FFT software package available with triggering dual channel, time and frequency domain averaging, printer utilities, 256 points sampling at up to 73000 Hz. $85.00

COMMclock /AB
$ 69.95 Genesis Computers

Real time clock/calendar with lithium battery backup. Also includes autoboot feature which allows for any program to automatically boot and run on power up. Autoboot time delay is switch selectable and will load from disk or tape. Clock is crystal controlled for accuracy. Battery keeps clock running for up to 9 months on power down.

COMsense
$ 69.95 Genesis Computers

Real world input device which plugs into the joystick port and provides 4 simple open/close contact inputs and 2 analog to digital inputs. A to D probes are driven by +5 volts on board and inputs are fused to protect the computer.

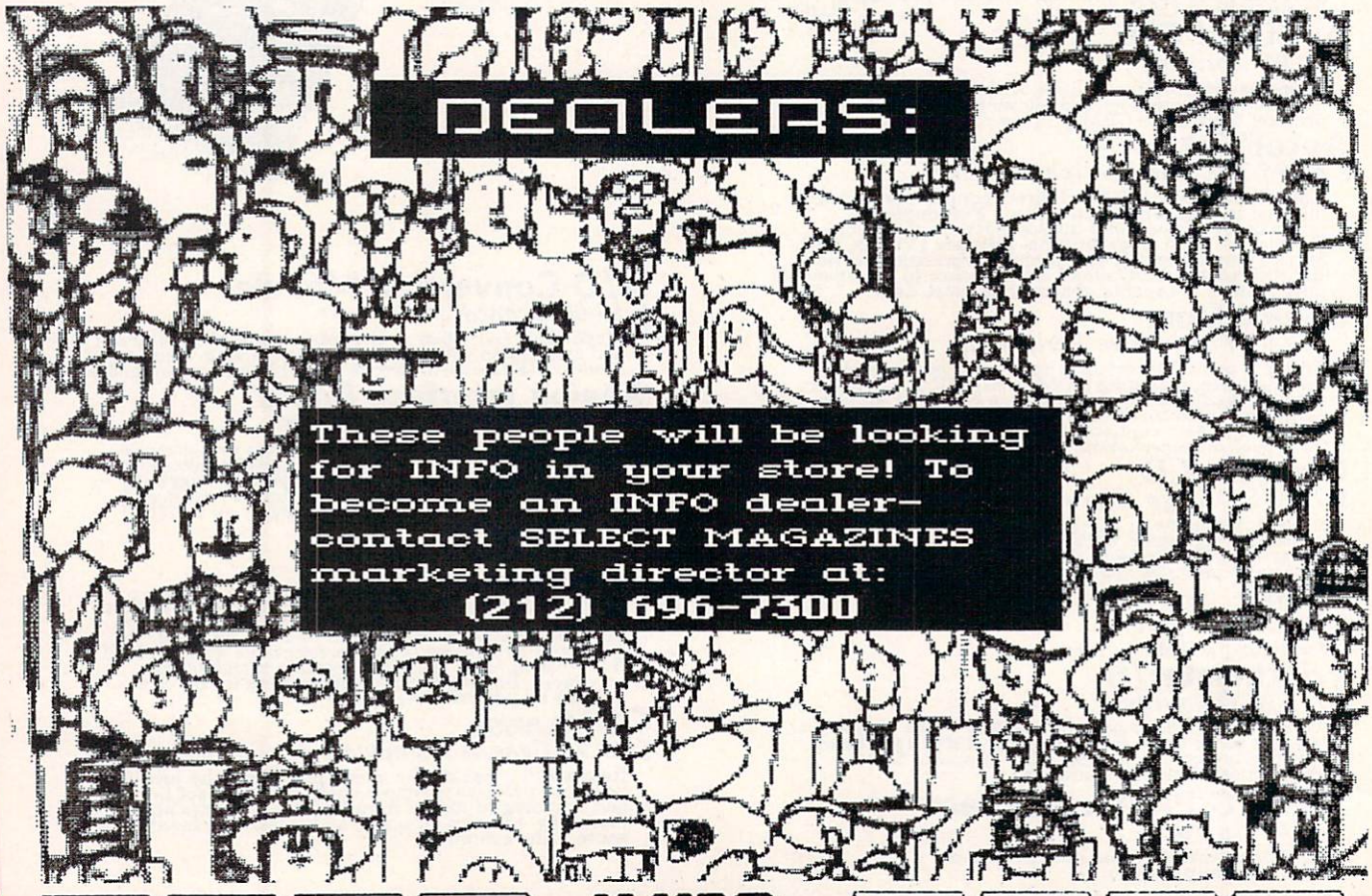
DOUBLE-TAKE

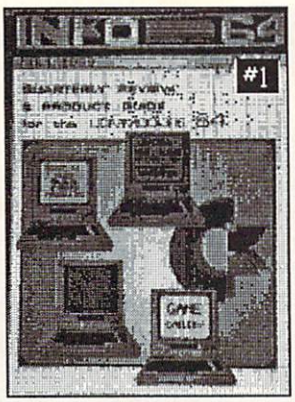
"TRAMIELS PLAY HARDBALL"

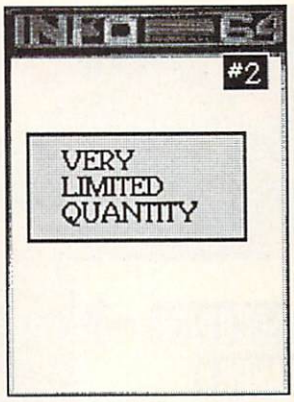
So read the caption accompanying this widely-distributed P.R. photo of Sam, Jack, & Leonard coincident with their vapor-release of a PC clone and "Mega"-ST at the Winter Consumer Electronics Show in Las Vegas, NV.

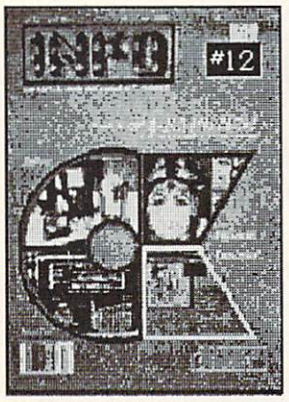
"LET'S PLAY WHIFFLE-BALL"

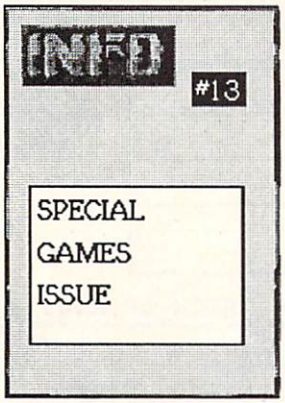
Same photo after processing with proprietary Amiga-driven image enhancement software developed at INFO Labs, in Iowa City, IA. This newly-perfected technique allows normally invisible detail and information to be greatly amplified, resulting in images which often yield startling new insight into the subject matter.











BACK ISSUES

SEND ME ISSUES:

☐1 ☐2 ☐3 ☐6
☐7 ☐8 ☐9 ☐10
☐11 ☐12 ☐13

INFO

$5.50 (U.S.) Each

SEND CHECK OR MONEY ORDER (U.S.)

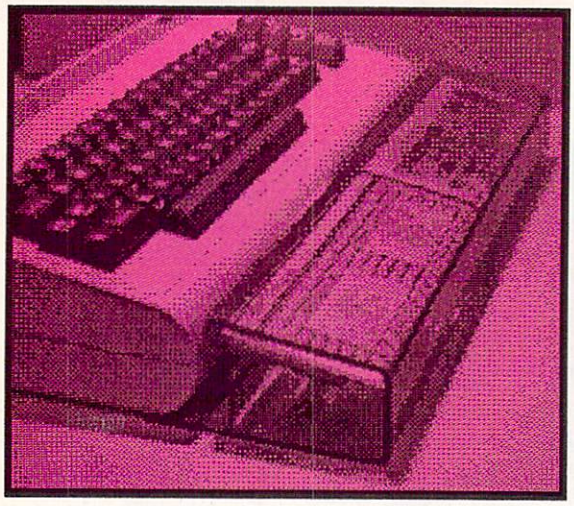
Name: _____

Add: _____ U.S. U.S. (U.S.)

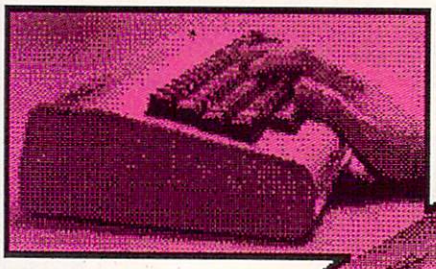
_____

City: _____

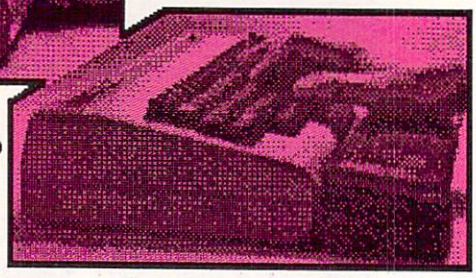
State: _____ Zip: _____



the INFO ERG=BOARD™



← THE PROBLEM (OUCH!!)



THE SOLUTION → (AHHH!)

- *ENDS WRIST FATIGUE!
- *IMPROVES TYPING SPEED!
- *IMPROVES ACCURACY!
- *ADDS CLASS TO YOUR 64!
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WORDPRO III
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EASY SCRIPT
PAPERCLIP (A)
PAPERCLIP (B)
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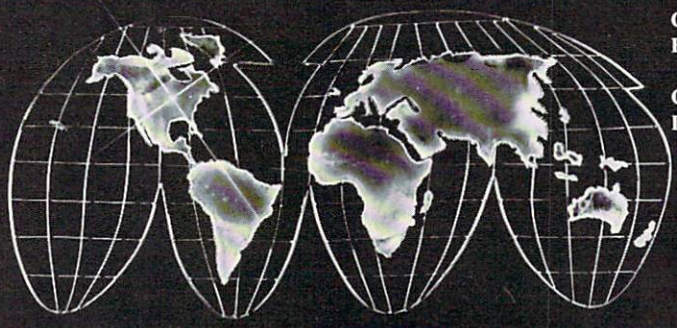

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HOW TO GET THE MOST OUT OF GEOS gives you the information that you need to use this powerful program to your best advantage. A team of experienced users and programmers examined GEOS inside and out to give you:

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— undocumented features that you will want to take advantage of, or avoid;
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— the GEOS file structure, so programmers can write utilities for their own special needs; and
— a map of important memory locations so advanced programmers can create their own custom utilities.

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OUT-THINK™ the Joneses with your C-128!

In today's fast paced world, you've got to stay one step ahead. Whether you're a student or a teacher, a doctor or a lawyer, a writer or a salesperson, you face fierce competition. And these days, your competition is likely to have a 16-bit computer with an outline processor.

Outline processing is the most powerful new thinking and writing tool invented. With over a dozen now available on 16-bit computers, this new kind of software is taking the personal computer world by storm. With OUT-THINK, you can experience this new dimension to writing on your Commodore C-128 (with CP/M). Now, not only can you step ahead of the Joneses, you can OUT-THINK them, too.

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OUT-THINK is brought to you by KAMASOFT. We pioneered outline processing and brought this amazing, new technology to CP/M computers. OUT-THINK is our newest outliner — and the best ever.

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Rave reviews of OUT-THINK for the C-128 are pouring in:

It's a powerful and flexible tool for organizing your thoughts. And the documentation is superb.
— Compute Gazette, July 1986

This is one of the most useful and most used programs I own. It has become so indispensable to me that it is practically the only CP/M program that I am using.
— TPUG Magazine, August 1986

In our humble opinion, OUT-THINK is one of the best reasons for booting up CP/M we've seen to date.
— INFO Magazine, Nov./Dec. 1986

Look at the spectacular value you get:

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- Mark titles for group operations

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- Directly reads and writes Wordstar document files and ASCII text files
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Information Retrieval
- Randomly search to a location with sound-alike keyword
- Randomly search all text to a location by string

File Management
- Create, delete, and backup outlines without exiting to CP/M
- Lock outlines with 4 levels of password security
- Set up date stamping on outlines

Documentation
- 200 page User Guide with tutorial & reference

Requirements
- Commodore-128 with CP/M and at least one 1571 drive. (C-128 RAM Disk or second 1571 drive recommended.)

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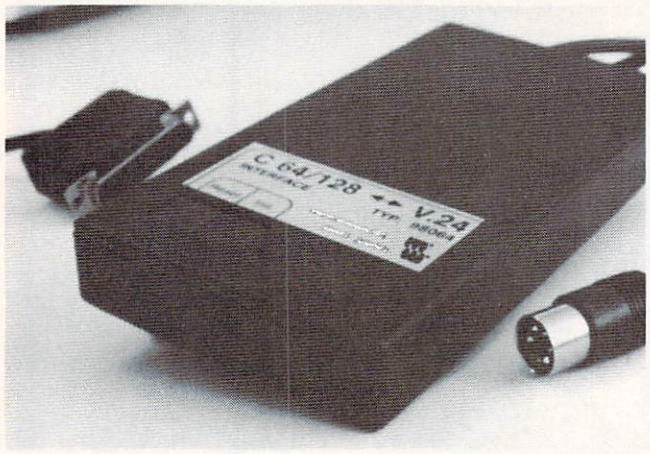
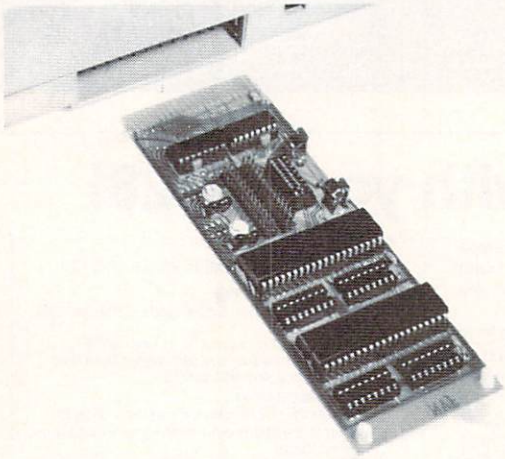


Converter/Buffer
$ 149.00 TecTrans

Connects a 64/128's serial port to an IBM PC's RS232 port for data transmission. Has a 64K buffer on board. Baud rates from 225 to 57600. Data bit 7 or 8, Stop bit 1 or 2. Parity none, even, odd. Hardware handshake or XON/XOFF.

Data-1
$ 279.00 CGRS Microtech

Data acquisition and control board that utilizes the intersil or maxim 7109 12 bit a/d converter - 16 channels of analog input - real clock with battery backup. 12 bit d/a and 12 ttl output bits along with driver software. The a/d will allow a maximum of 30 conversions per sec.



Dual 6522 VIA Board
$ 169.00 Schnedler Systems

Dual 6522 Versatile Interface Adapter Board for general purpose control interface. Each board supports two VIAs properly interfaced to the computer via the cartridge port. Each provides four 8-bit ports for a total of 32 io lines, and 8 control or handshake lines. Four boards can be daisy-chained from one computer to give 16 ports. Extensive documentation.

Memory Cartridge
$ 24.95 Scinort

Non-volatile (alkaline) battery-backed reprogrammable cartridge. Can be configured to autoboot and has a switch to write-protect the contents.

Microtroll
$ 185.00 Slide Mountain Systems

'Generic' computer-to-realworld interface. Has 16 analog inputs, 2 multi-range analog outputs, 16 digital inputs/outputs. The prom based operating systems autoboots. Built-in 8K user eprom. There is an expansion connector that will allow 32 more digital I/O channels or analog input. Includes a realtime, battery-backed clock.

MiniData-1
$ 99.00 CGRS Microtech

8 bit, 8 channel a/d converter - contains the same real time clock as the 'Data-1' and has 12 digital outputs (ttl), 12 digital inputs (ttl) and space on board for 2 - 8 bit d/a converters.

Proto-64 (6.5x4.5)
$ 15.95 Boreas Products

General purpose prototyping board for the C64. 44 contact gold-plated edge connector / pad per hole / plated thru holes / .100 inch hole spacing (vert) & .300 inch hole spacing (horz) / plugs into the expansion port. A 4-1/2 inch by 4 inch version is also available for $12.95.

QuikData-1
$ 325.00 CGRS Microtech

Has most of the same features as the 'data-1', however the a/d is the national ADC 1205 which has a 100 microsec conversion time, this will allow approximately 6000 conversions per second. It also contains on board ROM space for various ROMs.

Spectrum Analyzer
$ 648.00 Rapid Systems

FFT analyzer, 16, 32, 64...512, 1024 point FFT sizes, spectrum averaging. Menu driven operation.

Viadas-1
$ 350.00 CGRS Microtech

Software to run a small process control - includes the following features: curve fit generator (allows the operator to enter break points for sensing devices), alarm summary with descriptors and output control set points.

VIController
$ 69.95 Genesis Computers

BSR X-10 line carrier remote controller. Can address all 256 locations and execute all standard BSR commands. Complete with six easy to use scheduling programs for daily and weekly control operations. Can be used with COMclock and COMsense devices to create a complete home control system.

SFD-1001 Disk Drive
$ 199.95 Commodore ****+

Extend your disk storage to one megabyte with this double-sided disk drive. Fast, reliable, and cheap. Currently available from mail-order houses and discounters. Requires an IEEE interface. (-Staff)

1571 Disk Drive
$ 299.95 Commodore ****

The 1571 is an absolute necessity for C128 owners. Without it, you will not get the full advantage of your C128. The 1571 gives you faster disk access, twice the storage, and access to multiple CP/M formats. However, it is not fully 1541 compatible, and some few heavily protected programs will not load. If you buy new, make sure you get the latest ROM revision, which fixes many bugs. (-M.B.)

MSD Dual Disk Drive
$ 434.00 Micro Systems Development ****

A dependable dual drive with IEEE and serial interfaces Not extremely compatible with the latest round of software, but great for data-intensive applications or unprotected disk duplication. Discontinued. (-B.D.)

1541 Disk Drive
$ 199.95 Commodore ***+

Though it's caught a lot of flak for being slow, the 1541 is a pretty good beast over the long haul. Somewhat prone to getting knocked out of alignment, especially older models under the spell of the old head knocking copy protection schemes. When all is said and done, though, the 1541 is still the only TOTALLY 1541 compatible disk drive, and that counts for alot. (-M.B.)

FSD-1 Disk Drive
$ 149.00 ECI ***+

Seems to be 99.99% 1541-compatible. Nothing I've tried will stop the FSD, though I'm sure there's something out there that might. Nice steel case, smaller than the 1541 by about 30%, dip-switch selection of device 8-10. A great choice for your second drive. (-M.B.)

Indus GT
*$ 259.00 Future Systems ***+*

Sleek, compact, quiet disk drive with separate power supply, no vents, and transparent door to keep out dust, front mount switches (drive number, write protect, display of track or error), fast load, fast copy, wedge and more. Not extremely 1541 compatible, but a good 'hackers drive' because of the displays. Indus is gone, the drive is still here. Some reports of quality control problems. (-B.D.)

MSD Single Disk Drive
*$ 200.00 Micro Systems Development ***+*

Not extremely 1541 compatible with latest round of software. Software reconfigurable operating system with serial or IEEE interfaces (IEEE interface at extra cost). Discontinued. (-B.D.)

Hard Drive ST10C
*$ 895.00 Computer Specialties **+*

10 Meg capacity hard drive in a large box, recently reduced in price. Lengthy disk backup procedure, no provision for subdirectories or file management, speed on serial or IEEE buss equivalent to C= floppy drives. This hard drive works, but gives you none of the organizational or speed advantages of a HD, just added storage. Does NOT work with Superbase. (-M.B.)

Quick Data Drive
*$ 99.95 Entrepo ***

170k microwafer drive and operating system on tape (or on cartridge for $29.95 extra). Uses 'stringy floppies' (an end-less loop tape) for storage, but a very limited software base for this media exists (Entrepo has some titles, including some Epyx games.) For a little more money a disk drive is a much wiser investment. (-M.B.)

1541C
$ 229.95 Commodore

A 1541 in a white case, has an optical drive stop.

1581C
$ 399.00 Commodore

This is Commodore's C64/C128 compatible 3.5 inch drive. Supposed to be available first half of '87, but whether it sees daylight is anybody's guess. The specs say it will hold 737K, run 60% faster than 1541 on C64, 60% faster than 1571 on C128, 8K RAM buffer.

Data Chief
$ 995.00 InConTrol, Inc.

20 megabyte hard drive with built-in floppy drive as well. Compatible with GEOS and CP/M. Also available in 10 mbyte ($895) and 5 mbyte ($695) models. Includes a second serial connector and fast load routine along with a disk copier. CP/M and Superbase compatible.

Device 9 - 'The Vault'
$ 899.95 Progressive Peripherals

10 mb hard drive which requires no interface for use with the 64 or 128. 1541 emulation.

Enhancer 2000
$:na Comtel Group

1/2 height disk drive compatible with the 1541.

JCT Hard Drives
$ 895.00 JCT

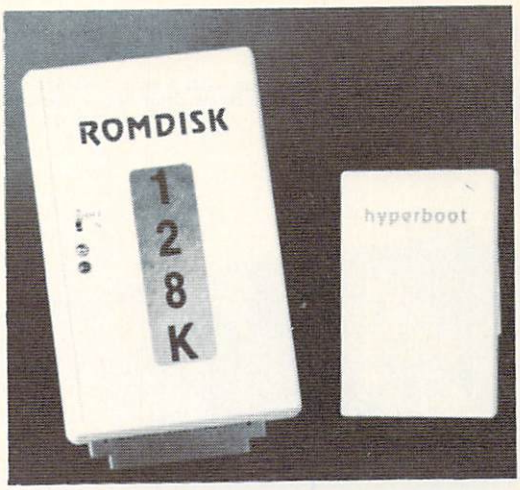
10 meg hard drive, with up to 255 subdirectories. Not compatible with CP/M or Superbase. 3.7 and 5 meg drives available also.

Lt Kernal Hard Drive
$ 899.00 Xetec

20 Meg hard drive with oversize cartridge driver. 40-50 times faster than a 1541, in a nice-looking case. Superbase compatible, can be subdivided as up to 10 logical devices, with up to 16 subdirectories each.

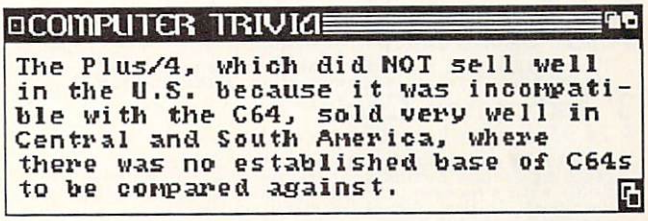
Lt Kernal Hard Drive 128
$ 949.00 Xetec

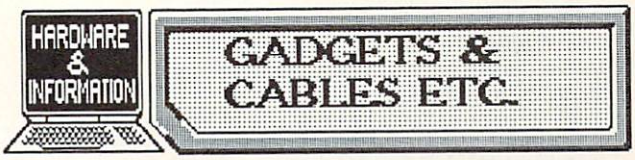
20 Meg hard drive with oversize cartridge driver. 40-50 times faster than a 1541, in a nice-looking case. Superbase compatible, can be subdivided as up to 10 logical devices, with up to 16 subdirectories each. Order C128-specific version.



ROMDISK
$ 179.00 Epimetheus

EPROM system that allows you to store your favorite programs on an erasable cartridge. Holds 128K. Loads from EPROM memory at the rate of 16,000 bytes per second. A power-up menu displays the ROMDISK directory for one-key program loading.





B.I. 80
*$ 199.95 Batteries Included ******

Hardware 80-columns for the C64 with BASIC 4 commands A high-quality, clear 80 columns on a monochrome monitor. Reads 'ok' on a Commodore 1702 monitor too. No longer being produced by BI, but still available from backstock. (-B.D.)

'LBow
*$ 29.98 T.I.E. Limited ****+*

Well-made cartridge holder incorporates a reset button and provides one vertical and one normal horizontal cartridge port, now both ports are switchable for combined, neither or separate operation. Causes less stress on the motherboard. (-B.D.)

Cardboard 5
*$:na Supra *****

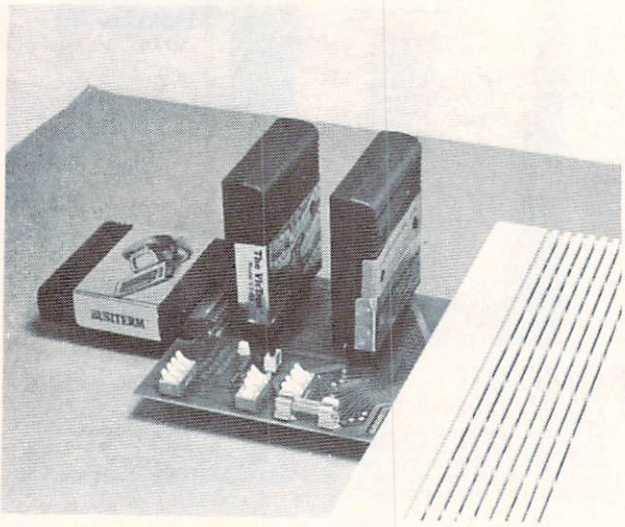
Fuse-protected, 5-slot expansion board for the 64. Each slot has 4 LED status indicators and two switches to directly control various memory and access functions Formerly from Cardco. (-B.D.)

Disk Doubler
*$ 6.88 T.I.E. Limited ***+*

Allows 5&1/4 inch single-sided disks to be used on both sides by cutting a precisely located square notch on the other side of the disk. Features a smooth enameled finish and a high leverage round push button handle for easy use and handling. Note: this product works well, but flipping standard diskettes increases the danger of dust-damage to your disk. Not advisable for critical data diskettes. (-B.D.)

Navarone 3 Slot Expander
*$ 29.95 Navarone ****

Three slot cartridge expander with a switch to activate any slot. No way to activate more than one, or turn all 3 slots off. (-M.B.)



2+1 Expansion Board
$ 39.95 Skyles Electric Works

Two vertical and one horizontal cartridge ports, each of which has 4 switches (power, xrom, game, and rom1).

3' Extension Cable
$ 24.95 Epimetheus Corporation

3 foot long connector for the user port. No more reaching around behind your computer when you need to fiddle with a modem or anything else connected to the user port. It also relieves the strain on the computer's circuit board.

Aprospand
$ 29.95 Aprotek

Fused cartridge slot expansion chassis features four individually switched slots and a reset switch.

Cables To Go
$:na Cables to Go

Various cables for your Commodore machines.

Chip Saver Kit
$ 5.95 Master Software

Little plastic covers to plug into your joystick ports to prevent accidental static damage. If you've ever blown a joystick port with static, and lots of people have, these could save you a repair bill.

Clock/Calendar
$ 49.95 Jason-Ranheim

Clock and 8K RAM are battery-backed in case of power failure. Includes ROM socket and operating software in ROM.

geoPrint Cable
$ 39.95 Berkeley

User port parallel cable designed specifically for use with GEOS. One end plugs into your user port and the other into your printer's parallel port to speed up GEOS dumps.

Modem Master
$ 29.95 Master Software

Four-foot extension cable for your user port to let you get your modem or whatever out where you can get to it. Modem Master Plus at $34.95 includes a system reset and software.

Mouse-Hide
$ 15.00 Pilot Enterprises

A playing field for your 1350 mouse. Made of leather with a rubber backing. Measures 8 1/2 x 7 x 1/4.

MousePouch
$ 4.95 H & H Enterprises

A soft cloth pocket that attaches with a velcro strip to the side of your monitor or wherever you want it to provide a nest for your mouse when it's not running around making itself useful. Comes in light grey and light brown.

MouseTop
$ 5.95 H & H Enterprises

A furry cover for your mouse that makes your electronic mouse look like the mammalian variety. It even comes with tiny wire-rimmed glasses.

Multiple Printer Connector
$ 89.95 Progressive Peripherals

Multiple printer connect box for serial printers or interfaces, up to 4 printers.

Panic Button
$ 19.95 Microvations

Reset switch with a 3 foot cable and documentation on how to recover BASIC programs in memory.

Peakset Reset Button
$ 19.95 Peak Peripherals

Reset button plugs into user port with pass-through so you can daisy chain other user port peripherals. Comes with software to recover BASIC programs.

Precision Peripherals Gadgets
$:na Precision Peripherals

These folks market all kinds of interesting and useful things to make life around your computer a little easier: Five Terminal Phone Expander ($14.95), Super Saver Switch ($79.95), Gender Changer ($8.95), C128 80-Column Cable ($9.95), Centronics/RS232 Cables ($14.95), Amiga Monitor Cable ($24.95), a $8.95 90-degree replacement powercord for the 1541/1571, RS232 Port Mini Tester ($19.95) and many others.

Precision Power Center
$ 59.95 Precision Peripherals

Includes EMI filtering, separate lighted switches and a master on/off switch, metal construction. 15 amp breaker.

Problem Solver Stand
$:na Cheatsheet Products

Vinyl-coated steel wire stand that fits over your 64 or 128 to sit your monitor on.

Redmond Cables
$:na Redmond Cable

If you need a cable, to connect anything to anything, Redmond either has it or if they don't, they'll make one for you.

Reset Master
$ 9.00 Master Software

Reset switch that plugs into the serial port and provides 2 female serial jacks. Includes software to recover BASIC program in memory at the time of the reset.

Rich Hill Cables
$:na Rich Hill

Cables for IEEE, modems, user port to Centronics parallel or RS232C.

Single Slot Expansion Board
$ 24.95 CSM Software

Fully switched, including game, exrom, enable and power switches. LED indicators for type of cartridge. Includes re-set button. It is compact, approximately the same size as a cartridge.

Suncom Accessories
$:na Suncom

Suncom offers a wide variety of stuff to make life around your computer a little less messy: monitor glare screens, printer stands, copy stands, monitor stands, paper trays, etc.

SX-64 Adapter
$ 10.00 Supra

Cable to connect any Supra (Cardco) printer interface to your SX-64 computer.

Uni-Kool model C-100
$ 34.95 Uni-Kool

Disk drive cooler for Commodore's 1541 and SFD-1001 drives. Special filter, 110v, 60 cycle, operates at 8 db and moves 15 cubic feet per minute or air thru the drive's top vents. 2.25 inches high.

User Port Cable
$ 19.00 TecTrans

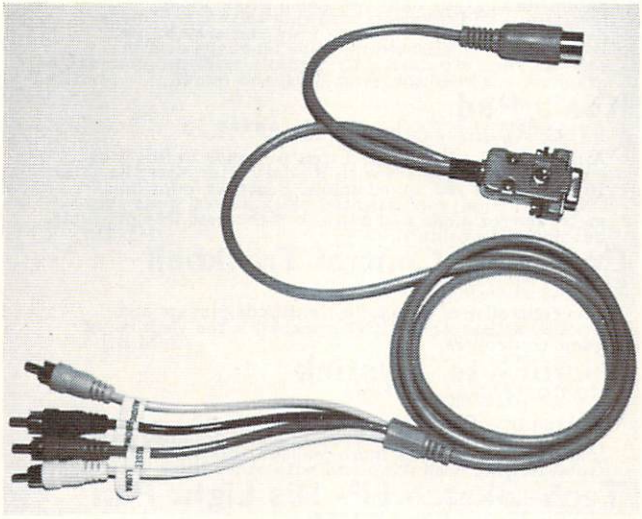
6-foot user port to Centronics/parallel cable.

Y Not
$ 15.00 Master Software

Six-foot 'Y' cable for the serial buss.

Y Switch
$ 39.00 Epimetheus Corporation

2-way Y connector for your 64's user port. It has a two way switch to determine which device is connected, enabling you to have a modem as well as another device attached at the same time. Pretty much a necessity if you're going to use Epimetheus' RAMDISK and a modem. 3' cable.



40/80 Cable
$ 24.95 INCA ****

Four plug DIN to RCA switchable cable for monochrome 80-column display on a non-RGBI monitor. Switch is conveniently located right next to computer. (-M.B.)

40/80 Switch
$ 14.95 Microvations

Alleviates the problem of using two cables (for RGB & composite output) and allows you to select between 40-column color and 80-column monochrome on a std. composite color monitor, like a 1702. (-Staff)

80 Column Mono Cable
$ 9.95 INCA

80 column monitor cable for monitors with RCA jacks for 80-column monochrome display.

80 Mono Cable
$ 9.00 Master Software

A monochrome output cable to connect the C128 80-column output to a composite monitor.

80-Column Display Adapter
$ 9.00 Quantum Leap

4-foot cable to plug into the RGBI port to get 80 columns on an ordinary monitor.

C128 Function Key Templates
$ 1.95 INCA

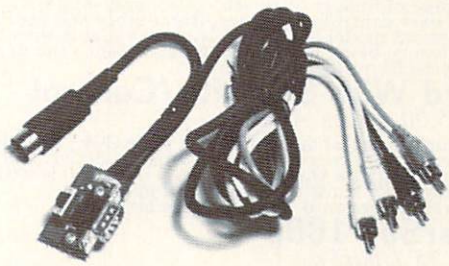
Reusable and reversible plastic overlays for your function keys.

MW 401
$ 30.00 Micro R&D

Universal monitor cable for 40 column color/mono and 80 column color (RGB).

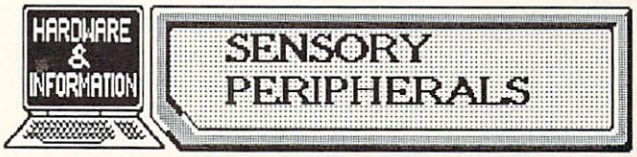
Video Master 128
$ 39.95 Master Software

Video switchbox to allow you to use up to 4 monitors at once. Connects to both RGB and 40-column ports with a 5-foot cable. Includes a contrast knob to improve the image on monochrome monitors.



Skyles 2 for 1 Monitor Cable
$ 24.95 Skyles Electric Works

Single monitor cable with a switch for 40 column color and 80 column green/white, to any composite video monitor. Works best with a monochrome or hi-res color monitor. Skyles states that it gives poor results in 80 columns on the 1702 monitor.



Computereyes
$ 129.95 Digital Vision ****

The industr's first economical means of capturing real world images on the C64's high res display. Slow scan device that connects between any standard video source and the 64's user i/o port, and a b/w image can then be acquired under simple software control. Enhancements are available to support Flexidraw, PrintShop, Doodle, KoalaPad, Newsroom and GEOS. (-B.D.)

Votrax Personal Speech System
$ 449.00 Votrax ****

255 programmable frequencies for sound effects, 16 amplitudes, simultaneous speech and either music or sound effects, 8-octave 3-voice music, serial and parallel interfaces included. Also, built-in programmable clock, exceptions tables, programmable rate and inflection, 3500 character buffer and more! This is a 'generic' (use with any computer) system. (-B.D.)

MicronEye Camera
$ 295.00 Micron Technology ***

Solid state imaging device that connects to the expansion port of the C64, software included allows display of images to screen. Also, grey-scale, software controlled shutter, frame store and recall. A second model ($485 list) is also available with the difference being in the maximum distance the device may be from the computer. (-B.D.)

Hard Wire Security/Control
$ 195.00 Jance Assoc.

Security control system run by your C64. Includes alarm bell, wire, switches, auto phone dialer, and everything else that's necessary. Compatible with BSR modules for control of lights and appliances. Wireless version is also available for $349.

HearSay 1000
$ 79.95 HearSay

Voice input and output device. Compatible with many C64 titles. Three special games available $40/ea. Also available for $40 is a terminal program which is said to allow two-way communications via voice alone: could be a real boon to the handicapped.

JE-520 Speech Synthesizer
$ 99.95 Jameco Electronics

Plugs into user port. Male voice delivers over 250 word vocabulary using National Digitalker IC chip.

Lis'ner
$ 149.00 Micromint

Voice-recognition system.

Microvox
$ 429.95 Skyles Electric Works

Digital sound sampler with 8 different samplings rates to 42.5 KHz. (20 KHz bandwidth), 8 bit sampling with tracking filters eliminates aliasing and biasing. Includes MIDI in and out connectors.

ProVoice
$ 99.95 Genesis Computers

Speech synthesizer for the C64, contains ROM based text to speech conversion, 12 new BASIC commands (speak, help, etc.). Screen echo mode allows BASIC programs to talk without any modification. Built-in speaker and amplifier, plugs into expansion port so it may be used with a modem to create a 'talking terminal'.

Scammadore
$ 39.95 Kaltek Labs

Optical scanner you attach to a typewriter's printhead and your computer. You then insert a picture into the typewriter to be scanned. A cheap way to digitize images. The scanner alone is $39.95, the appropriate software is $14.95. A demo can be had for $5.

Smart Ears II
$ 69.95 Tvtron

Speech recognition system.

Speech Construction Set
$ 39.95 Covox

Requires Covox' Voice Master speech digitizer ($89.95). This software uses data produced by Voice Master and lets the user edit the stored speech.

Video Digitizer Kit
$ 39.95 Kinney Software

Bare board, software, and instructions. You provide Radio Shack parts, time, and solder. Finished unit plugs into user port, provides digitized image from standard composite video source. Software allows 2 to 8 level gray-scale, saves pics in Koala, Doodle, or Print Shop compatible format.

Voice Master Demo Disk
$ 5.00 Covox

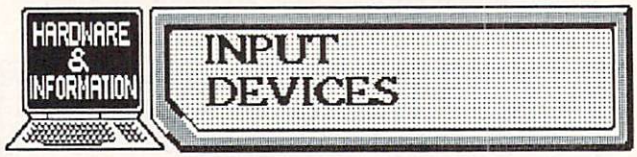
If you've been curious about speech synthesis, this disk can serve as a painless introduction. Included are talking calculator and keyboard programs, and a file of digitized words you can use in your own programs. Of course, the aim of the software is to get you to buy the Voice Master synthesizer, but it looks to be alot of fun on its own, especially since it can be freely copied and shared.

