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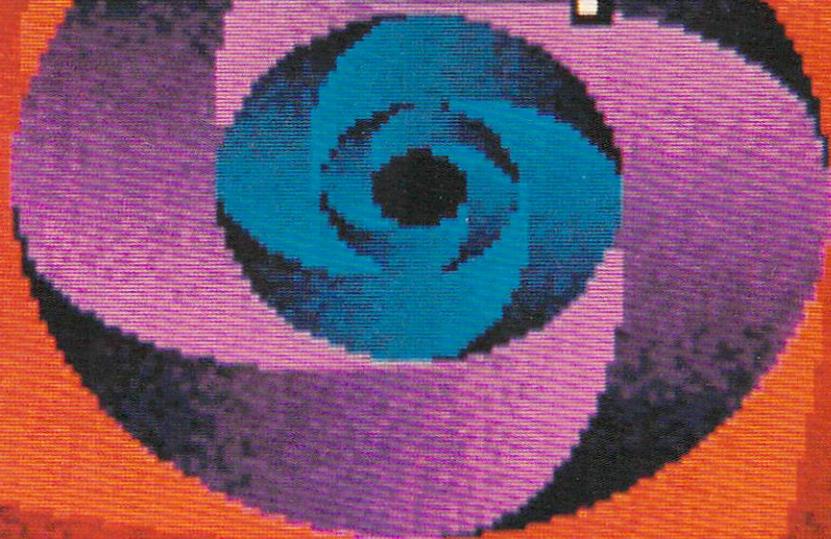
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INFO

The USEFUL Guide to Commodore Computing!



Product Roundup



OVER 1500 PRODUCTS!!

Listings for:

- 64
- 128
- CP/M
- AMIGA



The First (& still the only) personal computer magazine produced entirely with personal computers!

Good news!

If you want to get the most out of your Commodore 128 or 64, we have good news for you. The Pocket 128 and 64 Series of Software both offer you serious, professional quality software packages that are easy to use and inexpensive.

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Pocket 128 or 64 Software is so easy, you're ready to start using it as soon as it's loaded into memory. Even if you've never been in front of a computer before, you'll be up and running in thirty minutes. In fact, you probably won't ever need the reference guide... 'help' is available at the touch of a key. That's how easy.

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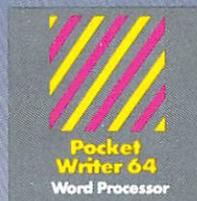
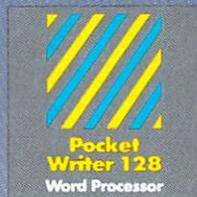
Pocket 128 or 64 packages have all the power you're ever likely to need. They have all of the features you'd expect in top-of-the-line software, and then some. The good news is that Pocket 128 or 64 Software Packages are priced way down there... where you can afford them. Fast, powerful, easy to learn and inexpensive. Say, that is good news!

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The bottom line is Solutions

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Canada L4B 1B7
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Pocket Planner 128 or 64 Computerized Spreadsheet

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Pocket Planner 128 or 64 software lets you make fast work of all your bookkeeping chores. Cheque books, household accounts, business forecasting and bookkeeping are just some of the jobs that Pocket Planner 128 or 64 packages make easier. You can even create four different kinds of graphs.

Accurate, sophisticated and easy to use. Pocket Planner 128 or 64 offers standard spreadsheet features plus...

- accuracy up to 16 digits, about twice as many as most spreadsheets for the Commodore 128 or 64
- sideways printing available on dot matrix printers, for oversized spreadsheets that won't fit on standard paper
- **on-screen help** at all levels
- compatible with VisicalcTM files
- 80 column on-screen option for the Commodore 64 in addition to the standard 40 columns
- graphics include **bar**, **stacked bar**, **line** and **pie** graphs that can also be used in word processing files
- **smart evaluation** of formulae for accurate complex matrices

Pocket Filer 128 or 64 Database Manager

Database management made easy

With Pocket Filer 128 or 64, you can organize mailing lists, addresses, inventories, telephone numbers, recipes and other information in an easily accessible form. Use it with Pocket Writer 128 or 64 (or other word processors) to construct individually customized form letters.

Pocket Filer 128 or 64 packages are fast, sophisticated and truly easy to use. In addition to standard database features they offer...

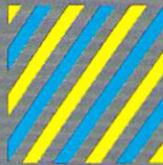
- use up to 255 fields per record (2,000 characters per record)
- sorts by up to 9 criteria, can save 9 different sorts
- print **labels** in multiple columns
- flexible report formatting including **headers** and **footers**
- optional password protection including **limited access viewing** or **updating**
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Solutions!



**Pocket
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Word Processor

PW 128/64 Dictionary
also available at \$14.95 (U.S.)



**Pocket
Writer 128**
Word Processor

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**Pocket
Planner 64**
Spread Sheet



**Pocket
Filer 64**
Database



**Pocket
Filer 128**
Database

Only The Name Is New

The professional, full-featured software line from Digital Solutions is now called Pocket Software.

Pocket Writer 128/64.

Pocket Filer 128/64.

Pocket Planner 128/64.

The names are new, but this super software is still the same.

From now on, when you hear the word Pocket, it means software that's full-featured, handy and easy to use.

Pocket Software at prices that won't pick your pocket.



**Pocket
Planner 128**
Spread Sheet

Best-selling software for Your Commodore 128 or 64

You want the very best software you can find for your Commodore 128 or 64, right?

You want integrated software — word processing, database and spreadsheet applications — at a sensible price. But, you also want top-of-the-line features. Well, our Pocket 128/64 software goes one better.

With Pocket 128 or 64, you'll find all the features you can imagine... and then some. And Pocket 128/64 is so easy to use, you won't even need the reference guide. On-screen and in memory instructions will have you up and running in less than 30 minutes, even if you've never used a computer before.

The price? It's as low as you'd expect for a line of software called 'Pocket'. Suggested Retail Price for the 64 software is \$39.95 (U.S.) and \$49.95 (U.S.) for the 128. Any of the 64 products may be upgraded to their 128 version for \$15.00 (U.S.) + \$3.00 shipping and handling. (Available to registered owners from Digital Solutions Inc. only.)

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Pocket Writer 128 and 64 are now available in French.