Voice Master
$ 89.95 Covox

Digitizes your speech for playback under computer control. Recognizes your spoken words as commands. Both speech playback and recognition can be combined into one user BASIC or m.l. program. Also measures speech fundamental pitch and produces music locked to the singer's voice. It can store a song which can be edited and even printed out as a musical score.

Votalker
$ 99.95 Votrax

Plug in speech synthesizer with unlimited vocabulary, text-to-speech translation, rate, volume and pitch controls, 3 speaking modes and trivia game included.



Flexidraw Light Pen
$ 99.95 Inkwell *****

Professional grade light pen (with single pixel resolution) and 'Penware' drawing software. This is not a toy (although it's lots of fun and easy to use). Includes a sophisticated machine language drafting software, and separate BASIC routines for programmable graphics, sprite editor, templates, and more! (-B.D.)

Koala Pad
$ 99.95 Koala Technologies *****

A medium-sized input pad that responds to finger or stylus pressure. Comes with KoalaPainter, uses the C64s 16 colors plus 136 mixed colors. Features 'oops' mistake correction, sophisticated block moves, quad symmetry mirror mode and more. 1 of the best C64 products, but now discontinued. (-B.D.)

Command Control Trackball
$ 49.95 WICO ****+

The controller of choice for Centipede players and Doodle! artists, the WICO trackball is the Cadillac of game controllers. (-M.B.)

MicroFlyte Joystick
$ 59.95 Microcube ****

For the true Flight Simulator II addict, this is a professional-feel controller specifically designed to make flying your C64 more realistic and hassle-free. Good feel, we wish it worked with other titles, too. (-M.B.)

Tech-Sketch LP-10s Light Pen
$ 49.95 Tech-Sketch ****

This low-cost light pen does a nice job with Tech-Sketch's version of the 'Micro-Illustrator'. (-B.D.)

Magic Mouse
$ 64.95 Tvtron ***

Magic Mouse is big, almost twice the size of a standard mouse, which makes it hard to manipulate. It has three color-coded buttons and uses paddle technology, so it will not work with programs writtern for standard mice, but works well with Koalapad software. Includes some good programs on disk, and nice documentation. (-M.B.

Stack Light Rifle
$ 59.95 Romaro Enterprises **+

This is light-sensitive input device in the shape of a rifle (also breaks down to pistol) which connects to your C64 by a 12-foot cable. Most of the games on the included disk were not too great, some were very boring after a short while. All only scan for the vertical position of the gun when fired. The gun itself however has a nice feel for a toy gun. (-Staff)

Mighty Mouse
$ 55.00 Contriver Enterprise Co. **

Joystick compatible two-button mouse, requires no driver software. We still have to ask: what good is a mouse that acts like a joystick? (-M.B.)

1350 Mouse
$ 49.95 Commodore

A mouse for your 64. It registers only the eight joystick directions.

1351 Mouse
$ 49.95 Commodore

Upgrade to the 1350 mouse, this one can be used either as a joystick or as a proportional mouse.

500XJ Joystick
$:na Epyx

Ergonomically designed joystick designed to be held in the left hand. Carries a 5-year, 1 million shot warranty.

Cardkey
$:na Supra

16-key keypad that attaches to your computer's joystick port. Software driver is included. Formerly from Cardco.

Commodore Joystick
$ 12.95 Kraft

Color matched to the C64. Includes 'Mazemaster' selector for 4-way or 8-way operation, positive stick mechanism, rapid fire button, and extra long 8 foot cord. Also available in 'Switch-Hitter' model for left and right hand play for $14.95.

GEOS Mouse
$:na Berkeley

A mouse with a battery-backed clock (!) to use with GEOS. Can be used as a regular analog mouse or as a joystick. Approximately the same price as the Commodore 1351 mouse.

Grafpad II
$ 149.95 Educational Systems

An import from GB that provides you with a 8.5x11 inch active graphics area and 1280x1040 pixels.

ICONtroller
$:na Suncom

A custom-fitted small-scale joystick that attaches to the upper right corner of your keyboard and plugs into either port.

QuickShot controllers
$:na Spectravideo

Various joysticks of different styles most all of which have suction cups for stability. Also, now available is the 'Joycard' (combination joystick and track ball) with all 8 directions at the touch of a finger on the touch-sensitive pad.

Space Pen
$ 149.95 Soniture

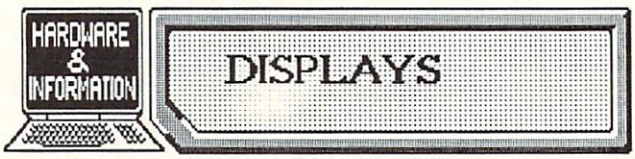
3-D wireless ultrasonic pen works similarly to a light pen, but with 3D axis. Compatible with existing graphics packages in 2-D only. Including sampler software.

Tac5 Joystick
$ 16.99 Suncom

A claimed life of 3,000,000 operations with a two-year warranty.

WICO Joysticks
$:na WICO

Four models (with prices ranging from $17.95 to $32.95): The Boss, Super Three Way, Bat Handle, and Grip Handle.



Sony KV-1311
*$ 500.00 Sony Corp. ****+*

A top-of-the-line, do-everything monitor/TV with RGBA, RGBI and composite inputs. (-Staff)

Teknika MJ-22
*$ 255.00 Teknika Electronics Corp. ****+*

RGBI and composite inputs.

1702 Color Monitor
*$ 199.95 Commodore ****

A fine monitor which improves significantly over TV and even composite video monitors. Make sure you take advantage of the hi-performance back-panel inputs. Composite and separated video inputs. (-B.D.)

1902 Color Monitor
*$ 369.95 Commodore ****

Commodore's own monitor for the C128. RGBI 80-columns, separated composite video input for 40-columns. 13 inch The 1902A monitor has a green-screen switch that just turns off the red and blue inputs. The A model also has slightly less color saturation.

Magnavox CM-8515
*$ 450.00 NAP Consumer Electronics ****

RGBA, RGBI and composite inputs.

Amdek Color 500
*$ 370.00 Amdek ***+*

RGBI and composite input monitor with a green screen switch. Unfortunately the RGB switch is located on the back and is almost impossible to get at easily.

Panasonic DT-M140
*$ 330.00 Panasonic Computer Products ***+*

RGBA, RGBI and composite inputs.

1802 Color Monitor
$ 249.95 Commodore

The replacement for the 1702, this monitor has the regular color display along with an 80-column monochrome display mode. The case color matches the 64C and the 128.

C.Itoh 8510SC
*$ 895.00 C.Itoh ****+*

This is the color edition of the 180 cps C.Itoh (see-ee-toe) 8510S. Four color ribbon cartridge can produce sixteen solid colors. Push-tractor fed. (-B.D.)

Okimate 20
*$ 268.00 Okidata ****

Thermal color printer delivers bright, intense colors through thermal transfer from waxy cartridge ribbon. Slow, the ribbons are expensive, but has the best-quality color output of any color printer we've seen. 'Plug-N-Print' interface modules are available for C64/C128 or Amiga, and the Amiga screendumps are beautiful! Ribbon cost for a color printout is about equal to a Polaroid print. (B&W ribbons avail.) (-M.B.)

JX-80 Color Printer
*$:na Epson America **

Color dot-matrix is 80-series code-compatible. Delivers disappointing color graphics, wide dot pattern, just plain not as good as it should be. (-Staff)

DXY-980 Plotter
$:na Roland

Eight color flatbed plotter w/2.5K buffer. Compatible with some Amiga CAD programs.

ImaJet
$ 1495.98 Illustrated Images

Ink jet printer with 120 dots per inch and over 4000 dithered colors.

PJ 1080A Inkjet
$:na Canon

This inexpensive color inkjet printer delivers 7 colors

Seikosha GP-700A
$ 399.00 Seiko

Graphic color printer.

Alphapro 101
$ 399.95 Alphacom

Parallel or serial 20 cps daisywheel with a 93 character buffer. Friction feed.

Aprotek 1120 Daisy Printer
$ 319.95 Aprotek

20 cpi printer that uses the standard Diablo 96 character print wheel.

Brother HR-10
$ 349.00 Brother International

12 cps/80-column daisy wheel portable printer. Serial or parallel, tractor feed with 2K buffer. Requires Brother cassette daisywheels and ribbons.

Brother HR-20
$ 499.00 Brother International

22 cps/117 column daisywheel printer with proportional spacing, red printing, copy function. Parallel/serial. 8K buffer, 16K optional, as are a tractor feeder and keyboard that turns it into a correcting electronic typewriter.

Brother HR-35
$:na Brother International

Daisy wheel printer with a 15 carriage. Noisy, but a good workhorse that was used heavily in the INFO offices for correspondence and the text in issues 5,6, 7,8 and 9. (-Staff)

Brother M-1724L
$:na Brother International

24-pin dot-matrix prints 216 cps in draft elite and goes at 24 cps in real letter quality. Permits both cut sheets and fanfold paper to be loaded at the same time, without having to remove one or the other. Comes with several standard fonts and an optional font board with a 16K buffer is available. It has both a Centronics parallel and RS232 (non-Commodore) interface.

Epson DX-10
$ 299.00 Epson America

Parallel daisywheel prints 10 cps. Friction feed is standard with an optional tractor and cut-sheed feeder. No buffer.

Epson DX-20
$ 459.00 Epson America

Prints up to 110 columns. Parallel standard with an all purpose Diablo interface. Prints 20 cps and has a 1K buffer standard with a 7K buffer optional.

Laserline 6
$ 2195.00 Okidata

Okidata's entry into the laser printer market. Produces six pages per minute. Features 'plug-in personality modules, 15 resident, typeset-quality fonts'. It also is the only laser we've heard about that will output sheets in face-down, correct order. A module is available for HP emulation.

LaserJet Series II
$ 2495.00 Hewlett Packard

The LaserJet II is the successor to the original, widely supported HP LaserJet and LaserJet Plus printers The LJII costs less than the original yet has many improved features: smaller weight and footprint, 2 font carts. can be used at a time, 1/2 Meg can be expanded to 1.5 Meg for $495 (2.5 Meg for $995, & 4.5 Meg for $1995). Paper output is now selectable (face up or face down). The only laser specifically supported by Amiga. (-B.D.)

C.Itoh 8510S
$ 794.00 C.Itoh ****+

180 cps draft mode, 120 cps near-letter quality mode (the nlq proportional character set looks very convincing), tractor/friction/roll paper feeds. Does not handle shipping labels with the same reliability as some due to the 'push-tractor' instead of a pull-tractor, nonetheless, a superior printer. (-B.D.)

Star SG-10/15
$ 299.00 Star Micronics ****+

Ten inch printer (15 inch lists for $399) that prints at 120 cps and 30 cps in near letter quality mode. Has 2K buffer (16K on the 15). Also features an IBM mode (ask me if I care) and has easier to reach side-mounted DIP switches. Excellent documentation.

Epson FX-80
$ 599.95 Epson America ****

160 cps, widely-supported popular printer with various fonts and pitches, dot-graphics, downloadable fonts, single-sheet and pin-fed paper handling. (-B.D.)

Mannesmann Tally Spirit-80
$ 399.00 Mannesmann Tally ****

Only 80 cps, but compact and quiet. Discontinued by Mannesmann Tally, but still available through some mail-order houses and second-hand. (-B.D.)

Star SR-10/15
$ 799.00 Star Micronics ****

200 cps, 50 cps in near letter quality mode and 2K buffer (16K on the 15). The only thing I don't like about the SR series is the 'push' type tractor which has replaced the more reliable 'pull' type found on other models. The push tractor leads to ocassional feed problems with labels and heavier stock like index card stock. Everything else about the printer is first class. (-B.D.)

MPS 803 Dot Matrix Printer
$ 199.00 Commodore **

Low-end Commodore printer lacks tractor feed for form-fed paper, not the world's greatest print quality. Doesn't even have true descenders. Requires oddball ribbon cartridges that are difficult to find. A step down from the older 1525 Commodore printer.

MPS 1000 Dot Matrix Printer
$ 299.95 Commodore ,

100 cps dot matrix is the latest from Commodore. Cassette ribbon, tractor/friction, nlq mode, both C= serial and Centronics parallel ports built-in.

MPS 1200 Dot Matrix Printer
$:na Commodore ,

120 cps dot matrix from Commodore features several print styles including pica, elite, sub/superscript and italic. It has two serial ports or an optional parallel port. It comes with traction/friction paper feed as well as a single sheet feeder.

Star ND-15
$ 649.00 Star Micronics ,

180 cps matrix printer, 45 cps in NLQ mode. Wide carriage for spreadsheets, etc. Push button control panel on the front for form length, paper feed, and online. Standard tractor and friction feeds.

Star NX-10 / NX-15
$ 349.00 Star Micronics ,

120 cps (30 cps in NLQ) dot printer. Push button control panel for typestyle, pitch, boldface. Cartridge ribbon. Standard tractor/friction feeds. feeds. Standard parallel interface required. The 15-inch model lists for $499.

Star NX-10C
$ 349.00 Star Micronics ,

Commodore-ready 120 cps (30 cps in NLQ) dot printer. Push button control panel for typestyle, pitch, boldface. Cartridge ribbon. Standard tractor/friction feeds. Cable to hook up to your 64/128 is included. Not quite as versatile as the NX-10 because of the built-in interface.

Alphacom Aero
$ 299.00 Alphacom

130 cps with a 2K buffer. Friction/tractor standard. Dot-addressable graphics.

C. Itoh Prowriter C-215XP
$ 679.00 C. Itoh

180 cps in draft, 45 cps in NLQ mode. Comes standard with a 10K buffer. Parallel is standard, but it does have a serial option.

C. Itoh Prowriter Jr.
$ 349.00 C. Itoh

120 cps in draft, 20 cps in NLQ mode. Friction/tractor paper feed. Parallel is standard with a serial option. Has only a one-line buffer, so an interface with a buffer would be desirable.

Diconix 150
$ 479.00 Diconix

A tiny, fast (150 cps/draft mode) ink-jet printer. It produces proportional, italic, expanded, condensed and emphasized print. Also NLQ. It weighs in at only four pounds and will fit in your briefcase with room to spare.

Epson LQ-1500
$:na Epson America

From 200 cps in draft mode to letter quality.

Gemini II
$ 329.00 Star Micronics

Commodore compatible 120 cps dot matrix printer is completely front-panel controlled. 30 cps nlq mode.

Hermes Printer
$:na Hermes Products

Multi-mode printer with 120 cps NLQ and 480 cps in draft mode. Now that's fast!

Juki 5510
$ 500.00 Juki

9 inch platen printer with 3K buffer (expandable to 15K), 30 cps NLQ, 180 cps draft, bidirectional and logic seeking.

Mannesmann Tally Printers
$:na Mannesmann Tally

A variety of dot matrix printers ranging in price from $549 to $2749. Standard serial/parallel i/o's. These are high-quality office-type printers.

Microprint 2000
$:na Micro Merics

120 cps dot matrix printer with user-replaceable 9-pin print head. Accomodates paper up to 10.5 inches wide.

Okidata 120
$ 269.00 Okidata

Commodore-compatible character set, serial buss, lets this printer works without interface on C64/C128. 120 cps draft mode, 30 cps nlq. Offers all enhanced print functions, including super/sub-script, bold, double-width, etc.

Okidata 292
$ 749.00 Okidata

200 cps in draft, 100 in NLQ mode, and 240 in high speed draft. Uses a special four-band ribbon for print in up to 14 colors. Has a dual-nine printhead in which the pins are staggered for one-pass NLQ printing. Also has a semi-automatic sheet feeder. Bit image graphics to 288 dpi. Has a push-type tractor. Price is for the 10-in. model; a 15-in. version is $949.

Seikosha SP-1000A
$ 299.00 Seiko

High quality printer with 100 cps standard and 24 cps NLQ.

Star SG-10C
$:na Star Micronics

Commodore-compatible version of the SG-10 lacks the versatility of that model. (-Staff)

Robotics Automat Kit
*$ 279.00 Fischer America ******

Robotics construction kit includes interface and software to build 10 different robots (or design your own.) Simulates real industrial arms, machining centers, plotters, sorters, digitizers & more with accuracy of +/-1mm. A must-have for every school! Among the top 10 products ever designed for the C64. May be expanded with other FischerTechnik kits. (-B.D.)

Promenade
*$ 99.50 Jason-Ranheim ****+*

EPROM programmer for C64 with software, ZIF socket for EPROMS, programs all 24/28-pin chips. J-R also sells UV erasers, EPROM chips, boards, housings, etc. This is one of the most highly-respected hardware add-ons for the C64, and it has been around long enough to have been run through the mill. A professional unit. (-M.B.)

Mouspad
*$:na Moustrak *****

Rubber pads in two sizes, five colors, two thicknesses, for your mouse to run around on. I was skeptical at first, but now I love the way my mouse works on its pad and how I remember not to put my coffee cup down where I want to use my mouse. From $7.95 to $10.95. (-M.B.)

Quick Brown Box
*$ 39.00 Brown Boxes *****

8K RAM cartridge with reset and write-protect switches lets you save utilities on cartridge out of the way of your regular programs. Battery backed so you don't have to reload every time you turn on your computer. A 16K version is available for $59.00. Easy to use and a real alternative to burning EPROM cartridges. (-M.B.)

$-Saver Switch
*$ 29.95 Value-Soft ***+*

Serial buss switchbox lets you share one peripheral (printer or disk drive) between two computers, or two printers, etc., with one computer. Ugly, but works great and saves your serial buss connectors. (-M.B.)

CPS-10 power supply
*$ 59.95 HBH Sales ***+*

Replacement power supply for your C64, includes two 100 watt outlets, surge and spike protection, steel case, and is user-repairable. Ours has a tendency to buzz occasionally, but tightening the transformer hold-down screws stops it for a couple of months. (-M.B.)

EM256kRAM
*$ 94.00 Performance Peripherals ***+*

Adds 256k to your C64 in 32 banks of 8k. Accessible by POKEing a register to switch in memory over resident RAM 8k at a time. New version requires no internal connections. (-M.B.)

Spartan
*$ 329.95 Mimic Systems ***+*

This Apple][+ emulator for the C64 was big news when first announced over 2 1/2 years ago. Though of less interest now, and of limited utility since it emulates the older][+ rather than the newer Apples, this is still an intriguing device. If you are a hacker, you might have a lot of fun with a Spartan. Clean, somewhat bulky, with lots of slots and hardware. Now includes an Apple-type disk drive. (-M.B.)

SX-64
*$:na Commodore ***+*

This transportable version of the Commodore 64 is no longer being produced, but can still be found at close-out prices (or used). Small & fuzzy color screen, very difficult to service, and no cassette port, but otherwise a trusty travelling companion. A 'transportable' rather than a 'portable', with single built-in 1541 compatible drive. If you need a traveling C64, you'll like the SX-64. (-M.B.)

Ultravox
*$ 39.95 Precision Peripherals ***

Stereo sound synthesizer, produces stereo audio output from your C64/C128 mono audio out. Phone jack, volume. The one we tested had an unacceptably high noise level, and the case had a real homemade look. (-M.B.)

1764 RAM Expander
$ 129.00 Commodore

Brings your 64 up to 256K, expandable to 512K. Comes with a heftier power supply for your C64. Includes RAMdisk software. Greatly enhances GEOS.

64C
$ 229.00 Commodore

A 64 in a new C128-style case, bundled with GEOS and QuantumLink software. It looks nice, and is supposed to be 100% C64 compatible, though we hear there are a couple of chip changes. You are paying extra for the bundled software; not as good a deal as the old 64 if you don't need or want the software. Generally discount priced closer to $200. (-M.B.)

801 Upgrade Chip
$ 25.00 Kobetek Systems

Upgrade character ROM for Commodore's MPS-801 printer which provides lower case descenders.

Acco Printer Stand
$:na Acco

Space saving printer stand, adjusts to hold 80 or 132 column printers and comes with or without forms feeder and printout tray.

Ani-Master
$ 119.95 Psidac

64-LED (8x8) programmable display panel with driver software to design displays up to 30 minutes long. A battery-powered portable version is available for $180.

BodyLink System
$ 139.95 BodyLog

Biofeedback system monitors your body as you exercise. Add-on modules for body temp., eeg, etc. are available. Software modules turn exercise into videogames, let you track pulserate, respiration, etc.

Command Center
$ 119.95 Ketek

Space-saving cabinet for your C64 or C64C includes built-in AC power strip, cooling fan, telephone jack and surge/spike protector. Holds monitor and two 1541s. 64C model is $10 more.

Compu-Case
$:na Computer Case

C64 and accessories carrying cases of various size (prices range from $109 to $229).

Compubench
$:na Richardson & Associates

Solid oak monitor/printer stands of different heights and widths with prices from $65 to $75.

Computer Covers
$:na Classic Image

Covers for most computers, printers, and other peripherals made of lightweight parachute material to keep heat from building up. C64: $9.99. Amiga: $35.30 for entire system including monitor. CI also has pinfed 3.5 inch and 5.25 inch disk labels.

Crown Covers
$:na Crown Custom Covers

Heavy vinyl covers custom fitted to C64, C128, Amiga.

Hi-Rise
$ 39.95 Unique Wood Products

Solid oak combination monitor, disc and printer stand.

Laser 128
$ 395.00 Central Point

We know, we know! This has nothing to do with Commodore products! But if you've been looking for a reliable, inexpensive Apple][clone, this is it. The reports we have seen say this is a good, clean machine with more features than Apple gives you for a fraction of the price. We still like Commodore stuff better, but if you HAVE to own Apple this is the way to go. (-M.B.)

LeRoy's Cheatsheet Overlays
$ 3.95 Cheatsheet Products

Plastic laminated keyboard overlays covering many of the popular word processors, spreadsheets, data bases, printers, languages and utilities.

MacInker
$:na Computer Friends

MacInkers run in the $60-$90 range. You get a universal base with an interchangeable 'driver' (about $8.50) for your particular brand of printer. You can get additional drivers separately. With a MacInker, you can re-ink a cloth ribbon '80-100 times' at about a nickel a shot. Drivers available for Commodore and 3rd-party printers.

Mag-Rak
$ 34.95 R & L Products

9x11 inch copy-holder designed primarily to page-display with line-guide or display an intact computer magazine containing program listings. Also accomodates single sheets, paperback and hardback books.

Media Mate & Disk Bank
$:na Amaray

Diskette storage cases of varying size (for 5-1/4 and 3 1/2 inch disks), capacity, and with or without lock. List prices range from $14.95 to 29.95.

Mouse Wash
$ 7.95 T & L Products

An acrylic ball you stick in your mouse to clean it without solvents.

Print 'n Wear
$ 7.95 Foto-Wear

Transfer paper to print your design on, then iron onto a t-shirt.

Rainbow ROM
$ 30.00 Rainbow Electronics

New, customized ROM chip to plug into your 64. Includes a built-in wedge with disk speedup. You can also get a personalized sign-on message and default colors.

Reduce System
$ 195.00 Jance Assoc.

Reduction of electrical demand using your C64 with this system. Keeps track of time, date, day of week, month and year. Your use of energy is carefully scheduled to maximize economic use and minimize cost.

Rel 64
$ 41.00 ScanAm

Relay cartridge to plug into the user port to let you connect lights, alarms, etc. to your 64. It will transmit the information, but you will have to write the BASIC program to make it do what you want.

Replacement Chips
$:na K.Boufal-Consulting Services

Replacement VIC, SID, 6510, and other special C= chips.

RGBI Conversion System
$ 49.95 DigiTek

Internal add-on board adds RGB input to 1701/1702 monitor. Installed $69.95.

Robotic Workshop
$ 149.95 Access Software

A kind of erector set for the computer age. A kit to construct and control various robotics projects. The parts interface with 'Capsela' construction sets.

Rolltop Disk File
$ 35.95 MicroComputer Accessories

Stores 120 - 5&1/4 inch disks, includes 10 dividers and color coded labels, also available in several colors and with or without locks.

Seiko PC Datagraph
$:na Seiko

Portable 2K RAM computer terminal for your wrist with 12 distinct data files for travel schedules, appointment times, key dates, foreign word translations and more. Alarm alerts you up to 1 year in advance. Hooks directly to the computers RS232 port.

Shuttle Communicator
$ 69.95 The Microperipheral Corp.

Allows the computer to receive information from NDN Softcasts (radio broadcasts) at up to 4800 baud. Terminal software included.

Soundbox
$ 39.00 TecTrans

A speaker with built-in amplifier that connects between your computer and monitor. Just the thing if you use a monitor that doesn't have a speaker. Uses four UM3-type batteries.

Specialized ROMs
$:na INCA

Replacement ROM chips with extra features such as a DOS wedge, unnew, trace, and default to disk. You can also select your own start-up colors and message. INCA also has available a ROM that changes your keyboard over to Dvorak format.

Spikeater
$ 49.95 Control Corp of America

Power line spike and surge protector that also centralizes computer power control.

The Prompter
$ 2.95 Transierra Technology

Package including 10 plastic function key overlays and 15 label sets, so you can makeup each overlay for each piece of software you own.

Tilt 'n Turn CRT Stand
$ 29.95 MicroComputer Accessories

12 x 12 inch platform, made of high impact styrene in a putty finish.

Underware Color Pens
$ 14.95 Diversions

Set of 5 colors (red, blue, green, orange, yellow) that are used to add color to the paper transfers (made with the 'Underware Ribbon') prior to ironing, results are permanent and washable.

Underware Coloring Kit
$ 19.95 Diversions

Consists of 20 sheets of special transfer paper and a set of 5 color pens. The paper has a special kind of ink and is designed to be used for printers for which 'Underware Ribbons' are not available.

Underware Ribbon
$ 14.95 Diversions

Turns your computer into an instant T-shirt maker. Print any image on plain paper using this special ribbon, then iron that image onto a shirt. Each ribbon produces 30-100 transfers that are permanent and washable. For NEC8023, C.itoh prowriter, Okidata 80 & 90, Star Gemini 10x & 15x.

Universal Printer Stand
$ 19.95 Curtis Manufacturing

Front-tilted stand that permits paper-feed from beneath and from the rear both.

Valiant Turtle
$ 365.00 Kobetek Systems

Robot remote controlled robot by infra-red transmitter. Includes software driver for LOGO compatibility (English or French). Powered by rechargeable ni-cad batteries, carries pen which can be raised or lowered to trace all movements. Draws smooth circle and arcs. Package includes turtle, batteries, infra-red transmitter, power adapter, pen and manuals.

1700 RAM Expander
$ 199.95 Commodore ,

Adds 128K of additional bank-switched RAM to the C128. Can be accessed by BASIC 7.0 and CP/M.

1750 RAM Expander
$ 299.95 Commodore ***

Adds 512K to the C128, accessible from BASIC 7 or as RAMdisk by CP/M. Needs to be accessible as RAMdisk from C128 mode to be truly useful. Otherwise few products will be able to make use of it. Nice for animation or for programmers who can get to it, otherwise pretty expensive. Not currently C64 compatible, but being modified. (-M.B.)

C128 Cheatsheets
$ 7.95 Cheatsheet Products

Leroy now offers ten different cheatsheets for the C128 including Paperclip, Wordpro, Superbase, and others.

Command Center 128
$ 149.95 Ketek

Space-saving cabinet for your C128 includes built-in AC power strip, cooling fan, telephone jack, and surge/spike protector. Holds monitor and two 1571s.

Commodore Camp
$ 290.00 Lincoln College ****+

A week-long total Commodore experience that occurs every Summer in central Illinois. Jim Butterfield and others teach week-long courses in Commodore specifics. Not only a great time, but a real learning experience, and you can even earn a couple of college credits! $10/nite additional for room, $56 for a week-long meal ticket. (-M.B.)

CompuServe
$:na CompuServe ****

The most extensive service around, for variety, I'd pick CIS if I had but one choice. Amiga and Commodore Forums, shopping, news, stocks, games, and gobs of Special Interest Groups. Non-prime time access is $6/hr at 300 Baud, $12.50/hr at 1200 Baud, plus $.25/hr for CIS direct line or $2/hr for TYMNET or Telenet. Special rates for CB chatting. Buy retail starter kit to join. INFO's ID: 70215,1034

Dow Jones/News Retrieval
$:na Dow Jones ****

THE place for financial and investment info, DJN/R is slim pickin's for casual use: Movie reviews from 1923, shopping, news, business research and MCI mail. Cheapest membership is $30 which includes 5 hours online after which non-prime access is $12/hr at 300 Baud, $26.40/hr to 2400. Some databases are surcharged to $158.40/hr during prime time!

PeopleLink
$ 4.95 PeopleLink ****

Beaucoup Amiga and C64/128 action in Clubs. Great program libraries, messages and live conferences but Plink needs an operations manual bad! Non-prime access (evenings, weekends and holidays) is $4.95/hr 300 Baud, $4.95/hr 1200 Baud. Modem sign-up 800/826-8855 or 312/822-9712. Small fee to join.
INFO's Plink ID: INFO MAG

QuantumLink
$:na QuantumLink ****

Easy to use and colorful, QLink is accessible with special software by C64/128s only although there IS Amiga stuff online. A direct line to CBM and lots of people chatting and playing interactive games. $9.95 monthly plus $3.60/hr (300 or 1200 baud, non-prime only) for most everything good online. Especially good for beginners. But where is Habitat? Info's ID: INFO Mag

BIX
$:na Byte Magazine ***+

Official Amiga developers' support network, BIX is more technical than most. It has 3 Amiga & 1 C= area (conferences). A BBS with no live interaction, download the weekly digests & figure out what you want offline. Then sign back on and get those messages, tutorials, & programs. BYTE subscribers join for $25, others $39. Access is $11/hr to 1200 Baud during non-prime time.
INFO ID: infomag

GEnie
$:na GEnie ***+

GE's own data phone lines make file transfers fast and flawless. First with free program uploads, GEnie has C= and Amiga RoundTables, shopping, stock market info, interactive games and a lively CB simulator. $18 to join and $5/hr to 1200 Baud non-prime. Call 800/638-8369 (7,1,N half duplex) to join by modem. Enter HHH <retrn> at CONNECT and 5JM11950,GENIE <return> at the U#: prompt.

Performing Arts Network
$:na The PAN Network ***+

A service dedicated to electronic musicians and MIDI with a number of famous professionals and instrument makers online. Access through TYMNET, Delphi, PC Pursuit (see above) or directly at 617/576-0862 with modem.

The Source
$:na The Source ***+

Established full-service network with new C64/128 and Amiga SIGs (non-prime SIG access $6/hr at 300, $7.80/hr at 1200, $9 at 2400 baud). Lots more including news, shopping, games, investing, user publishing, live group chat ($8.40/hr at 300, $10.80/hr at 1200, $12 at 2400 baud). $49.95 registration fee, $19.95 for a gorgeous operating manual, $10/month minimum. Free online system tutorial.

Delphi
$:na General Videotex Corp. ***

Delphi has news, stocks, shopping, CB and 3 areas of particular interest: the Flagship Commodore, StarShip Amiga and Micro Artists Network (Maniac for art and music). Unlike other nets, separate parts of program files are stored together which makes downloading them easier. $7.20/hr to 2400 Baud, credit card or direct billing. Gateway to the Performing Arts Network (see below).

Mnematics Videotexx
$:na Mnematics ***

Interesting little grassroots service covering offbeat things like comic books, puzzles, human sexuality and the Radio Resources Network. Has VIDTEX animated color graphics, subscriber publishing, discount Telex & Mailgrams, CB, and rather empty C64/128 & Amiga SIGs. Rates are typically $40 for 6-month membership plus $3.50/hr non-prime. Modem demo at 914/365-0180.

PlayNet
$:na PlayNet ***

Still hanging in there, PlayNET's colorful, dedicated (C64/128s only) system has games, live chatting and file transfers (surcharged at $.50 each). Available non-prime time only, $12/month fee includes four hours online, then $2.75/hr. Like QLink, you must use their software. INFO ID: Ben D

ProtoCall
$:na Interplay, Inc. ***

Centered on live-interaction, this one is set up like a city with streets and buildings. It has an inter-active online adventure game, lots of live chatting, SIGs and user-run clubs but only ASCII file transfers (no error checking). $3.60/hr to 1200 Baud with lots of low cost specials.

The Well
$:na Whole Earth Lectronic Link ***

Interesting smaller service with C64 and Amiga messages program transfers, Email and live chatting. Non-prime $3/hr to 1200 baud plus $2/hr TYMNET (also available through PC Pursuit), $8/month service charge. Gateway to Usenet. Join by modem at 415/332-6106 and use name NEWUSER.

CompuGram
$ 14.50 Quazon Electronics

Newer business-oriented service with meager hobby fare online. Membership $25, and non-prime connect rates are $6/hr at 300, $12.50/hr at 1200 Baud, plus $2/hr for TYMNET.

Electronic Univ. Classes
$:na The Electronic University

Classes range from seminars to classes for kids, professional field-specific study and adult education, which some US colleges accept for credit. Offers many diverse classes. Prices average between $60 and $75 per credit. Non-credit courses are less. There is a $195.00 one-time membership fee. On-line access to the Electronic Library ranges from .14 to .72 per minute.

Habitat
$:na QuantumLink

This is a multi-player, non-objective, semi-adventure game that will be available someday on QuantumLink. We hear they have been selling disks for months, but QLink says it is still 'debugging' before they go online. Should be exciting when it finally debuts.

PC Pursuit
$:na Telenet

Not a network, this service offers use of nationwide data phone lines with no long distance charges. For $25 a month during non-prime time (6PM to 7AM weekdays, all day weekends and holidays) you can call any computer in 25 major U.S. cities, as often and as long as you wish. Use your modem on their free 24-hour BBS at 800/835-3001 for details.

Scepter
$:na Interplay Inc.

Affordable ($2-$3.50/hr, billed by the minute, and depends on its location) online interactive gaming. Currently availabe in 20 metro areas and hopes to be in over 100 cities by late 1986. (-Staff)

Telenet
$:na Telenet

A carrier service, Telenet local telephone access numbers are available in over 18,000 U.S. locations and let you connect with other computers and networks, usually at $2/hr over and above what they charge. Call voice 800/835-3638 (703/689-6000 in VA) for numbers in your locale. When using a modem, type two Returns after CONNECT, then a third Return. See PC Pursuit.

TYMNET
$:na Tymnet, Inc.

Similar to Telenet, Tymnet recently merged with Uninet (which is no longer) and provides local telephone data lines for calling remote computers bypassing long distance charges. $2/hr above what the answering computer charges you. Call them voice at 800/336-0149 for local access numbers. When using the service itself, type the letter a as your terminal identifier when signing on.

X-Press
$:na X-Press

Newer one-way information provider transmitting at 9600 baud offers worldwide news, financial, stock market and sports reports. Requires special software, call for pricing.

INFO
$ 3.95 Info Publications ****+

'irreverent bimonthly'- Wall Street Journal.
'..the toughest review board in the CBM market.'- AHOY!
'If you haven't seen this magazine, you're missing alot
!' -Ted Drude, Computer Shopper's 'Inside Commodore'
'in the tradition of the early Berkeley Barb'-Joe Spano
Entirely produced and managed with personal computers. If INFO ever actually comes out on time, it'll get five stars for sure! (-B.D.)

Commodore Microcomputers
$ 2.50 Commodore Publications ****

This is Commodore's own publication, and it gets our vote for the very best of the high-circulation C= mags. It's colorful and good-looking, and the articles are well-written and full of all the latest, greatest, inside information (as you might expect). You won't read any critical reviews in Commodore Microcomputers, but you will definitey get your money's worth. (-M.B.)

The Midnite Software Gazette
$ 2.00 Midnite Software ****

Jim Oldfield is the mover behind this scrappy little newsletter/magazine. Long respected as a knowledgeable & sincere journal, Midnite is now monthly and runs about 30-40 pages. B&W mag is mostly text with few ads. Reader reviews submitted by a wide range of folks makes up the bulk of Midnite, with insightful articles and editorials for frosting. $23/year for 'The first independent Commodore users magazine.' (-B.D.)

Transactor
$ 2.95 Transactor Publications ****

Bi-monthly Canadian publication which stresses the technical side of Commodore computers, both 8 and 16-bit. Mostly text and B&W, with color on the cover only, and few ads. Most Commodore technical info debuts in the pages of the Transactor. If you are into hardware or software hacking on these machines at any level, the Transactor is a must. Now includes TPUG magazine. (-M.B.)

Computer Shopper
$ 2.50 Computer Shopper ***+

Large magazine with lots of advertising & the Commodore column is very good. This publication keeps tabs on machines as diverse as the Sinclair and the Morrow. Lots of fun to read (I've been following Stan Veit's History Of Computing religiously) and as honest as you can get. If your perspective of computing is broader than just Commodore machines, you owe it to yourself to pick up a copy of the Shopper. (-M.B.)

COMAL Today
$ 18.95 Comal Users Group ***+

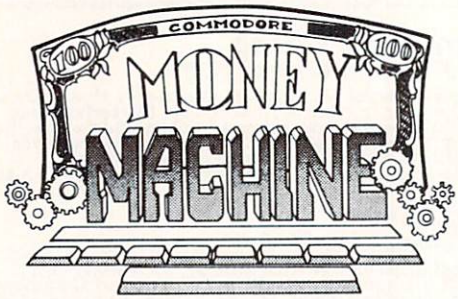
COMAL news, tips and ready to type in programs. $18.95 for 6 issues and $4.95 for a sample copy. Laser printed, no color and few illustrations, but chock full of the latest COMAL information. If you dig COMAL, this mag is a must! (-M.B.)

Ahoy!
$ 2.95 Ion International ***

Monthly for C64/C128, and has added regualar Amiga coverage. The type-in programs are becoming repetitive and there is a disturbing trend towards more useless hex listings. Dale Rupert and Morton Kevelson are still providing good reading, but Ahoy! otherwise seems to be sliding into the mediocrity which has claimed the other Commodore magazines. (-M.B.)

Compute!'s Gazette
$ 2.95 Compute Publications ***

Slick monthly publication dedicated to the Commodore 64 and C128, with some on the Amiga. Emphasis is on type-in games and occasional utilities, but if you have Gazettes from a year or two ago you already have listings for similar programs. Don't seek critical reviews in CG, though it does seem to keep more up-to-date than Run. (-B.D.)



Money Machine
$ 3.95 Money Machine ***

Don Vandeventer's bimonthly magazine dedicated to making a profit with your Commodore computer. The second issue was much improved over the first, and if he keeps it up this could be a worthwhile magazine. (-M.B.)

RUN
$ 2.95 CW Communications ***

This slick monthly Commodore magazine is notorious for holding Commodore's company line even better than Commodore's own magazine. They are privy to much inside information, but don't expect any boat-rocking from the folks at Run. Some occasional good articles, and the Magic and the other columns are usually good for a tid-bit or two, but product reviews and information are often not trustworthy or up-to-date. (-M.B.)

Compute!
$ 2.95 Compute Publications **

Monthly publication with Commodore, TI, Atari, Apple, IBM, and misc. coverage. Compute! has fallen from a leader to just a hanger-on in the last couple of years. Spread too thin already, the addition of spotty Amiga coverage hasn't helped focus their appeal much. Unless you own six brands of computer, it's a waste of time & money. We still think Compute!'s demise can't be far off. (-B.D.)

C Users Group Newsletter
$ 15.00 C Users Group

Provides a newsletter, BBS, public domain library and moral support for C programmers. $15/yr.

CBUG Escape
$ 10.00 Chicago B128 Users Group

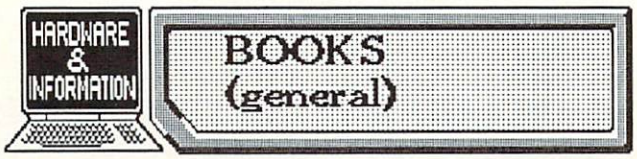
2000 member B128 users group with quarterly newsletter for $10 per year. Most of the technical info from C= on the B machines ended up with this group. (-M.B.)

Computer Entertainer
$ 21.00 Computer Entertainer

Monthly mag for various home computer systems. Includes coverage of C64/128, Amiga, Atari XE, Apple][, Mac, Nintendo, Sega, Atari 7800. They claim to have all the latest reviews and news. Price is for third class delivery; add $4 for first class.

Twin Cities 128
$ 25.00 Twin Cities 128

A monthly publication completely devoted to and produced on the C128. Features tips, tech info, and reviews. $2.50 cover price.



1541 User's Guide
$ 19.95 Brady Communications

Gerry Neufeld's book on using the 1541 covers housekeeping, file handling, relative files, and the more practical aspects of C= disks. Some high-end technical information here, but mostly a tutorial on advanced troubleshooting and preventive maintainence. Lots of nice program listings for file recovery, editing sectors, etc., plus examples of file creation & handling.

A Survival Guide for the 1541
$ 5.00 Stoneridge Software

Quick reference DOS commands, using the wedge, trouble shooting and file handling.

C Primer Plus
$:na Sams

A great tutorial on C: Included with Pro-Line's C Power but also available directly from Sams.

Compute Books
$:na Compute Publications

Various titles for the C64, C128, and Amiga; contents are mostly reprints from their magazines.

Computer Talk
$ 7.50 Stoneridge Software

A beginner's guide to telecomputing, covers: basic terms, concepts, how to choose a modem and terminal software, and how to link up with systems. (Only $5 for book without C64 demo disk)

Digital Deli
$ 12.95 Workman Publishing

A collage of tasty tidbits like a time-line of personal computers and a whole section of articles from users of different computers, from the VIC-20 to the Epson QX10. (-M.B.)

Flight Simulator Book
$ 19.95 En Route Books

A tutorial for Microsoft's Flight Simulator and SubLogic's Flight Simulator II.

Hackers
$ 4.50 Dell Books

Steven Levy relates the escapades of the personalities who liberated the computer from the ivory towers of business and academia and delivered it in micro form to the masses. If you don't understand the hacker mentality, this book will help. If you are one, this book will help you to realize that you are not alone. (-M.B.)

Hayden Books
$:na Hayden Books

Many titles including: C64 Programs for the Home, Programming Adventures in BASIC, C64 Illustrated, Basic C64 BASIC, Taking Care of Business with your C64 and more.

Inner Space Anthology
$ 14.95 Transactor Publications

An invaluable reference with charts, tables, memory maps, and more for most of the equipment produced to date by Commodore. There is even a periodic table of the elements. Volume II now available. (-M.B.)

Inside Commodore DOS
$ 19.95 Brady Communications

By Richard Immers and Gerald Neufeld, this is the bible of the 1541 disk drive. This book explains the inner workings of Commodore's DOS, and the elements of file recovery, disk salvaging, and copy protection. Must reading for anyone into hacking CBM equipment. (-M.B

Practical Interfacing
$ 16.45 Tab Books

Practical Interfacing Projects with the Commodore Computers. Software and hardware tips for interfacing the C64, VIC20, & C128 to the real world.

Program Protect Manual Vol. 1
$ 29.95 CSM Software

Covers the disk drive, bad blocks and tracks, modified directories, cartridges, protection schemes and much more. Covers both BASIC and machine lang. protection schemes. A complete memory map and a disk with many helpful utilities are included.

Program Protect Manual Vol. 2
$ 34.95 CSM Software

A new and up to date manual covering the latest advances in program protection. Over 275 pages and a disk to help explain the concepts. Topics include: encryption & decryption, undocumented opcodes, GCR recording, custom DOS routines, advanced cartridge & eproms, compilers, 1/2 tracks, nibble counting, extra tracks & sectors, and more.

Sams Books
$:na Sams

A wide variety of books covering many aspects of Commodore computing, such as 'Assembly Language Programming', 'Troubleshooting & Repair Guide', 'BASIC Programming', '1541 Repair Guide', '128 Troubleshooting & Repair Guide', '128 Assembly Language Programming', and others.

Service Manuals
$:na K.Boufal-Consulting Services

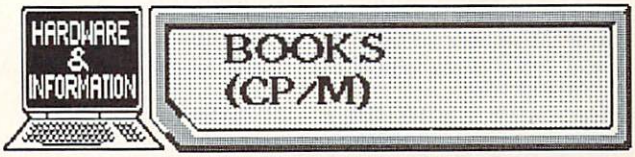
Boufal markets technical service manuals for C= equipment and also has a variety of diagnostic software and equipment.

Starting FORTH
$:na Prentice-Hall

One of the most entertaining books ever written as an introduction to a computer language, Starting FORTH takes you by the hand and painlessly introduces you to the strange and wonderful concepts involved in FORTH programming. (-M.B.)

Superbase: The Book
$:na Progressive Peripherals

Finally! A book to answer (almost) all of the questions you have about Superbase that aren't covered in the manual. Includes 'Known Bugs' section. Meant as a supplement to the manual, not a replacement for it. If you are a Superbase 'power user', then this book is a must!



The CP/M User Guide (3rd ed.)
$ 18.95 Osborne/McGraw-Hill

A well-written and organized book which delves more into the user's, and not so much the programmer's, side of CP/M+. (-M.B.)

C128 Books
$ 19.95 Abacus Software

Series includes C-128 Internals, with commented ROM disassemblies, 1571 Internals, C-128 Tricks & Tips, CAD On C64 & C128, BASIC 7 Internals, C128 CP/M. Translated from German, so a little stiff, and not always 100% accurate, but still offer much useful and sometimes unique information. (-M.B.)

C128 Programmer's Ref. Guide
$ 21.95 Bantam Books

This very thick reference is a must for every serious 128 programmer. Much needed info is here, but this is still not comprehensive. (-M.B.)

The Black Book of C128
$ 15.95 Value-Soft

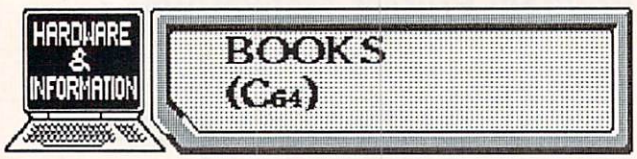
Organized charts and tables covering many aspects of the C128 in color-coded sections. While this book does not contain everything you will want to know about the C128, what it does contain is handy and easy to find. They call it a 'Dictionary for the C128'. (-M.B.)

The Commodore 128 Mode
$ 14.95 Microcomscribe

This book addresses the C128 and 1571 drive. Learn about memory organization and operating system.

Your Commodore 128
$ 14.95 Osborne/McGraw-Hill

Mostly a how-to-program-in-BASIC tutorial on the C128, with an additional hefty section on using CP/M. Unfortunately, most of the book deals with BASIC 2.0, and the information on BASIC 7.0 is pretty skimpy. (-Staff)



A.I. Projects for the C64
$ 12.95 Tab Books

Paperback book covering artificial intelligence.

C64 Interfacing Blue Book
$ 16.95 MicroSignal Press

This book describes 36 hardware interfacing projects for the C64. Description, schematics, theory of operation and parts lists are given for all projects.

C64 Micro Mansion
$ 11.95 Tab Books

Paperback book with info on making your C64 do everything from burglar watching to turning on/off lights to making coffee.

GEOS - Inside Out
$ 19.95 Abacus

Includes a collection of tricks and tips for using the GEOS operating system as well as covering GEOS internals and general usage.

GEOS Tricks & Tips
$ 19.95 Abacus

Tricks and tips for use with GEOS, of course.

How to Get Most out of GEOS
$ 14.95 Midnite Press

Reference guide and utility book for GEOS users. The book comes with type-in program listings which are available on disk for an additional $9.95. Lots of good file translation, graphics conversion, etc., utilities. Well put-together, with memory maps and other info for programmers. (-M.B.)

Machine Language for the C64
$:na Brady Communications

Jim Butterfield's clear, concise, and well-written introduction to m/l programming on the C64 and other Commodore computers. Lots of Commodore specifics, including memory maps, how to use Kernal routines, etc. but lighter on the basics of 6502 coding. Best if used in conjunction with a more generic 6502 assembly language book, but indispensible for the C= info. Latest revision includes C128. (-M.B.)

Mapping the C64
$ 14.95 Compute! Books

A sequential byte-by-byte, routine-by-routine analysis of every memory location, from $0000 to $FFFF. Each loaction is given its decimal and hexadecimal address, a clear and useful title, and anywhere from a sentence to several pages of text depending on its relative importance and utility. Written by Sheldon Leeman.

Official GEOS P.R.G.
$ 19.95 Bantam Books

Programmer's Reference Guide provides all commands, memory maps, and other necessary information to program in the GEOS environment.

Programmer's Ref. Guide (64)
$ 19.95 Sams

Indispensible for anyone interested in what's really going on inside a 64.

Programming the C64
$ 19.95 Compute! Books

A 600 page compendium of 'everything you wanted to know about the C64' book. A must for the serious C64 programmer who would like to have 99% of the information in a single book. Written by Raeto Colin West.

Serious Programming for C64s
$ 9.95 Tab Books

A chance to learn tested and proven techniques for overcoming the C64's programming limitations.

The Anatomy of the C64
$ 19.95 Abacus Software

One of a series of West German books translated into English. These books are all sparse on production values, but heavy on information. Subjects include cassette storage, 1541 drive, printers, graphics, tips & tricks, and science & engineering, among others. This particular volume consists mainly of a commented disassembly of the C64's ROMs. (-M.B.)

What's Really in the C=64
$ 29.95 Schnedler Systems

Reconstructed assembly-language source code listing of the Basic and kernal ROMs. Enables one to understand and use the 'undocumented' ROM routines, and better understand even 'official' kernal routines. Uses labels, not a mere one-line disassembly. Every routine is introduced with a statement of its purpose. Tables are fully sorted out and derived, not a mere hex-dump.

Disk I & II
$ 10.00 Quantum Leap

Magazine with 15+ programs on disk, covers games, utilities, home software and education.

Gold Disk Software Series
$ 14.95 Gold Disk

A series of volumes of high quality software at a price that's hard to resist. Each volume contains a feature program such as a word processor, data base, spread sheet, graphics package, music synthesis. Plus each volume contains high quality games. User friendly and fully documented on disk, which is printable on most printers.

How to Operate the C=64
$ 29.95 FlipTrack Learning Systems

An audio cassette course that teaches operation of the C64 and peripherals. Begins with start-up procedures and special keys, then moves into simple BASIC programming and use of color, sound, graphics and sprites. Also covers datasette and 1541 operations. Includes a fully indexed quick reference card.

Instructional Video Tapes
$:na Lynn Computer Service

VHS or Beta tapes available for BASIC, disk i/o, Calc-Result (Advanced & Easy), Practicalc 64, and Multiplan. Prices range from $29.95 to $39.95.

Software Club
$ 9.95 Mystic Software Club

Monthly software-on-disk club with no minimums.

Uptime
$ 72.00 Viking Technologies

Disk-based monthly magazine.

AMIGA

Maximillian
$ 195.00 Intuitive Technologies

Four modules (spreadsheet, wordprocessor, graphics, & termina). Features 'dynamic paste' (ie: after transferring data from one module to another, changes made in one module are automatically made in the other.) All 4 programs run simultaneously and can be upgraded on a modular basis. Terminal module has unique feature allowing 2 Amigas to be 'slaved' together via modem for interactive use by multiple users.

PHASAR Financial Manager
$ 99.95 Marksman Technology ****+

Integrated single-entry system that's easy to use, fast and powerful. Pull-down menus with full-screen editor for adding accounts, allows juxtaposing accounts for grouping totals (e.g. evaluating a part-time business), grphis budget vs. actual, mini-calculator, special tax module. Automates P&L and Net Worth, not copy-protected uses expansion RAM. Sets the standard by which others of its type will be judged.

Amiga Man: Business
$ 24.95 Amiga Man

10 business programs on disk.

B.E.S.T. Business Management
$ 395.00 B.E.S.T.

Integrated business management system, functions include a/r, a/p, invoicing, statements, etc.

CCI Bottom Liner
$ 200.00 Clockwork Computers

Expandable home/small business accounting system. Single or double entry. Mailing list for up to 500 customers. Prints checks, invoices, statements. Keeps track of cash flow, bank balance, trial balances, accounts receivable, and net worth. Printouts from ledger, spreadsheet, and amortization schedules. Physician, attorney, advertising modules are available for $55 additional each.

CCI Super-A Merchandiser
$ 650.00 Clockwork Computers

Small business accounting system. Includes fully integrated quotation, job order, sales transactions, inventory control (up to 10,000 items) and more. Smaller versions of the program, Merchandiser and Intermediate Merchandiser are available for $250 and $599 respectively. 512K and two drives are required for all.

Commodity Futures Chart
$ 795.00 Ensign Software

The full title is 'Commodity Futures Real-Time Tic Chart'. Uses data from Bonneville Telecommunications satellite.

D.A.S. Business Finance
$ 45.00 Developers of Advanced Softwar

Aids you with your financial decisions.

Film Production Toolkit
$ 1500.00 Film Production Toolkits

Accounting package designed specifically for the motion picture industry.

Finance I
$ 11.95 Computer Solutions

Computes loans and 20 other financial functions.

Financial Plus
$ 295.00 Byte By Byte

A/R, A/P, G/L, Payroll plus built-in wordprocessor. Does NOT use the mouse or pull-down menus, and it's a pain to have to go back to the main menu to use the various program modules. 'Write Hand', the built-in wordprocessor (available separately), suffers from the same ailments.

For-Trac
$ 2250.00 Eclipse Data Management

Keeps tabs on foreclosures for real estate investments.

Isgur Portfolio System
$ 249.95 Batteries Included

Lets you update your portfolios automatically with the latest data from on-line services, includes analytical features for decision making.

KEEP-Trak
$ 129.95 The Other Guys

General ledger accounting package. Modules include a Balance Sheet, Income/Expense Statements, General Journal, General Ledgers, Trial Balance and Chart of Accounts.

Lionheart Business Software
$:na Lionheart

A variety of business analysis programs including such titles as Business Statistics ($145), Decision Analysis Techniques ($110), Experimental Statistics ($145), Explanatory Data Analysis ($75), Optimization ($110), Sales & Marketing Forecasting ($145), Multivariate Analysis ($145), Linear & Nonlinear Programming ($95), and Quality Control & Industrial Experiments ($145).

ParReal I
$ 149.00 PAR Software

Provides real estate related functions including 'what-if' scenarios, lease vs. buy, and just about anything else you want to figure out about a real estate deal.

Rags to Riches Ledger
$ 199.95 Chang Laboratories

Double-entry general ledger that handles up to 5,000 accounts and 10,000 transactions and is RAM-based to function twice as fast as any other accounting uses mouse and pull-down menus.

Rags to Riches Payables
$ 199.95 Chang Laboratories

Handles up to 5,000 accounts and 10,000 transactions and is RAM-based to function twice as fast as any other accounting package. Can stand alone or integrate with other 'Rags to Riches'. Version IV uses mouse and pull-down menus.

Rags to Riches Receivables
$ 199.95 Chang Laboratories

Handles up to 5,000 accounts and 10,000 transactions and is RAM-based to function twice as fast as any other accounting package. Can stand alone or integrate with other 'Rags to Riches'. Version IV uses mouse and pull-down menus.

Rags to Riches
$ 499.50 Chang Laboratories

Ledger, Payables, Receivables, and Sales modules handle 5000 accounts and 10,000 transactions. Software is RAM-based for extra speed. Version IV has been 'Amiga-tized to take advantage of mouse and pull-down menus.

Rent-Pro
$ 2000.00 Eclipse Data Management

A complete system for handling rentals.

2+2 Home Management System
$ 99.00 Olamic Systems ***+

A solid, single-entry approach using account numbers and password security. No mouse or pull-down menus but good on-screen help files. Prints checks, mailing labels, P&L and Net Worth. Best if you're organized and have some knowledge of bookkeeping. Multitasks and not copy-protected.

Money Mentor
$ 95.95 Sedona Software ***

Potentially beautiful and easy-to-use, it scrambled my data disk during a print operation. (Moral: make backups often!) Automated smart scrolls and audible prompts are nifty, and once it's rewritten in Modula 2 (from BASIC), it should be good for beginners although it doesn't track payroll taxes or net worth. Not copy-protected.

Financial Cookbook
$ 50.00 Electronic Arts ,

One of the handiest little packages for the average person trying to figure out whether to buy/rent or save/invest, etc. I used this recently during the sale and purchase of our home and will use it before I buy a car or open a money market account. (-B.D.)

Financial Planner
$ 100.00 Gander Software ,

A what-if financial package.

Amiga Man: Home
$ 19.95 Amiga Man

Budget, labels, calendar, checkbook, etc. programs.

AMT Amortization
$ 39.99 The Other Guys

Full title is 'AMT Amortization and Cost Evaluation Tool'. Calculates Direct Deposits, Utility Charges, Future Value Investments, Credit Charges, Negative Amortizations, Balloon Payments, Auto loans, and many types of home/mortgage loans.

D.A.S. Home Finance
$ 45.00 Developers of Advanced Softwar

Aids you with your household financial decisions.

ParHome I
$ 49.95 ParSoftware

Similar but less extensive than Financial Cookbook (loan amoritzation, asset appreciation, investment analysis, savings and insurance planners) PAR also has a limited personal accounting module: 19 fixed expense accounts, up to 12 checking accounts each tracked separately, no P&L or Net Worth. Written in ABasiC, it's sluggish but the Spenaholics Exam is clever. Not copy-protected.

Stock Monitor
$ 12.50 Scientific Software

Monitors user-specified stock & bond prices, market averages, and other market indicators. Graphically compares stock price to their 200 day moving averages. Also tabulates & prints comparison lists of daily price over specified ranges and time intervals. User inputs daily stock prices.

Trendwriter
$ 99.95 Finally Software

Talking stock market forecaster.

Logistix
$ 249.95 Progressive Peripherals ****

A powerful spreadsheet with incredible graphics capabilities. Not Amiga-tized, but command-key driven with on-screen explanations of control keys and context-sensitive help. Fast, compatible with files from Lotus 1-2-3 and many others. 3 versions of Logistix for 512K machines or memory-expanded 22- and 44-line interlace versions. Unique time-base capabilities. Some minor rough spots, but tops in my book! (-B.D.)

UniCalc
$ 79.95 Lattice ***+

Version 1.1 of Unicalc has been embellished with mouse cell selection and pull-down menus. Extensive help windows aid in learning this spreadsheet. Multitasking with over 220K of spreadsheet space in a 512K Amiga. Supports DIF files for file compatibility with other spreadsheets. (-M.B.)

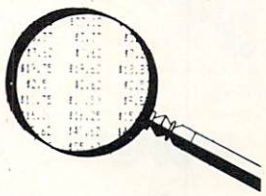
VIP Professional
$ 199.95 VIP Technologies ***

A 1-2-3 compatible spreadsheet with many features and graphics capabilities. Unfortunately doesn't support mouse, pull-down menus, or other features of Amiga, and leaves only 60K of available spreadsheet memory on a 512K machine. Integrated DBMS and graphics package are included. 8192 rows x 256 column spreadsheet. (-M.B.)

COMPUTER TRIVIA

Commodore computers are selling very well behind the Iron Curtain.

ANALYZE!
An Electronic Spreadsheet



MICRO-SYSTEMS SOFTWARE, INC.

Analyze! 2.0
$ 149.95 Micro Systems Software

Revised and updated Analyze! features 3D graphs, improved user interface, and is said to be six times faster than the original. Also now compatible with Lotus 1-2-3 files, 512K required. Version 1.0 owners can upgrade for $49.95.

BTS The Spreadsheet
$ 69.95 Batteries Included

1000 x 1000 cell worksheet with all the standard functions, variable column width, economical memory usage.

CalCraft
$:na Synapse Software

Advanced spreadsheet which features pull down menus and flexible formatting options.

LPD Planner
$ 149.95 Digital Solutions

This spreadsheet features multitasking with linking of data to other applications. Online help, mouse/function key/command sequence flexibility, 'Suspend' and 'resume' feature allows picking up your work where you left off. Fully integrates with LPD Filer and Writer. 65,536x256 sheet size, sideways printing support. Available Fall '87.

MaxiPlan
$ 150.00 Intuitive Technologies

Spreadsheet with color cells, graphics (in IFF format), speech synthesis and is supposed to read/write Lotus 1-2-3 files. The number of spreadsheets you can have open at one time is limited only by available memory. Includes a database function and several graphing options. (-Staff)

UniCalc Templates
$:na Lattice

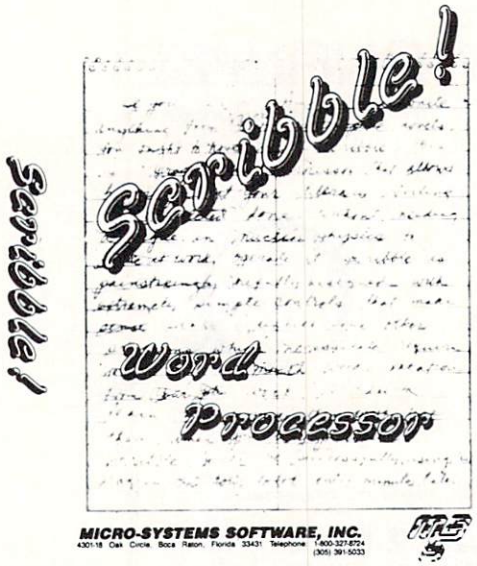
Various templates for Lattice's Unicalc spreadsheet.

Page Setter
$ 149.95 Gold Disk ****

Neatly done desktop publishing package. Incorporates page layout, text/wordprocessing, and graphic editing modules in an easily used arrangement to produce high quality pages. You can also import text and pictures from other sources. The wordprocessor is no-frills, but I like it better than any of the other Amy wordprocessors I've used. Graphic dump w/o font support sometimes streaks. Worth owning.

COMPUTER TRIVIA

PET, the name of the first Commodore computers, stands for Personal Electronic Transactor.



Scribble!
*$ 99.95 Micro Systems Software ***+*

Nice little multitasking wordprocessor lets you cut and paste between windows. What-you-see-is-what-you-get screen display of boldface, underline, etc. Few printer options beyond simple margins, though embedded format commands allow some flexibility. Mouse/menu or control-key operation. Scribble! supports headers and footers Not many advanced features, but compact and relatively easy-to-use. (-Staff)

TxEd
*$ 39.95 Microsmiths ***+*

Includes visible highlighted cut & paste between documents, can edit IBM files, offers hex entry. Many nice extra features for programmers. Easy to use, and from a company with a good philosophical outlook. (-M.B.)

Flow
*$ 100.00 New Horizons Software ****

Flow is an idea processor, or outline processor. You can categorize your ideas under general headings, expand and contract the outline at will, & shuffle all the pieces around until you come up with something that makes sense to you. Multitasking, but unfortunately will not let you cut and paste between documents. Flow is nicely intuitive, but not extremely flexible. (-M.B.)

AED Program Editor
$ 89.95 Micro Search

Includes search & replace and a print formatter for C.

AEdit
$ 40.00 DRM Programs

General purpose text editor uses menus or a command line for control. Edits up to nine files at once. You can 'undo' the last 300 changed lines.

Eartype
$ 3.00 Jumpdisk

Word processor for the blind. The price covers only the cost of the materials. An audio tutorial cassette is also available for $1.50. The whole program is free to the blind. Distributed by Jumpdisk magazine.

Graphic Master
$ 99.98 Illustrated Images, Inc.

Color desktop publishing for the Amiga.

LPD Writer
$ 149.95 Digital Solutions

This wordprocessor features multitasking with linking of data to other applications. Online help, mouse/function key/command sequence flexibility, 'Suspend' and 'resume' feature allows picking up your work where you left off. Fully integrates with LPD Planner and Filer. Available June.

LSE
$:na Lattice

Lattice Screen Editor. Multiple windows, user defined command strings. An improvement on ED, but not as flexible as it might be.

Nancy
$ 60.00 The Computer Club

80,000 word spelling checker.

Paperclip Elite
$ 129.95 Batteries Included

All the high productivity features that you expect, and then some. Like real-time spelling checker, idea processing, independent linked windows, integrated text and graphics and more.

PED
$ 29.95 MicroDimensions

Text editor for programmers.

Professional Text Engine
$:na Zirkonics

A programmable text editor which allows you to design an editor or word processor tailored to your own purposes. Includes programmable keys, macros, and user-defined menus.

ProForma
$ 75.00 Professional Network Services

Text processor developed from a similar UNIX program. Includes Macro capability so you can tailor it to your own needs.

ProWrite
$ 124.95 New Horizons Software

Full-featured, multitasking word processor from the same folks who brought you the 'Flow' idea processor. Full color wordprocessing with optional color dump to color printers. Even allows incorporation of full color graphics into documents. Fully Amiga-tized, with pull-down menus, mouse editing, and windows.

Spel-It
$ 49.95 Westcom Industries

Spelling checker/screen editor. Comes with a 40,000 word primary dictionary. Source file size is not limited to available RAM. Edit functions include line, screen, and file cursor movements. Up to 255 character line length. Displays word count. Optional hex file display with hex byte edit function.

Spellcraft
$ 24.95 Megatronics

40,000 word spelling checker that works with Textcraft and Scribble!

Talker
$ 49.95 Finally Software

A talking word processor, good for proofreading, learning to type, or for those who can't see well. (The menus are not spoken, making it impractical for the blind.) As a word processor, it isn't much - there isn't even a way to get a disk directory! The basic functions of a word processor are there, but but there aren't many functions beyond what Notepad offers. (-Staff)

TeX
$:na n2 Computer Consultants

The Amiga incarnation of the popular typesetting language developed by Donald Knuth. Requires 2 drives and 512k minimum system. Allows mixing of type sizes and fonts, provides preview of output to screen, and allows complete control over output to popular printers or pro typesetting equipment. NOT an easy-to-use system, but a pro tool. One of the 'status' programs whose availability shows Amy's a 'serious' machine. (-M.B.)

TextCraft
$ 100.00 Commodore/Amiga

A 'what you see is what you get' word processor. Offers a choice of up to 4 type styles and three fonts, as well as up to 8 colors for text or background. On-screen menus and 6 templates (preformatted for business letters, resumes, etc.).

Thunder!
$ 39.95 Batteries Included

Subtitled 'The Writer's Assistant', this is a package of word processing utilities. It includes a 50,000 word spelling checker, an analyzer for such things as sentence length and word-count, and an abbreviations expander, which allows the user to type in short abbreviations and then expand them to full length.

Trans Text
$ 30.00 Trans Soft Labs

Unprotected, full-featured text editor.

UEdit
$ 69.95 Richard Stiles

Menu driven, user definable text editor.

Vizawrite Desktop
$ 149.95 Progressive Peripherals

This wordprocessor incorporates many desktop publishing features, with page layout capabilities, integration of graphics with text, and more. Fully Amiga-tized, with pull-down menus, mouse cut-and-paste, editing of multiple documents in several windows at once, and many other features. Supports preferenced printers. PP&S sez Vizawrite is the 'nucleus of a complete desktop publishing system' they're developing.

WordPerfect
$ 399.95 WordPerfect

This is the 'Great White Hope' for Amiga wordprocessing To soon to rate at press time, WP is still in beta testing. Early indications, however, are that 'there ain't nothin it can't do'. Definitely check this one out if you have heavy-duty wordprocessing needs. Not cheap, but possibly the best. (-B.D.)

Wordwright
$ 75.00 RTL Programming Aids

Handles large text files, macros and conditionals.

Write Hand
$ 50.00 Byte By Byte

Wordprocessor with spellchecker, available separately or included with some of BBB's other packages. Suffers badly from incompletely implemented pull-down menus and haphazard Amigatization. (-Staff)

Abase
$ 100.00 Computer Power Unlimited

Up to 40 - 128 field files open at once (with sufficient memory) with a 4000 byte record size. Also has the ability to import dBase and other DBMS files and export them as ASCII. Can be used either by menu or by programming.

Acquisition
$ 349.00 Taurus-Impex

Available in 3 stages: basic system ($99), filer & data base ($199), and the program generator ($299). Multitasking, uses mouse, windows, IFF formats and dBase III type command structures.

Amiga Record Holder
$ 38.00 HC Software Australia

16 fields per record, on-line help and tutorials.

Ctrieve
$ 99.95 Micro Search

Not a DBMS but a toolbox for designing your own system. Comes complete with source code. The manual only is available for $20.

Datamat
$ 125.00 Transtime Technologies

Fully relational DBMS with images for IFF, display with text/data/voice, and unlimited (except by your drive) number of data files per data base.

dBMan
$ 149.95 VersaSoft

128-field record, 10 active file relational DBMS which is dBase compatible.

Extra
$ 49.99 Eastern Telecom

Elementary icon-based database program.

Flexfile
$ 59.95 Cardinal

The Amiga incarnation of Mike Riley's FLEXFILE, which has been with us since the days of the PET. This program is very unusual in that you are supplied with two versions. One is full M/L and can run as a multitasking application. The other is written in Amiga BASIC and is user-customizable.

FoxFile
$ 50.00 Foxware

DBMS that will accept up to 65,536 records, works with Work Bench 1.1 or CLI, 1 or 2 drives and 256k.

Home Inventory Manager
$ 34.95 Sunsmile Software

Specialized DBMS to keep track of your belongings. Records serial numbers, prices, dates, places, and insurance information.

InfoBase
$ 45.00 Harvsoft

DBMS with up to 200 fields and unlimited (to the extent of how much memory your Amiga has) records. Runs under AmigaBasic.

InfoMinder
$ 89.95 Byte By Byte

Centralized, hierarchial information retrieval system that access up to 7 files at once, incorporates a full function wordprocessor and takes up only 80K. Has speech capabilities, handles IFF files, much more. I haven't used this enough to rate it, but the user interface is great, and the screen formats are clear and easy to make sense of. (-M.B.)

LPD Filer
$ 149.95 Digital Solutions

This database mgr. features multitasking with linking of data to other applications. Online help, mouse/function key/command sequence flexibility, 'Suspend' and 'resume' feature allows picking up your work where you left off. Fully integrates with LPD Planner and Writer. Available Fall '87.

MiAmiga
$ 99.95 Copperstate Business Systems

Without a doubt the prettiest business program, sorts in RAM, up to 32,000 records per file. (-Staff)

Omega File
$ 79.95 The Other Guys

256-field records, full-screen editing, with menu and/or keyboard commands. Up to 32000 indexed records per database, and two databases can be open at the same time, facilitating transfer of data between files.

Organize!
$ 99.95 Micro Systems Software

DBMS with up to 128 fields/form (on up to 4 pages), up to 4,000 bytes per form.

Record Master Amiga
$:na Woodsoftware

File size is only limited by disk space. Menus are onscreen rather than pull-down. The entry editor will accept virtual entries, i.e. entries wider than the screen width.

Superbase Personal
$:na Progressive Peripherals

A super-enhanced version of Superbase for the Amiga. Superbase Amiga is limited only by RAM and disk capacities. Many files can be open at once in separate windows. Files can contain IFF graphic info as well as data. Allows multiple keys up to 999 levels, RAMdisk support, and many other features. Personal version is not programmable, but provides many output format options. Dongle protected.

Superbase Professional
$:na Progressive Peripherals

All the features of Superbase Personal plus a Microsoft BASIC-like built-in programming language. This advanced version of Superbase may not make it to market for quite awhile yet; we hear it is far down on the programmer's priority list. (-M.B.)

The Data System
$ 200.00 Gander Software

Full feature dbms that can work on up to 9 conditions.

Deluxe Paint II
R-r12

$ 129.00 Electronic Arts *****

The ultimate Amiga program- every Amiga needs a copy! Dithering, stencils, background fix, perspective drawing, rotatable ellipses, polygon brush capture, new improved file handling, four resolutions, conversion between formats, full-page and video page options. Uses memory expansion for added capacity, scrolls over a virtual screen of over 1000 X 1000 pixels. Much, much more. The #1 Amiga title to date. (-B.D.)

Aegis Draw Plus
R-r12

$ 259.00 Aegis Development ****

Adds many features to Draw for a much enhanced CAD product. Hi-res option, arrays, mirroring, numeric and interactive editing, plotter-quality custom printer routines, and much much more. The main feature I find still lacking is the ability to cross-hatch in hollow and multi-part sections (can't show a filled section of hollow tubing.) All in all, tho, a very useful tool for most drafting needs. (-B.D.)

Aegis Images
G-10

$ 79.95 Aegis Development ****

Full-featured paint program for the Amiga has all the usual drawing tools as well as dithering, pattern fills anti-aliasing, shading, and a unique automatic polygon feature not found in competitive products. Another nice touch is the ability to have two pictures with separate color palettes in memory at once. Not as fast nor as intuitive as DPaint II, Images uses the IFF standard format. Unprotected. (-B.D.)

Deluxe Video Construction Set

$ 99.95 Electronic Arts ****

Creates animated videos with cartoon-like graphics and sound effects. Accepts data from other EA software. Features graphics editing of 'scripts', easy importing of digitized sound effects and musical scores. Somewhat painful frame-by-frame animation can yield excellent results, but the time required to do so is extensive. (-M.B.)

Grabbit

$ 29.95 Discovery Software ****

This little 10K utility will dump an Amiga screen to your printer or to disk as an IFF file. It runs in the background of most applications. We use this one on a regular basis. Includes 'Anytime', a pop-up palette for overcoming bad screen colors in commercial programs. (-M.B.)

Aegis Animator

$ 139.95 Aegis Development ***+

Combines background pictures, detailed drawn objects, and animated polygons to produce intricate animated videos. Drawn objects can only move over static backdrops, but solid-color polygons can change shape, zoom in and out of the plane, and polymorph into new objects under easy user control. 'Tweening' cuts user hassles to a minimum. Easy to use and gets quick results. Unprotected. (-M.B.)

Aegis Draw
R-r12

$ 199.00 Aegis Development ***+

Entry-level CAD system with automatic scaling, zoom, gridding, layering, rulers and parts files. Plenty of features to meet most expectations. Easy to use, with good editing capabilities. The user interface is intuitive and responsive, Output to plotter recommended for serious work. Not a professional CAD system, but very handy for preliminary work, teaching, and personal use. (-B.D.)

Earthbound Fonts

$ 11.95 Earthbound Software ***+

Bunches of great fonts in over seventy distinct styles and in sizes ranging from 4-point to 40-point. They are well-done, and the variety makes them useful to just about anyone who wants to spice up text files, screen displays, or printed pages. Font manipulation utilities and complete documentation are included. We use these every day at INFO. A real value at 11.95. (-B.D.)

PCLO

$ 1024.00 Soft Circuits ***+

Colorful mulitple-layer printed circuit board design CAD program featuring 'interactive autorouting'. This program has a nice user interface, is pleasant to use, and gets the job done. But I found myself wishing it had even more features. Get the $75 demo first. (-M.B.)

Deluxe Print

$:na Electronic Arts ***

This printer graphics program lets you produce letterhead stationery, cards, wrapping paper, and lots of other stuff. Supports color printouts.
Much too complicated and tempermental for its intended audience. The least impressive of the Deluxe series. (-B.D.)

Futureware Font Disks

$ 19.95 Classic Concepts ***

Three separate disks are available: 'Superfont Sampler'(14 fonts from 7 to 21 lines high), 'Video & Headline Fonts' (large & decorative fonts from 17-25 lines high) and 'Storybook Capitals' (illumination-type capitals in IFF brush format). Utilities and instructions are included. (-B.D.)

Graphicraft

$ 49.95 Commodore/Amiga ***

This package is the least powerful of the graphics packages for the Amiga. Lets you play with colors, simple color animation, etc., but lacks the really powerful graphics tools of Aegis Images or Deluxe Paint Somewhat similar to NeoChrome on the Atari ST, and probably should have been included free with the Amiga, as NeoChrome was with the ST. (-M.B.)

Aegis Impact
R-12

$ 199.95 Aegis Development **+

Billed as an easy to use business graphics package. Unfortunately it doesn't measure up to Aegis' other fine graphics titles. The clumsy user interface seems dedicated to the proposition that the more mouse clicks and trips to the menu bar, the better. Entering data for automatic graphing is no picnic either. I'd rather see Aegis work on an auxiliary disk for Images to do the same thing at a better price. (-B.D.)