INFO

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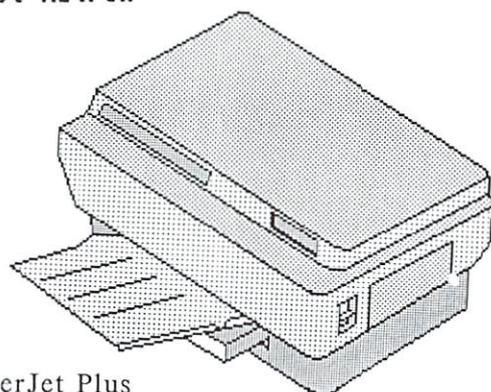
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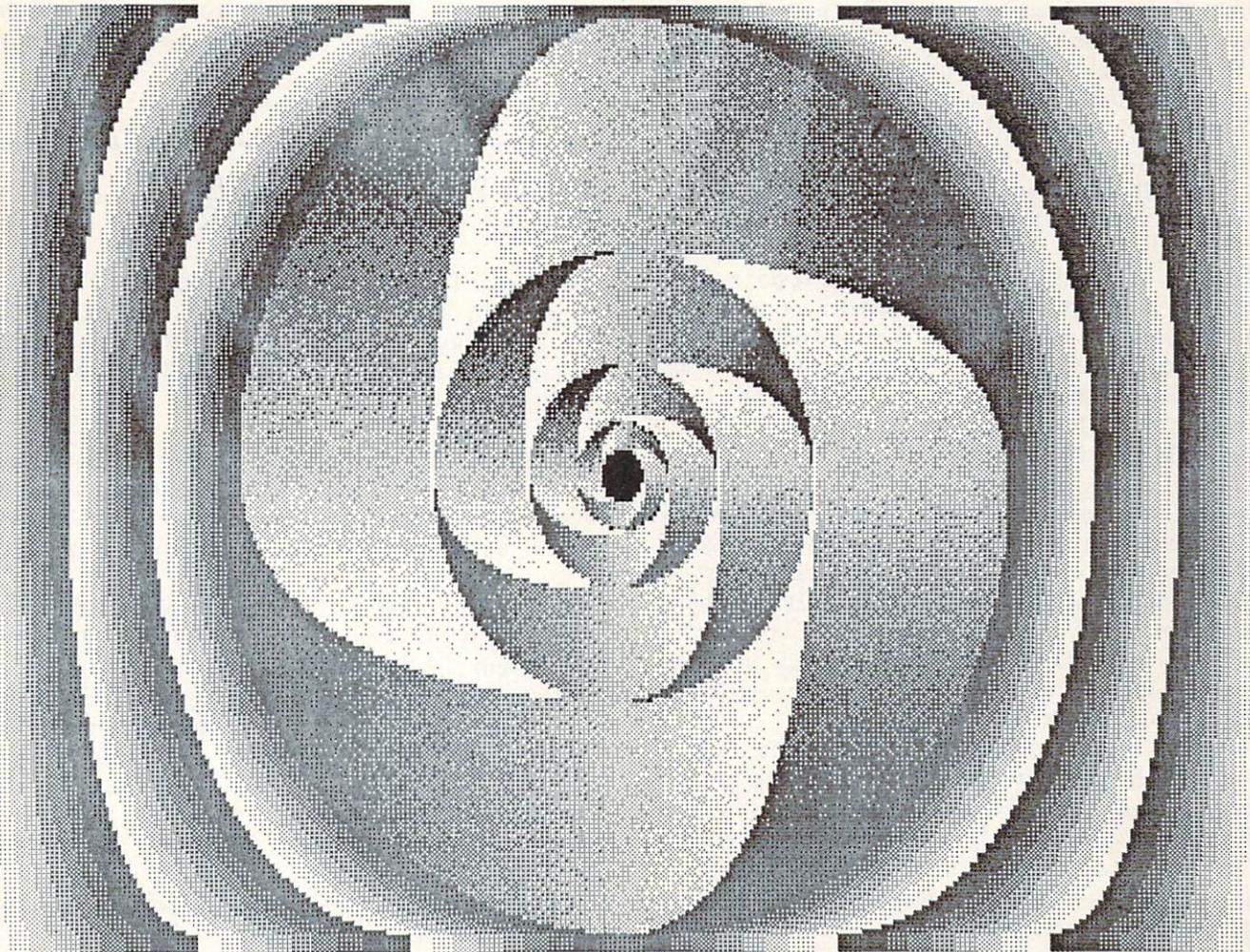
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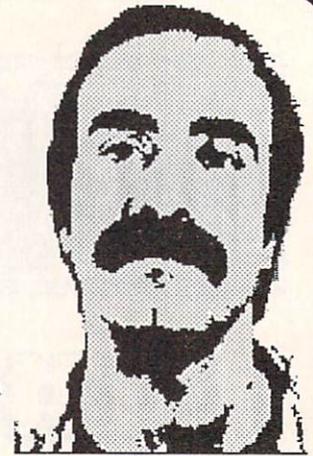
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the EDITORS' PAGE

Mark
"Chuckles"
Brown



Benn
"Smiley"
Dunnington

COMMODORE'S SUCCESSES

Alot has been written about what Commodore has done wrong. It seems that everyone from the kid playing games for free at K-Mart to the Wall Street tycoon knows how to run Commodore better than anybody at Commodore. We've been guilty of that at times, too.

While we're not about to become apologists for everything Commodore does, we think it's time that somebody pointed out the things that they have done right.

First of all, they sold us the first inexpensive color personal computer, the Commodore 64. They could have sold it at the same price that Texas Instruments and Apple and Atari were selling their machines for. They didn't. Everyone else had to drop their prices.

Secondly, they made it an open machine. It's not like a MacIntosh, where everyone had to pry the case open with a screwdriver and then guess what everything did inside. They published memory maps. They brought all the important signals out to an expansion buss. And they followed the same philosophy with the C128 and the Amiga.

Third, they put all their important ROM vectors in a jump table that remains unchanged from revision to revision. You hear alot of developers complain about the changes in Commodore's ROMs, but Commodore has been up front with everybody from the beginning and the message has been clear: stick with the kernal tables and your software will be compatible across ROM changes.

Fourth, they've been innovative. The C128 is one of the best new computer introductions in recent years, making the most of 8-bit technology by pushing it to the limits with co-processors and banked memory. And with the acquisition of the Amiga Commodore established themselves as a leader in micro-computer technology for the next decade.

Have they made mistakes? Of course they have. But the only reason their mistakes are so aggravating is that we all love their products so much, and we want to see them succeed. We don't intend to let Commodore off the hook for their past (and present) errors in judgement. We consider acting as Commodore's conscience to be our most sacred job. But we do want to make clear the fact that our goal is the same as Commodore's: to see Commodore Computers thriving a hundred years from now.

[We do not own any Commodore stock. Really.] -Mark

INFO PAYS WRITERS WHAT THEY'RE WORTH!

We were flattered to find INFO included & quoted in a recent Wall Street Journal article by Ed Bean about the reliability of software reviews in computer magazines (Monday, June 16, 1986, page 19D).

Mr. Bean identified advertiser pressure, part-time and under-qualified reviewers, and low pay for writers as major causes for the often poor quality of reviews in computer journals.

We knew we paid our writers well (after all, you get what we pay for...), but we were not prepared for the figures quoted in Mr. Bean's article (INFO's rates were not included): It appears that INFO pays about double our nearest runner-up (BYTE Magazine), and roughly 10 times what RUN pays!

We applaud Mr. Bean for his enlightening article. We're proud to be the best-paying computer magazine in the business, and we hope it shows!
-Benn.

INFO

Reader Mail

Dear INFO,

Thank you for your magazine. It's in the tradition of the early "Berkeley Barb" and I.F. Stone. Sign me up for a year and send me a set of 1-6.