New Technology Coloring Book

$:na Software Toolworks **+

You click in the outlines and get a perfectly colored picture every time with this program, and that's just what's wrong with it. The text is well beyond beginning colorists, and the coloring is not challenging. Who is going to use this program? Not parents, and not kids. (-M.B.)

DeluxeHelp

$ 19.95 DeluxeHelp Inc. **

Disk full of help screens for DPaint just doesn't provide enough help. They load as regular DPaint screens, which is a hassle to work around, and only the basics are covered; you won't find advanced tricks. A good book would be of more help. (-M.B.)

Dynamic CAD
R-r12

$:na Micro Illusions **

2-D object-oriented drafting and design package. Sounds good on paper, but this awkward attempt is virtually useless for mechanical and architectural drawing. Bad screen colors, limited features, and tortuous file-handling routines make old-fashioned pencil and paper look mighty good. (-B.D.)

3D Graphics Library

$ 100.00 Computer Food

Library of 3D functions for programmers.

Aegis Art Pak #1

$ 34.95 Aegis Development

Clip-art to use with Images. Done by Jim Sachs.

Amiga Coloring Book

$:na The Dragon Group

There are three volumes of clip-art in this series, with 20 files per volume. Titles are 'Borders', 'The Sampler', and 'The World'. Price is $34.95 per volume.

Analytic Art
$ 69.96 Crystal Rose Software

Graphics program has special effects features, files compatible with other Amiga graphics programs.

Art Dirctor
$:na Grey Associates

Graphics package for advertising artists; create story-boards, layouts, justify text, and create artwork.

Brush Works Series
$ 29.95 Associated Computer Services

Business oriented clip art in IFF format.

Chartmaker
$ 49.00 South Park Software

Creates charts and graphs in many formats. Data entry is via a spreadsheet style system.

D'Buddy
$ 79.95 Digital Creations

Series of graphics utility programs including 'Freeze Frame', 'PrintIt!', 'Touchup', 'Postermaker', 'Scrapbook', 'Slideshow', 'Colormatch', 'Joymouse', and 'Scissors'.

Degas Elite
$ 79.95 Batteries Included

Includes shadow, magnify, flip, scale, rotate, cut & paste (between multiple work screens). Export pictures to PaperClip Elite for virtual desk-publishing. An enhanced adaptation of Degas for the ST.

Deluxe Clip Art #1
$ 29.95 Digitek Software Development

Compatible with both Deluxe Paint and Aegis Images.

Deluxe Companion
$ 29.95 SunRize Industries

Contains two disks to use with Electronic Arts' Deluxe series. One is a disk of digitized sound effects and the other a disk of clip art.

Deluxe Paint Art & Utility I
$ 29.95 Electronic Arts

Over 175 brushes and 3 utilities, including printer spooling.

Deluxe Print Art & Utility I
$ 29.95 Electronic Arts

Collection of clip art for use with DPrint.

DigiPaint
$ 59.95 NewTek

Hold-and-modify mode paint program lets you paint with up to 4096 colors at once! Has its own tools for painting and drawing, but DigiPaint's major strength is in importing and 'fine-tuning' digitized images and IFF pictures created with other paint programs. Brushes, smooth shading, magnify, print, & many other features.

Font-A-Size
$ 14.95 Earthbound Software

Scales your fonts to any point size and lets you add effects like shadowing. The resulting fonts are useable by most programs. Also lets you use fonts & effects from programs that aren't really designed to do so (like Deluxe Print). It works by 'replacing' any font with a pop-up menu or any other font.

Hambone
$ 39.95 Diet Software

Hold-And-Modify paint program that allows all 4096 colors on screen at once.

Illusion Fonts #1
$ 24.95 Illusion Software

10 ready-made fonts in many sizes along with utilities for manipulating them. The disk is not copy protected and is fully compatible with other programs, such as DPaint.

Imagine This
$:na Zoxso

A video image-processor that accepts images from video digitizers (like 'LIVE') and IFF graphic files.

Imprint
$ 2495.00 Liquid Light

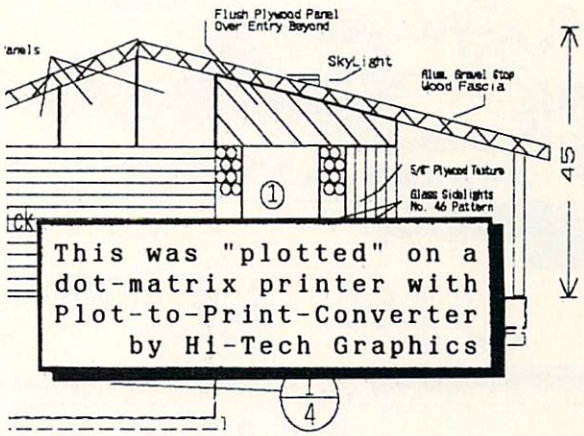
A complete system for getting screen images from your Amiga onto a Polaroid 35mm slide or print. Permits any IFF file to be used in any resolution, including HAM. As an extra, the included software can also perform color separations.

Instant Artist!
$ 34.95 Polyvision Software

Graphics package for the Amiga.

MediaPhile
$ 297.00 Interactive MicroSystems

Controller for Sony 8mm video decks. Records up to 24 hours of digital stereo sound, four hours of video, or audio & video both. (Watch out MTV!) Provides clear freeze-frame, slow motion, single frame stepping, high speed, flying erase head for smooth edits, and other features. Mouse controlled via screen menus. Program with a Sony EV-A80 8mm deck is $699, with the Sony EV-700U 8mm deck, $1329.



Plot-to-Print Converter
$ 25.00 Hi-Tech Graphics

Produces plotter resolution from a dot-matrix printer. Converts Aegis Draw drawings to super hi-res printer bitmaps. Eliminates jaggies on printouts. Requires 512K, two drives, and Aegis Draw. Currently supported printers are: Canon Color Inkjet, Epson (FX, RX, MX), Toshiba (P321, P341, P351), C. Itoh Prowriter, NEC8023.

Printmaster Plus
$:na Unison World

Printmaster ported to the Amiga. 2 clipart disks avail.

Pro Draw
$:na Aegis Development

If this 3D version of Aegis Draw delivers half of what is promised, it will be hot!

Pro Video CG I
$ 199.95 JDK Images

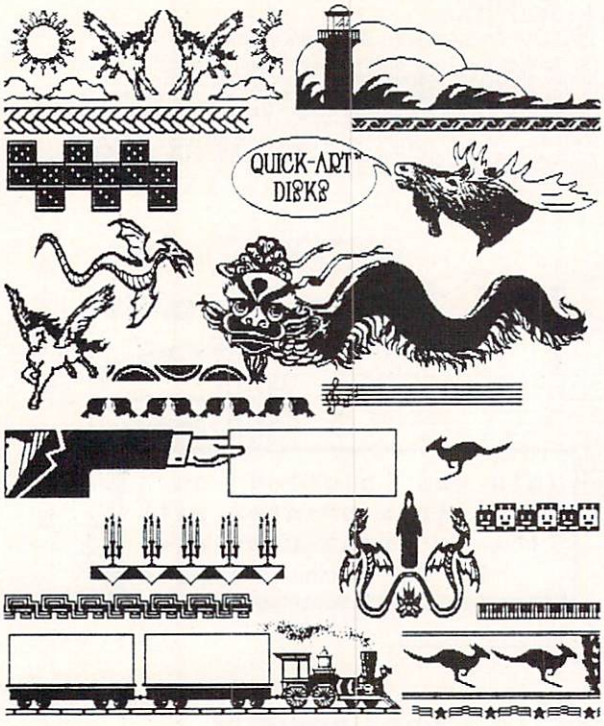
Character generator for titling video productions. Uses high-res 640x400 interlaced display (with little to no flicker!) and has 3 resident fonts in 3 sizes. Selectable character shadow, underline, background color, grids, flash. Nifty page transitions include rolls, reveals, pulls, wipes, slides, fades, bang, and checkerboard. Every byte of 512K is required. Alternate fonts are $34.95 each.

Publisher 1000
$ 199.95 Brown-Wagh

Desktop publishing program has the capability to mix pictures from graphics programs such as Deluxe Paint or pictures in IFF format with text from word processors. Handles multiple columns, kerning, and variable column widths. You can also resize your pictures to fit into the text. Single screen composition, B-W promises an upgrade to a full PostScript driver free to all owners once it's available.

COMPUTER TRIVIA

Silicon for computer chips is obtained by refining and crystalizing beach sand.



Quick-Art Graphics Disks

$ 24.95 Classic Concepts

IFF-format disks of borders, graphics, pictures, etc. for newsletters, ads, correspondence and the like. Pictures are in medium-res but can be converted to lo-res with any paint program for use with desktop publishing packages. There are both black & white and color pictures on the disk. Price quoted is for each disk.

T & L Gallery

$ 19.95 T & L Products

Clip art to use with Deluxe Print. Both multicolor and multipart images.

TV-TEXT

$ 99.95 Brown-Wagh

A high-res video title producing program, can be used with Genlock. Use multiple fonts, size, rotate, special effects, boxes, and other features to create pro quality video title screens in medium or hi-res modes.

Video Quick-Art

$ 24.95 Classic Concepts

Ready-to-use 8-color (video software compatible) graphics, pictures, and brushes (both hand-done and digitized). Uses lo-res IFF. Disk 1 is 'Video Back-Grounds' with scenery, cities, sunsets, etc. Disk 2 is 'Video Objects', in brush format, including people, animals, furniture, high-tech equipment.

Visual Aurals & Music Analyze

$ 170.00 Visual Aural Animation

Billed as Live Interactive Video Creation from Music, the program includes music analyzer hardware and an oscilloscope program. From that it does musical note determination. Interface to paint programs (IFF compatible). Configures to a standard analog to digital converter for dc signals.

Zuma Fonts

$ 34.95 Brown-Wagh Publishing

Three different volumes of fonts for the Amiga. Price is for each volume - all three for $99.95. Each volume has 3 type styles in 6 different sizes.

SoundScape Stereo Digitizer

$ 99.00 Mimetics ****+

Plugs into 2nd mouse controller port. Same software as sampling portion of ProMIDI Studio but V1.3 is expanded rewrite with mouse input and true stereo. Upgrades sent to registered owners free.

Futuresound

$ 175.00 Applied Visions ****

Plugs into parallel port and has another port on it for printer (toggles). Unit has little pre-amp, microphone (Radio Shack $10), good editing software. Also has routines for playing samples from AmigaBASIC. Adjustable sampling rate to 28Khz. Upgraded software to accomodate expansion RAM provided to registered owners.

Soundscape MIDI Interface

$ 49.95 Mimetics ****

MIDI in, out and thru. Tiny unit with cables built in.

SoundScape ProMIDI Studio

$ 149.95 Mimetics ****

Full MIDI-in and -out sequencer & environment for Sound Scape music modules (both educatioinal & professional to come). Plays internal samples & external MIDI'ed voices alone or together. Offers detailed event editing pitch wheel & velocity sensitivity, IFF compatibility. Samples sounds internally with Mimetics' digitizer. No standart notation. Compatible with EA products & a must-have for Amiga musicians.

Amiga MIDI Sampler

$ 99.00 Micro-W

This disk of 6 songs (including Rhapsody in Blue) comes with a MIDI-out interface. May have future Amiga MIDI song disks available for $19.95 (6 songs on each).

Digitizer

$ 79.95 MicroGraphics

Sound digitizer that attaches to the Amiga's parallel port.

ECE MIDI Interface

$ 59.95 ECE Research & Development

Interface with MIDI in, out and thru ports that has built-in serial port for a modem with toggle switch for operating either unit)only one we know of on the market thus arranged -- very handy).

MicroGraphics Sound Digitizer

$ 79.95 MicroGraphics

Tiny unit plugs into parallel port. Software to be available in three stages, updates free to registered owners. First stage (with unit) is recording and editing, 2nd is music sequencer and third is to be MIDI sequencer with both Amiga and MIDI composition.

MIDI Connection

$ 39.95 Speech Systems

MIDI interface with in, out and thru ports comes with colored MIDI cable and a disk with about 10 songs to test your setup.

MIDI Gold Interface

$ 79.95 Golden Hawk Technology

One MIDI in, two MIDI out and one pulse out ports.

MIDI Interface

$ 49.00 Mimetics

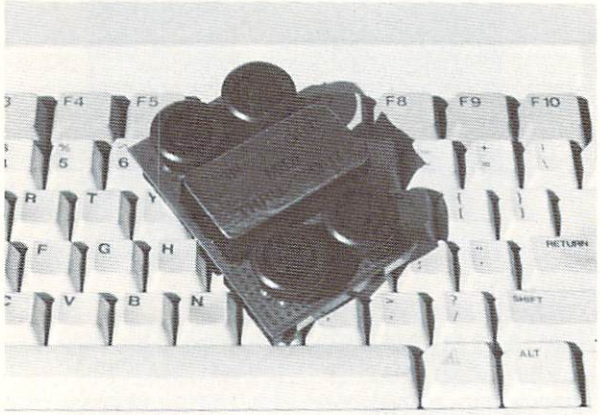
Allows MIDI to communicate with other MIDI equipment. Plugs into the serial port, includes MIDI in, out and thru connectors.

Perfect Sound
$ 79.95 SunRize Industries

Stereo sound digitizer plugs into parallel port. Early release of software is available in public domain. Nice editing features and lots of sound effects on disk.

Pitchrider 1000
$ 249.95 DOD Electronics

IVL's hardware/software combo that allows pitch recognition from wind instruments and some others. C64 unit comes with pitch, interval and scale matching programs (cute games) and software with Amiga unit is probably similar. MIDI compatible.



Skyles MIDI Interface
$ 49.95 Skyles Electric Works

One MIDI in, 2 outs, and a thru.

Instant Music
$ 49.95 Electronic Arts ****

Super-fun performance program that lets you use the mouse as a real-time instrument with 3 preprogrammed Amiga parts or enter 4-part songs using colored bars. Uses sampled sound only and IFF song format, and provides oodles of both. A must-have for instant virtuosos since optional guides keep you in tonal and rhythmic centers. Compatible with Deluxe Video and Deluxe Music which prints Instant's scores.

SoundShop / Bobshop
$ 49.95 Revolution Software ****

Powerful sample editing software (with BobShop animation program.) Has multitude of features including adding sine waves, drawing waves or changing harmonics with mouse and synthesizing sounds, most of which can be done while you listen. Limited MIDI sequencer included, no standard notation. Bobshop is a BOB (Blitter OBject) editor on the same disk.

Texture
$ 350.00 Magnetic Music ***

MIDI song-oriented sequencer that lets you overdub 24-track deep patterns of any length, linking them into songs. A straight port from IBM which does not use Amiga features or internal sounds, and requires a Roland MPU-401 smart MIDI interface (around $300) and Magnetic's Amiga hardware adapter (another $150).

Christmas Fantasia
$ 29.95 Speech Systems

A collection of Christmas songs and graphics that plays continuously for over an hour.

Concertcraft
$:na Commodore

Conceptually superb (uses artificial intelligence to play 3-part accompaniments to your 4th part lead, following your dynamics & tempo) but lacking in practical application. Not available, it's trapped in no-man's land with the demise of Cherry Lane Electronics. Free standing b/w music keyboard or MIDI'ed synth required.

Deluxe Music Construction Set
$ 99.95 Electronic Arts

Select standard music symbols from onscreen & pull-down menus including notes & rests to 32nds, various clefs, barred stems, slur & ties, triplets, 5 against 4, individual track or voice dynamics, crescendos & diminuendos. Builds IFF songs to 16 parts with 36-note chords (32 MIDI, 4 Amiga). Plays 16 MIDI channels and/or Amiga samples; won't play synthesized sounds. Prints sheet music with lyrics.

DNA Music
$ 19.95 Silver Software

Plays 10 selectable musical sequences in key of C over 2-octave range based numerically on DNA molecular structures -- the stuff of life! (Programmed, of course, by a genetic biologist.) Primitive non-musical graphics, all listable in 1.1 Amiga BASIC.

Fractal Music
$ 19.95 Silver Software

Plays 20-, 40- or 60-note sequences (in key of C over 2-octave range) while various-sized color-filled polygons fill the screen. Different every time since both are based on fundamental fractal math. Amiga 1.1 BASIC, changeable palettes, save to disk. Fascinating, lots of variety.

It's Only Rock and Roll
$ 29.95 Electronic Arts

Utility disk with 40 songs and 18 digitized instruments for use with Instant Music, Deluxe Video, and Deluxe Music. IFF compatible.

Music Student I, II, & III
$ 59.95 Associated Computer Services

Music Student I is a sight-oriented music education program for creating tutorials and tests with visuals including grand staff and keyboards for scales, harmonics, triads, etc. II concentrates on ear-training and III covers upper level skills. All use IFF sound and graphics.

Protein Music
$ 19.95 Silver Software

Plays music sequences based numerically on the 20 amino acids that make up protein, in key of C over 2 octaves. Programmed by a genetic biologist with random durations. Amiga 1.1 BASIC.

Sonix
$ 79.95 Aegis

Major reworking of Musicraft, plays 8 MIDI'ed & 4 Amiga voices (sampled or synthesized sounds with a full-fledged editor for the latter). Uses standard notation on a grand staff to compose IFF stereo songs with the mouse by selecting music symbols from pull-down menus. Resolution to 16th notes & rests. Accomodates 16 MIDI channels, 16 synth patches, & 8-voice mixdown control. No MIDI-in but may have print utility.

Symphony Library
$ 39.95 Speech Systems

Eight different disks of 4-part preprogrammed songs that use either Amiga internal or MIDI'ed voices. 100 songs on each disk in styles ranging from rock, folk, and polkas to classical. Price quoted is for each disk.

The Music Studio
R-13

$ 59.95 Activision

Music composition and editing, uses pull-down menus and supports up to 15 channels. Doesn't directly support IFF format files, but includes a conversion program. Prints sheet music. The editor can copy, move, delete, and transpose. Owners of the first release with no IFF support can upgrade for $10.

Waveform Easel
$ 19.95 Silver Software

A utility for designing synthesized sounds in 1.1 BASIC, it lets you draw soundwave curves with the mouse, hear and save them to use in other programs (BASIC, C, other Silver Software, etc.). Uses sine waves to construct sawtooth, square, triangle waveforms.

1680 Modem
$ 295.00 Commodore/Amiga ****+

1200 baud modem for Amiga. RS-232 interface. Comes with Amigaterm terminal program and ProComm for use with a PC compatible. Excellent, reliable. Clips to side of your Amiga. (-M.B.)

Volks Omega 80
$ 199.00 Anchor Automation

Auto-modem with a built-in speaker.

MacroModem
$ 69.95 Kent Engineering & Design ****

Program unlimited macros to menus in windows (no pull-downs), shell for CLIs and multitasking. ANSI or TTY, standard Xmodem or CRC with thru-put to 262,000 baud! Capture buffer reads backward or forward, can be left onscreen. Command & terminal modes, good documentation, small text composition window but no split screen. Separate utility strips padding. Fast, powerful, complex. Not recommended for the novice.

BBS/PC!
$ 99.95 Micro Systems Software ***+

This program is a general-purpose BBS system for the Amiga. It allows full upload/download, up to 16 user areas, system security codes, etc. Without actually setting it up and going on-line for a month of Sundays to fully test it out, it seems like a nice system. Unprotected, multitasking. (-M.B.)

Amiga Term
$ 49.95 Commodore/Amiga ***

VT100 emulation with special fonts, 128-cols in interlace mode, keyboard ESC sequences. Type-in ALL modem commands or use 10 programmable function keys for Hayes auto-dial, etc. Xmodem, CompuServe B in TTY and Amiga modes (thru-put to 19,200 baud), capture buffer but no built-in padding stripper or split screen. Must use CLI for full disk access, unreliable as it works ONLY with V1.1 Enhancer DOS. Incl. w. 1680.

MiddleMan
$ 59.95 Benaiah Computer Products **+

Limited VT100 emulation with NO Xmodem or split screen, limited disk access. Eight programmable keys for Hayes commands and macros. Pull-down menus and mouse operation, 4 color display, it's only 40K long and does multitask.

A-Talk Plus
$ 99.95 Felsina

Tektronix 4010/4014 graphics emulator. Supports Alpha, Graph, & GIN modes with enhanced graphics Pointplot and incremental Plot modes as well as all five vector line formats and 4 character sizes. Screens can be dumped to printer or saved in IFF format. Also has all the functions of A-Talk 1.1.

A-Talk
$ 49.95 Felsina Software

An integrated communications package: auto dial/answer, answer & hangup, phone directory and full ANSI, TTY, H19, VT52, and VT100 emulation. 'Voice option tailored for use by the visually handicapped.'

D.A.S. Communications
$ 45.00 Developers of Advanced Softwar

Terminal package with VT-100 emulation, built-in bulletin board system with message board.

Diga!
$ 99.95 Aegis

General purpose terminal program with ability to chat and transfer files simultaneously when used at both ends.

Digital Link
$ 69.95 Digital Creations

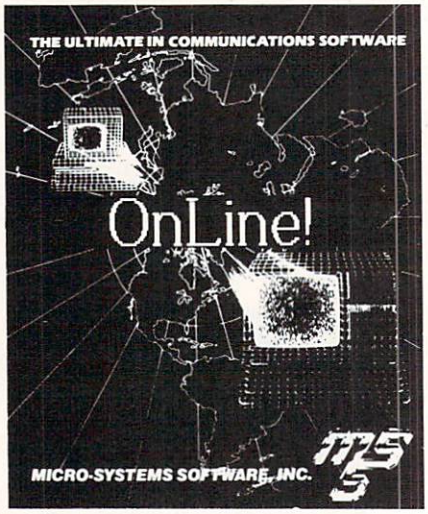
File transfer and telecommunications package supports file transfer to and from IBM/PC and Macintosh, also Compuserve, Delphi, MCI Mail.

MaxiComm
$ 50.00 Intuitive Technologies

An elementary terminal program for both telecommunications and file transfer.

SKEterm 1.1
$ 49.95 SKE Software Co.

Haven't seen it but they claim Xmodem and Kermit protocols, VT100, ANSI and TTY emulation to 19200 baud, Hayes support and telephone directory plus background file transfers.



On-Line!
$ 69.95 Micro Systems Software

Looks to be a nice basic telecommunications package. Many terminal options, including VT-100 and VT-52 emulation. Complete control over keyboard and transmission translation tables (in hex). Mouse and pull-down menu control, separate CHAT window optional. Unprotected, multitasking. (-M.B.)

StarNet
$ 99.95 Eight Stars Software

Bulletin board system with x-modem support, passwords, and up/down loading capabilities.

T-Link
$ 59.95 Techni Soft

Terminal program that comes with a free year's access to Techni Soft's BBS. Has all the usual features.

Telecraft
$:na Software 66

Easy to use, but sophisticated communications and terminal emulation package.

Racter
G-10

$ 44.95 MindScape ***+

Racter will inevitably be compared to it's forerunner Eliza. Racter tends to go more off on his own, following tangent thoughts only remotely related to the current conversation (if at all). Racter is billed as the first experiment in 'artificial insanity', and he does, indeed, fit the description. Amusing for a time, but inevitably Racter will get on your nerves. (-B.D.)

Computer Co-Pilot
$ 900.00 Alive Systems Group

Expert system to help you organize your life.

Dr. Xes
$ 49.95 Finally Software

An advanced version of Eliza that takes the form of a Gestalt therapy session. Uses speech synthesis.

Kwik Speak
$ 46.95 Eclipse Data Management Inc.

Spanish language tutor using the Amiga's voice synthesis.

COMPUTER TRIVIA

Commodore Business Machines started out as a typewriter shop in Toronto owned by one Jack Traniel.

AMIGA PROGRAMMING TOOLS

Advanced String Library
$ 39.95 True BASIC

Source library of True BASIC string manipulation funcs. Includes 38,000 word dictionary.

Amiga Programmer's Library
$ 200.00 Intuitive Technologies

14 tools for developing software and 10 utilities for editing existing software.

Amiga View
$ 79.00 ACDA

C code designed to aid C language programmers. Comes with compiled object modules & complete manual. Claims to cut programming time & volume by 200-300%.

Amiga-Lint
$ 100.00 Gimpel Software

C language diagnostic package.

Game Maker
$ 44.95 Activision

This system lets you create your own game screens, sprite characters, sound effects, and game rules, then combine them all via the built-in games language to create quality action games or cartoons. Just the sound effects editor on the Amiga version is enough to keep you occupied for hours! (-M.B.)

Lattice C CrossCompiler
$ 250.00 Lattice

You can develop programs for the Amiga on an IBM/PC, VAX, or UNIX system with the proper cross-compiler from Lattice. A great asset early on when machines were scarce, but wny not do it on an Amiga now? (-M.B.)

Lattice dBC III Library
$ 150.00 Lattice

Contains 70 C language utilities that allow you to access dBASE III files.

Lattice Maclibrary
$ 100.00 Lattice

Contains 60 C language utilities that allow you convert Macintosh programs for the Amiga.

Lattice Text Utilities
$ 100.00 Lattice

C routines for the mainpulation of text.

LMK
$ 125.00 Lattice

Similar to UNIX-Make. Once the user specifies the relationships of various elements the system (ie. source modules, object modules) in a dependent file, the 'LMK' command initiates the automatic rebuilding for the system in other files.

Metadigm Software
$:na Metadigm Inc.

Metascope Debugger ($95), Metascribe Editor ($85) and Metatools I ($70).

Multi-Forth
$ 179.00 Creative Solutions

Assembler, compiler, trace & debug, macros.

Panels
$ 195.00 Lattice

A screen design and management package with audio help.

Power Systems
$ 99.95 Pecan Software Systems

A large line of development tools, assemblers, etc.

Program Generator
$ 410.00 Gander Software

Basic code generator.

Programmers Packages
$ 49.95 Techni-Soft

Three packages are available, one for C programmers, one for assembly, and one for BASIC. Each includes P-Edit programmers editor, assembly pak has disassembler, C and BASIC paks have cross-referencer and other utilities.

Programmers Toolkit
$ 125.00 MicroDimensions

Editor, debugger, utilities and profiler programs.

Sorting & Searching
$ 65.00 True BASIC

14 subroutines for sorting arrays 'in-place' (requires only a little memory and no disk access).

The Explorer
$ 20.00 Interactive Analytic Node

A machine code monitor.

AMIGA PROGRAMMING LANGUAGES

Amiga BASIC
R-10

*$:na MicroSoft ****+*

The improved Amiga BASIC from MicroSoft. Exploits all the unique features of the Amiga, including windows, animation, music, speech, and more. Also provides a high degree of Macintosh and IBM PC compatibility. (-M.B.)

Lattice C Compiler
*$ 500.00 Lattice ***+*

Native C compiler for the Amiga was the language with which many of the first Amiga programs have been developed. Works well, and extensive support libraries are available, but does not produce the fastest object code. Good support from Lattice on BIX, both from the company and from third party developers. Version 3.10 is the latest we've heard about. (-M.B.)

Softworks BASIC
*$ 99.00 Softworks ***+*

This BASIC, which follows the DEC and HP form and format, has commands for ISAM files, floating point math, string operations, etc. It's a compiler, and it's fast. Unfortunately, Amiga owners will not have much use for it since it does not support graphics, sound, windows, or other Amiga features. (-M.B.)

ABasic
*$ 49.95 Metacomco **+*

The original Amiga BASIC from Metacomco. Antique line editor, unimplemented features, and other shortcomings make this BASIC a major disappointment, though in some math operations it is actually faster and more accurate that its replacement, Amiga BASIC from MicroSoft. Note that if you want it, you can buy it directly from MCC. (-M.B.)

AC/BASIC
$ 295.00 Absoft

A Microsoft-compatible BASIC compiler. Available soon.

AC/FORTRAN
$ 295.00 Absoft

Fortran compiler with high level of compatibility with Macintosh and mainframe Fortran versions.

Amiga Assembler/Linker
$ 99.95 Commodore/Amiga

A Motorola standard macro-assembler and linker, complete with libraries and include files for Amiga hardware hooks. Includes a copy of the AmigaDOS Developers Manual.

Amiga Intelligence
$ 149.95 Westcomp

Tutorial on using Artificial Intelligence in Amiga Basic.

Amiga LISP
$ 199.95 Commodore/Amiga

The language of artificial intelligence for the Amiga.

Amiga Pascal
$ 99.95 Commodore/Amiga

ISO 7185 standard Pascal single-pass compiler.

AmigaForth
$:na Creative Solutions

From the creators of MacForth.

APL 68000
$ 295.00 Spencer Organization

Amigatized APL interpreter that includes features like user-defined pull-down menus, dialog and alert boxes along with graphics support. Full screen function editor and a built-in VT100 APL/ASCII terminal emulator.

Doost Forth
$ 40.00 Doost Software

A descendant of Forth-83.

FORTRAN/020
$ 495.00 Absoft

Has all of the features of Absoft's AC/FORTRAN along with 68020/68881 support.

JForth
$ 99.95 Delta Research

Forth with optimizing compiler. Includes license-free turnkey runtime utility, free newsletter.

Key to C
$ 34.95 Data Research Processing

Standard C functions for windows, screens, menus, and other common functions.

Lattice AmigaDOS C Compiler
$ 225.00 Lattice

This consists of the regular C compiler bundled with Lattice's Text management Utilities.

Lattice Professional C Comp.
$ 375.00 Lattice

A bundled package including the Professional AmigaDOS C Compiler, Lattice Make Utility, Lattice Screen Editor and Metadigm's MetaScope Debugger.

Manx Aztec C
$:na Manx Software

Three different versions of their Amiga C Compiler, prices range from $199 to $499. Programmers report faster compile times, faster and tighter object code than Lattice C. Much of the latest Amia software has been produced with Aztec C.

MVP Forth
$ 175.00 Mountain View Press

MVP Forth is transportable to IBM-PC, Apple II, and many other machines. Includes source code and a tutorial.

Pilot Interpreter
$ 30.00 Westcomp

Public domain Pilot interpreter.

Quelo Assemblers
$:na Quelo, Inc.

A series of cross-assemblers for the Amiga.

RTL
$ 200.00 RTL Programming Aids

Relocatable Threaded Language, similar to Forth. Includes Wordwright text editor.

TDI Modula-2
$ 149.95 TDI

Interfaces to all the Amiga Kernal, Intuition, Workbench, and AmigaDOS routines. Includes in-line assembly language support. Price quoted is developers version. $89.95 for standard version.

TLC-LOGO
$ 99.95 Lisp Company

Provides a continuous learning path from general purpose programming to use of A.I. concepts in programming. Uses a LISP dialect that combines the notion of 1st class objects and the semantics of LISP into a simple LOGO syntax.

True BASIC
$ 150.00 True BASIC

An enhanced BASIC from the originators of the language.

Turbo Pascal
$:na Borland

Don't hold your breath waiting for this on-again, off-again product. We have no doubts that Borland will eventually wake up and deliver Turbo Pascal for the Amiga, and that when they do it will be an excellent package at a good price, but who wants to wait for it? (-M.B.)

UBZ Forth
$ 85.00 UBZ Software

FORTH-83 compatible with Amiga DOS support. Monthly newsletter.

UCSD Pascal
$ 79.95 Pecan Software

UCSD standard Pascal for the Amiga. We've heard rumblings of dissatisfaction with this one... (-M.B.)

AMIGA BACKUP UTILITIES

Marauder II
R-10

$ 39.95 Discovery Software ****+

Without a doubt one of the most useful programs you can buy for your Amiga. Copies almost every commercial disk available to date, with additional parameters being made available on a continuing basis. Easy to use, very reliable, though we do recommend you turn on 'Verify' mode to make sure you're getting a good copy. MII even gets rid of dongle protection in some programs. Absolutely indispensible! (-M.B.)

The Mirror
$ 49.95 Compumed ***

Copy program with a nice title screen. Works well with older titles, but is not up to the latest wave of copy protection. No parameters--this is a nibbler. (-M.B.)

HardHat
$ 69.95 Westcom Industries

Backs up your hard disk to microdisk. Supports full, incremental, directory and single file backups. Full or single file restore. The current catalog file is maintained and a sorted list can be output to screen or printer. Data compression reduces the amount of microfloppy space required.

Quick Nibble
$ 37.88 Copperstate

Unprotected copier supports one or two drives, expanded memory.

The Mirror Hacker Package
$ 49.95 Compumed

Analyzes different formats of disks. Contains an editor.

AMIGA UTILITIES

Zing!
$ 79.95 Meridian Software ****

Replacement for the CLI with additional features including pipes and advanced disk operation commands. More powerful than Workbench but without the hassles of the CLI. Nice interactive screens, and hides in the background until you need it. I especially like the one key 'popCLI' feature. Nicely done. (-M.B.)

Fastfonts
$ 49.95 Microsmiths ***+

Lets you replace the default Topaz on-screen font with another of your choice. Also speeds up the display and provides a 'hotkeys' utility. I've got this installed in my startup-sequence to improve the readibility of the screen. Very nice! (-M.B.)

Tychon Utilities
$:na Tychon Technologies ,

AmigaDOS help files, VT-100 terminal emulator, TalKey, and PolyDraw.

ADFO
$ 59.95 Westcom Industries

Disk catalog program (Amiga Disk File Organizer). Scans directories of disks to produce a master catalog. Find and list functions display and print sorted output. Handles wildcards.

Amiga Man: Utilities
$ 29.95 Amiga Man

Amiga system utilities, 5 per disk.

AmigaDOS Express
$ 29.95 Bantam

'The Online AmigaDOS Manual'. RAM resident help utility. Provides information on commands and features in onscreen windows without disturbing anything else that might be going on. Includes multi-page descriptions of each command as well as examples and cross references. Covers 1.1 and 1.2.

C64 Emulator
$ 149.95 Software Kingdom

Hardware interface to connect 1541 or 1571 drive to your Amiga, plus software to make Amiga emulate a C64 100%. Not multitasking (unfortunately), so you can run only one application at a time, which totally takes over your Amiga. STILL no word on availability. (-M.B.)

Calculator Construction Kit
$ 49.95 Quicksilver Software

Build your own calculator with the functions you need.

CLI-Mate
$ 34.95 Progressive Peripherals

Utility to let you bypass the CLI and Workbench to manipulate files directly with the mouse. Includes a wildcard/pattern-matching option to facilitate searching for filenames.

D.A.S. Disk Editor
$ 20.00 Developers of Advanced Softwar

Performs surgery on your Amiga disks.

dBx Translator
$:na Desktop A.I.

Translation utility for changing dBASE programs into C.

Demon
$ 49.95 Discovery Software

Keyboard macro processor with a pop-up definition window to edit your sequences, which can then be saved to disk.

Disk Guru
$:na Computer Food

Utilities like undelete, recover bad files and editing.

Disk Library
$ 49.95 Classic Image

Utility for cataloging your disks.

Disk Traffic Controller
$:na Grey Associates

Master disk catalog for your disks.

Disk-2-Disk
$ 49.95 Central Coast

File transfer utility for translating C64/128 files to AmigaDOS. Handles SEQ, REL, and USR files, in 1541/4040 and 1570/1571 formats. Includes Validate BAM and Check Disk utilities. The Amiga 1020 5.25 in. external drive is required.

DiskCraft
$:na Rankin Systems

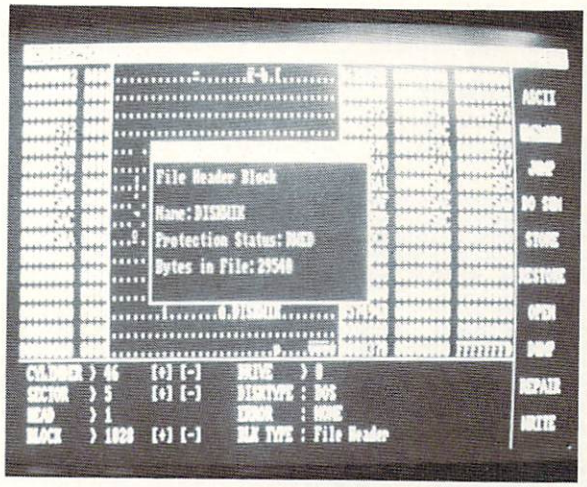
Disk recovery utility with a nice display, powerful algorithms. More useful than Commodore's DiskDoctor. (-M.B.)

DOS-2-DOS
$ 55.00 Central coast Software

A transfer utility for the Amiga for translating from MS-DOS to AmigaDOS and back again. Supports 5 1/4-in. and 3 1/2-in. disks. Has Wordstar compatibility.

Flipside!
$ 59.95 Micro Systems Software

Sideways printer utility to use with MSS's Analyze spreadsheet. 512K required.



Diskwik
$ 49.95 Tigress

Disk repair kit including utilities for restoring deleted files and fixing errors on disks. Editing in hex or ASCII with copying blocks to the same or a different disk. Documentation shows how data is stored and how the directory works.

Hex Utilities
$ 49.95 Capilano

Hardware development tool for converting binary files to hex.

HexDump
$ 19.95 Northwest Machine Specialties

Prints files in hex to printer or screen.

IntuiSeeds
$ 69.95 GreenThumb Software

'C' application library to manage Intuition.

JetSet
$ 69.95 C Ltd.

A trio of utilities so you can print your text files in a variety of type styles on a Hewlett-Packard laser printer.

Key Genie
$ 49.95 Discovery Software

Keyboard macro utility, allows you to assign strings to single keypresses. Also includes a revised DOS shell.

LaserUp! Graphics
$ 79.95 S. Anthony Studios

Prints Amiga graphic screens to Apple Laserwriter.

Laserwriter Fonts Vol. 1
$ 39.95 S. Anthony Studios

Includes Round, Classic, and Showtime.

Laserwriter Utilities
$ 39.95 S. Anthony Studios

Format your text for use on the Apple Laserwriter.

Logic Compiler
$ 129.95 Capilano

Tool for defining data for programmable logic arrays.

LTR
$ 59.95 Meta-Soft

Line printing spooler.

MaxiCache
$ 29.95 Intuitive Technologies

A RAM buffering system.

MaxiKey
$ 29.95 Intuitive Technologies

A keyboard macro maker.

MaxiMizer
$ 29.95 Intuitive Technologies

A mouse/macro maker.

MaxiShare
$ 29.95 Intuitive Technologies

A two-Amiga data sharing system.

Merge Master
$ 24.95 Megatronics

A system for mail-merging using your word processor.

Micro-shell
$ 79.95 Meta-Soft

Developer's utility.

M
$ 59.95 Inovatronics

Four utilities: pop-up ASCII chart, 32-bit integer programmer's calculator w/logic functions, memory editor/monitor, and 68000 disassembler.

PC/ET IBM Emulator
$ 69.95 Softeam

Software IBM PC emulator runs in its own window, can transfer files between MS-DOS and AmigaDOS formats. Does not require 5.25 inch drive. Supports full color graphics. (Said to run at only 50% of IBM-PC speed.)

Power Windows
$ 89.95 Inovatronics, Inc.

Tool for generating C or ML code for your own custom windows.

Printer Driver Maker
$:na Software Supermarket

A program that lets you produce your own custom printer drivers for the Amiga.

Sayit
$ 14.95 T & L Products

Reads aloud most text files.

Screen Mapper
$ 89.95 Northwest Machine Specialties

Multi-field screen designer with I/O routines.

T-Move
$ 49.95 Techni Soft

File transfer utility for moving IBM PC files to AmigaDOS.

T-Util
$ 69.95 Techni-Soft

A disk repair and file recovery utility package. Also includes disk track and sector editor.

VLI
$:na Computer Food

Crossbred Workbench and CLI.

ZLI
$ 70.00 Zoxso

Line interpreter with pipes, search paths, user definable function keys, UNIX-like wild cards, etc.

Gizmoz
$:na Digital Creations *****

One of the first Amiga packages to actually exceed our initial expectations. An indispensible package! Gizmoz offers an excellent selection of business, programming, and personal tools to make your life easier at the Amiga keyboard. Several calculators, a rollodex, calendar, 'hotkey' macros, file compress/encrypt, etc., and even a dynamite Life program! Transportable, unprotected, multitasking under Workbench. (-M.B.)

SciCalc
$ 19.95 D.L. Defore ***+

An algebraic calculator, with 10 memories, logs, trig (incl. hyperbolic), 2D statistics, factorials to 170!, and more. Takes up only 50K, and can be sized down to a four-banger if you want to. Nicely done. (-M.B.)

MaxiDesk
$ 70.00 Intuitive Technologies ***

SideKick-type utilities lack the pizazz of Gizmoz. Includes phone book, notepad, calendar, alarm clock.

ES15C Calculator
$ 20.00 Emusoft

Emulates a programmable calculator (like the HP 15C).

Order
$ 49.95 Brown-Wagh

Desktop organizer including a telephone directory, alarm clock, printing scientific calculator, perpetual calendar with an appointment book, screen dump utility, and a sketchpad.

Arcticfox G-10
$ 39.95 Electronic Arts ****+

Here is a real barn-burner of a game that begins to show what the Amiga can do when it is unleashed as a game machine. Smooth animation, convincing colors, 3-D solids gliding by, sound effects that will have the neighbors ducking for cover. Wow! (-B.D.)

Diablo G-13
$ 30.00 Classic Image ****+

This game is very simple, really. You slide pieces of track in front of a moving ball, and as it passes over a section of track, the track disappears. You just have to keep the ball rolling until all the track is gone. The graphics are simple but effective, the sound is nice, and the mouse interface easy to use. It's also so maddeningly addictive that it could earn you a one-way ticket to the funny farm. (-M.B.)

Marble Madness G-13
$ 49.95 Electronic Arts ****+

Totally faithful adaptation of the very popular (Atari) arcade game. 1 or 2 players attempt to negotiate the ourtrageous mazes & traps which lurk upon the marbles' path (I especially like the Hoovers). The only problem is that without the inhibiting effect of the coin slot, you'll eventually master the mazes and have to find something to do with the rest of your life. I hope someone is working on MM II. (-B.D.)

Mindwalker G-13
$ 49.95 Commodore/Amiga ****+

In Mindwalker you are trying to scrape together the shards of your own sanity. You function as 4 separate personalities and the landscape you travel is your own mind. The graphics are good, the music & sound excellent and gameplay complex through all 3 levels. Don't try playing without a manual. My only objection is that you use a mouse & joystick simultaneously. You may not like it at first; give it time. (-M.B.)

Ogre
$:na Origin Systems ***+

Do battle with Ogre, a cybernetic tank bent on destroying you. Simple graphics, great user interface, and simple game rules (at least for a simulation!) make Ogre a great choice if you've always wanted to try a simulation game but haven't had the guts. Great rulebook with Ogre story and an actual working radiation dosage badge (just the thing to wear to the Apocalypse) (-M.B.)

Super Huey G-13
$:na Cosmi ***

Playing Super Huey made me wish that SubLogic would hurry up with their own helicopter simulation. Cosmi's has plenty of detail & thought behind it, but it just doesn't come together. The hokey animation spoils the game for me: those flat 'cutout' symbols sliding by are as phony-looking as an Atari ad, and a waste of the Amiga's abilities. Save your $$ - better things are coming. (-B.D.)

Triclops 6
$:na Geodesic Publications **

3D geodesic space game. Demo versions are available on the nets and in PD libraries, but there is a commercial version also. The fractal 3D graphics are the star. The game is practically unplayable, though, with a horrid user interface, jerky animation, and too many confusing view options. By all means, take a look at the free demo, then decide if you want to pay for more. (-M.B.)

Archon
$ 39.95 Electronic Arts ,

Played on a board where icons occupy the squares, and in an arena where icons race around trying to zap each other, the object of Archon is to occupy all six power points (they move around, increasing the difficulty). For 1 or 2 players. (-B.D.)

Monkey Business
$:na The Other Valley Software ,

Donkey Kong clone in which you are an IRS auditor trying to catch up with 'Mr. Big'. Kong in this one is a burly bodyguard.

Bowling
$ 19.95 Sterling

Bowling simulation.

Deep Space
$ 44.95 Computer Software Service

Published in Europe by Psygnosis, this is an arcade-type shoot 'em up.

F-15 Strike Eagle
$:na MicroProse Software

A captivating game experience flying a fighter bomber. Not as finicky and crash prone as some flight simulators (this plane is considered landed by just coming close to your base). The real action and pleasure of this game is combat flying, bombing, and dog fighting. The cockpit is detailed and the action is convincing. Four skill levels. (-B.D.)

Games Gallery
$:na Meridian Software

Volumes I, II, & III. Each is a collection of 15 games.

HC Software Australia Games
$ 38.00 HC Software Australia

Various Amiga games: Cosmos, Napoleonics G.A.P. and Land G.A.P. for $38 each.

King's Quest III
$ 49.95 Sierra On-Line

3D animated adventure, subtitled 'To Heir Is Human'.

Nitroman
$:na Spectra Soft

Transporting nitroglycerine can be a dangerous game.

Return to Atlantis
$ 39.95 Electronic Arts

3-D undersea adventure with realistic sound effects.

SDI
$:na MindScape

Soviet dissidents have launched nuclear death at the U.S.! Your mission-intercept them with all the resources of Amirica's Strategic Defense Initiative. The third entry in the Cinemaware series.

Skyfox
$ 39.95 Electronic Arts

Realistic combat flight simulator with on-board flight radar. You can't crash yourself, but you can get blown to bits.

Space Adventure
$ 39.95 Amiga Man

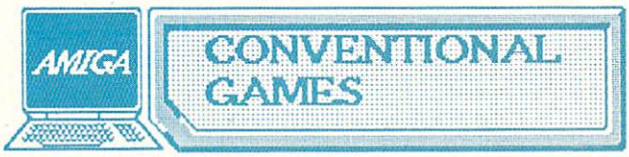
A collection of space games.

Space Quest
$ 49.95 Sierra On-Line

3D animated space adventure. The first in a series, this is subtitled 'Chapter One: The Sarien Encounter'.

Starglider
$:na Firebird

3D vector-graphic game is the Amiga answer to Elite. You command a lone ground vehicle against the combined forces of the alien invaders. Your mission is to destroy their mighty command ship: the Starglider.



Bridge 4.0 G-13
$ 29.95 Artworx Software ****

There's a good concept and a mean play algorithm behind this program. Bidding is competent and by the book, if somewhat limited in scope. It gives you the option of having opening points for every hand. It plays well and aggressively. All play is by mouse, and could be speeded up a little. Optional speech. Hands can be replayed, claimed, or conceded. Scoring is on a real scorepad, unusual and welcome.

Chessmaster 2000 G-13
$ 44.95 Electronic Arts *****

The definitive chess program for the Amiga, and a pleasure to look at and 'handle' as well. Absolutely loaded with options including: user-variable colors, chess clock, game analysis, speech, music, board coordinates, setups, takebacks, replay, 2D or 3D display and more. Response time from 5 sec. to 100 HOURS. My favorite feature is the teaching mode showing all legal moves. (-B.D.)

Quintette G-13
$ 44.95 Miles Computing ****+

This computerized boardgame is very similar to Pente. Placing five stones in a row or capturing five pairs of your opponent's stones wins the game. Your computer opponent is very competent. Like computer chess, the higher levels take a very long time to make a move (overnight at the highest level!) This game is enhanced by excellent graphics, very nice sound effects, and lots of options. Very addictive. (-M.B.)

Shanghai G-13
$ 44.95 Activision ****+

This game ought to be illegal. It is impossible to play 'just one game'. Based on Mah-Jongg, play is swift and deceptively simple; the deeper into the game you get, the more strategy is needed. A variety of single, multi-player & predesigned layouts are available. Uses 3D graphics with the layers of tiles indicated by the shadows they cast. Plan on spending MANY more hours than you intend to with this one.

Chessmate G-13
$ 29.95 Dark Horse ***

A respectable chess program written in AmigaBASIC (you will need your Extras disk), and has a fair assortment of features. If it were the only chess program available, it would be easy to recommend. 1 or 2 players, speech options, manual board setup, 3D view, seven difficulty levels, computer-suggested moves, save. Colors are fixed (boo). Response times go from .5 seconds to one hour. (-B.D.)

Golden Oldies
$:na Electronic Arts

Pong, Life, Adventure, and Eliza for the Amiga. These are all available in public domain versions.

Sargon III
$:na Hayden

Features 9 levels of play and a library of 68,000 moves. Provides instruction for the novice and brain teasing chess problems for the master.

Strategy and Adventure
$ 11.95 Computer Solutions

A series of three disks. The first two are collections of puzzles and the third contains four text adventures. $11.95 each.

Strip Poker for the Amiga
$ 39.95 Artworx Software

This unique program has graphics so realistic that we can't illustrate what you see when you win. Comes with Suzi and Melissa, two gorgeous opponents each with her own style of play and the more you win the more they take off. Additional data disks are available with new male and female opponents.

Talking Trivia
$ 19.95 Megatronics

Start out with 2000 questions and add your own from there.

Video Vegas
$ 34.95 Baudville

Blackjack, poker, slot machine, Keno.

Ballyhoo
$ 39.95 Infocom

Mystery behind the scenes at the circus.

Enchanter
$ 39.95 Infocom

In the Zorkian tradition, you are a beginning magician whom Fate has chosen to do singlehanded combat with a dark and fierce power. Standard level. The whole Enchanter trilogy (Enchanter, Sorceror, and Spellbreaker) is available for $69.95.

Infidel
$ 39.95 Infocom

Another Infocom text adventure where you are marooned by your followers in the heart of the Egyptian desert. You have come in search of a great lost pyramid and its untold riches. The ending is a real shocker. Advanced level.

Leather Goddeses of Phobos
$ 39.95 Infocom

This sexy tongue-in-cheek takeoff on raunchy thirties science fiction pulps can be played in three different modes: Tame, Suggestive, or Lewd. Even though it asks if you are over 18 before it will let you play in the Lewd mode, you probably better keep the kids away from this Infocom adventure. (-M.B.)

Mind Mist
$ 39.95 Infocom

Murder, ghosts, and mystery in an old castle in this new entry-level Infocom adventure.

Planetfall
$ 39.95 Infocom

You are teleported forward in time to a Stellar Patrol ship, where your rank is Ensign 7th Class (the lowest). The ship explodes and you are jettisoned to a deserted and mysterious world, where you must dare its dangers and try to save it. Standard level.

Seastalker
$ 39.95 Infocom

Introductory level adventure in which you are a treasure hunting scuba diver. (-Staff)

Sorcerer
$ 39.95 Infocom

All text adventure that poses you with a mystical clue and a magical tour thru the darker side of the Zorkian Empire. Advanced level. Second in the 'Enchanter' trilogy.

Spellbreaker
$ 49.95 Infocom

Third in the 'Enchanter' trilogy, in this one you have become the leader of the Circle of Enchanters and must save magic itself before you lose all your powers. Advanced level.

Starcross
$ 39.95 Infocom

Text adventure with a science fiction theme in the year 2186, where you are destined to rendezvous with a gargantuan starship from the outer fringes of the galaxy. Intermediate level.

Suspect
$ 39.95 Infocom

This time you are the suspect, and Sgt. Duffy wants you! You must solve the murder to clear your name and do it amidst the activity of masked ball in a mansion. Advanced level.

Suspended
$ 39.95 Infocom

Unique interactive-prose adventure from the company that brought you Zork and Deadline. In this one you command 6 robots each with distinct personalities and various abilities in an effort to avoid world wide catastrophy. Includes a map for tracking your 6 robots. Expert level.

Trinity
$ 39.95 Infocom

A weird combination of historical accuracy and Alice in Wonderland, you travel through time to experience a-bomb blasts!

Witness
$ 39.95 Infocom

Spine-tingler of a blackmail case that turns into murder before your eyes, and anyone from the knockout heiress to the poker-faced Oriental butler could be the killer. Standard level.

Zork I, II, III
$:na Infocom

The Great Underground Empire confronts you with perils and predicaments ranging from the mystical to the macabre, as you strive to discover the Treasures of Zork and escape with them and your life. Zork I ($39.95) is standard level and II & III ($44.95 ea.) are advanced levels. The Zork Trilogy is available for $69.95.

COMPUTER TRIVIA

Ted Nelson wrote the first personal computer book, titled "Computer Lib/Dream Machines" in 1974.

AMIGA ADVENTURES (GRAPHIC)

Portal
$:na Activision *****

A whole new concept in interactive fiction. You discover what is happening in this story by examining the contents of an online database. The more you discover, and the more you piece together, the more the database will reveal to you. More than just an adventure game, this game may herald the way fiction is presented in the future. (-M.B.)

The Pawn *G-13*
$:na Firebird ****+

An innovative game in many ways. The excellent graphic screens are on pull-down windows so you can scroll them up out of the way if you want to. The parser is far better than other adventure games, though it is still stumped by the unexpected. The music is some of the best we've heard on the Amiga. The Pawn's story is good the characters interesting and the play entertaining. You'll like it. (-M.B.)

Temple of Apshai Trilogy *G-13*
$:na Epyx ****+

The entire trilogy on a single Amiga disk. It has been admirably Amiga-tized. Graphics are colorful with a nice 3D shaded effect, music & sound ar top-notch, and the intuitive user interface makes full use of mouse & menus. You hardly ever need to touch the keyboard. Lots of extra touches like the head-bobbing animation of your character. More likely to appeal to novices than Ultima. (-M.B.)

Defender of the Crown
$ 49.95 Mindscape ****

Forsooth! To the lists! This animated graphic adventure tale puts you inside a Medieval movie where you participate in jousts, raid other Lords' castles, champion Fair Maidens, defend your own territories from land-hungry nobles, and generally have a great time in 12th Century England. The graphics are spectacular, the stereo soundtrack wonderful, but the gameplay is weak and not varied enough. (-M.B.)

Deja Vu
$ 49.95 MindScape ****

Graphic text adventure that puts you into a suspense filled 1940's Hollywood mystery. Click on and drag objects to get, drop, or use them. Nice graphics, multiple windows, and slick user interface make this a really enjoyable game. Watch out ya don't catch a .45 slug! (-M.B.)

Exodus: Ultima III *G-13*
$ 59.95 Electronic Arts ****

The sound is excellent & gameplay very good on this entry from Lord British. The graphics & user interface could have been better Amiga-tized. Uses a combination of keyboard & mouse sans pull-down menus. There are monsters & treasures galore, but it's geared towards D&D gamer types. The 3 manuals cover all the game's high points and you will spend many happy hours discovering the details. (-M.B.)

Mindshadow *G-10*
$ 44.95 Activision ****

An adventure that starts you out as an amnesiac stranded on a island. Your main challenge is to discover who you are, who did it to you and why. Uses the effective window within a screen technique to maximize the speed, variety and quantity of graphic screens. Extra applause here for the smooth-scrolling text. (-B.D.)

Tass Times In Tonetown
$ 44.95 Activision ****

In Tonetown all the rules change and to be successful you have to be totally tass. A truly bizarre adventure. The graphics are nice, and the gameplay interesting, but too 'New Wave' for me. (-M.B.)

Brataccas
$ 49.95 MindScape **+

More than 60 characters inhabit the world of this graphic adventure. Comic-book word balloons enclose characters' conversations. Action is stilted, making it very difficult to even go through a door. Living proof that good graphics do not make a playable game. (-M.B.)

Transylvania
$ 29.95 Polarware/Penguin Software **

This not-very-good game was ported to the Amiga from the 64 with no changes. The graphics are the just the same and just as slow as on the 64, which is unforgivable. You can make your moves via the mouse, but that seems to be about the only concession to the Amiga. As adventures go, this one doesn't.

Adventure Construction Set
$ 49.95 Electronic Arts

Build your own graphic adventure. Includes 7 tutorial adventures, 2 full length adventures and stick-shift menus for selecting your adventure pieces.

Alternate Reality
$ 39.95 Datasoft

Science fiction role-playing adventure with 3D graphics

Arazok's Tomb
$ 49.95 Aegis

Role-playing graphic adventure.

Autoduel
$:na Electronic Arts

Futuristic vehicle battles.

Black Cauldron
$ 39.95 Sierra On-Line

Fantasy/adventure based on the Disney movie.

Borrowed Time
$ 44.95 Activision

A big step forward in the realm of interactive fiction. A small graphics window is super, allowing fast loading of scenes. The parser is both fast & smart, while the text is colorful and full of sly humor.

Faery Tale Adventure
$:na Micro-Illusions

Accompany Julian, Kevin, and Philip in their quest for their ultimate fate in the Land of Holm.

Hacker
G-9

$ 44.95 Activision

An interesting concept, because this game includes no instructions as you accidently gain access to a mainframe. From ther you will be left to your own devices and investigative abilities to get to the bottom. All the more fun with super graphics and sound. (-B.D.)

Hacker II
$ 44.95 Activision

The sequel to Hacker puts you into a secret Soviet installation, working online for Uncle Sam. You have full view of the installation via six on-screen video surveillance monitors, and can control several robots.

Hex
$ 39.95 Mark of the Unicorn

Graphic fantasy strategic adventure.

King Of Chicago
$:na MindScape

Cinemaware adventure set in Gangland Chicago.

Oo-Topos
$ 29.95 Polarware/Penguin Software

Adventure on the planet Oo-Topos.

Rogue
$:na Epyx

Seek the Amulet of Yendor in the depths of your Amiga.

Seven Cities of Gold
$ 39.95 Electronic Arts

An adventure game of discovering the new world in the late 1400's. Carefully balance your resources between the number of ships, men, supplies and valuables to trade or give the natives. You'll like this one if you like exploring and can negotiate with unpredictable natives. (-B.D.)

Shifting Sands
$ 29.95 Amiga Man

Graphic strategy with sound.

Sinbad
$:na MindScape

This two-disk graphic adventure, the 2nd in the Cinemaware series, offers a deeper gameplay than Defender Of The Crown, with many magical sites to visit and many mysterious people to meet.

Solar System
$:na Ace Computer Enterprises

A space adventure.

The City
$:na Datasoft

A new adventure from Datasoft's Alternate Reality series.

The Coveted Mirror
$ 29.95 Polarware/Penguin Software

Seek the coveted mirror in this illustrated fantasy adventure.

The Crimson Crown
$ 29.95 Polarware/Penguin Software

Illustrated fantasy adventure: seek the crown!

Uninvited
$ 49.95 Mindscape

You must survive a trip through a decaying, demon-filled mansion.

Flight Simulator II
G-13

*$ 49.95 Sublogic ******

This computer gaming legend reaches its finest incarnation in the long-awaited Amiga version. Graphics are superb, with multiple, sizeable zoom windows for simultaneous views from a variety of perspectives. Fly either a Cessna 182 or Learjet 25g. Fly in real-time thru a detailed world and buzz familiar landmarks in major cities. BEGIN your game collection with this one! (-B.D.)

Balance of Power
G-13

*$ 59.95 MindScape ****+*

Balance of Power is about the delicate balance of the superpowers. The game is as complex as world politics, but the pull-down menus and pop-up windows make it easy to play. You assume the role of the US or USSR, make world policy, & observe the reactions. Complaints: Mac conversionitis, with no sound; both DOS and random keyword copy protection; and a heavy bias towards the Soviet side. Requires 512K. (-M.B.)

Leader Board
G-13

*$ 39.95 Access Software *****

Nicely done graphics are what make this golf simulation worthwhile. Up to 4 golfers can play 4 different imaginary courses. Play action via a double mouseclick is good, if difficult to master, just like the real thing. Club selection must be made for every shot. A driving range is included, but no practice green, nor is there a course-construction function. Any duffer will find this one worth a look.

Mean 18 Ultimate Golf
G-13

*$ 49.95 Accolade *****

If you're a golfer, you'll like Mean 18. It offers real courses, including Pebble Beach & Augusta, has realistic sound and good play action based on a triple mouse-click system. Some nice touches like a practice green, driving range, & even a course architect. My only gripe is the blocky IBM-style graphics. Complete Amigatization would make this one nearly unbeatable. Fore!

One on One
*$:na Electronic Arts *****

1 or 2 players may switch personalities with Dr. J or Larry Bird. All elements of the game have been included through excellent programming: dribbling, shooting, rebounding, stealing, blocking, 180-degree spins & slam dunks (easy on the backboard...its breakable). Referee calls the fouls, janitor sweeps up broken backboards, and instant replays on good moves. (-B.D.)

Star Fleet I
G-13

*$:na Electronic Arts **+*

If you've played public domain versions of Star Trek, you've played Star Fleet I. You'll find the familiar warping around the galaxy blasting alien Krellan (read Klingon) spaceships. The graphics are restricted to gridmaps, text descriptions, and some simple ship representations. Looks like it was ported lock, stock, and lack of imagination from the IBM version. If you have a PD Star Trek you don't need this one (-M.B.)

3 in 1 College & Pro Football
$ 39.99 Lance Haffner Games

Stat-based football simulation. Play against another human, against the computer, or computer vs. computer. Includes 176 college teams and 28 NFL teams from the most recent season and 174 college/189 pro teams from the past (dating back to 1948). Text only; no graphics.

Arena
$ 34.95 Computer Software Service

Olympic-type decathlon simulation. Published in Europe by Psygnosis.

Acro Jet
$:na MicroProse Software

Allows those pilots who have soloed in Solo Flight to now pilot their own personal jet, the BD5-J. You can then participate in a Decathlon of Sport Aviation events, including spot landings, ribbon cuts, acrobatics, and more. High performance flying, including rolls, loops, Immelmanns all in 3-D.

Basketball: The Pro Game
$ 39.99 Lance Haffner Games

Stat-based basketball simulation. Includes the 23 current NBA teams and over 100 teams from past seasons. You can use the teams provided or make up your own. Prints results of the game to screen or printer. Play against another human, the computer, or let the computer play itself. Text only.

Champion Star League Baseball
$ 29.95 Activision

Graphic baseball simulation.

Championship Golf: Vol. I
$ 54.95 Gamestar

Play like the pros at the Pebble Beach golf course.

Chess & Checkers
$ 39.95 Point Software Development

The classics.

Computer Baseball - Amiga
$ 39.95 Strategic Simulations

Converted from the 64 version for the Amiga.

Final Four College Basketball
$ 39.99 Lance Haffner Games

Stat-based basketball simulation. Play against another human, against the computer, or computer vs. computer. Includes 286 teams from the most recent season and 70 of the best teams from the past. You can also make up your own teams. Text only.

Financial Time Machine
$ 39.95 INSIGHT/Lehner

Real-world investment simulation from 1903 to 1984.

GBA Championship Basketball
$ 44.95 Gamestar (Activision)

Two-on-two basketball simulation.

Gridiron
$ 40.00 Bethesda Softworks

Football simulation which uses the mouse for control.

Gunship
$ 39.95 MicroProse Software

Simulator of the new AH-64 Apache attack helicopter.

Hole in One Golf
$:na Artworx Software

Hole in One translated for the Amiga.

Jet
$ 49.95 Sublogic

There's no arguing about it this one's got it, speed, detail and graphics. Fly the F-16 over land or the Navy's F-18 over sea. This version incorporates some of the code that was to have become the now-cancelled Radar Raiders.

Kennedy Approach
$:na MicroProse Software

Air traffic controller that supports several advanced and unique features, that help make it work (i.e. good quality speech synthesis and indication of the altitude of planes, giving you 3-d visual information on a 2-d game grid). If you aren't getting enough tension in your life, this should help. (-B.D.)

Leader Board Tournament Disk
$ 19.95 Access Software

Adds four new 18 hole golf courses to your Leader Board game.

Life and Death
$:na Software Toolworks

Simulation of a big-city hospital emergency room.

Micro League Sports Assoc.
$:na Micro League Sports Assoc.

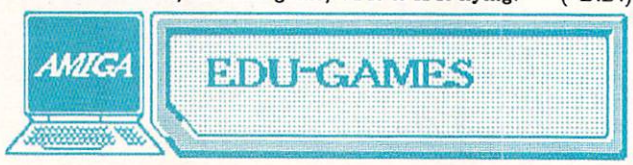
Micro League Baseball ($60) and General Manager's Owner Disk ($40).

Silent Service
$:na MicroProse Software

A submarine simulation of WWII submarine combat in the Pacific. Features multi-sub locations including engine room, conning tower and ship's bridge.

Solo Flight
$:na MicroProse Software

Real-time light airplane simulation, with 3-D terrain graphics, multiple airports, varing conditions, full instrumentation, air-mail game, VFR & IFR flying. (-B.D.)



Conversation With A Computer
*$ 29.50 Jenday *****

This program (actually a collection of programs which chain together) is meant to serve as an entertaining introduction to programming in Amiga BASIC. Almost everything the Amiga can do from BASIC is done at least once, and you can list the BASIC source to see how it was done. There are also several elegant subroutines you can lift and use in your own programs. Some fun demos and games, and informative. (-M.B.)

Little Computer People
*$ 44.95 Activision **+*

The 'Little People' on the Amiga are no more fun or varied than their 8-bit counterparts. Why bother? (-M.B.)

Facemaker - Golden Ed.
$ 49.95 Spinnaker

Children learn computer basics by making faces.

Great States USA
$ 39.99 The Other Guys

US Geography teacher. Uses speech, music, and animation. Single or 2-player modes.

Halley Project
$ 45.00 MindScape

Players must successfully complete a series of missions, navigating by the stars, in this authentic real-time simulation of the solar system. Qualifiers may participate in a special secret mission.

Keyboard Cadet
$ 39.95 MindScape

Trains users to type on the computer keyboard, excellent graphics and ease of use make it appropriate for users age 8 and up.

Match-It
$:na The Other Guys

Teaches children the concepts of color and shape.

Math-a-Magician
$ 39.95 The Other Guys

Speech and graphics used to teach children addition, subtraction, multiplication, and division.

Talking Story Book
$ 49.99 The Other Guys

Completely mouse-driven storyteller to keep young children safely occupied while you do something else.

The Surgeon
$ 60.00 ISM, Inc.

An edu-game not for the squeamish. Simulates a patient with an aortic aneurysm and you perform the operation to fix it. 512K, 1.2 required.

MandFXP
*$ 10.00 CygnusSoft ****+*

Mark and Benn are so addicted to this program that they wouldn't quit playing with it long enough to write a review. This Mandelbrot generator is the best we have seen yet. It's considerably faster than most and has a wide array of options: hi-res, selectable color-cycling direction & speed, and a sizeable display are just a few. This is one program your Amiga (and your eyes) shouldn't be without.

Mandelbrot
$:na Robert S. French ****

If you have an Amiga and an spare ten or fifteen bucks, we suggest you go to the post office right now and mail him a blank disk and your cash, it's worth it. This program allows you to explore the breathtaking world of Mandlebrot self-squared dragons. (-B.D.)

Multidim
$:na Robert S. French ***+

This freeware program presents you with a rotating two to six dimensional cube in space, controllable with a joystick. Freaky. Send a $10-$20 donation while you're at it. Ask for 'Tree' also, which generates a fractal tree in color. Both include source in C. (-M.B.)

Amiga Man: Games
$:na Amiga Man

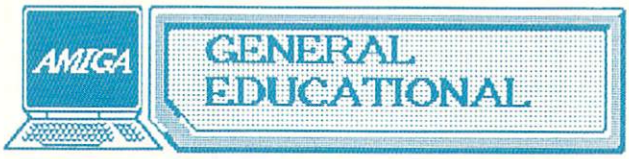
Amiga games ranging in price from $20 to $50.

Eye Play 1
$ 19.95 Sterling Software

Random graphic routines for kaleidoscopic light-shows on your Amiga.

The Dream is Alive
$ 21.95 Tech Soft

An entertainment/educational 'movie' about the Space Shuttle Program. Uses digitized sound and has a screen dump utility with a slide show. There are also several HAM screens on the disk.



Discovery Spelling
$:na Micro Illusions ***

Pick a character, enter the maze and when you come to a door you must spell the word spoken to you (listen real close or you'll misinterpret it), when done correctly the door opens and you may continue. Pretty graphics but lack of variation and pronunciation problems cause this edu-game to wear thin in minutes, not hours. (-B.D.)

Discovery Math
$:na Micro Illusions **+

Same graphics as their Spelling program. Incredibly, you are forced to do addition long-hand (carries), but must do division and multiplication in your head (or on paper). Requires joystick (does not support mouse !!) Graphics could get four stars, but game play is boring, and educational value lies between none and negative. (-B.D.)

Amiga Man: Educational
$ 19.95 Amiga Man

Scientific, mathematic, spelling and more for all ages.

Educational Series
$ 29.95 Classic Image

Three titles so far: Grammar Booster, Vocabulary Builder, and Algebra Power. Price is for each disk.

Intellectual Software
$:na Intellectual Software

Various titles covering analogies, grammar, French, Spanish, geography, history, reading & reasoning, composition, starting a new business, and vocabulary.

Kidtalk
$:na First Byte

Talking creative writing 'notebook'.

MicroEd Educational Titles
$:na MicroEd

Several titles available covering vocabulary, basic usage, punctuation, etc. Some speak, have graphics,etc. Most require 512K.

Queue Educational Software
$:na Queue

Marketed by Queue under the name Intellectual Software. Subjects include American History, Reading, Composition Spanish, French, Vocabulary, World Geography, Grammar, and a number of others. There are generally several levels available for each subject. Prices range from $34.95 to $149.95. All of them require 256K.

Speller Bee
$:na First Byte

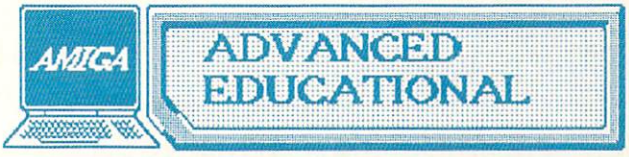
Talking spelling tutor. Translated from the Macintosh.

True BASIC Educational
$:na True BASIC

Titles covering algebra, trigonometry, calc and precalc and discrete math. Prices $40 to $60.

Unicorn Math Programs
$ 50.00 Unicorn Software

Decimal Dungeon and Fraction Action for $50 each.



Equation Plotter
$ 29.95 Scientific Software

Mathematical tool for students in junior high on up.

Mastering the SAT
$ 99.95 CBS Software

Student workbook & teacher's notes are available for $109.95 and a lab pack at $329.85. The $99.95 price is for the retail version.

SAT Perfect Score
$ 79.95 Mindscape

Preparation for the SAT test. Covers the entire test, lets you take a timed practice test, has a print option and an onscreen clock.

Grade Manager
$ 89.95 Associated Computer Services

A 100 point scale system with interface to hook-up a Scan-Tron optical scanner for reading students' exams when done on scanner cards.

Quiz Master
$ 79.95 Associated Computer Services

General purpose test-making utility with IFF sound and graphics for designing (among other things) quizzes and tutorials using standard music notation. Produces printed output.

AMIGA Tutor
$:na MindScape ***+

Included with the Amiga on the Extras disk, along with Amiga BASIC. Offers a tour of the major features of the Amiga, including the keyboard, windows, the mouse, etc. Meant to be an introduction to the machine, not an in-depth tutorial. Good graphics, but where is the sound? (-M.B.)

LogicWorks
$ 99.95 Capilano Computing Systems ***+

This package lets you graphically design logic circuits and then test them out in real-time, complete with on-screen logic probe signal displays. Much quicker than breadboarding circuits. Pretty nice user interface suffers from a few quirks, and the early release version I looked at was still bug-ridden and needs a much more extensive library of gates and devices. Still fun and shows lots of promise. (-M.B.)

Amiga Public Domain Software
$ 5.95 Chiron Conceptions

Various Amiga disks for $5.95 each. Areas include demos utilities, games, languages, tutorials and slideshows. Chiron has sifted through the chaff to select some of the very best Amiga PD titles. The quality of these disks has really impressed us. Check out the MacView program, Monopoly and Clue games, and Juggler disk for starters.

Amiga Public Domain
$:na National Public Domain

25 disks of public domain software. For sale or rent.

Amiga Sampler Disk
$ 9.95 Computer Solutions

Disk of 10 game, business and utility programs.

CompuCuisine
$ 29.95 Adept Software

Recipe database for your Amiga and your stomach. Includes 200 recipes to start with and you can add your own.

Digital Building System
$ 299.00 MicroMaster Software

Allows you to design and test digital electronic circuits graphically. 15-screen work area, mouse driven, supports statndard logic gates & ICs. Expandable parts library.

Orator
$ 39.95 Quality Cottage

Speech processor.

Public Domain Collections
$ 4.95 Schneider Software

25 disks of p.d. software. Price quoted is per disk. Add $2.00 for shipping & handling.

Public Domain Disks
$:na Mid-Kansas Computers

SASE for list of over 40 public domain Amiga disks.

The Talking Coloring Book
$:na JMH Software of Minnesota

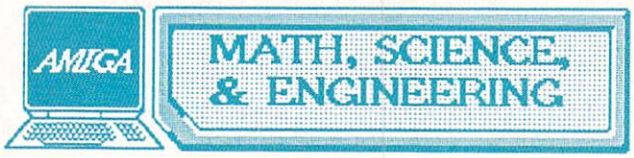
A 'talking coloring book' that won't let you color outside the lines.

Time & Task Planner
$ 110.00 Gander Software

Time management tool for up to 5 users. Includes ABasiC

Video Cataloger
$ 34.95 SunSmile

Keeps track of up to 2000 movies. Fields include producer, director, date of release, etc.

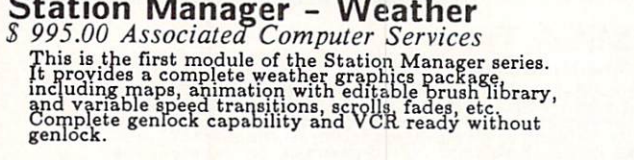


PCB Photoplot Driver
$ 300.00 Visual Aural Animation

Converts DMP-52 plot files created with Soft Circuits' PCLO (q.v.) into Gerber data files used in state of the art photoplotting services to make printed circuit board masks and silkscreens. Includes a list of companies that offer Laser photoplotting.

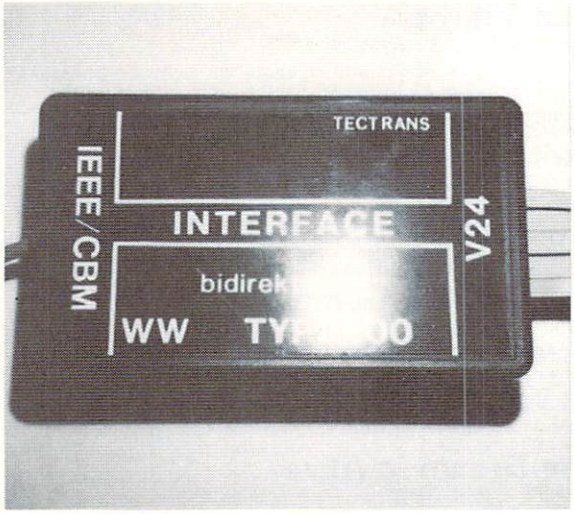
Station Manager - Weather
$ 995.00 Associated Computer Services

This is the first module of the Station Manager series. It provides a complete weather graphics package, including maps, animation with editable brush library, and variable speed transitions, scrolls, fades, etc. Complete genlock capability and VCR ready without genlock.



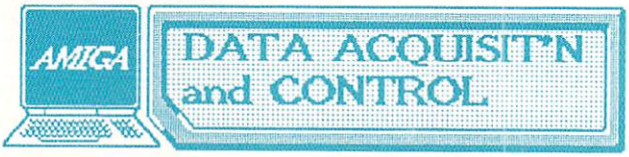
Amiga Sidecar
$ 700.00 Commodore/Amiga

Multitasking with up to 2 IBM displays (1 in color and 1 in monochrome) with Amiga programs running in as many windows as memory permits. 256k of RAM, 8088 microprocessor running at 4.77MHz, 3 IBM compatible i/o expansion slots, 5&1/4 inch drive with 360k capacity and a socket for an 8087 Floating Point math coprocessor. Long-promised: 'Available soon'



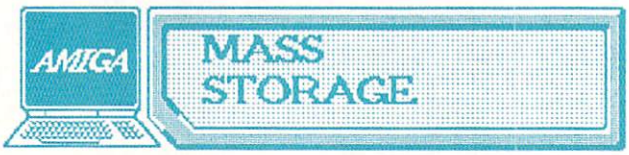
Amiga/IEEE Interface
$ 479.00 TecTrans

Bidirectional interface connects to the RS232/V24 port. Does not support Amiga graphics.