Joe Spano
Hill Street Blues

Our first celebrity subscription! Thanks for the kind words. We love your show and we're looking forward to your new season.

Mark & Benn

Dear INFO,

I am planning to buy a computer. Some people tell me to buy the PCjr and others tell me to get the Commodore 128. I would like to know which one is the better one and also which one has more features. I am planning to buy a computer that I can depend on and use it for a long time.

I enjoy reading your magazine. Thanks a whole bunch!

Joseph Troy
Tulsa OK

Joseph, it is a really lucky thing that you wrote and asked an impartial magazine like INFO, rather than one of those biased IBM/PC magazines like PC World! Seriously, there really are a couple of good reasons for picking the C128 over the PCjr. The PCjr has not been in production for months; IBM doesn't say much about it, but they are closing out the PCjr. It is also at the low end of IBM's line, and is not receiving much direct support nor can it run most of the programs written for the PC. Nobody is writing new programs for it. The C128, on the other hand, can run all of the C64's programs, plus there are now over 100 titles that take advantage of its special features, like 80-column color output, faster disk access, and the numeric keypad, with more coming all the time. Besides all that, the C128 actually compared favorably to the IBM/PC in a recent review in Byte magazine. If you are a home user, the C128 has many more games and personal productivity titles available than the PCjr, including exceptional software such as Microsoft Multiplan, Paperclip, and Superbase. If you need PC compatibility because of work or school, by all means get a PC (not a PCjr). But if you want a versatile machine for personal use, take a good look at the C128. You won't be disappointed.

--Mark & Benn

Dear INFO,

After trying some six or more word processing programs, I found TOTL.Text 2.0 to be the easiest to learn and use and generally superior to many other wordprocessing programs for the C64. Other reviewers have rightly compared TOTL.Text to the old Volkswagon Beetle: Slow but reliable and you can count on it getting you there. When they were still in business, the folks at TOTL provided me with the best customer support over the years of any computer company I have done business with! Last year when I felt I needed a wordprocessing program with more features and speed, I chose Paperclip. (I do not use DOS protected software at all.) Your review of TOTL.Text in the May/June INFO was unfair. TOTL.Text is well worth the interest of the novice and occasional user, especially those who are not interested in technical minutae.

Landon White
Des Moines IA

I used (and loved) TOTL.Text too, a long time ago. As you pointed out in the rest of your letter, it did some nice things that, even now, many wordprocessors can't handle. It was also slow, and had that strange block-entry editing. That's why most of us have moved on to faster, easier-to-use products. And I don't think anyone anywhere has ever done a better job of supporting their customers than Ann and Chuck Palmer-McCarty at TOTL. But now that they are out of business, someone who might buy TOTL.Text on the closeout rack is out of luck. Time flows on....

--Mark & Benn

Dear INFO,

I recently acquired a Commodore 16. I would like to know what software is available for this unit. Can you help?

Norman Scalise
Winston-Salem NC

The C16 is essentially a 16K version of the Plus/4 computer without the built-in software. Plus/4 cartridge programs should work in the C16, though it probably does not have enough memory to run the disk-loaded titles. As you know, we don't list products for the Plus/4 or C16. There never were very many, and there are even less now. Your best bet is to contact Commodore, since we know they are closing out their Plus/4 software at discount prices by mail. Also check with Tri-Micro (address in the back of this issue). They produced some Plus/4 software, and they still publish a support newsletter for Plus/4 and C16 owners. Essentially, though, I'm afraid you're going to be stuck with writing most of your own software.

--Mark & Benn

Dear INFO,

I have been typing in all the programs from Compute! and the Gazette every month for our user group. Well, no more. They have gone so far downhill that it just isn't worth the effort even when the program looks interesting. Apparently they don't proofread at all since the majority of programs don't work. Not only that, but it takes them two to three months to publish corrections and then the corrections are seldom right either. A good example is the 80-column conversion for SpeedScript. I typed it in (in hex, yet!) and spent about three hours trying to get it to work before I finally gave up. I don't intend to renew my Compute! subscription, ever. I'm beginning to get the sneaking suspicion that, since Compute! is selling disks, they deliberately print programs that don't work in order to convince people to buy their (more expensive) disks instead of typing the programs in.

And if you haven't read any of their so-called reviews lately, it's worth the time just for a good laugh. I really think that a program could come out explaining in detail how to bomb their offices and they would still find only good things to say about it. I cannot remember seeing even a slightly critical review in their pages in months. I wonder if editorial policy changed after ABC was sold. Of course, editorial policy to Compute!, if they are acquainted with the term at all, means doing anything at all, including licking a few boots, to avoid offending a software manufacturer. What they publish aren't so much reviews as advertisements, and should be labelled as such.

Tom Malcolm
Mt. Pleasant IA

Gosh, Tom, you sure are being hard on poor old Compute! WE would never say stuff like that about them.....

--Mark & Benn

Dear INFO,

I am attempting to set up a clearinghouse for information on the MSD disk drives. The MSD Information Exchange is being formed to serve the needs of MSD disk drive owners. The first project is a database of compatible software. Users of MSD disk drives are encouraged to participate in the exchange.

Those who contribute information will be provided the following services:

1. For an SASE, a printout of available information in one selected category.

2. For a blank disk and postpaid mailer, a copy of the Information Exchange data disk in Superbase 64 format.

The Information Exchange will also maintain files on the availability of technical information on MSD disk drives, including parts, service, maintenance manuals, wiring diagrams, memory maps, etc. as provided by users

Paul E. Eckler
MSD Information Exchange
2705 Hulman St.
Terre Haute IN 47803

Good luck, Paul. There is certainly a great need for a reliable source of information on MSD's drives. The latest we hear is that MSD is reluctantly supplying part-time repair services for their drives, but that they are only selling new drives on a special-order basis. Another company tells us that they are negotiating with MSD and may be distributing and servicing the drives exclusively in the near future. We'll keep you posted.

--Mark & Benn

INFO READER MAIL ONLINE!