ADC-1 Data Acquisition
$ 450.00 Remote Measurement Systems

Features 16 differential analog inputs, 4 digital inputs, and 6 independent open collector TTL outputs. The analog inputs have a sample rate of 20 samples/sec with input auto zeroing. The digital inputs are individually configurable for normally open or normally closed circuits. Can be used for energy management, security monitoring, weather sensing, temperature control, etc.



1010 3.5 External Drive
$ 300.00 Commodore/Amiga ****+

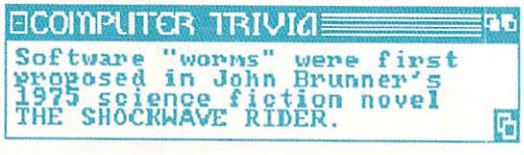
Functionally identical to the Amiga's internal drive, compact, and includes daisy-chain connector for up to 4 drives total. Early models did not pass 12v line for daisy-chaining. Simple solution: put them last in line. (-M.B.)

aMEGA 20
$ 995.00 C Ltd. ***+

20 meg hard drive with SCSI controller. In a large case with integral power supply. Works fine, but only about 3x faster than floppies. Larger drives available, up to 350 megs! (-M.B.)

1020 5.25 External Drive
$ 395.00 Commodore/Amiga ,

Originally for use with Transformer software, now of use to those who need an external MS-DOS drive for the A2000. Still shipped with Transformer. (-M.B.)



A2094
$ 350.00 Commodore/Amiga

Hard drive controller card for A2000, controls two ST-506 IBM-type hard drives, up to 7 Mac-type SCSI hard disk drives.

MASdrive20
$ 1495.00 MicroBotics

20 megabyte low profile hard drive that connects to your Amiga's parallel port (with pass thru for your printer), built-in interface electronics and complete diagnostic and configuration software to install the drive as a Workbench icon. Not autoconfig.

PAL Hard Disk Drives
$:na Byte By Byte

20MB drive 65 mSec access time and a 45MB drive with 35 mSec access time. Prices are $3195 and $3995 respectively.

PAL Jr.
$ 1495.00 Byte by Byte

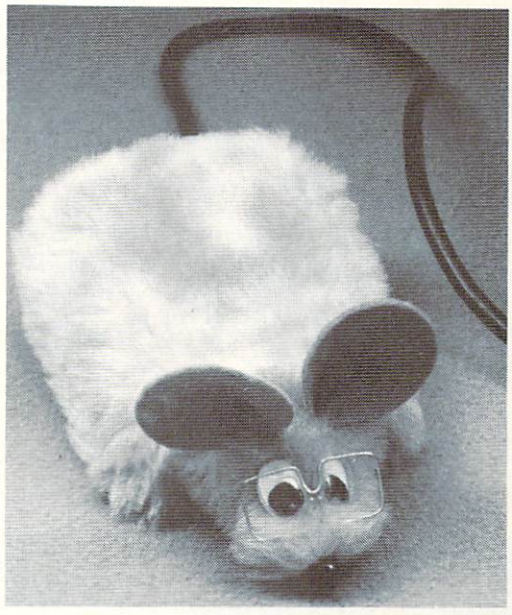
Half-height, two-slot backplane 5 1/4 in. hard drive. Includes 1MB RAM and allows expansion via the remaining slot to 9.5MB (!) RAM when used with BBB's 8 meg RAM ZORRO board. Includes a real-time clock. Claims to be faster than any other hard disk for the Amiga, with average access time of 68 msec and track to track access of 15 msec. Redesigned to sit atop A1000 rather than at its side.

Side Track
$ 799.00 Side Effects

20 Mb hard drive uses direct memory access with data double-buffering. The controller alone is available for $449.

Supradrive Hard Disk
$ 599.00 Supra

Price quoted is for 10 meg, also in 20,30,60 megabyte models, to $1995.



Mouse Top
$ 5.95 H & H Enterprises

A furry cover for your mouse that makes your electronic mouse look like the furry mammalian variety. It even comes with tiny wire-rimmed glasses.

AMIGA GADGETS, CABLES ETC.

Atime
R-10

*$ 49.95 Akron Systems Development ***+*

A battery backed up clock that plugs into the Amiga's parallel port. Once you install Atime you must have the support modules on your boot disk or printing may upset the time. (-M.B.)

Amiga Printer Cable
$ 20.00 TecTrans

Connects your Amiga to a Centronics/parallel printer.

Aprotek Amiga Cables
$:na Aprotek

Two parallel printer cables. 6-foot is $17.95 and the 10-foot is $21.95.

Belkin Accessories
$:na Belkin Components

Parallel Printer Cable ($18), 2-way parallel data switch ($99), 4-way data switch ($129).

MJ-MODulator
$ 22.50 MJ Products

RF-modulator interface to connect your Amiga to a TV.

Mouse-Hide
$ 15.00 Pilot Enterprises

Rubber-backed real-leather pad for your mouse.

MouseTime
$ 39.95 MicroBotics

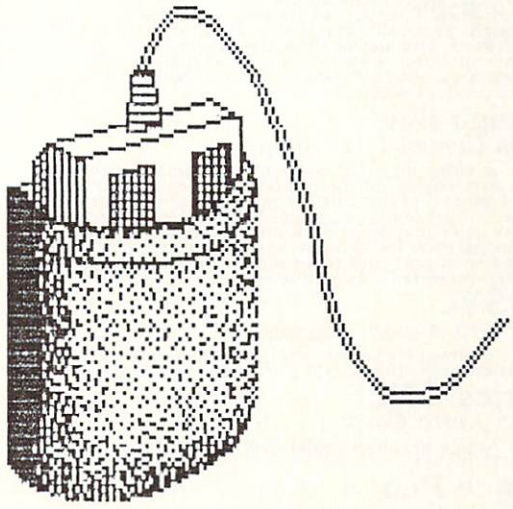
Real-time clock for your Amiga. Battery back-up.

Mouspad
$:na Moustrak

Rubber pads in two sizes, five colors, two thicknesses, for your mouse to run around on. I was skeptical at first, but now I love the way my mouse works on its pad and how I remember not to put my coffee cup down where I want to use my mouse. From $7.95 to $10.95. (-M.B.)

Redmond Cables
$:na Redmond Cable

Amiga printer cables, other custom cables.



MousePouch
$ 4.95 H & H Enterprises

A soft cloth pocket that attaches with a velcro strip to the side of your monitor or wherever you want it to provide a nest for your mouse when it's not running around making itself useful. Comes in light grey and light brown.

Smart Watch
$ 69.95 Michigan Software Distributors

A realtime clock that mounts inside your Amiga to give you constant correct time. Has a 10-year non-replaceable battery. Comes with software to read and write time.

TIC
$ 59.95 Byte by Byte

A battery-backed clock that sits in the second mouse port. With software. A good idea, and the one we have may be a 'lemon', but it keeps losing the time. (-M.B.)

Universal Interface Converter
$ 99.00 Jonathan Freeman Designs

Switch to convert from parallel to serial or vice-versa.

SENSORY PERIPHERALS

Digiview Digitizer
G-10

$ 199.95 NewTek ****

Anyone who has seen the demo pictures circulating around that were made with this product has to be impressed (and we certainly are). This digitizer produces broadcast or better quality still images in lo/hi-res, 128-level gray-scale or 4096 colors. Uses a variety of 2:1 interlace b&w cameras (the color screens require 3 passes with filters. Many pictures in INFO are digitized with Digiview. (-B.D.)

Genlock 1300

$ 195.00 Commodore/Amiga ,

Genlock is a device that synchronizes text, sound, & graphics from your Amiga with an external video source (VCR, videodisc, or camera). The result is displayed or can be recorded on videotape. Input takes RS-170 signal, stereo audio, & Amiga signal. Outputs include composite & RGB video, and stereo audio signal. Many controls. Now shipping!

INPUT DEVICES

Penmouse+ Input Device
R-10

$ 375.00 Kurta Corp. **+

A graphics tablet that will eventually also function as a mouse, though the mouse driver software was not ready as of June. The pen is wireless, but needs to be held straight vertically in order to function well. A little awkward, and slower than the mouse, but it does let you draw and trace paper drawings with Deluxe Paint. Kurta is working out the bugs, and it will be an extremely nice product when they do. (-M.B.)

Amiga live!

$:na Commodore/Amiga

Color video digitizer and real-time frame grabber can capture any NTSC or composite video image. Records up to 1 second of imaging for replay or processing. User has control of hue, luma, and saturation. Supports false color mapping, b&w images, and selective transparency for chroma-key effects. Connects to expansion port and takes input via standard RCA jack. Long-promised: 'Available soon'

EASYL

$ 499.00 Anakin Research

Hi-res graphics tablet, available with optional animation pegs. 1024x1024 grid, 8.5x13 in. active area.

Series ONE

$:na Kurta Corp.

An Amiga graphics tablet in 3 sizes: 8.5x11, 12x12 and 12x17 inches.

Space Pen

$ 175.00 Soniture

A 3-D input device that lets you send to ultrasonic signals to the computer. Including sampler software.

DISPLAYS

Amiga A1080
R-10

$ 400.00 Commodore/Amiga ***

RGBA, RGBI and separated composite inputs, you can use this monitor with all Commodore computers. We've seen clearer and cleaner composite, and some models have a picture-dimming antiglare screen. It's also strange that a monitor for the stereo Amiga would have mono sound. Not a bad monitor (we use 4 of them here) but acceptable mostly because of the Amiga/monitor deal you can sometimes get. (-M.B.)

A2002

$ 349.00 Commodore/Amiga

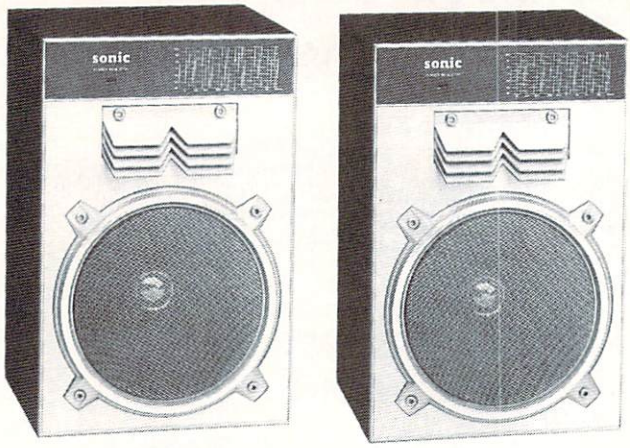
RGBA/composite monitor, a companion to the A2000.

A2080

$ 500.00 Commodore/Amiga

Long-persistance RGBA monitor, to reduce flicker in Amiga hi-res mode. Available Fall.

MISCELLANEOUS HARDWARE



Sonic 1 Extension Speakers

$ 115.00 Micro R&D ****

Pair of small, self-amplified speakers for your Amiga, VCR, or any number of other uses. These speakers produce good sound for their size, look nice, and the price is right. The external power supply is a little awkward, bigger than you might expect, and the volume knob is unhandily located on the back of one speaker, but overall, they're still worth the price.

1050 256K Amiga RAM expander

$ 200.00 Commodore/Amiga ***+

Adds 256K of RAM to the basic Amiga for a total of 512K You need an additional 256K to bring your Amiga up to full power, but Commodore's isn't the best deal. (-M.B.)

256k RAM Card

$ 78.95 StarPoint ***+

RF Shielded, more compact than Commodore's. Ours works fine, and the price is right. (-M.B.)

Alegra

$ 379.00 Access Associates ***+

512K memory expansion for expansion buss. No pass-thru, ours works fine. Expandable internally to 2 MB by substituting 1 meg DRAM chips. (-M.B.)

aMega

$ 549.95 C Ltd. ***+

One meg on the expansion buss, requires a $20 connector to extend the buss beyond. Mine works well, but I understand that some folks with early Amigas have had problems. (-M.B.)

1 Megabyte RAM

$ 399.00 Academy Computers

Also available at a reduced price as a kit.

1.05 Meg Memory

$ 699.95 Skyles

For the expansion buss. Most folks call this 1 meg RAM. (-M.B.)

2.15Meg Memory

$ 999.95 Skyles

Two megabytes of expansion memory.

256K Add-In Memory

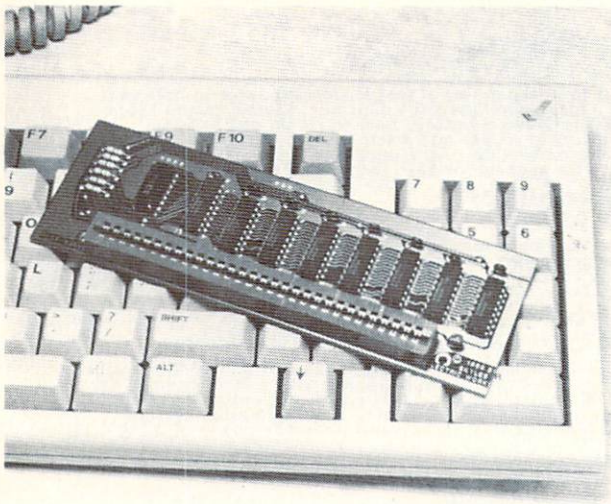
$ 95.00 Nikol & Co.

Initial expansion to attach to the front bus.

256K Expansion RAM

$ 49.95 Michigan Software Distributors

Low-cost front-bus expander.



262k RAM Expander
$ 119.95 Skyles Electric Works ***

Bare board w/o RF shielding, but it works fine. Most folks call this a 256K RAM expander. (-M.B.)

68010 Math Coprocessor
$ 149.00 Netch Computer Products

The company states that the board will boost math intensive applications by 300-500 percent. It's an internal piggyback replacement for the 68000 chip and runs asynchronously on the system clock. The price is for the bare-board version. Assembled & tested is $269. With the 68881 coprocessor chip the board is $459.

68010 Upgrade Kit
$ 115.00 Data Reduction Associates

MC68010L8 cpu to upgrade your Amiga. We've heard this can speed up your machine by 8%-50% depending on the application.

68020 Board
$ 1480.00 Computer System Associates

Plugs into cpu slot on A2000, gives you 14MHz, true 32-bit cpu performance.

68020/68881 Piggyback Board
$ 1480.00 Computer System Associates

Promises to boost overall performance speed up to 40%. Piggybacks into Amiga's 68000 cpu socket.

A2000
$ 1495.00 Commodore/Amiga

Operation identical to A1000, but has KickStart v1.2 in ROM, comes with 1 meg standard. Has massive 200w power supply, mounts 2 3.5 in. and 1 5.25 in. drives internally, seven expansion slots for Amiga or MS-DOS, includes video slot and cpu slot for further expansion. Standard IBM-compatible parallel, serial ports. RGB and monochrome video out, stereo audio out jacks. Improved detachable keyboard. A powerhouse!

A2050
$ 500.00 Commodore/Amiga

Two meg RAM card for the A2000. Available at A2000 launch. Available later: 512K, 4M, 8M cards.

A2060
$ 100.00 Commodore/Amiga

NTSC video card, plugs into the A2000 video slot. Also provides RF modulated output for TV viewing.

A2088
$ 500.00 Commodore/Amiga

The 'Bridge Card'. Plugs into an A2000 bridge slot to activate the IBM/PC buss and provide an 8088 cpu, 512K of MS-DOS system RAM, communications link to the Amiga side, etc. 4.88 MHz clock rate, empty socket for 8087 math coprocessor. Also requires a Commodore 5.25 in. disk drive.

A500
$ 640.00 Commodore/Amiga

100% A1000-compatible, all-in-one case design Amiga with KickStart v1.2 in ROM, 512K standard, internally expandable to 1 meg. Built-in 3.5 in. disk drive in right side, expansion buss on left. Improved keyboard is not detachable. IBM-compatible serial, parallel ports, monochrome and RGB video, stereo audio out jacks and mouse ports on rear of case. Nice-looking and should KILL the Atari 520ST.

AM100
$ 799.00 Ameristar

External chassis with 2Mb memory.

AM256
$ 129.00 Ameristar

Initial 256K expansion that attaches to the front bus.

aMega 2
$ 449.95 C Ltd.

External memory expander with 2 Mbytes. (-Staff)

Amiga Clock
$ 69.95 Skyles Electric Works

Real-time clock board in a cartridge that fits the expansion buss.

Amiga Expansion Box
$ 1000.00 Gemstone Group

8 expansion slots and fully socketed memory array to hold up to 8MB of RAM.

Amiga T-Shirts
$ 9.50 T's Me

Wear the Amiga logo proudly. The words 'Gives you a creative edge' appear beneath the color logo. Available in sizes S, M, L, XL. T's Me also offers Amiga sweatshirts for $16.00 and Amiga bumperstickers for $1.50.

Amiga Templets
$ 7.00 Slipped Disk

Full-keyboard size templates for AmigaDOS or Microsoft BASIC.

Arcnet Board
$ 399.00 Ameristar

Connector to attach the Amiga to the Arcnet. This model plugs into Ameristar's expansion chassis. There is also another model that mounts on the side of the Amiga and retails for $499.

AX1000 1 Meg RAM board
$ 729.00 Comspec Communications Inc.

Same as the AX2000 board, but with only half the additional memory.

AX2000 2 Meg RAM board
$ 899.00 Comspec Communications Inc.

2 megs auto-config RAM with pass-thru connector.

Buss Station
$:na DSI

Includes a recessed slot, spike & surge protector, a RAM expansion port & eight 86-pin card edge connectors.

Comspec 2MB Expansion Board
$ 1079.00 Comspec Communications

Uses standard memory bus architecture.

Convertible SMGC
$ 450.00 ASDG, Inc.

Zorro-compatible multifunction board with four DMA serial ports, clock with battery backup, a math coprocessor, and other features. Price quoted is for 1/2 Mb. 1 Mb is $650 and 2 Mb retails for $900.

Ethernet Board
$ 699.00 Ameristar

Comes with a Cheapnet connector. Has a speed of 10Mbit per second. A side-mounted version is available for $749.

Expansion System 100
$ 699.00 Ameristar

135 watts power 5 slots on this bus-attached expansion chassis. An extender board is also available for $49.

Hard Disk Expansion Box
$ 225.00 STACAR International

Empty box for a hard drive that mounts on top of your Amiga.

Insider 1Meg Memory Board
$ 349.00 Michigan Software Distributors

Plugs into the 68000 socket inside your Amiga. No wait state for fast memory. Transparent refresh circuit. Auto config with 1.2 Kickstart.

IVS Busbox
$ 300.00 Interactive Video Systems

Fully buffered bus expansion box with 4 slots.

IVS Magnus
$ 100.00 Interactive Video Systems

4 watt stereo amplifier.

IVS Ramex-1M
$ 200.00 Interactive Video Systems

1MB of RAM expansion board.

MegaBoard
$ 599.95 Progressive Peripherals

2 megabyte expansion board.

MicroBotics 256 RAM Expansion
$ 149.00 MicroBotics

Front-bus expansion to take your internal memory to 512K.

Mini Rack B
$ 300.00 ASDG, Inc.

Zorro-compatible double (two-slot) card rack. Comes with a 6-amp power supply.

Mini-Rack
$ 500.00 ASDG, Inc.

Card rack with three slots and a 9 amp power supply.

MTA 200
$ 80.00 Media Technology Associates

Compact stereo amplifier with speakers.

MTA Series 1000
$:na Media Technology Associates

Converts your Amiga into an interactive laserdisk terminal.

PAL 2MB RAM Board
$:na Byte By Byte

2MB RAM board expandable to 8 MB onboard.

PAL
$ 1795.00 Byte By Byte

Expansion chassis with 1-9 MB of onboard RAM, battery clock, hard disk controller, five expansion slots. Mounts up to three half-height drives internally, sits atop A1000.

Pow-R-Card
$:na RS Data Systems

Amiga RAM expansion board with 2 Mb increments up to a full 8 Megabytes. Made to fit all expansion boxes. Prices range from$599.95 for a 2 Meg box to $1675.95 for an 8Mb piggyback configuration.

Proto 5K
$ 279.00 ACDA

Analog/digital converter with multichannel capability. Also available in a 16-channel, 40K version for $1795.

Prototype Board
$ 63.00 Byte by Byte

Empty expansion board for developers.

RAM-BOard-1
$ 499.95 TechniSoft

No, it doesn't sweat a lot and shoot off machine guns, but it does have 2Mbytes of RAM and 3 slots for RAM-EXP-1 boards ($299.95 each) which have 2Mb of memory apiece. Rambo should have as many brain cells.

Screenshooter
$ 175.00 Professional Network Services

Everything you need except the film to take screen shots. Includes a Polaroid 600 camera, special lens, hood, and a bracket for a 35mm camera.

Side Arm
$ 949.00 Side Effects

6-slot expansion Zorro box with enough space for two half-height drives and enough power for two external drives. It can manage up to 8 Mb of RAM.

Side Store
$ 649.00 Side Effects

1 megabyte memory board with a RAMdisk. Claims to survive warm resets. A two megabyte version is available for $799.

Sonic 2 Extension Speakers
$:na Micro R & D

Pair of small, self-amplified stereo speakers for the Amiga. More bass than the Sonic 1 speakers.

ST 506
$ 399.00 Ameristar

Interface for up to four IBM-type hard drives.

StarBoard2
$ 495.00 MicroBotics

Up to 2 megabytes of fast RAM (available in half and one mega versions also). Optional MultiFuntion Module that includes a battery backed clock, parity logic, math chip socket and warm-reboot-survivable software write protection. An Upper Deck is available to provide sockets for 1Mb memory. Price quoted for 512K.

TimeSaver
$ 79.95 C Ltd.

Battery-backed realtime clock that attaches to the keyboard line and provides not only the time, but 8K of CMOS RAM to store macros and the like between computing sessions.

Turbo Chassis
$ 3675.00 Computer Systems Associates

This expansion unit adds a 68020 cpu and 68881 math co-proecssor to your Amiga, along with a 20-meg hard drive SCSI controller, and 512K RAM, depending on configuration you order. Price quoted is for minimum system. CSA claims this unit gives you 5x the power of a VAX 11

Universal Prototype Board
$ 49.00 Ameristar

Developer's bare board for expansion prototypes.

Xpander II
$:na Pacific Cypress

Pacific Cypress makes a variety of memory expansion boards ranging from 2 to 4 Mb priced from $499 to $799. Card box sits horizontally next to Amiga.

Amazing Computing
$ 2.50 Pim Publications ****

A small but mighty source of information about the Amiga. No color, not many illustrations, but lots of good reviews and articles. A good independent voice, and generally more informed than AmigaWorld, if not as nice-looking. Monthly. $24/yr. (-M.B.)

AmigaWorld
$ 3.95 CW Communications ****

A glossy bi-monthly Amiga magazine w/lots of nice color and Amiga art. The editorial content has improved lately, with more meat than earlier issues (their preview of the A2000 was almost as good as Byte's for tech specs). Some of the reviews even venture a critical remark or two lately! Good show, AmigaWorld! Keep up the good work. (-M.B.)

Ami Project
$ 3.00 Nortia ***+

A monthly Amiga-specific magazine. No color. Articles concentrate on the technical: C, Modula 2, Forth, etc. Good information for programmers! (-M.B.)

The Amigan
$ 24.00 The Amigans ,

A bimonthly newsletter of The Amigans user group. Focuses on the technical, system and operating tips, bug reports, etc. Lots of stuff in the first two issues on C, driving printers from the Amiga, etc. $24/yr. The full title is 'The Amigan Apprentice & Journeyman'. No advertising. An excellent resource. (-M.B.)

Sprite Chaser
$ 18.00 Amiga Users Group

Now claiming to be the largest Amiga Users Group in the country, with the usual amenities of club library, the 'Sprite Chaser' newsletter, etc. $18/yr.

COMPUTER TRIVIA

Lady Augusta Ada Lovelace, the first computer programmer, was an opium addict who died at the age of 36.

AMIGA BOOKS

Amiga Hardware Ref. Manual
$:na Addison-Wesley

Not the most user-friendly tome on the planet, but a necessity for developers. Part of the 'official' set of Amiga reference manuals.

Amiga Intuition Ref. Manual
$:na Addison-Wesley

RJ Mical's contribution to the official reference set.

Amiga Manuals
$ 29.95 Omega Star Software

AmigaDOS Manual and AmigaBASIC Manual.

Amiga Reference Manuals
$:na Addison-Wesley

Four volumes are currently available, covering AmigaDOS Intuition, and the ROM Kernal (in two volumes). These are the official Amiga manuals. None too user-friendly, but necessary.

Amiga Programmer's Handbook
$ 24.95 Sybex

Written by Eugene F. Mortimore, this book is a down-scale reference for the person who is interested in programming but doesn't want to spend the extra money for the full reference set.

Amiga Schematics
$ 24.95 Cardinal Software

Full schematics of the Amiga's electronic innards.

AmigaDOS Manual
$ 24.95 Bantam

2nd edition includes information on both 1.1 and 1.2 of AmigaDOS.

Deluxe Video Adv. User's Guid
$:na Electronic Arts

Available at no charge to registered owners of EA's Deluxe Video, this volume covers more advanced and more specialized techniques than the manual.

Graphics, Sound & Telecomm.
$ 18.95 Bantam

Full title is 'Amiga User's Guide to Graphics, Sound, and Telecommunications' written by Daniel Myers.

Microsoft BASIC Prog. Guide
$ 19.95 Scott, Foresman and Co.

For the beginning and intermediate level programmer.

The Amiga
$ 19.95 Microsoft Press

Written by Michael Boom, this book deals with graphics and sound in Amiga BASIC.

AMIGA MAGNETIC INFORMATION

Amiga Training Tapes
$ 40.00 Organic Productions

VHS or Beta video instruction with book and demo disk.

Geodesic Intergalactic Netwrk
$ 50.00 Geodesic

Price is for 3 issues of this bi-monthly mag-on-a-disk. CAD, 3D Artist Forum, Games, and Animation Tool Kits are features. Each disk contains a new 3D CAD with a geometric compiler, fractal terrain, and IFF read/write & animate. Geodesic Games reads in 3D objects from Geodesic files (see Triclops Invasion). Includes source code for a complete game in C and 68000 code.

Jumpdisk
$ 8.50 Jumpdisk

Magazine-on-a-disk. Each issue has at least 10 articles and 10 programs along with reviews and product news.

INFO Reader Mail

continued from pg. 74

COMPUSERVE

EasyPlex
Date: 19-Jan-87 21:02 CST
From: Peter Spradling [70356,247]
Subj: Jan/Feb 87 Editorial Online Cop
To: INFO 70215,1034

Your claims (about the Compuserve copyright policy--INFO Editorial #12) appear to be unnecessarily inflammatory and are inaccurate. The change in CIS copyright policy came about as a result of an individual who set up a subscription BBS for Mac users. In essence he said, "Don't bother to join CIS and pay their fees. Join my BBS and get the same material for only $25/year." Then he logged onto CIS once a week and downloaded virtually all new material from the MacUsers forum and data libraries and posted it to his board. He had a virtual copy of MACUS on his board. CIS claims a copyright over the total of the material on their system but individual copyright remains with the original authors. In other words, if one copies everything, it violates CIS copyright. If one copies some programs, one must only observe the restrictions for distribution placed on these programs by their writers. This was upheld in a court case arising out of the above example. One can copy individual programs from CIS for their own use and even use them to make money for themselves IF that does not violate the INDIVIDUAL AUTHOR'S copyright. This is not the old "How to Charge People For Air" ploy. CIS would cease to exist if people could rip it off in such a blatant fashion. You appear to be prejudiced against CIS because it is a large and successful business. It is providing us all with a service which we feel is valuable enough to pay for or it would not be successful. You owe your readers an apology for the perpetuation of a misunderstanding. Next time check the facts first. Generally INFO is a good magazine. I hope you will keep the caliber up to its past level. Pete

The policy you have just stated is not the same one that CompuServe spokesperson Rich Baker outlined in the November 1986 issue of **COMPUTE!** *(We have tried repeatedly to contact Mr. Baker, but he has not returned our calls.) What he said was pretty ambiguous, mostly*

continued on pg. 131

Alphabetical Index to Product Roundup Manufacturers & Vendors.

(M)agreeable Software
5925 Magnolia Ln.
Plymouth MN 55442
612-559-1108

A-Squared Systems
10 Skyway
Oakland CA 94619

A.J. Kwitowski
302 Euclid Ave.
Glassport PA 15045

Abacus Software
PO Box 7219
2201 Kalamazoo St. S.E.
Grand Rapids MI 49510
616-241-5510

Absoft
4268 N. Woodward
Royal Oak MI 48072
313-549-7111

Absolute Entertainment, I
PO Box 287
Midland Park NJ 07432
201-652-1227

Academy Computers
1720 Juan Tabo NE
Albuquerque NM 87112
505-296-4886

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PO Box 6277
San Rafael CA 94903
415-499-0850

Accelerated Software
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Scarborough ON m1k 5b9

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408-727-8520

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Woods Cross UT 84087
801-298-9077

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Cupertino CA 95014

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Setauket NY 11733
516-689-7722

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1140 Sparta Dr.
Lafayette CO 80026
303-665-9475

Action Soft
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P.O. Box 700702
San Jose CA 95170

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2902 San Pablo Ave.
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Advantage Users Group
191 Norma Ave.
PO Box 121
Brightwaters NY 11718

Aegis Development
2210 Wilshire Blvd.
Suite 277
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213-392-0735

AF Systems
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PO Box 18134
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409-833-2686

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Hauppauge NY 11788

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Kent OH 44240
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PO Box 58768
Houston TX 77258
713-480-1735

Amiga Users Group
PO Box 43167
Cherry Hill NJ 08034
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AmigaWorld
80 Pine Street
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Los Angeles CA 90046
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280 River Rd.
Suite 54A
Piscataway NJ 08854
210-540-9670

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213-204-5570

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818 795-6664

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St. Petersburg FL 33743

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415 498-7000

Diconix
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DMC Software
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Princeton NJ 08540
215-789-7008

Dr. Evil Laboratories
PO Box 190
St. Paul IN 47272

Dr. T's Music Software
66 Louise Rd.
Chestnut Hill MA 02147
617-244-6954

Dragon Group, Inc.
148 Poca Fork Rd.
Elkview WV 25071
304-965-5517

Dragon Magic Software
P.O. Box 490
Dublin OH 43017

Dreamrider Software, Inc.
970 N. Main St.
Crete IL 60417
312-672-4247

DRM Programs
1329 Arthur Ave.
Las Vegas NV 89101
702-457-9489

Drude Micro Services
PO Box 533
Cedar Falls IA 50613
319-277-5106

DSI
717 S. Emporia
Wichita KS 67211
316-264-6118

DynaComp
PO Box 18129
Rochester NY 14618
716-671-6160

Dynamax
22 Fifteenth St. NE
Washington DC 20002
202-546-2412

E+E DataComm
1230 Oakmead Pkwy.
Sunnyvale CA 94086
408-288-8880

Earthbound Software
237 Mead House
Burton Judson Courts
Chicago IL 60637

Eastern House
3239 Linda Dr.
Winston-Salem NC 27106
919-748-8446

Eastern Telecom, Inc.
9514 Brimton Drive
Orlando FL 32817
305-657-4355

ECI
541 Willamette St.
Eugene OR 97401
503-683-1154

Eclipse Data Management
1930 W. Glenoaks Blvd. #3
Glendale CA 91201
818-840-8757

Educational Systems
* Randy Carroll
1311 Page Ave.
Sutherlin OR 97479
503 459-1521

Eight Stars Software
2900 Boniface Pkwy.
Anchorage AK 99504
907 345-6109

Elcomp Publishing
2174 W. Foothill Blvd.
Upland CA 91786

Electronic Arts
1820 Gateway Dr.
San Mateo CA 94404
415-571-7171

Electronic Courseware Sys
1210 Lancaster Dr.
Champaign IL 61821
217-359-7099

Electronic Software Inc.
401 S. Woodward Suite 441
Birmingham MI 48011
313-258-5455

Elliam Associates
24000 Bessemer St.
Woodland Hills CA 91367
818-348-4278

Ellicott Creek Software
30 Chestnut Ridge Lane
Tonawanda NY 14150

Ellis Computing
5655 Riggins Ct. Suite #10
Reno NV 89502
702-827-3030

Emerald Computer (ECI)
541 Willamette St.
Eugene OR 97401

Emusoft
1400 Chicago Ave. Ste. 303
Evanston IL 60201
312-869-6676

En Route Books
6408 West College Dr.
Phoenix AZ 85033
602-846-6737

Engrsoft
1946 Holland Ln.
Wichita KS 67212
316-721-1598

Enlightenment, Inc.
1240 Sanchez St.
San Francisco CA 94114

Ensign Software
7337 Northview
Boise ID 83704
208-378-8086

Entrepo
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1277 Lawrence Station Rd
Sunnyvale CA 94086

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31407 Brown
Garden City MI 48135
313-280-2766

Epimetheus Corporation
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Berkley MI 48072
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Carson CA 90745
213-539-9140

Epyx
600 Galveston Drive
Redwood City CA 94063
415-366-0606

Everett/Charles Marketing
6101 Cherry Ave.
Fontana CA 92335
714-899-2521

F-Systems
PO Box 902
Casselberry FL 32707

F/22 Press
PO Box 141
Leonia NJ 07605
201-568-6250

Family Software
3164 Surrey Lane
Aston PA 19014
215-497-5561

Fastec, Inc.
PO Box 5129
Mobile AL 36605

Federal Hill Software
8134 Scotts Level Rd.
Baltimore MD 21208
301-521-4886

Felsina Software
3175 S.Hoover St.
Suite 275
Los Angeles CA 90007
213-747-8498

Film Production Toolkits
3114 Fifth St.
Santa Monica CA 90405
213-396-1199

Finally Software
4000 MacArthur Blvd.
Newport Beach CA 92663
714-854-4434

Firebird
PO Box 49
Ramsey NJ 07446
201 444-5700

First Byte
2845 Temple Ave.
Long Beach CA 90806
213-595-7006

First CAD
PO Box 261282
Denver CO 80226
303-781-8703

First Star
18 East 41st St.
New York NY 10017
212-532-4666

Firstline Software
PO Box 5297
Hopkins MN 55343
612-829-9411

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Daytona Beach FL 10270
904 253-6222

Fischer America
175 Route 46 W
Fairfield NJ 07006
201-227-9283

FlipTrack Learning System
999 Main / Suite 200
Glen Ellyn IL 60137
312-790-1117

Floppy House Software
20 S. Chestnut, Box 308
Palmyra PA 17078
717-838-8632

Foto-Wear
62 Herbert Dr.
East Brunswick NJ 08816
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Atlanta GA 30319

Free Spirit Software, Inc
538 S. Edgewood
LaGrange IL 60525
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415-960-0410

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620 Indian Spring ln.
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Gimpel Software
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154 Valley
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HC Software Australia
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Bloomfield Hills MI 48013
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Minneapolis MN 55441

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Kennewick WA 99336
509-783-3829

Interactive Video Systems
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La Mirada CA 90638
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Miami FL 33186

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Phoenix MD 21131
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Victoria BC V8X 1R 2

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Belmont CA 94002
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Jance Assoc.
PO Box 234
East Texas PA 18046
215-398-0434

Jason-Ranheim
1805 Industrial Dr.
Auburn CA 95603
916-823-3284

JB Horton
Box 2426
Bethlehem PA 18017
215-691-1147

JCT
1899 NW Hawthorne
Grants Pass OR 97526
503-474-0888

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Bloomington MN 55420
612-854-7793

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Garden Grove CA 92641
714-636-3378

JMH Software of Minnesota
7200 Hemlock Ln.
Maple Grove MN 55369
612-424-5464

John Henry Software
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Vandalia OH 45377
513-898-7660

Johnathon Freeman Designs
P.O. Box 880114
San Francisco CA 94188
415-822-8451

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Torrance CA 90501

Jumpdisk
1493 Mt. View Ave.
Chico CA 95926
916-343-7658

K-12 MicroMedia Publishin
6 Arrow Rd.
Ramsey NJ 07446

K.Boufal-Consulting Servi
244 Fitzwater St.
Philadelphia PA 19147
215-925-6469

Kaltek Labs
Adjuntas PR 00601
809-829-4220

Kamasoft
PO Box 5549
Aloha OR 97007
503-649-3765

Kastel Technology
621 Minna St.
San Francisco CA 94103
415-863-5636

KCS
655 John Muir Dr.
San Francisco CA 94321
415-239-5357

Kent Engineering & Design
4215 Jordan Rd.,
P.O. Box 178
Mottville NY 13119
315-685-8237

Ketek
PO Box 203
Oakdale IA 52319

Keypunch Software
1221 Pioneer Bldg.
St. Paul MN 55101
612-292-1490

KFS Software
1301 Seminole Blvd.
Largo FL 33540
813-584-2355

Kinemation
Four Winds Road
Peterborough NH 03458
603-924-6720

Kinetic Designs
P.O. Box 1646
Orange Park FL 32067

King Microware
Suite 210
5950 Cote des Neiges
Montreal PQ H3S 1Z6
514 737-9335

Kinney Software
121 N. Hampton Rd.
Donnelsville OH 45319

Kira Corp.
P.O. Box 129
Falls Church VA 22043
215-683-5699

KJ Computers
10815 Zelzah Ave.
Granada Hills CA 91344
818-366-5305

Kledzik Company
25605 Cielo Court
Valencia CA 91355
805-254-4720

Knight Software Ltd.
Central Village CT
203 564-4982

KNOW Technologies Inc.
9651 Alexandria Road
Richmond BC Can. v6x 1c6
604-270-0064

Knowledge Ware
2013 N.E. 55th Blvd.
Gainesville FL 32601
904-371-6523

Koala Technologies
269 Mt. Herman Rd.
Scotts Valley CA 95066
408-435-8883

Kobetek Systems
The Brewery
1496 Lower Water St.
Halifax NS b4n-3c4
902-405-1541

Korg USA
89 Frost St.
Westbury NY 11590
516-333-9100

Kracker Jax
PO Box 6216
Vancouver WA 98668
206-696-4956

Kraft
450 W. California Ave.
Vista CA 92083
619-724-7146

Krell Software
Flowerfield Bldg. 7
St. James NY 11780
516-584-7900

KSoft Co.
845 Wellner Rd.
Naperville IL 60540
312-961-1250

Kudzu Software
PO Box 993
Morrow GA 30260

Kurta Corp.
4610 S. 35th St.
Phoenix AZ 85040
602 276-5533

Kyan Software
1850 Union Street #183
San Francisco CA 94123
415-626-2080

L&L Music
3650 NW 37th St.
Ft. Lauderdale FL 33309
305-486-4799

Lakewood Associates
315A Chestnut St.
Needham MA 02192
617-322-2554

Lance Haffner Games
PO Box 100594
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615-242-2617

Latenite Software
PO Box 175
Plainfield IL 60544

Lattice
22 W. 600 Butterfield Rd.
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Glen Ellyn IL 60138
312 858-7950

Layton Berry Software
573 Merriewood Dr.
Lafayette CA 94549
415-284-7255

Lifeware
2318 Second Ave.
Seattle WA 98121
206-322-5454

Lincoln College
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300 Keokuk St.
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Lionheart
PO Box 329
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Liquid Light
2301 W. 205th St., Suite 106
Torrance CA 90501
213/618-0274

Lisp Company
430 Monterey Ave. #4
Los Gatos CA 95030

List Processing Software
7985 Remington Ridge Place
Colorado Springs CO 80919
303-594-6896

Lynn Computer Service
6831 W. 157th St.
Tinley Park IL 60477
312-429-1915

M&M Software
140 University Ave.
Palo Alto CA 94301
415-321-2722

M'Soft
12027 Pacific St.
Omaha NE 68154
402-334-7870

M. W. Ruth Co.
510 Rhode Island Ave.
Cherry Hill NJ 08002

Magnavox (NAP)
I-40 & Straw Plains Pike
(PO Box 14810)
Knoxville TN 37914
615 521 4316

Magnetic Music
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Rhinebeck NY 12572
914-677-8586

Mannesmann Tally
8301 S. 180th St.
Kent WA 98032
206-251-5500

Manx Software
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Marathon Software
PO Box 1349
Jacksonville TX 78766
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222 3rd St.
Cambridge MA 02142
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Marshalltown IA 50158
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Marshview Software
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8295 S. La Cienega Blvd.
Inglewood CA 90301
213-215-0355
Monte Lee Stark
PO Box 1813
Surprise AZ 85374
Moog Music
2500 Walden Ave.
Buffalo NY 14225
716-681-7200
MOrrison & DEMpsey Com
19209 Parthenia, Suite D
Northridge CA 91324
818-993-0195
Mountain View Press
PO Box 4656
Mountain View CA 94040
415-961-4103
Mountain Wizardry
9870 S.E. City View Dr.
Portland OR 97266
503-711-3307
Moustrak
3047 St. Helena Hwy
St. Helena CA 94574
707-963-8179
MSD Systems Inc.
10031 Monroe Dr.
Suite 312
Dallas TX 75229
214-357-8587
MusicData
8444 Wilshire Blvd.
Beverly Hills CA 90211
213-655-3580
Musicsoft
PO Box 274
Beekman NY 12570
Mystic Software Club
PO Box 453
Deer Park NY 11729
Myth Conceptions
111 New Canaan Avenue
Norwalk CT 06850
203-849-1011

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50 N. Pascack Rd.
Spring Valley NY 10977
n2 Computer Consultants
PO Box 2736
College Station TX 77841
409-696-1078
National Public Domain
1533 Avohill Dr.
Vista CA 92083
619-749-7534
Navarone
21109 Longeway Rd. Suite C
Sonora CA 95370
209 533-8349
NEC Home Electronics Inc
1255 Michael Drive
Wood Dale IL 60191
312-860-9500
Ned Schultz
1415 13th St.
Los Osos CA 93402
Netch Computer Products
PO Box 645
Monrovia CA 91016
818-334-1002
New Horizons Software
PO Box 43167
7806 Evaline Lane
Austin TX 78745
512-280-0319
NewArts
16783 Beach Blvd.
Huntington Beach CA 92647
NewTek
701 Jackson
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913 354-9332
Nikol & Company
2545 Bainbridge Blvd.
Chesapeake VA 23324
NIMBUS
637 Windmill Ranch Rd.
Olivenhain CA 92024
Nolo Press
950 Parker Street
Berkeley CA 94710
415-549-1976
Northeastern Software
7 Trap Falls Rd.
Shelton CT 06484
203-929-8522
Northwest Machine Special
3611 Joshua NE
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503-588-0008
Nortia
PO Box 285
Kent OH 44240
Novation, Inc.
Computer Resources
5680 S. Syracuse Cir.
Englewood CO 80111
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Nth Digit Solutions
3243 Arlington Ave. #195
Riverside CA 92506
213-941-3509
Nu-Age
2311 28th St. N.
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813-323-8389
Number Cruncher Stat Syst
865 E. 400th N.
Kaysville UT 84037
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Odesta
3186 Doolittle Dr.
Northbrook IL 60062
312 498-5615
Okidata
532 Fellowship Rd.
Mt. Laurel NJ 08054
609 235-2600
Olamic Systems
141 W. Jackson Blvd.
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312-786-1410
Omega Star Software
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Omnitronix
760 Harrison St.
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Orange Micro
1400 N. Lakeview Ave.
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Organic Productions
71 Fair st.
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Osborne/McGraw-Hill
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625 Miramontes St.
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PDS Sports
2807 Oregon Ct. #F-3
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1657 S.W. Knollbrook
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PeopleLink
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1112 Fort St.
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PlayNet
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Queue Inc.
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Lake Success NY 11042
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Coarsegold CA 93614
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Clearwater FL 33519
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Colorado Springs CO 80934
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Madison Heights MI 48071
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Suite B
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Brevard NC 28712
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Software Link
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Kenmore NY 12019
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Software Toolworks
One Toolworks Plaza
13557 Ventura Blvd.
Sherman Oaks CA 91423
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503-882-7110

SoftWood
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805-966-5884

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312-975-4030

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Sorcim
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Sound Professionals
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115 South Park
San Francisco CA 94107
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312 566-4647

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San Rafael CA 94903
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804-977-5245

Systems Management Ass.
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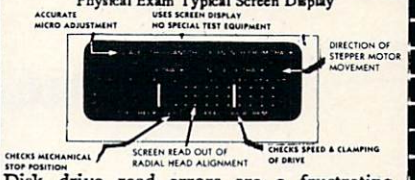

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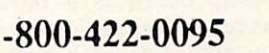

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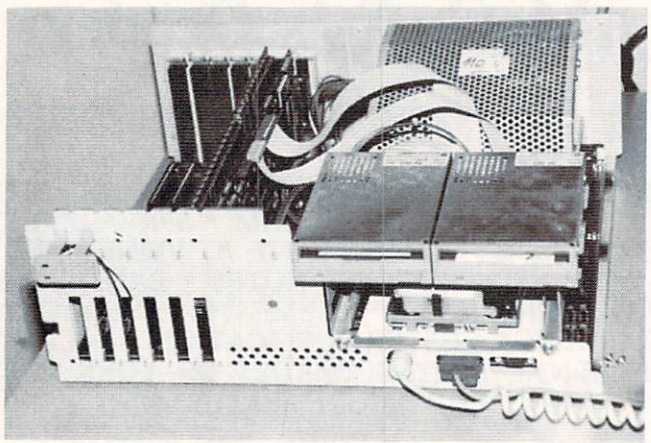
NEW AMIGA'S cont'd

continued from pg. 14

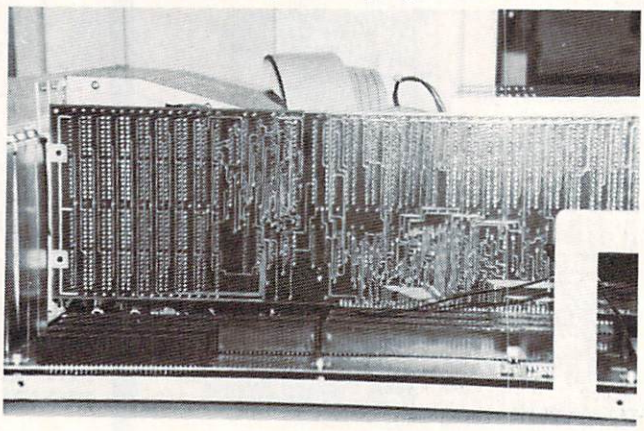
There are slots for everything in the 2000. There is a single video slot which will accept anything from a video digitizer card to a genlock card. The 2000 has the same built-in RGB analog and monochrome composite output connectors as the A500, but its video capabilities are almost limitless with the proper card installed in the video slot. Putting together a system with broadcast-quality video will be no problem on the A2000. Like the A500, there is no composite color video output jack, but a promised NTSC video card will offer much cleaner broadcast-quality video output for around $100. For those who are disappointed that the A2000 still uses interlaced 640x400 video, there is the possibility of eventually adding a non-interlace 640x400 or even higher resolution video card. For those who want more solid hi-res video now, Commodore will be selling a $500 long-persistence RGB analog monitor. This monitor will not be ready by the launch of the new machines, but should be available later this year.



A2000 seen from the front with cover removed.

The motherboard also features a dedicated cpu slot. This slot provides access to all the system cpu signals, and this is where you plug in a coprocessor board. Commodore has already demoed a 14 MHz 68020 board running in this slot. This board is a modification of Computer Software Associates' existing 68020 board which is now available as a part of their A1000 Turbo Amiga expander. CSA says that the plug-in A2000 version will be available from them at the time of the A2000's launch. The price will be $1480, the same as their current 68020 board. Also available from CSA at launch time will be two different 32-bit memory boards and a SCSI controller card.

The A2000 also has between 3 and 5 Amiga expansion slots, depending on how you use the system. (More on how this works in a moment.) These slots can be used for any Amiga expansion purpose, including additional memory (up to 9 megabytes total), adding hard disk drive controllers, etc. Commodore has a hard drive controller board capable of driving two ST-506 hard disk drives and up to seven SCSI drives. The board even has a Macintosh.Plus-compatible hard drive connector in addition to the standard SCSI connector so you can plug in Mac Plus hard drives off-the-shelf! The **A2094** hard drive controller board will be available at launch for around $350. Commodore will offer several memory expansion cards for the A2000 eventually, but at launch the only one available will be the **A2050** 2-megabyte card for $500. We expect enterprising third parties to modify their existing cards for the A2000 in short order. C Ltd, CSA, and others have indicated they are converting existing cards now, and have other A2000-specific projects in the works.



Lots of slots...

The 2000 also has a 3 to 4-slot IBM/XT-AT compatible buss, again depending on how you configure the system. Here's how it works:

There are actually 7 slots in the A2000. Two are IBM/PC-XT slots. These 2 slots also have the traces available on the PC board to convert them into IBM/PC-AT slots, but to do so you have to solder an additional connector onto each. Commodore says the slots were done this way because some PC/XT cards that Amiga 2000 owners might want to use hang down onto the pc board in such a way that they would be unusable if the AT connectors were included. As we said, if you need AT slots, you can easily solder the additional connectors onto the pc board traces.

Two of the PC slots are **bridge slots**. These slots cross over to two slots on the Amiga buss. Thus these two slots can be IBM/PC-XT slots, IBM/PC-AT slots (because they **do** have the AT connectors soldered in) or Amiga slots. If you plan to use the IBM/PC-XT capabilities of the A2000 at all, however, one of these two slots will be taken up with the *A2088 Bridge Card*. This card **must** occupy one of the two bridge slots, as it provides the only way of communicating with the IBM buss. Without a Bridge card, the Amiga is not even physically connected to the PC card buss.*** All connections are through the Bridge card; more on this card later. This leaves one bridge slot free, which can be occupied by another bridge-type application (as yet none have been specifically proposed), an IBM/PC-XT card, an IBM/PC-AT card, or an Amiga card.

Besides the two bridge slots, there are three Amiga-only expansion slots. To bring it all together, in an Amiga-only system you would have five Amiga expansion slots, and the PC expansion slots would be unused. With a Bridge card installed, you would have three Amiga slots, one bridge slot occupied by the A2088, two IBM/PC-XT slots (upgradable to AT slots with additional connectors soldered in), and one slot that could be used as an IBM/PC-XT, IBM/PC-AT, Amiga, or bridge slot. Is that clear? Don't worry, it confuses almost everyone. Suffice it to say that this is one very versatile system.

THE BRIDGE CARD

The $500 Bridge card is essentially an IBM/PC-XT on-a-card. It contains a 4.77 MHz 8088 cpu chip, an empty socket for an 8087 math co-processor chip, 512K of IBM/PC memory, 128K of scratchpad, display, and dual-port RAM, VLSI communications and control chips, a floppy disk controller chip, and the Janus operating system in ROM. Though it has been widely demoed with version 2.x of MS-DOS, Commodore says the board will ship with MS-DOS version 3.2. The operating system not only supports full IBM/PC-XT operation, but communications between the PC and the Amiga sides of the A2000. The technology is similar to Amiga's Sidecar, but is more sophisticated. Among other things, it allows the PC side to access the Amiga's parallel port and keyboard, output to Amiga windows in monochrome and color graphics mode simultaneously, and even share a partitioned IBM/PC hard disk with the Amiga side of the machine. With 20-meg IBM hardcards selling below $400, adding a bridge card for $500 and a hardcard comes out as one of the least expensive ways of adding a hard disk drive to an Amiga system. (A properly partitioned IBM hardcard appears as device **JH0:** to AmigaDOS. The "J" stands for "Janus", after the two-faced Roman god.)

The PC video output is interesting in that monochrome and color displays are supported simultaneously. Though the Bridge card is not multitasking, and can run only one application at a time, some software such as Lotus 1-2-3 can use both screens simultaneously. Lotus can display a spreadsheet in the monochrome screen and a graph in the color screen, for example. Each PC screen resides in an independent window on the Amiga display screen, and each can be sized or scrolled to view the entire PC screen. Clicking on the window will expand it to full screen size without borders.

Among the Janus operating system's capabilities is the ability to cut and paste text back and forth between PC and Amiga applications using the Amiga's clipboard device. The operating system includes primitives that will allow programmers to implement much more sophisticated applications, such as piping output between programs, or even using the 8088 as a dedicated co-processor for Amiga applications without having to boot MS-DOS. The support routines for such applications are included in libraries on the boot disk.

The system is powerful, but it has a few limitations. Booting up the system is said to take almost two minutes, since the boot software must run through auto-configuration tasks for all the cards in the PC and Amiga sides of the machine. This is a one-time annoyance on power-up, and should be no big deal. The PC's paltry sound output is not implemented (no great loss here). A more serious limitation is the PC's inability to access the Amiga mouse or serial ports. Software drivers are under

development to overcome these limitations, but in the meantime anyone wishing to do telecommunications with the PC side will need to invest in a PC-side serial or modem card.

If you are not thrilled by the prospect of an IBM/PC-XT system, with its relatively slow system speed and limited memory, and want the advantages of an AT-compatible PC, Commodore says they are working on an **A2286** card, which will offer AT-compatibility with an 80286 cpu. The availability date is uncertain. In the meantime, there is always the prospect of adding an 80286 accelerator card to the PC buss. In fact, an A2000 with a 68020 card, 8088-equipped Bridge Card, and an 80286 accelerator board would give you access to **four** powerful 16/32 bit cpus, which should satisfy even the most jaded microcomputer power user!

CONCLUSIONS

Both of the new Amigas look good. The A500 breaks the price/performance barrier that stood between the A1000 and the masses. It offers an operating system in ROM, a built-in drive, an improved keyboard, a full 512K of RAM expandable to 1 meg internally, and both RGB and monochrome outputs. The reversal of the expansion buss is unfortunate, but I don't see how it could have been avoided given the physical layout of the machine, and I doubt that many users will need to even use it since the 500 can have a full meg of RAM internally. And at least it's there! At a probable street price of $595 or less, I think Commodore will sell trainloads of A500s, and that can only be good. Even those who already have A1000s will benefit from the added software development that such sales will generate.

For $1495 the A2000 is the computing bargain of the century. Fully expandable to just short of a Cray II, the 2000 should satisfy all the power users who just weren't convinced that the A1000 was a powerful enough machine for them. With its potential for PC compatibility, many corporate and university buyers will now be allowed to buy the A2000, since many of them are constrained by internal policies to purchasing PCs or PC clones. This is a tremendous marketing advantage that should get the A2000 into almost every niche of the computer marketplace. Though it does nothing more than the A1000 does when you first take it out of the box, its open architecture and expandability make this a machine that will not become obsolete until well after the turn of the century...and maybe never! Even though there are those who will complain that the A2000 should have had a 68010 or even a 68020 cpu, or non-interlace 640x400 video, or a full meg of chip RAM, or whatever, we think the wisdom of the 100%-compatible upgrade path will prove itself. And the video and cpu slots ensure that the end user can add these capabilities himself if he needs them. That is the beauty of the A2000; it can be a machine for absolutely everybody!

FOOTNOTES

*The original West German design of the A2000 included only 512K of RAM standard. The Pennsylvania design has 1 megabyte. The units that have been demoed so far are West German machines with an additional 512K of true fast RAM installed in the cpu slot. By the time the A2000 ships to American markets in late April or May, all the units that reach retail stores **should be US-designed units with the additional 512K of** *Half-Fast RAM* on the motherboard and the cpu slot free. Still, if you are planning on purchasing an early A2000 we'd advise you to check and make sure the cpu slot is empty. If not, you will not be able to add a co-processor board later without sacrificing 512K of RAM.

** The Commodore logo is also prominently displayed on the nameplate of each machine. The A500 has a tag similar to the C128 nameplate directly below its deeply-etched AMIGA. The A2000 nameplate subtly declares

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itself to be the "Commodore Amiga 2000". It looks like Commodore is no longer concerned about its "toy image" hurting the Amiga. To which we can only add: it's about time!

*** There is absolutely nothing dictating that the IBM/PC buss has to be used as an IBM/PC, since the pins are not dedicated to specific functions (except for power and ground) until the bridge card is plugged in. With a custom bridge card and the proper adapters, the buss could potentially be used for Mac Plus cards, Apple II cards, or even a custom applications system. The possibilities are limited only by the imagination of the user. This "generic buss" may provide almost infinite staying power for the A2000. Now let's see: is there a Cray II buss standard?

EPITAPH

With the triumphant debut of Commodore's new Amigas, it is only fitting that we observe a moment of silence for the demise of the birthplace of the Amiga. With the March 31 closing of the Amiga plant in Los Gatos and the complete transfer of Amiga development to teams in West Chester and West Germany, the last of those who had the original Amiga dream are gone from Commodore's ranks.

Such things happen often in business. The dreamers fall by the wayside and the marketing men and accountants take over. We must try to remember that without black ink on the bottom line, the dreams don't become reality at all. We only hope that those who remain to sell the machine that the dreamers created will retain a little bit of the dream in themselves. And we hope that the dreamers can derive some satisfaction from knowing that a part of their dream became reality, and that people are sharing in it.

noises about "protecting the work that is on CompuServe for the benefit of our customers" and such. But he did make it clear that CIS does NOT want to lose any money on downloads, and that anyone who wants to distribute ANYTHING downloaded from CIS has to make written application to them first to get permission. The truth of the matter is that CIS doesn't own those PD programs, and to claim copyright on them is ludicrous. And since the programs on CIS are in the public domain, then the guy who was downloading them (and paying CIS $6.00 a hour to do it just like everyone else) and passing them along to the public cheaper is an ENTREPRENEUR, not a thief. Nobody was paid or contracted to produce those programs for CompuServe. If CompuServe's claim is valid then they could also claim that if the Constitution of the United States were uploaded to their system (since it is also in the public domain) then CIS could copyright it. It's absurd. -Mark & Benn

U.S. MAIL

Dear INFO,

I just wanted to say that the Amiga has, indeed, appeared on "Miami Vice". Being a fan of the show and the computer gave me some incentive to keep an eye out for its debut after reading in INFO that it would appear on the show. I have seen it twice. The first appearance and easiest to spot is the episode which uses a Jai-ali tournament as a backdrop. The Amiga is shown in the office of a fellow law enforcement officer. In another episode Crockett and Tubbs are shown using one, but it is not it's best angle.

Johnny C. Kitchens
Arlington TX

Thanks Johnny, for resolving that burning question for us. We missed it, but maybe we'll spot it in the reruns. -Mark & Benn

INFO News & Views

WHAT SLUMP?

Betty Taylor, Executive Editor of the ever-vigilent *Computer and Software News* trade newspaper, writing in a recent C&SN editorial, got downright incensed at the mainstream press's insistence that there is a "slump" in the personal computer industry. She rightly pointed out that the only thing that's down in the computer industry is *the rate of growth.* She says that most experts are predicting a 7-9% growth rate in the personal computing market in 1987. She compares this to a 2% decrease in defense spending (called a "slowdown") and a 3% drop in the auto industry, referred to as a "slippage" by *BusinessWeek* magazine. If a 2% decrease is a "slowdown", and a 3% drop is a "slippage", how can a 9% growth be a "slump"? I hope the folks at *BusinessWeek* read the *Computer and Software News.*

RIP

Many fine companies have bowed out of the biz since our last RoundUp six months ago. Among those who have disappeared from the listings are:

The Micro Forge
Tecmar (quit making Amiga products)
The Guide To Computer Living
Digital Engineering (which briefly made a C64 video digitizer)
Datamost
Quicksilva
FS! Software (formerly French Silk)
United Microware (makers of Motor Mania)
Hippo Software
Software Group (Commodore has decided not to release the Group-developed Enable series for the Amiga)

Our best to all the employees of these companies as they seek their fortunes elsewhere.

ACQUIRED

Besides all the failures and foldings there are always a few companies which manage to get taken over by other companies, or at least sign "exclusive distribution agreements" with them. Among those to do so in the last few months are:

Sierra On Line, whose products are now distributed by Electronic Arts
Game Designers Workshop, now a part of EA's "Affiliated Labels" program.
Handic, whose products are now distributed in the U.S. by Scan-Am.
Lattice, publishers of C for the Amiga, has been acquired by its IBM mainframe licensee SAS Institute (which just goes to show you where the real software money is made).
Creative Software, acquired by Activision.
Batteries Included, purchased by EA.

THEY HAVE TROUBLES, TOO

Lest you think Commodore computers are the only ones with problems, consider these facts:

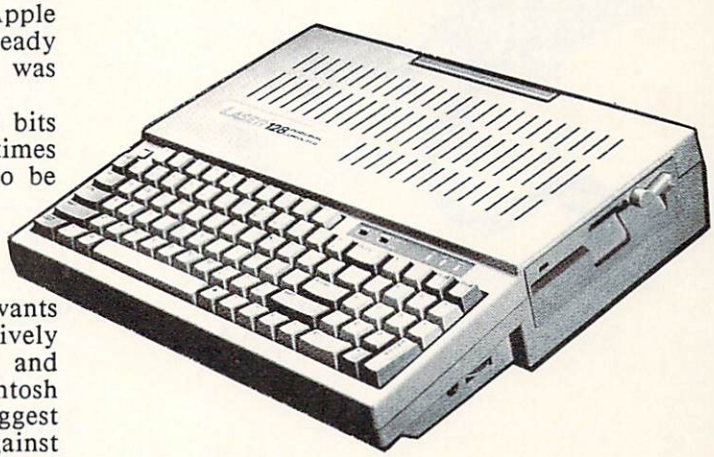
Early models of the IBM/PC had ROM bugs that resulted in a completely wrong answer anytime you multiplied two numbers together.

Some Macintosh users groups report up to 1/3 of their members burning out power supplies. The problem? A 125 degree F internal operating temperature and no fan.

Even the most diehard Apple experts are calling Apple's claim of "90%" IIGS compatibility with IIe software a "pipe dream". There are considerable problems even running AppleWorks, the most popular Apple IIe program.

The IIGS also had chip bugs that resulted in random images appearing on the video screen. Apple waited until the first batch of machines had already been shipped to correct the problem because it was "just a cosmetic defect".

Atari ST BASIC stores numbers in just sixteen bits internally, so internal rounding errors oftentimes cause a PEEK or POKE to a memory location to be off by a considerable margin.



LASER 128 SUIT

As Jimmy Durante used to say, "Everybody wants to get into the act!" Apple Computer has aggressively fought to keep competitors from making and marketing clones of their Apple II and Macintosh computer lines for years. One of their biggest settlements was a $2.5 million judgement against Franklin Computers, until recently the most visible of the Apple II clonemakers. Apple also has action pending against Video Technology Computers, marketers of the inexpensive Laser 128 Apple IIe/c clone. In a surprising turnaround, Franklin has now also filed suit against Video Technology, claiming that the Laser 128 ROM also violates *their* patents and copyrights. The suit awaits its final outcome; sales of the Laser 128 are so strong that it continues to be in very short supply.

In the meantime, Commodore is selling their computers so inexpensively that nobody can afford to clone them.

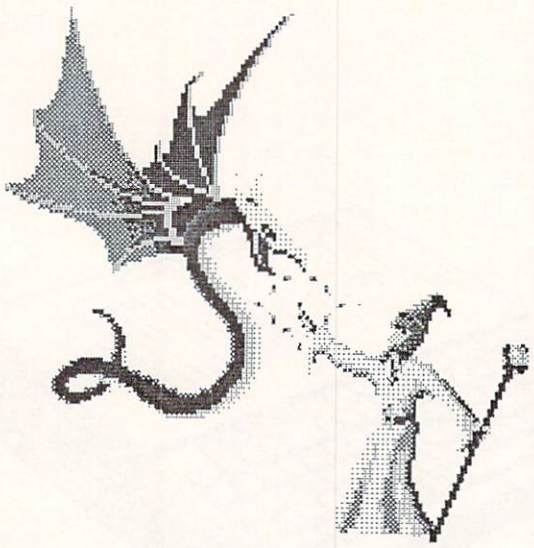
COMMODORE STOCK HIGHER

Wall Street is expressing new confidence in Commodore; CBM stock was up to $13.00 a share in late January, compared to a low of $4.75 last year. The 30-day price trend was two and a half times greater than the rise in Apple stock prices over the same period, a month in which IBM stock *fell*. (If you'd listened to us last spring, you might be a millionaire now!)

continued

LOCK STEPS DOWN

Robert Lock, longtime Editor-in-Chief and "Founder" of *COMPUTE!* and *COMPUTE!'s Gazette*, has turned over the helm of those two magazines to former Senior Editor Richard Mansfield. Lock will continue serving Compute! Publications in some unspecified capacity.



NEW FOR ADVENTURERS

A couple of interesting items have crossed my desk recently that will be of interest to diehard adventure gamers.

Questbusters is a well-established monthly newsletter for computer adventure gamers. The latest issue contains twelve pages of hints, tips, and reviews of computer adventures. $16/yr from: Questbusters, 202 Elgin Ct., Wayne PA 19087.

Dr. Evil Laboratories (that's the name, honest!) is comprised of a group of enterprising college students who have developed an adventure authoring system for the C64 called **Imagery!** For a measly ten bucks you get the adventuring system, a manual, a sample adventure game, and a one-year subscription to their quarterly newsletter, **The Image**. Send your money to Imagination, PO Box 190, St. Paul IN 47272.

MSD GUIDE

David Martin has come out with a reference guide for the mostly-orphaned MSD disk drives. **The MSD Reference Guide** is $20, a companion disk $6 more (include $3 shpg.) from David W. Martin, 1417 S. Heron Dr., Seabrook TX 77586.

ATARI PC CLONES?

Atari announced two powerful, low-cost IBM/PC clones at the recent CES show in Las Vegas. They said the units would be "shipping in March", but now it seems that they won't be officially available until "about August". It turns out that Atari has not yet negotiated a license with Digital Research for the GEM operating system they said they'd be shipping with the clones. Worse, they haven't applied for FCC approval, a process that can take months. Some Atari insiders are even saying that the machines don't exist at all, which has led many analysts to call the clones "vaporware".

Industry speculation is that Atari's main motive in announcing the clones at CES was to hurt Commodore's announcement of its PC-10-1 and PC-10-2 IBM/PC-XT clones. Atari's dealers are extremely upset about the delay, claiming that the announcement ironically hurt sales of Atari's own ST computers.

3RD PARTY GEOS SUPPORT

Despite Berkeley's claims that "many" third parties are developing GEOS applications, we've only seen four GEOS products from third parties so far, and two of those are books.

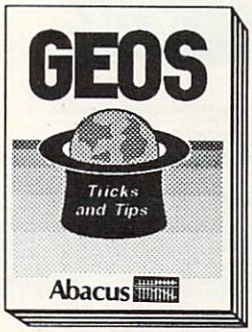
Abacus is selling a $19.95 German volume called **GEOS Inside and Out**, and promises another tome called **GEOS Tricks and Tips** Real Soon Now.

How To Get The Most Out Of GEOS from Midnite Press features routines for graphics and text file conversions. It is $14.95 and has a companion disk available for $9.95.

Bantam's official **GEOS Programmers Guide** is now out. $19.95 for this all-machine-language reference work.

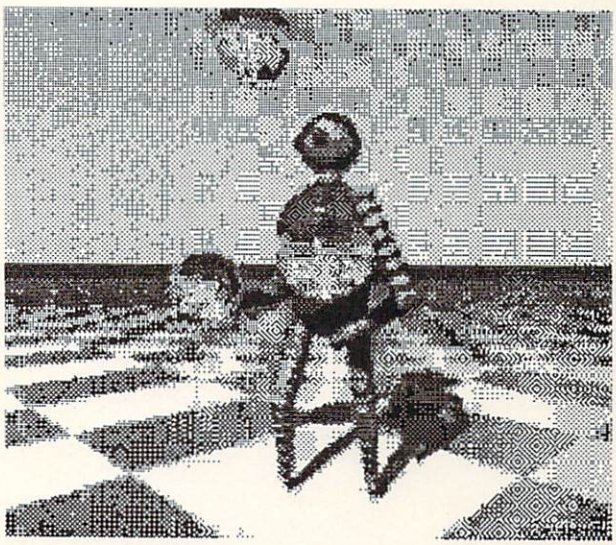
All three volumes cover GEOS only through version 1.2.

The only stand-alone GEOS application we've seen so far is a disk from Myth Conceptions containing two utilities, **GeoFont** and **The Pattern Editor**, for $19.95. The first is a versatile font editor, and the pattern editor runs as a desk accessory so you can call it up and interactively edit fill patterns from within GeoPaint. Very handy!



MORE AMIGA PD

Last time we reported on some excellent PD software available from Chiron Conceptions. The latest batch of disks from Chiron includes even more goodies, such as the fantastic **Juggler** 3D graphics demo. You've probably seen this at your dealer by now. It's the most mind-blowing piece of animation we've ever seen on any personal computer. Also in the latest batch was a PD **Modula 2 Compiler**, yet another **Mandelbrot Generator**, this one by Tom Wilcox, with excellent color controls and exceptionally clear detail, more tutorials and games, and Jay Miner's IFF slides diagramming the internals of the Amiga. At $5.95 each, these are an *excellent* value, and much cheaper than downloading the same stuff.



MIMIC SPARTAN UPDATE

In response to our review and feedback from endusers, Mimic Systems has stopped shipping the **Spartan** Apple II emulator with the "Frankenstein" drive board. That board, which converted a 1541 into a pseudo-Apple drive, was the weak link in an otherwise surprisingly adequate system. They are now shipping the Spartan with an Apple-compatible drive instead, and have managed to do so with only a minimal $30 price increase. The Spartan with drive is $329.95.

NEW MACS

Apple will have two new Macs on the market soon. About the time you read this they will be releasing the **Macintosh SE**, which is essentially a 10% faster Mac Plus with a new mouse, new keyboard, and an outboard connector for an external monitor so you can have a display large enough to actually see. There are rumors that Apple has built color support into the new ROMs, but will not supply the unit with a color monitor. It will have an IBM/PC-XT add-on board as an option. The **Macintosh II**, slated for April release, is the long-awaited open-architecture Mac, with a large box and slots. It will have an optional IBM/PC-AT add-on board and optional RGB color capability.

BALLY/AMIGA DEAL

In a move destined to vastly improve the Amiga's image in the microcomputer industry, Commodore has inked a deal with Bally Manu-facturing to provide Amiga graphics technology for the next generation of commercial coin-op videogames. Chicago-based Bally is the premier U.S. producer of quality videogames and video gambling machines.

Commodore will supply Amiga-based proprie-tary graphics boards and technical assistance to Bally. In return, Commodore/Amiga will obtain computer software license rights to the games that Bally produces.

Bally's CEO Roger Keesee says, "The Amiga system...will permit us to build a wide range of products having outstanding graphics capabili-ties."

Bally introduced their first Amiga-technology videogame, **Moonquake**, at the Amusement Coin Expo in New Orleans the third week of March.

NICE TITLE

I haven't seen the game, but **Political B.S.** gets my vote for best game title so far this year. Believe it or not, this is an educational game, with over 1000 questions based on the U.S. Constitution. B.S.(which stands for Bureaucratic System) is for the C64. $19.95 from Free Spirit Software.

COMMODORE IN THE HOME

In spite of Commodore's lack of promotion, one in four homes with a personal computer still own a Commodore. Despite Atari's recent push with both 8-bit and 16-bit machines, the influx of inexpensive IBM/PC clones, and Apple's introduction of new models of the Macintosh and Apple II, Commodore is still outselling any other brand in the home market.

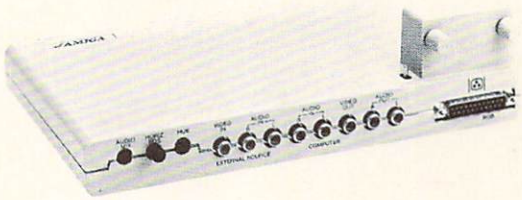
LOS GATOS CLOSING

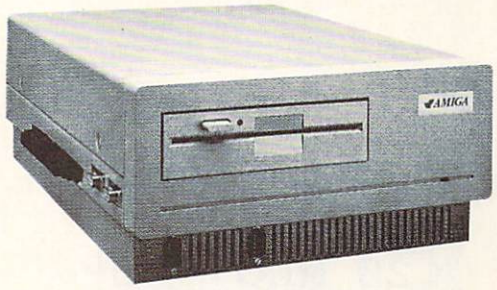
When the lease is up on the Amiga plant in Los Gatos the end of March, Commodore-Amiga will close its doors in California. It marks the end of the West Coast Amiga era, and signals the departure of (almost?) everyone involved in the development of the original Amiga personal computer. The work on new Amigas and Amiga peripherals will be taken over completely by engineers in West Chester PA and in West Germany.

GENLOCK, SIDECAR, ET. AL.

The latest poop is that the **Genlock** is now available in limited quantities for a suggested retail of $195. No **Sidecars** on the street as of this writing, though Commodore says all the paperwork is back from the FCC. The current story is that the Sidecar software is being updated to the same version as that included with the new A2000, which has the Sidecar built in. Contacts at Commodore say that the A2000 will debut before the U.S. Sidecar.

On the C64 front, there are still no **1764** RAM expanders available at presstime, though we finally found a **1351** mouse locally.





68010 UPGRADE FOR AMIGA

The only thing keeping you from plugging a 68010 chip into your Amiga's 68000 socket (thus achieving an 8%-50% increase in speed, depending on the application) is a single instruction that is implemented differently on the 68010. Fortunately, versions of the Amiga operating system since V1.1 directly support the 68010 and cirumvent the problem. If you are interested in making the modification yourself, we suggest you check in with the appropriate Amiga guru at your local Amiga users' group, or at least get on the networks and ask advice. Good luck!

DALTON PULLS SOFTWARE

B. Dalton Booksellers, one of the first chain stores to install software racks alongside bookracks, is phasing software sales out of their regular bookstores. B. Dalton, like many other businesses, has been acquired by another company. That company, which was formed specifically for the purpose of acquiring B. Dalton, is owned in part by the large book publisher Barnes & Noble, and they want B. Dalton "to go with more of a bookstore concept". B. Dalton's associated Software Etc. stores will not be effected by the change in policy, but the change will result in the loss of about 400 software racks nationwide.

1571/C128 ROM UPGRADES

Right before Christmas Commodore released a major revision of the ROM chipsets for the C128 and 1571 disk drive. These ROMs will be going into new production models of these machines, and we assume that anyone with the right contacts will be able to obtain upgrade ROMs from Commodore Service.

The C128 ROMs must be replaced as a complete set. They include fixes for many problems in the operating system. BASIC 7.0 LIST, DELETE, RENUMBER, PLAY, PRINT USING, DOPEN, and other commands have been fixed to one degree or another. There is also a relatively major update to the way DMA is handled, which may be of importance to those who are planning on using the 1750 or 1700 RAM expanders. You can easily tell if your C128 has the new ROMs; the powerup copyright notice says 1986 instead of 1985.

The 1571 ROM upgrade fixes the save-with-replace bug (finally!), BAM problems, REL file problems (including the side 2 bug), the 1541-mode verify double-sided flag bug, burst load of locked files, and other problems. To identify this one, you may have to peek drive RAM location $C000, which is $D3 in the new ROM.