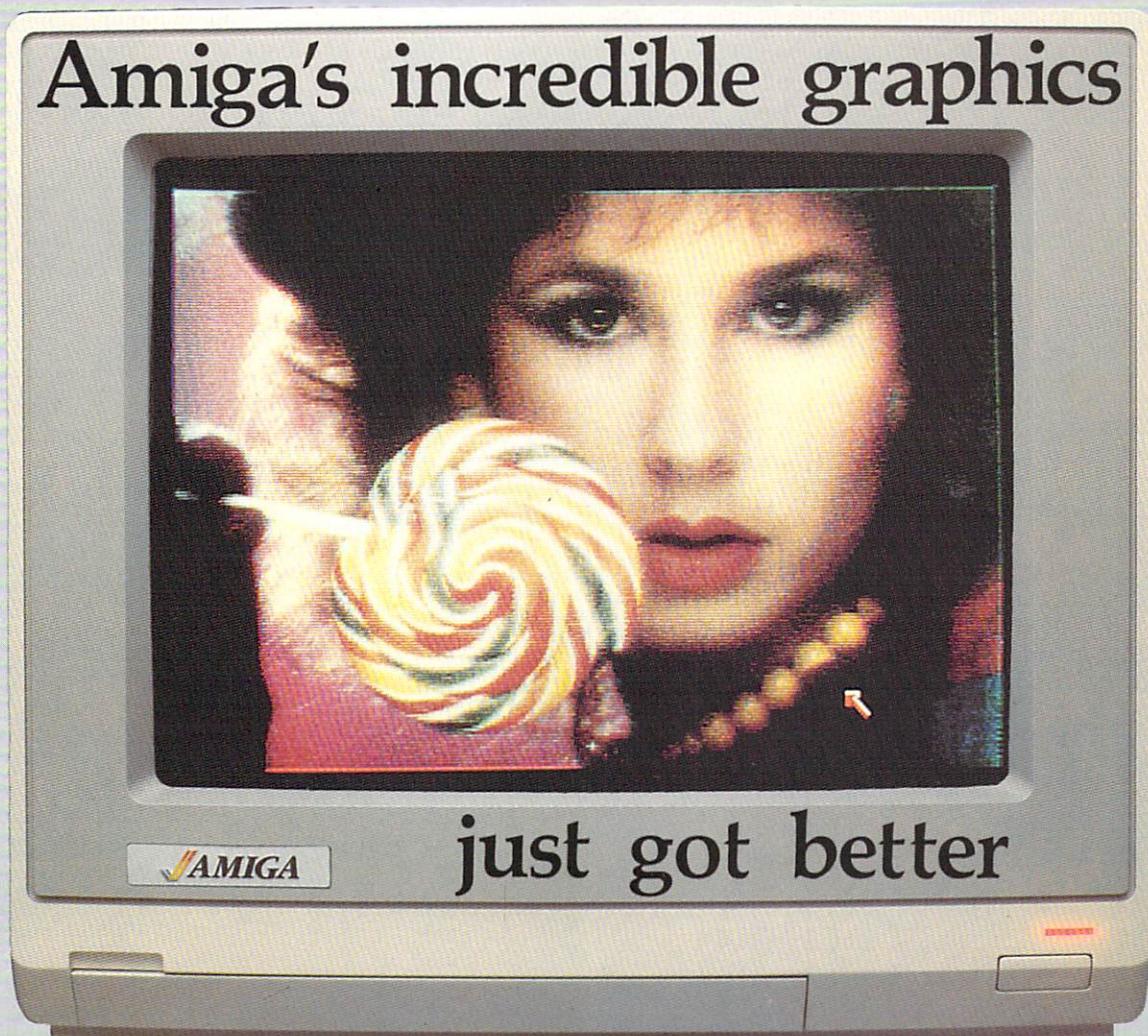
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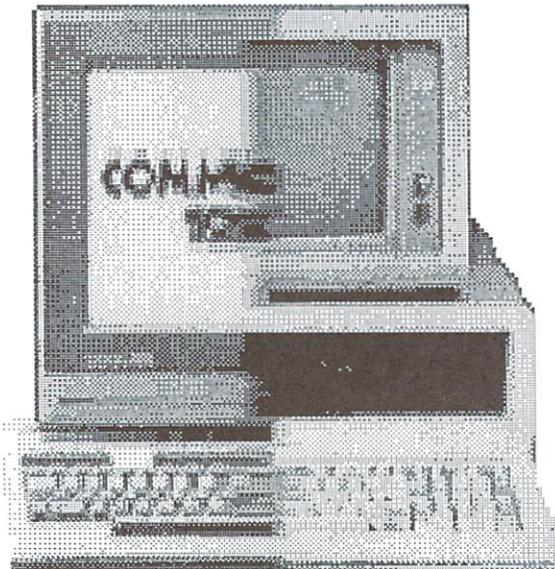
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THE BIG BLUE READER

S.O.G.W.A.P. Software has introduced a product that we've been waiting for someone to come up with for quite awhile: a file utility for the C128 and 1571 drive which will read and translate MS-DOS files. It's called **The Big Blue Reader** (\$29.95). This program translates MS-DOS text files to Commodore PRG or SEQ text files and vice versa. This means you can finally use your Commodore and IBM/PC wordprocessor files interchangeably. We're glad **SOMEBODY** did it!



C128 VS. IBM-PC

For some very fair benchmark comparisons of the C128 to the IBM-PC, check out the July issue of Byte magazine. For a machine that costs a fraction of the PC's price, with a cpu that runs at less than half its speed, the C128 did respectably well. BASIC execution times for the Sieve and floating point calculations were slightly faster on the C128, and disk read times and storage capacity were similar, if marginally slower and smaller respectively. Even Multiplan recalculation times were comparable on the two machines. The only places the C128 really fell down were in disk writes, file copies, and other disk-write-related capabilities.

Oh, the Apple II was included in the comparison, too, but it fared so much worse in all departments that it really isn't worth mentioning....

SHAREWARE

Dr. Philip Slaymaker of Quantum Software has decided to release the original version of his five-star disk utility program **Peek-A-Byte** as a shareware title. This version, without the Disk Mechanic utilities of the latest commercial version, will be available directly from Quantum Software for \$10.00 postpaid and may be freely traded and distributed.

As we mentioned last issue, it is possible with the proper software and cable to drive a parallel printer directly from the C64/C128 user port without a printer interface. Drude Micro Services, PO Box 533, Cedar Rapids IA 50613 is offering a shareware **Parallel Printer Driver** program that is compatible with Easy Script, Kwik-Write!, and your own BASIC programs. Donations of \$10 are appreciated from those who get the program elsewhere, or it may be ordered directly for \$10, \$35 with an assembled user-port-to-Centronics-parallel cable.

The **Data Base** is a shareware dbms which is available for both the C64 and C128, as well as MS-DOS machines. It features up to 80 characters/field, 250 fields/record, 4000 characters/record, and 32,000 records/file. Files may be subsorted on up to three fields. Reports and mailing labels may be printed from database information, or it can be exported as a sequential file. \$10 will buy either version directly from The Key Board, PO Box 753, Cedar Crest NM 87008.

Robert French, of **Mandelbrot** fame, has delivered yet another weird and enticing shareware title for the Amiga. Called **Multidim**, this one lets you rotate multi-dimensional "cubes" in 3D with a joystick. Again, this program was inspired by a recent Scientific American article. Try rotating a 4D hypercube...but not right after lunch. \$10 to \$20 donation, blank disk, and mailer appreciated. Robert French, 2740 Frankfort Ave., Louisville KY 40206. Also ask about **Trees**, which generates colorful fractal trees.

OTHER STUFF WORTH NOTING

You'll notice a lot of new products listed in this Product Roundup issue. Some of them are very good products that we just haven't had the space to write about in our regular issues. So please, scan the Roundup pages carefully, and we're sure you'll discover some real gems!

C128 REFERENCE GUIDE

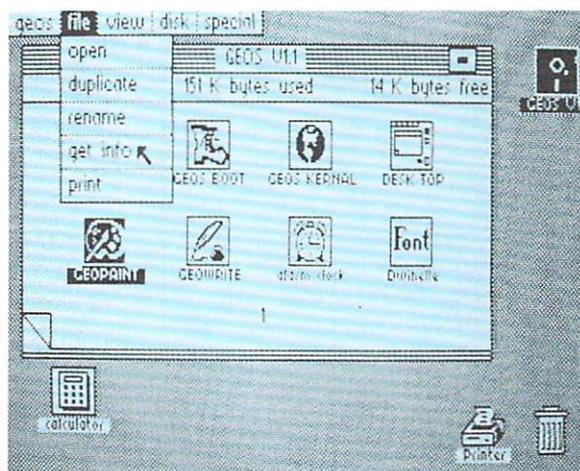
After many long delays, the **Commodore 128 Programmer's Reference Guide** (\$21.95) is finally here. This volume contains almost 750 pages of indispensable C128 info for the serious programmer. Some of the high points include: Chapter 10, consisting of 44 pages devoted to "Programming the 80-Column (8563) Chip"; Chapter 13, which explains how to call the new C128 Kernal routines; and (unfortunately scattered throughout a chapter or two and a couple of exhaustive appendices) how to interface to CP/M+ and the Z-80 BIOS and BDOS. There are also full system schematics, a less-than-totally-comprehensive set of memory maps, and an in-depth discussion of the 8502 cpu. I suppose I could have missed it in a volume this big, but I didn't see a word on the 1700/1750 RAM Expanders. This book reminds me a lot of the C64 Programmers Reference Guide. There is enough indispensable information in it that you won't want to be without it, but it by no means tells you everything you'll want to know about the C128.

SHADOW WOES

MegaSoft, beset with a multitude of delays and subsequent financial difficulties in their attempts to produce a working version of **The Shadow**, has been trying to get resituated and move on. In a letter they have filed with us and with other computer magazines, MegaSoft is offering two options to those who sent their money and then waited an inordinately long time for **The Shadow**, only to find that it did not work as advertised. They can either return the product for a full refund, or keep it and receive a \$90 credit on MegaSoft purchases, with a promise of an operational version of the software as soon as it is available. If you haven't received your copy of the letter detailing this offer, we encourage you to contact MegaSoft.

CARDCO DOORS LOCKED

Cardco, in financial difficulty for some months now, has had their doors padlocked and warehouse seized by the bank. It's hard to know in this industry who will fold and who will bounce back from terminal financial troubles, and we're not about to go into the crystal ball business. Suffice it to say that there is still a lot of Cardco product on the shelves out there, and you may be able to pick some stuff up at a good price, if you don't mind being without direct product support. Just make sure your dealer has a return policy, in case you need it.



GEOS

Well, we've finally got GEOS in the final color version, the same one that is shipping with the 64C. It is a very nice package if you look at it as a text & graphics "desktop publishing" program, but as an operating system I'm not sure.

GEOwrite and GEOpaint let you edit text in multiple font styles or draw pictures in a window that looks onto a much larger, full-page-size virtual screen. The fonts are downloaded public domain Macintosh fonts, so you know they look good, though they do look rather large on the C64's lower-resolution screen. You can cut and paste pictures onto documents or text blocks onto pictures using the built-in "scrapbook" function, which is much like the clipboard on the Macintosh or Amiga. The user interface is nice, though slowed down by disk accesses. GEOS gives you

capabilities you never had before with your 64, and if you want to create with GEOS, you will have a lot of fun, with some very nice (almost Mac quality) output when you are done.

On the other hand, this is supposed to be an operating system, too. As such, it is slow and fat. Even though the disk accesses have been sped up via an integral fast loader, almost everything you want to do requires a lot of disk time. The disk is copy-protected (though you can make a crippled backup whose purpose is to attempt to rebuild your original if it should ever malfunction). It's a bad deal to have something as important as your operating system sitting on one copy-protected disk. The code for GEOS takes up 48K of RAM in your 64K machine. Applications must overlay a 24K area, leaving the 24K GEOS Kernal intact.

These overlay techniques swap memory out to disk, load in the overlay application, and swap back when done. This is very similar to what many CP/M applications do, and results in a lot of disk usage. There are some very nice features included in GEOS, the menus are easy to use, and the screens look pretty good; I just don't like the way it 'feels'. If this system were in expansion ROM, I would like it better. Even the developers of GEOS seem to feel that it needs something more. They make a great deal out of how much easier and faster GEOS will be once the RAMdisk is modified for use with the C64. (They had it running on a prototype at CES.) That may be, but the RAMdisk costs \$300. Add \$230 for the 64C and \$200 for a disk drive, and you are up to \$730, 16-bit computer price range!

We are also waiting to see how much support GEOS gets from third-party developers. Though Commodore says 'lots' of companies are working on GEOS applications, we haven't been able to find one yet.

GEOS is a bargain for its graphics & text / cut & paste features, but as an operating system it may try to do too much on a 1-megahertz, 8-bit machine.

APPLE][X COMING SOON

Steve Wozniak's latest and greatest brainchild is nearing delivery, after a couple of years of infighting at Apple over whether or not it should even be brought to term. Fearful that it would compete with the Macintosh, Apple higher-ups held back the Woz's 16-bit 65816 machine, but now appear willing to let it see

the light of day. And this one will be a killer. It's supposed to be fully Apple][e/][c compatible, *fast* clock speed, 512K standard RAM with up to 4.5 megabyte expandability (seven slots are probable), detachable keyboard, internal 5.25" drive for][e compatibility plus optional high-capacity 3.5" drives, and a 768x512 RGBA display using 128 colors out of a palette of 4096! All of this for a price projected to be in the \$1400-\$1600 range. This will position it directly against the 1040ST from Atari and, of course, Commodore's Amiga 1000 and projected future models, the 2000 (?) and 3000 (Ranger). The Apple compatibility will be a big selling point for this machine, as will the improved graphics. Apple is also planning a cross-development system to allow software developers to port Mac products to the new][X. What impact will this have on the Amiga? It depends on how soon Apple can get it (and related software) to market, and how the installed base of Amigas looks by then. There's no doubt in our minds that, unlike the way they've been trying to simply ignore the ST, Commodore is going to have to tackle the Apple][X head-on.

AHL AT ATARI

David Ahl, founder and guiding light of *Creative Computing* magazine, and Liz Staples, managing editor of *Creative* for the last five years, have found a new home as Editors of *Atari Explorer* magazine. Atari certainly could not have found two more competent and literate people to handle the helm of their company magazine. We are eagerly looking forward to seeing the first copy published under their leadership (July/August).

COMPUTER TRIVIA
 Digital Research Corporation was originally called Inter-galactic Digital Research.

COMPUTER TRIVIA
 IBM was called the Computing Tabulating and Recording Co. (CTR) when it was founded by Herman Hollerith in 1896.

BIG ROUNDUP!

Despite closings, mergers, takeovers, et. al., there are more products than ever before in this Roundup: over 1600, to be inexact! And some of these are 'generic' listings for educational series or small specialty companies, that actually encompass many dozens of titles each. Besides the 1100+ listings for the venerable 64, the big news is that there are over 100 C128 specific programs now available (something we didn't expect), and over 300 for the Amiga, many of them from new startup companies. Remember that we don't list all titles from all companies. Contact the companies themselves for complete lists of the products they have available.