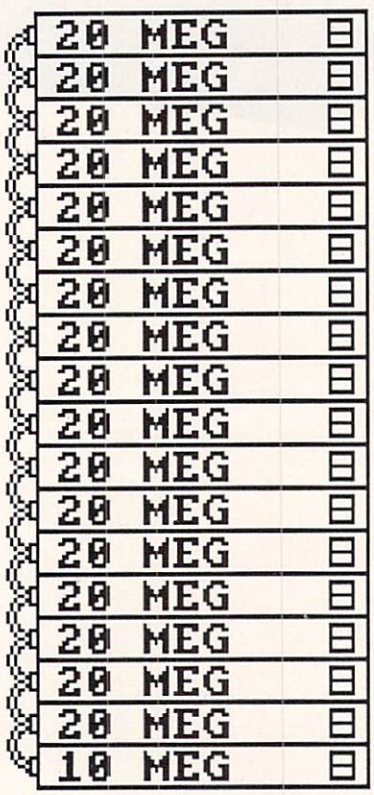
If you are getting good performance from your C128 and 1571 now, there is really no reason to seek out replacement ROMs for your machines. But if you are having problems, by all means obtain replacement chips. We'd say from a look at the technical specs of the new chips that the 1571 ROM replacement will be of more lasting consequence than a C128 ROM upgrade. If you are contemplating buying a new C128 or 1571, you might want to run the tests we mentioned to make sure the unit you buy has the latest ROMs.

GRAPHICS FOR C128

New C128 titles are coming in steadily, if slowly, now, but Micro Aided Designs have come up with the fist title we've seen that actually *requires* a C128 equipped with a 1750 RAM expander. This ambitious work is called **Technological Highbred Integrated System**, which creates the handy acronymn T.H.I.S. This lightpen-driven graphics/CAD/animation system is loaded with features. See the Product Roundup for details.

POWER STORAGE

For all of you incredible power users who feel restricted by mere 20 or 40 meg hard drives, C. Ltd has announced the availability of a 350 megabyte hard drive for the Amiga. The price is $6999.95, which is a lot of bread, but it works out to only $20/megabyte.



CES CHICAGO

The Consumer Electronics Show in Chicago always offers something of interest for Commodore computer owners. In spite of its name, this show is for dealers and distributors only. If you fit that description, the show this year is from May 30 through June 2 at Chicago's McCormick Place. The computers will be in the new McCormick North exhibition hall. Call 202-457-8700 for more info.

SPRING COMDEX

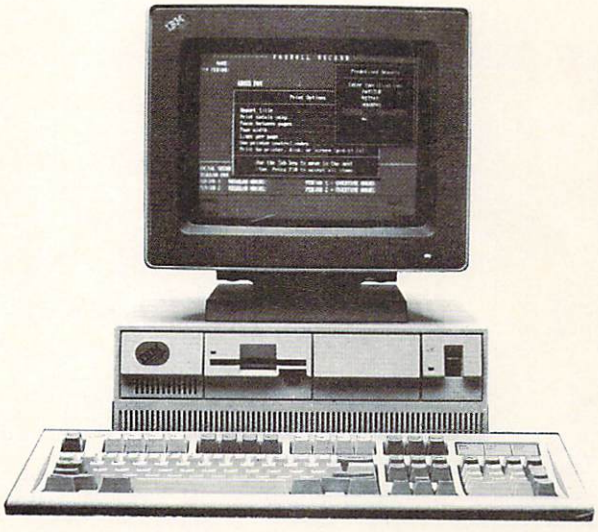
The spring Comdex show will overlap the CES show this year, which means that most manufacturers and showgoers will have to decide which show they want to attend. Comdex, which is much more business oriented than CES, will be held from June 1-4 in Atlanta. For more info, call 617-449-6600.

NEW IBM UNCLONEABLE?

IBM's new 80386-based personal computer might be based on new proprietory LSI Intel chips and a totally new operating system that will be upwardly file-compatible (but not program-compatible) with MS-DOS. This approach will make the new machines legally immune to cloning. The reason behind the change is that as of last year, the clonemakers moved ahead of IBM in PC sales, and are now as a group selling many more IBM-compatible machines than IBM is.

IBM has already fallen technologically behind the clonemakers in many areas. Some companies are offering advanced graphics capabilities, faster operating systems, and integral hard drives for less than the price of a standard IBM/PC. Some clonemakers have even jumped the gun on IBM and introduced MS-DOS machines that already incorporate the more powerful 80386 Intel cpu chip.

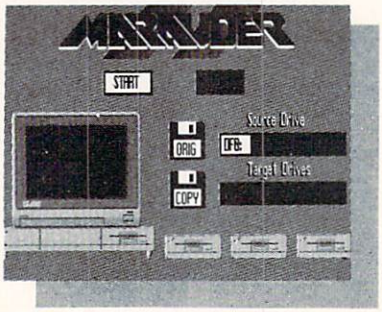
Many industry watchers say that the rumors of incompatibility are unlikely, and that IBM's new machines will still be MS-DOS compatible, but if the rumored incompatibility is true we have to ask: Who's going to buy them?



CAMARADERIE

Our hats are off to Electronic Arts. The first issue of their house magazine, **Deluxe News**, included plenty of articles about their own products, but also had features on *NewTek*'s **Digi-View** and **Digi-Paint** and *Mimetic*'s **Soundscape** series. These products can be used in conjunction with EA's products to give the user enhanced capabilities, and it's refreshing to see a company of EA's stature unafraid to send some consumer dollars the way of the competition.

DELUXE NEWS



MARAUDER II

If you own an Amiga and don't have Marauder II from Discovery, you don't have one of the best tools an Amiga owner can have. It backs up all the Amiga titles to date in record time, and Discovery promises inexpensive updates to keep the program current. It's easy to use, powerful, and inexpensive ($39.95), and is not copy-protected itself (though it is random keyword protected). This is Good stuff!

THINGS WE'D LIKE TO SEE

--> This time, here are some Things We'd Like To See for Amiga Paint programs, most of which are features already incorporated into some of the best C64 paint programs:

(1) An object grab function like the one on **Picasso's Revenge** for the C64. Grabbing objects just by clicking on them is much handier than outlining them.

(2) A smoothing optimizer like the one in **Billboard Maker**. When enlarging a brush, this would smooth out the "jaggies".

(3) Text reformatting as in **GEOpaint**. When you resize the text area, the text reformats to fit it. What a great feature!

(4) Erase to edges like the Erase feature in **Doodle!**. This one is great for "hollowing out" filled shapes so you can recolor or pattern fill them. And repeating the process gives you a great "Op Art" effect!

When you think about it, it's really amazing to see these functions from popular C64 paint programs not yet implemented on the Amiga. (And while adding these features, how about adding the ability to read downloaded Macintosh and Atari ST picture files? And why not include a set of standard PMS color palettes for those of us who want to do real-world printing and publishing color artwork?)

--> How about a **Space Invaders** type shoot-em-up game for the C64 and/or Amiga with a built-in Object Editor so you could blast the Frustrating Object or Personage of your choice? Blast Happy Faces to bits! Vaporize Smurfs! Shoot favorite politicians down in flames! What a great tension reliever that would be--Bring On the Ayatollah!

From the streets and back alleys, the darkened smoke-filled rooms, and the hidden byways and backroads of Commodoredom, here are the latest **rumors**...

--> Commodore is said to have many internally-developed programs on hand that they are not going to sell. The major impediments seem to be time, money, and manpower to get the titles produced and out the door. Among the casualties is a C128 assembler/development system called **DevPak**, written by Fred Bowen and Hedley Davis, two of the powers behind the C128's operating system.
--> We keep hearing about a ROM for the C128 called the **Walrus**. It's said to be the BASIC 8.0 extension ROM, and is supposed to fit into the famous empty internal socket. To be available soon from a third party company...
--> Folks are speculating that the **Fat Agnes** chip in the new A500 and A2000 (which is in a square 80-pin package) *could be upgraded pretty easily to address a full megabyte of chip RAM* for graphics and sound. The meg in the A2000 and the 512K internal expansion RAM pak in the A500 actually occupy the correct addresses for additional chip RAM. How soon for a chip redesign? Probably not for quite awhile.
--> **AmigaWorld** magazine is said to be going monthly this Fall *provided the number of Amiga owners out there justifies it.*
--> Acceptance of Commodore's **Transformer** IBM/PC emulator software has been so disappointing that they are "de-emphasizing" it and may not even ship it with future 5.25" Amiga drives. There is a chance that *they may even okay the release of the software into the public domain.*
--> Commodore is said to have responded to Atari's inexpensive IBM/PC clone by showing a 'cheap clone' of their own at the West German Hanover Faire. The **PC-1** is said to offer two-speed 8088 processing, DOS 3.2, a single 5.25" drive, EGA graphics capability, built-in serial and parallel ports and more for only $595.

TRUE FACTS

Just the facts, Ma'am.....

--> *Commodore is closing down the original Amiga facility at Los Gatos.* The staff had already been pared down to a skeleton crew. The doors close the end of March.
--> Burned into the A2000's main board is the slogan: **The Few, The Proud, The Remaining.** followed by the initials of the entire development staff still employed by Commodore. The model number on the prototype board is 2500, but it will say 2000 on the final release board.
--> The A500 board has the cryptic phrase **Rock Lobster** etched among its traces. This machine had the working name of **B-52**, and "Rock Lobster" is a song by the group the B-52s.
--> *Commodore has licensed the rights to the* **Postscript** *page description language.* They are more concerned with being able to sublicense Postscript to software developers for the Amiga than in producing a laser printer of their own, though that would certainly seem to be an additional possibility.
--> Atari's newly announced and as-yet-unavailable laser printer will have no brain of its own, which is how they will come up with a price tag of $1500. It will be driven by the ST, and since the ST is not multitasking, printing will be a stand-alone task which will take over the machine until it's done.

WINTER CES REPORT

WINTER CES

In January all the excitement was in Las Vegas, the site of the Winter Consumer Electronics Show. Nestled between the neon and the slot machines, the shows and the showgirls, were all the latest and greatest computerized electronic gizmos--beeping, flashing, and hoping to capture the attention of retailers, wholesalers, and the press.

There have been bigger and better CES shows for home computing in the past, but this one featured many new and exciting products of interest to Commodore computerists. If anything, the Commodore excitement had built since the previous show, fueled by Commodore's business turnaround and the success of the Amiga. Here are some of the show's highlights:

ATARI

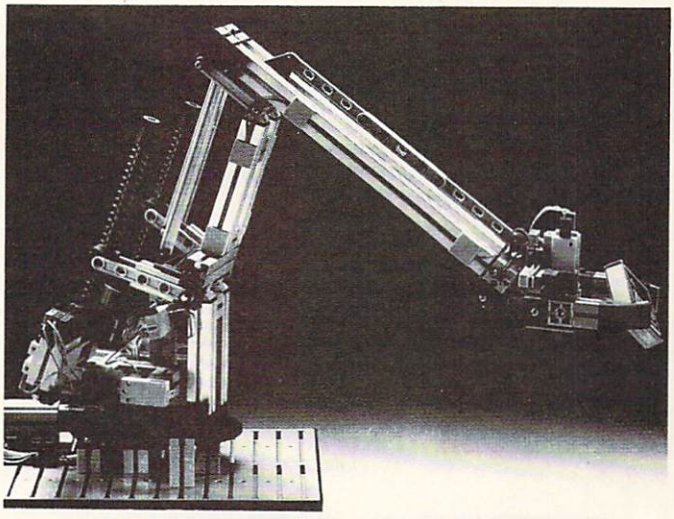
We always like to check out what Jack Tramiel and sons have up their sleeves, and the tricks at this show were up to the established standard. Atari announced that a $1500 laser printer and a $499 IBM/PC clone would be available "soon". (We have already heard, post-show, that these will be "delayed".> The laser printer has no brain of its own and will be driven directly by the ST, which is why it is priced so low. The PC clone will have built-in ports, EGA graphics capability, and optional 8 MHz speed, if and when it becomes available. Most observers are agreed that Atari announced the clone to draw the spotlight from Commodore's more expensive (but *real*) PC clones.

They also announced a new *Mega ST* which will include one, two, or four megabytes of RAM, a blitter chip, a detachable keyboard, an expansion buss, a battery backed-up clock, and an integral 3.5" drive. It closely resembles a certain Commodore computer. Retail will be about $1500.

Atari's booth was once again jammed with third-party developers showing software and hardware for Atari machines, and they were drawing huge crowds. One of the strangest items at CES was an incarnation of 3D LCD shutter glasses for the Atari ST from the folks at Antic Publishing. These hardwired glasses click on and off in sync with a video display to pass alternate stereo images to your eyes, delivering a clear color 3D video image to your visual cortex. A 3D CAD system designed by Tom Hudson (who did **Degas** for the ST) comes with the glasses. This interesting system runs only on an Atari 1040ST and will retail for under $200.

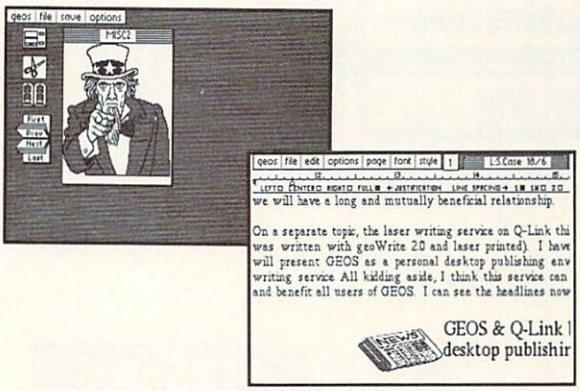
FISCHERTECHNIK

Two new robot kits from Fischertechnik look intriguing. One is a three-axis robot arm, the other a flatbed plotter. The arm boasts a lifting capacity of 100 grams and accuracy to within 1 mm. It is driven by four separate stepper motors and includes IR-detector positioning sensors. The plotter has an accuracy of 0.5 mm and looks as though it will accept up to 8.5"x11" sheets. Both come with a C64/C128-compatible interface and software.



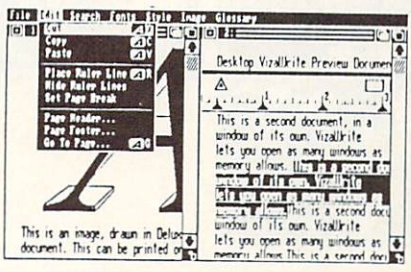
BERKELEY SOFTWORKS

Berkeley was demonstrating several new GEOS titles as well as v1.3 of GEOS itself. **GeoCalc** ($49.95) is a 112x256 cell spreadsheet with windowing, variable column width, and many functions. **GeoFile** ($49.95) is a form-based filer which has you lay out your data on an 8.5"x11" virtual page; it will also print mailing labels. **Writer's Workshop** is a bundling of *geoWrite* v2.0 with *geoMerge*, a mail-merge utility, *Text Grabber*, which converts text files to GEOS format, and *geoLaser*, an Apple LaserWriter printer driver. **GeoDex** is an electronic address filer which can sort, autodial, and print mailing labels and phone lists. **GeoPrint** is a parallel printer cable with driver software. **DeskPak 1** bundles the *Graphics Grabber* graphics converter, an *Icon Editor*, *Calendar*, and *Blackjack* game. **DeskPak 2** features the *geoChart* graphing utility, which will work with geoCalc files, and *geoSpell* spellchecker.



PROGRESSIVE PERIPHERALS

Besides **Logistix**, Progressive Peripherals was showing **Superbase Personal** for the Amiga. It's a powerful database manager, but we were disappointed that the programmable **Superbase Professional** isn't much closer to shipping. They also announced that they had picked up the distribution rights to **Vizawrite** for the Amiga and C128 and **Vizastar** for the C128. They did not pick up the rights to the C64 titles, and with Solid State Software out of business, I guess that leaves the U.S. temporarily without a source for Vizawrite 64 and Vizastar 64. Vizawrite for the Amiga ($149.95) looks like a winner, with many desktop-publishing type features.

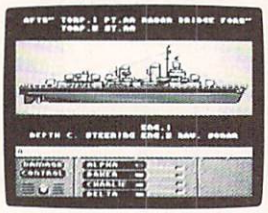


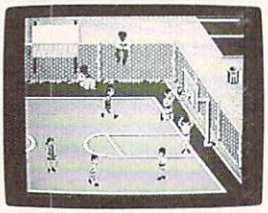
WINTER CES REPORT cont'd

FIREBIRD

Firebird is showing more commitment to the Atari ST than most of its competitors and showed some ST-only titles at CES, but they're still managing to get some interesting Commodore 64 games out the door. Among them are **Tracker** ($39.95), a 3D adventure with artificially-intelligent opponents, **Talking Teacher** ($39.95), a superb introductory educational program with excellent graphics and speech, and the C64 version of **Starglider** ($39.95), finally ported over from the ST. We were disappointed to find that the Amiga version of Starglider is not yet ready to show.

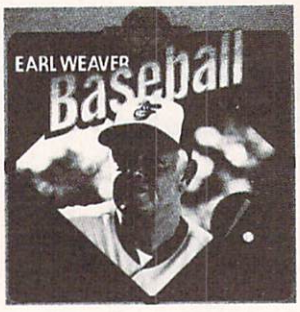
EPYX

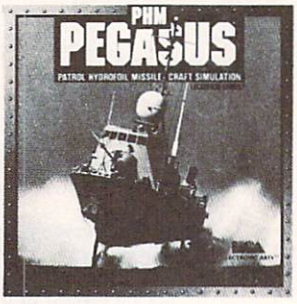




Epyx introduced two new lines of entertainment software at CES. The *Street Sports* series, which features informal "back lot" play and both strong and weak "neighborhood" opponents, kicks off with **Street Sports Basketball** and **Street Sports Baseball**. The *Masters Collection* begins with **Sub Battle Simulator**, an in-depth (ouch!) simulation of U.S. submarine operations in WWII, with 60 different missions. All are for the C64. Epyx is being cautious about Amiga introductions, with **Temple of Apshai** already out and **World Games** and **Winter Games** coming soon.

ELECTRONIC ARTS



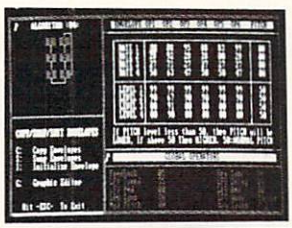


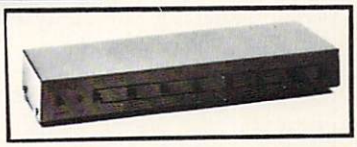
EA again demonstrated its firm commitment to Commodore computers at CES, with new introductions and bargains on older titles for the C64/C128 and the Amiga. EA announced they had taken over distribution of Sierra On-Line's software, which includes the **King's Quest** trilogy , **Space Quest**, **Winnie The Pooh**, and other titles for the C64. Coming soon from Sierra are **Police Quest** and a game based on Disney's **The Black Cauldron**.

EA introduced a new title for the C64 called **PHM Pegasus**. The *PHM* stands for *Patrol Hydrofoil Misslecraft*. This Lucasfilm production features realistic 3D solid-filled animation and lots of action. Also on the C64 monitors at the EA suite was **Bards Tale II: The Destiny Knight**. They have also moved some titles into their *Software Classics* series, which is priced at under $15. Included are **Archon II**,

Mind Mirror, **Financial Cookbook**, and several others.

On the Amiga side, besides tooting the trumpets over the *Deluxe* series (some of which are being ported now to the *Apple IIGS*), EA was showing **Earl Weaver Baseball**, a split-screen, realistic simulation of professional baseball which includes a built-in baseball expert system incorporating the knowledge base of baseball manager Earl Weaver. This simulation, the first in the *Sports Legends* series, includes TV special effects like instant replays and slow motion, and even lets you build your own baseball stadiums! Also on the screens was the long-awaited **Return to Atlantis**, a long-term-involvement graphic adventure with great pictures.





SONUS

Sonus was showing a bunch of MIDI-control software at CES on various machines. What impressed us was that a C64 with a MIDI interface could do about as much with MIDI as an Atari 520ST. Many of the same programs were available for both machines, and the C64 versions generally seemed to be holding their own for a lot less money. There were even more titles available for the C64 than for the ST, at least in Sonus' booth.

COMMODORE

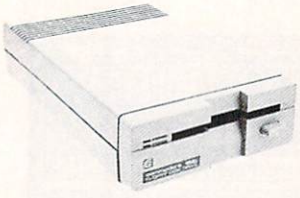
Though it could be argued that the most exciting new Commodore products at CES were upstairs under armed guard out of public view (see our report on the new Amigas elsewhere in this issue), there was still plenty to see in the Commodore booth.

As promised, the **PC-10-1** and **PC-10-2**, CBM's IBM/PC clones, were there. The machines are far from exciting, with standard PC clock speed and only PC/XT compatibility, but they do include parallel and serial ports built-in, as well as monochrome and CGA-compatible graphics, all for one reasonable price. CBM is even throwing in a copy of Borland's popular **Sidekick** program. Though in short supply, you should be able to purchase a clone with a Commodore sticker on it by the time you read this.

In another bit of old news, the **C128-D** was being shown, too. If you remember, Commodore originally showed this C128 in an Amiga-like case two years ago at CES, months before the

WINTER CES REPORT cont'd

1764 RAM Expansion



Commodore 1581
3.5" Disk Drive

introduction of the Amiga. The units, like the PC clones, have been available in Europe for some time, but will now *finally* be sold in the U.S. Commodore's **UNIX** machine was not in evidence, nor was their recently-announced **PC/AT** clone, both of which are European exclusives for the time being.

They were saving all the hot new Amiga introductions for later, but at CES CBM introduced a couple of C64 products. First and foremost was the long-awaited **1764 RAM Expander**. Its final configuration adds 256K of RAM to the C64, along with a beefier power supply for the 64, all for $129. Software included with the unit will allow it to be used as a RAM disk with both native C64 applications and with GEOS programs. The **1351 Mouse**, which is already showing up in stores, is a $49 upgrade of the old 1350. Where the 1350 emulated a joystick, the 1351 provides you with a true proportional mouse that can *optionally* be configured as a joystick. Both are essential items for GEOS power users. Commodore also again showed the **1581 Disk Drive**, an 800K 3.5" microfloppy drive for the C64/C128. This $400 drive is not yet available, but will provide Amiga-capacity storage for the 8-bit Commodore machines. Though the format is *not* Amiga-compatible, we have heard that a third-party company is working on software to let the drive read Amiga diskettes. (More on this as it develops.)

CONCLUSIONS

The excitement level would have been higher at the Commodore booth had the new Amigas been in evidence on the main floor, but as it was there was plenty to keep Commodore watchers occupied at CES. Much of the third-party activity was centered on Commodore machines, including some incredible 3D animation software from Aegis for the Amiga (see sidebar). Things should be even more exciting in the new Computer Pavillion at CES in June. On to Chicago!

VideoScape 3D

Easily the most fascinating thing I saw at the Winter CES was a videotape created with a prototype of *VideoScape 3D*, a new professional-grade graphics product being readied for June release by **Aegis Development.**

Originally developed by Alan Hastings, VideoScape 3D allows Amiga users to create sophisticated 3D animations which look very much like the stuff you see on network television. Look at the sequence to the right: what you see are five still frames taken from a 5 to 10 second video done with VideoScape 3D. The scene starts with the classic Amiga "Boing" ball which smoothly and rapidly flattens, rotates, recedes, and turns into a doughnut shape simultaneously! You have to see this to believe it- the pictures don't do it justice (and this is one of the simpler demos I saw).

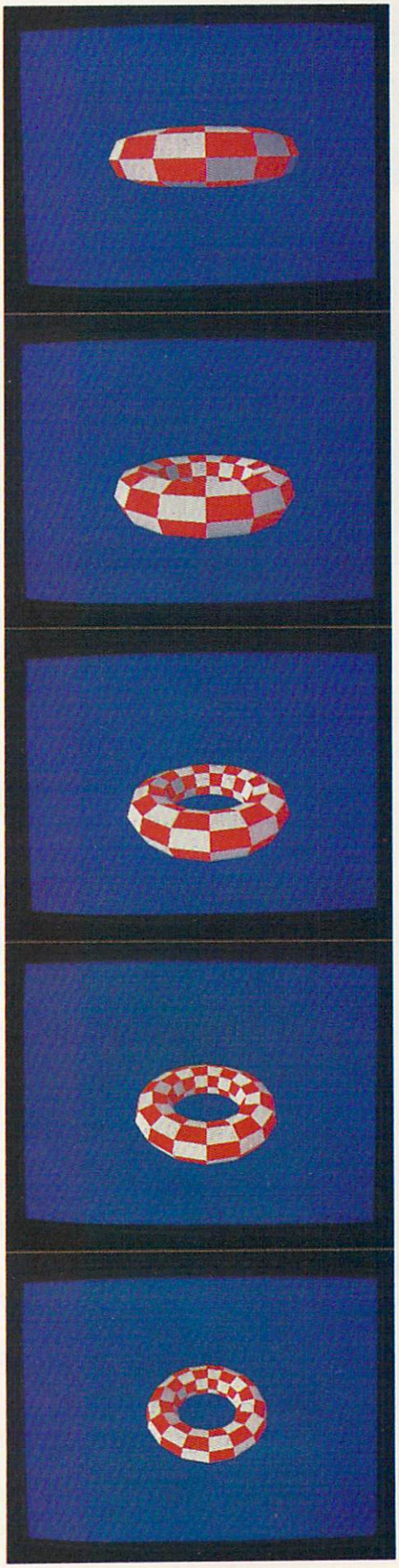
Unlike previous animation programs for the Amiga, VideoScape 3D works with solid-filled objects and simulated lighting sources. The large photo is from a longer video which has the "camera" view moving up, away, and around as the car pulls up and parks by the house (all the while maintaining the proper shadow and lighting effects and showing the hidden surfaces of these complex objects as they come in to view!)

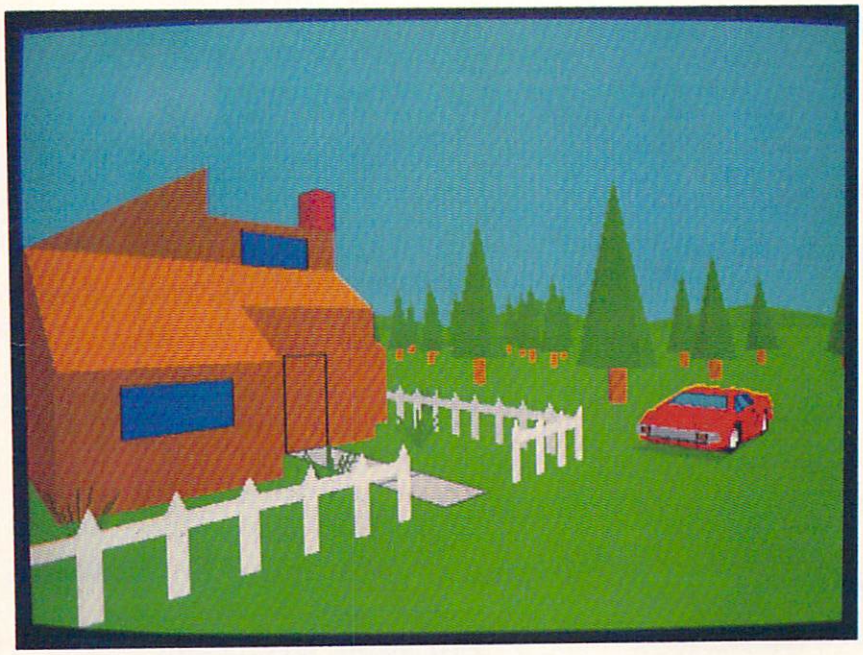
We will have a full review of VideoScape 3D when it is completed, but currently here are some of the product specs:

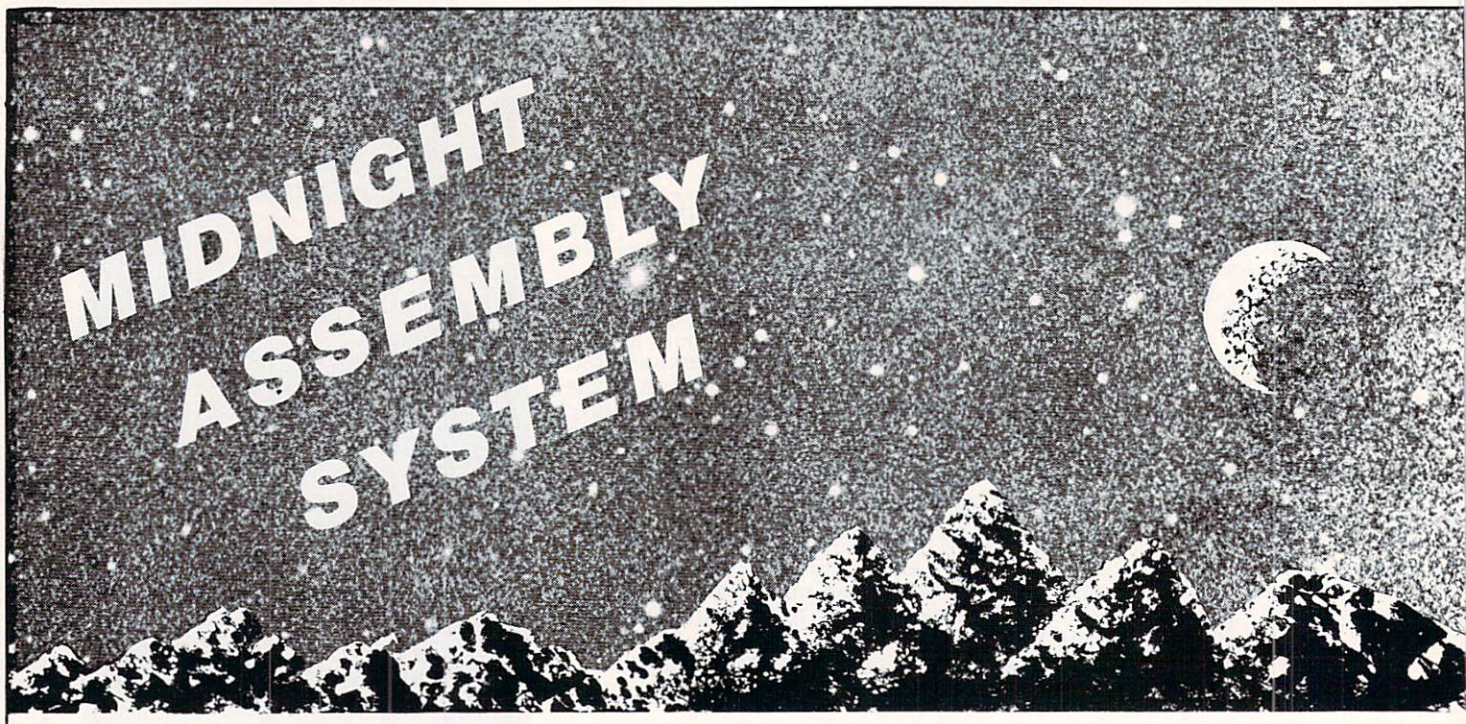
Min. system: 512K Amiga and a video recorder with single-frame recording capability (flying erase heads)
Ideal system: 1 MEG (or more) Amiga with 2 drives and a 3/4" or 8mm video recorder with integral controller.
Price: $199.95

Compression techniques allow 3-5 seconds of animation from RAM without recording gear / uses 16 colors at a time from an total 256-color pallete and uses "on-the-fly" interpolation routine to access additional colors as needed / supports genlock (optional) / 2 minutes of animation reside on one disk / 30 seconds to 1 min. to generate original objects, 3-10 seconds to generate animation frames / animations are entirely created and written with text scripts and numeric coordinate entry- any text editor may be used for composition and editing / real-time previewing and editing allows testing effects before recording / controllable attributes include camera angle, light source, spectral reflection (chrome to dull look) multiple camera movements in scene, camera zoom, second order smoothing (automatic camera transitions) / any frame can be made into an iff picture / use any iff picture for foregrounds and backgrounds / 4 resolutions from 704 X 440 to 352 X 220 (all overscan). single-step thru frames / optional wire-frame mode (play back in real-time from RAM) / automatic fractal surface-generation module and shape creation / metamorphic transitions (object tweening). **-BD**

>> For more INFO, contact: Michelle at Aegis- (213) 392-9972







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- ★ *Addition, Subtraction, Multiplication, Division, Shift Left, Shift Right*

SAMPLE SOURCE CODE

```
100             cmp #$0F beq modgot
101             cmp #$01 beq modgot
102             cmp #$02 beq modgot
103             cmp #$06 beq modgot
104             cmp #$0A beq modgot
105             cmp #$08 beq modgot
106             jmp somewhere_else
107
108modgot ; do a module
109             stx module
110             lda modvectors+1,x pha
111             lda modvectors,x pha
112             lda modstatus,x pha
113             rti
114
115some_string$ out ; XR = Length
116             ldy tab
117loop
118             mov str$,x (screen_mem),y
119             mov color (color_mem),y
120             iny dex
122             bne loop
122             rts
123
```

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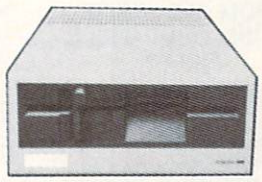

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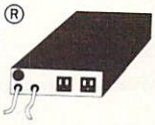

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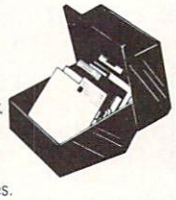

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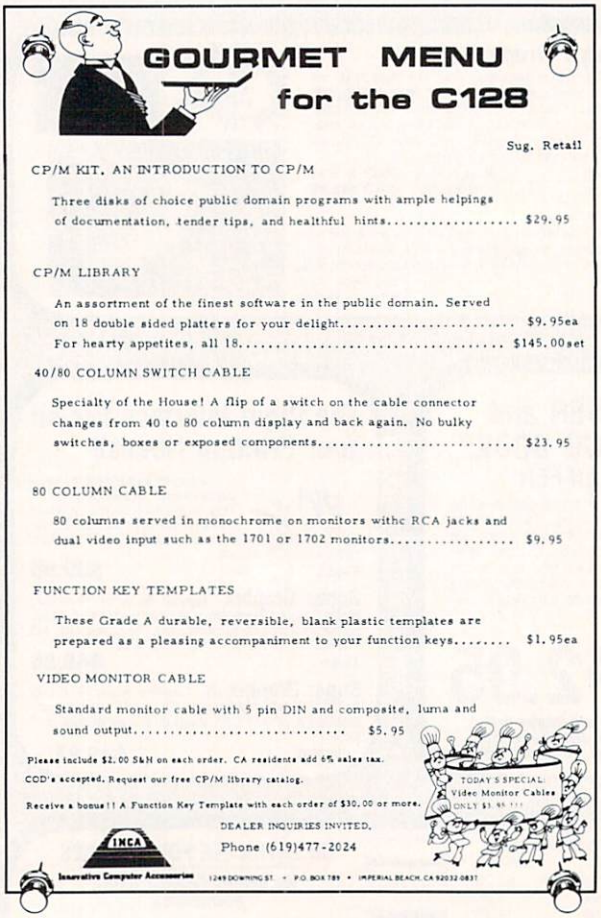

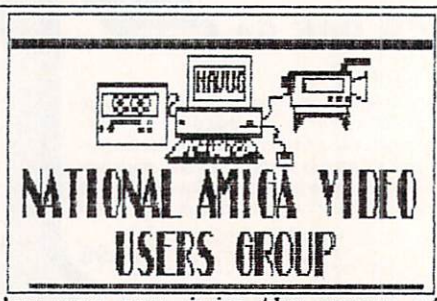

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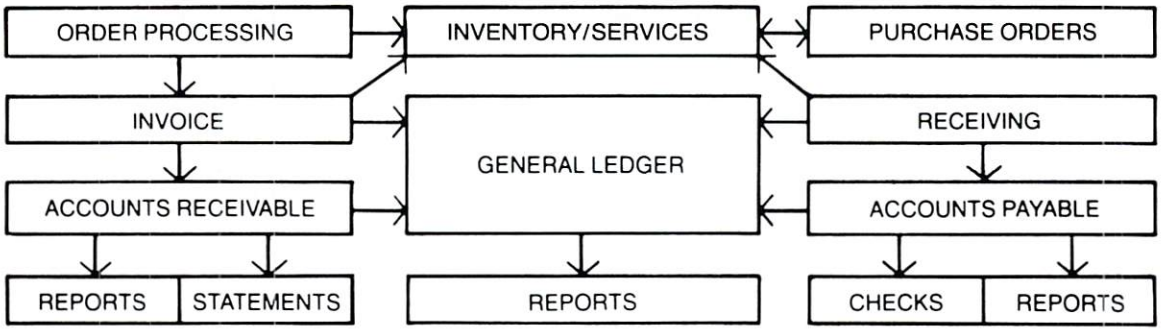

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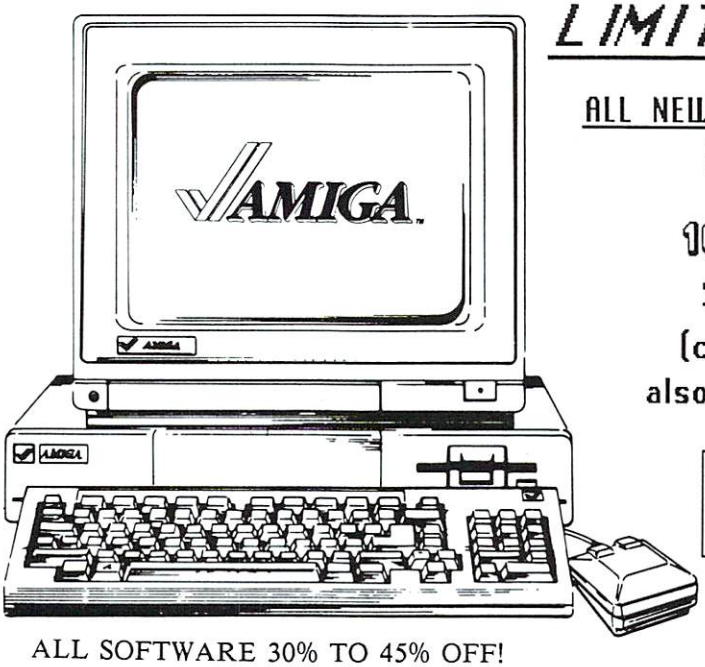

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