Browse to your heart's content. We hope you enjoy the Product Roundup!

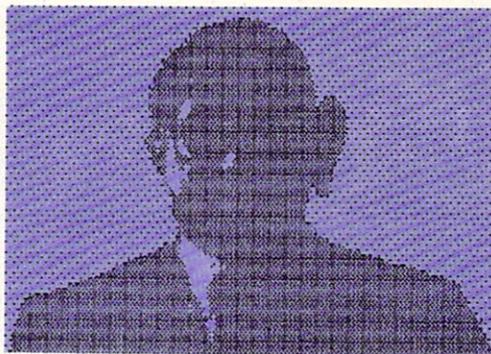
AMIGA C64 EMULATOR

We just found out that a Commodore 64 Emulator is finally coming for the Amiga! This product includes a hardware interface to connect a 1541 or 1571 drive directly to your Amiga. The software is not multitasking. It takes over your Amiga, effectively turning it into a Commodore 64. You have a 320x200 hires screen with the sixteen C64 colors available, and a claimed '99.9%' software compatibility at 100% C64 speed. It will be available in merchants by September first at a retail price of \$149.95. From Software Kingdom, 122 Prospect Hill Rd., East Windsor CT 06088, (203) 627-8180.

The Rumor Mill also reports that Cardco had a C64 Emulator AND a MacIntosh Emulator under development when the bank closed them down. If that's true, then let's hope that these products resurface quickly!

COMPUTER TRIVIA

Steve Wozniak originally offered the Apple computer design to his employer Hewlett Packard. They turned it down.



RUMOR MILL

Our favorite rumors of the last few weeks...

-->A message on QuantumLink says Commodore/Amiga's Back To School ads in September will offer an Amiga, 512K, monitor, and Sidecar for \$1395, \$1475 with second drive.

-->Another message on QuantumLink says the Amiga 2000, featuring 2 megabytes of RAM, five slots, and a 10% faster 68010 cpu chip, will be shipping to dealers in 6 to 10 weeks.

-->On the other hand, our West Coast contact says that the Amiga 2000 will not be produced at all, except possibly in European versions.

-->He adds that the Amiga 3000 (the Ranger) with 68020, 1024x1024 graphics (we've also heard 1024x780), and crystal clear 640x400, will be out in Spring '87.

-->A major software developer (also on the West Coast...all the best rumors start in Silicon Valley) says that Commodore is planning a machine called the Amiga 500 for mass merchandisers. This model will be sold with no drive, and version 1.2 of the operating system in ROM. It will have a maximum RAM expansion capacity of 1 megabyte and sell in the \$600 range.

-->One conversant on the AmigaForum Sig on Compuserve says that Jack Tramiel/Atari is buying Amiga and will assume control of the company in August.

-->The most consistent figures we are hearing as of mid-June for Amiga sales are around 100,000 units worldwide.

-->The very latest as we go to press, from the proverbial Very Reliable Source, is that the Amiga 1000 is definitely going to mass distribution. The date will be September first. The price drop should be dramatic.

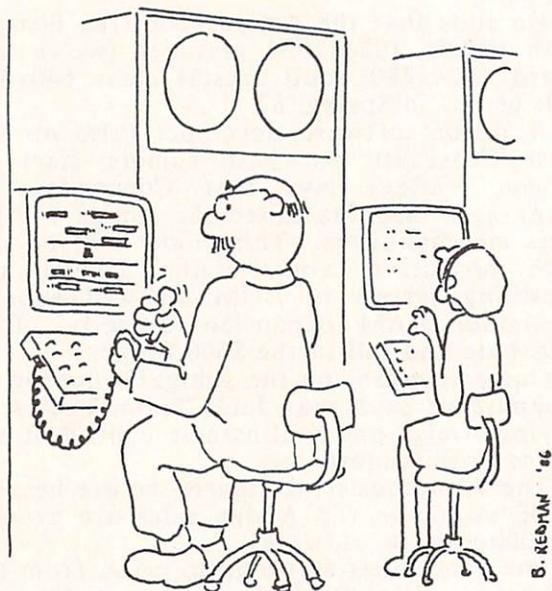
TRUE FACTS

-->Sources in California say they can buy a 512K Amiga with second drive and RGBA monitor for \$1295, more than \$150 less than the street price of a similarly equipped Atari 1040ST system! Now who's talkin' Power Without The Price?

-->Beta copies of version 1.2 of Kickstart and Workbench are making the rounds underground and it is slick! You've got built-in disk cacheing, a font editor, faster disk I/O, and Preferences includes a new screen for serial port adjustments. We hear lots of talk of ROMming this version once the bugs are worked out. ROMs would save Commodore \$40/unit over current production costs.

-->WE HAVE A SPARTAN! Yep, after all this time, we finally have a production model of the world-famous Spartan Apple][+ emulator for the C64. Suggested Retail is now \$300. It came in too late to evaluate this issue, but look for a CloseUp next time!

-->Commodore is saying that they have sold over 600,000 C128s since its introduction. That explains why the C128 software list in this RoundUp issue tops 100 titles. Now where are the games?



"Damned if that Fenwick over at Orcorp don't play a mean Frogger!"

REST IN PEACE

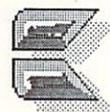
In putting together this Roundup Issue, we discovered (or at least confirmed) the demise and/or disappearance of many old familiar names in Commodore computing. Even though the companies may be gone, their products are, in many cases, still available by mail-order or at discount-store closeout sales. For information on these products, check out one of the older INFO Product Roundup issues (#8,#1-#5).

If you are a software manufacturer, let us point out that many fine products disappeared along with these companies, and if you can track down the principals you might be able to license some good products and bring them back to an appreciative public. Here is a partial list of Those Who Have Gone On To A Better Place:

ALIEN GROUP	Voicebox
CODEWRITER	CodeWriter
DATA 20	Video Pak 80
DON'T ASK	S.A.M.
IMAGIC	Moonsweeper
KIWISOFT	CadPic
MIRAGE	Mirage Wordprocessor
MUSE	Castle Wolfenstein
NANOSEC	Pro-Compiler
NUFEKOP	Cavern Construction
PARKER BROS.	Q*Bert, Frogger
SCREENPLAY	Pogo Joe
SOLIDUS INTL.	Sysres
WAVEFORM	Colortone Keyboard

We wish the people who were associated with these companies good fortune in their new endeavors.

You may also notice that many software companies have merged or been taken over since last time. This is the best news possible, since this means that many companies that might not have made it on their own will be producing quality products well into the future. The company name has often been retained as a 'label' under the new company (as in Telarium under Spinnaker), or has even been allowed to continue functioning as an autonomous division, as is the case with Infocom under Activision. In any case, we are glad to see these companies still going strong.



Famous Comstar National Brand 10" Printer Sale Includes Commodore

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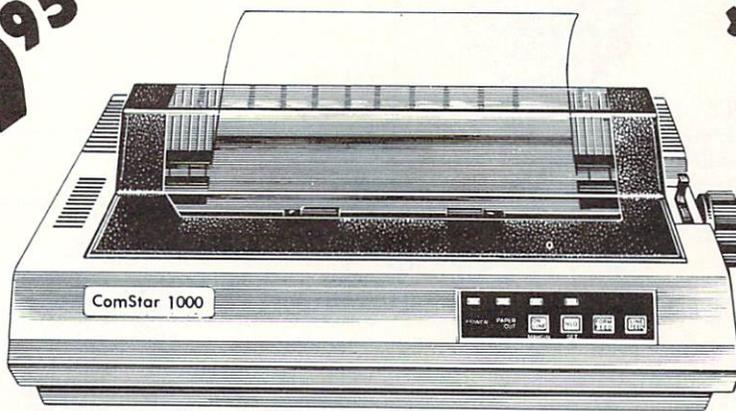
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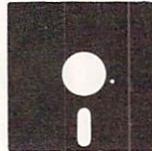
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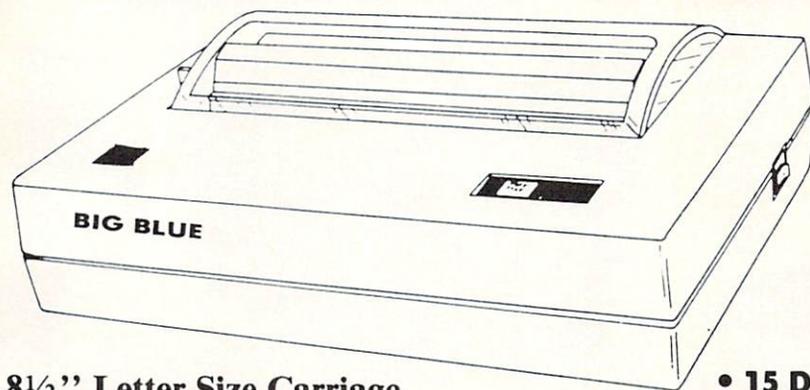
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CES CHICAGO

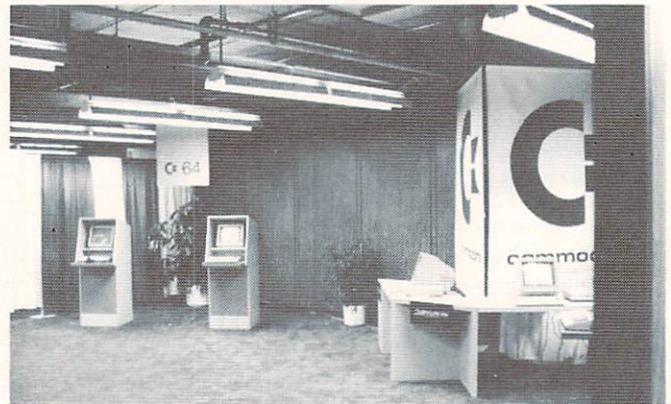
As usual, CES/Chicago served as a kind of barometer for the entire personal computer industry.

Commodore was in the show, then they dropped out, then they were going to be in a suite at the Palmer House Hotel, then they were back in the show, not with their big floor display, but in a mezzanine room, just like Atari was last year. Atari was at the show in full force, with a brand-new custom-built display chock full of third-party developers, just like Commodore had last year. Tables turn, it seems. There was a lot of speculation that Atari must now be doing 'all right' and Commodore must be the ones 'in trouble' based on the displays they had.



Even though the mezzanine showroom might have looked good on the accountants' books, in an industry where looks are everything and the future of your business depends on the rumor mill, we think it was a mistake for Commodore to cut back.

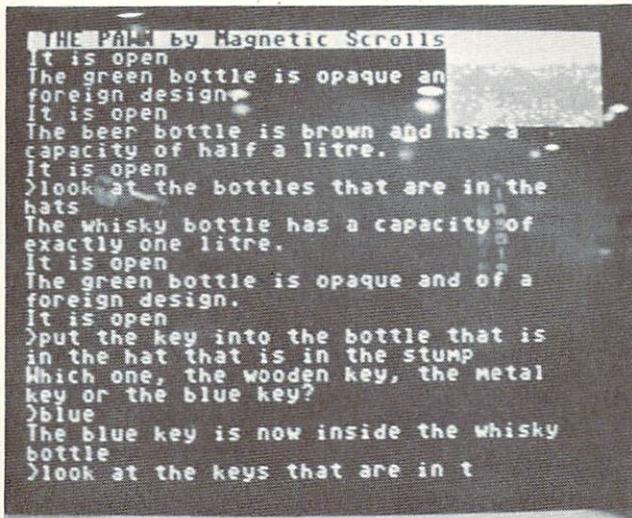
The only machine they were showing was the 'new' 64C. There was not a C128 or Amiga in sight, though several third-party developers were displaying the other Commodore machines in their booths.



On a more upbeat note, though the space needed for the computer displays at CES was way down from previous years, it seemed to us that the quality of new products was way up. Here is a look at some of the best new products we saw at CES in June.

STAR GEMINI II

The latest printer from Star Micronics is Commodore-compatible with a built-in serial buss connector. The Gemini II dumps draft quality dot-matrix output at 120 characters per second, nlq at 30 chars/sec. It uses a cartridge ribbon and includes both friction and tractor feeds. Suggested retail is \$329. All functions are controlled by combinations of front-panel control keys (no dip switches!). A Centronics-interface version called the NX-10 which emulates the PC Graphics Printer is available for \$20 more.



NEW TITLES FROM FIREBIRD

Firebird meant business at CES, showing many new titles for Commodore machines. The Music System (\$39.95) for the Commodore 64 is a SID based music development system with menus and easy music editing. The Advanced Music System picks up where its sibling leaves off, adding some advanced editing features as well as MIDI control and the ability to print sheet music scores on a dot-matrix printer (\$79.95).

By far one of the most impressive new games previewing at CES for any machine was The Pawn, which will be available in versions for all three Commodore machines as well as the Atari ST. The Pawn is an illustrated text adventure, but with several innovative features. The graphics are displayed in pull-down 'window-shade' screens which slide up and down over the text display. When up, you can optionally choose to have a small 'cameo' version of the illustration displayed at the top of your text screen. But the most impressive feature of The Pawn is its parser. Not only does this game employ an impressive vocabulary, it applies advanced artificial intelligence techniques to parse out parts of speech, which makes it possible to communicate complex commands in plain English. For example, it understands "Put the key in the hat on the stump" contextually as either "put the key which is now in the hat onto the stump", or "put the key into the hat which is on the stump", depending on which is appropriate. The Pawn is sure to inspire a whole new flurry of interest in the illustrated text adventure genre.

NEW FLIGHT SIMULATORS

Two companies were showing flight simulation games based on historically accurate renditions of WWII aircraft. Spitfire 40 (\$35.00) puts you into the heat of battle in the cockpit of a Mark I Supermarine Spitfire, accurate right down to fuel pump problems! From Avalon Hill.

Ace of Aces (\$29.95) from Accolade simulates four missions aboard the British RAF Mosquito fighter/bomber. The scrolling cloudscapes and view out the bombay doors are high points of this historical simulation.

PARTNER 64/128

Timeworks was showing the C128 version of their incredible new Sidekick-style utility program, Partner 128 (\$69.95). Partner resides on a cartridge, ready to pop up at a press of its built-in button from within any application.

If, for example, you are working on a spreadsheet and want to make a note about something you suddenly remembered you need to do later, just press the button to pop up Partner's menu. Select the Memo Pad option, type your note and save it, then jump back and resume your spreadsheet work where you left off. Besides the Memo Pad option, Partner includes an address book, calculator, phone book/autodialer, date book/calendar, and a screen dump utility. There are also programmer's hooks and enough additional internal cartridge RAM to be able to add user-developed functions to Partner. Timeworks expects users to develop many public domain programmers' and applications utilities that will link into the Partner cartridge. I was very impressed with the demonstration at CES. This seems to be the best thought-out and most well-designed product to ever come out of Timeworks. A C64 version will follow this fall.

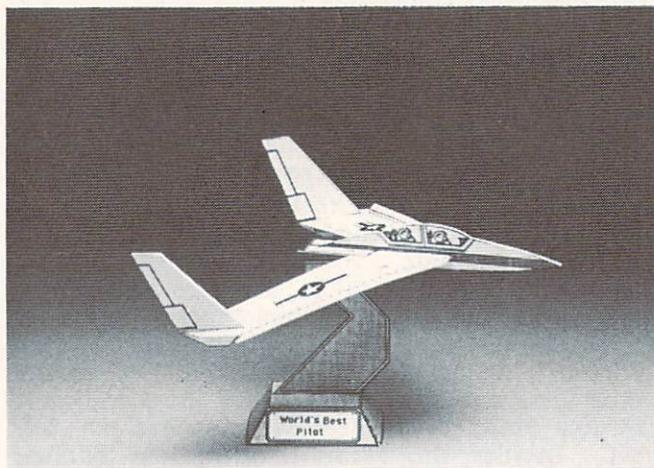
EPYX

Epyx was showing several new titles, including World Games, a sort of around-the-world Olympics; The Movie Monster Game, in which you control one of five monsters (including Godzilla) and munch up a major metropolitan area of your choice; Super Cycle, which is basically Pole Position on motorcycles;

and Championship Wrestling, which looks to have captured the phoney showmanship of the 'real' thing. Epyx has also started to deliver their first Amiga titles, versions of *Rogue* and *The Temple of Apshai Trilogy*, which is all included on one disk in the Amiga version!

PRINTER CREATIVITY

The Print Shop from Broderbund was the first, but now there seems to be a whole wave of printer creativity programs following in its wake. Broderbund themselves showed one of



the most innovative, and indeed one of the most interesting new titles at CES. *The Toy Shop* (\$59.95) turns your computer and printer into a paper toy factory. Using the dowels, adhesive cardboard, and other materials provided in the program package, you paste down, cut out, and assemble a marvelous array of printer-generated toys, ranging from a balloon-driven model steam engine to a foot-high ferris wheel. The models all have a wonderfully Victorian, detailed look to them. This is a great high-tech approach to a fascinating but nearly-extinct part of childhood: home-made toys.

Springboard has followed up their innovative *Newsroom* program with *Certificate Maker* (\$49.95) which, naturally enough, lets you create professional-looking customized award certificates on your printer. Both the humorous and the serious examples we saw looked really nice.



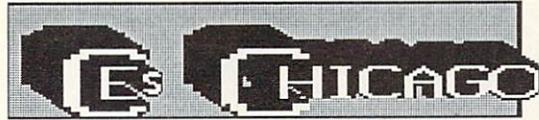
Another entry in the genre was *Create With Garfield* (\$29.95) from DLM Educational Software, a card-and-sticker customization program featuring the characters from the popular *Garfield* comic strip. Bantam Electronic Publishing was showing greeting card and comic-strip creation programs featuring Mickey Mouse and the other Disney characters at \$34.95 each.

VOICE TELECOMMUNICATIONS

HearSay Inc. demoed a speech/voice recognition device for the C64 called the *HearSay 1000* (\$79.95). They are offering a companion telecommunications program for \$29.95 which, when used in conjunction with the *HearSay 1000*, will allow two-way telecommunications via Compuserve or other carriers using speech. This could be quite a boon to the handicapped. The unit is also compatible with Infocom adventures, Commodore LOGO, The Consultant database manager, and many other C64 titles.

PROGRESSIVE PERIPHERALS

The folks at Progressive Peripherals were showing an impressive array of new products. *Device One* is a printer interface for the C64/C128 with a load of extra features. Among them are three sizes of five fonts in ROM, 16K RAM buffer, and support for hires



screen dumps, calendars (from its own perpetual calendar in ROM!), letterhead designs, banners and more. Device One gives you many of the capabilities of a printer creativity program inside your printer interface, accessible from standard wordprocessors and other software.

One of the most exciting revelations of the show involved the release of details about the Amiga version of Superbase. This product will be without a doubt one of the most devastatingly powerful applications ever developed for a personal computer. The features would fill a book, but here are some of the most exciting: the integration of picture files into your files, 17 gigabyte maximum file size, up to 16 million records per file, up to 999 indexes per file, 15-digit numeric precision, unlimited number of fields per record, unlimited number of open files....well, you get the picture. Besides all that, an advanced version of Amiga Superbase will be available at a later date, equipped with its own dataBASIC programming language which will be Amiga BASIC compatible. Availability? All we know is "Fall."

C128 GAMES COMING

This CES saw the first trickle of games taking advantage of the superior memory and display capabilities of the C128. Besides *The Pawn* from Firebird (mentioned earlier), which offers advanced capabilities in the C128 version, Telarium announced *The Scoop* (\$32.95), an Agatha Christie murder mystery text adventure for the C128. There was also *Trinity* (\$39.95), from Infocom, a sort of weird combination of *Alice in Wonderland* and *Armageddon*. We can only hope that more will come.

Though it's not a game, it's not a wordprocessor/database/spreadsheet either, so Activision's *I Am The C128* (\$34.95) deserves mention here, too. It's a tutorial for the C128, similar to their "I Am The C64".

ACTIVISION

Activision also introduced *Hacker II: The Doomsday Papers* (\$39.95) for all Commodore machines, available this Fall. In *Hacker II* you are commissioned by the government to hack your way into a secret Soviet defense complex. This one features four miniature independent video monitor displays on-screen and programmable robots. If you liked *Hacker*, *Hacker II* looks like more of the same great stuff.

Garry Kitchen's *Game Maker*, which looked good on the C64, looks great on the Amiga! This program gives you all the tools you need to design sprites, music, sound effects, and backgrounds, plus a gamemaker programming language and editor to put them all together with. I was fascinated by just the sound effects editor of the Amiga version! Available in the Fall.

Activision also showed a fascinating logic game for the Macintosh called *Shanghai* that we DESPERATELY hope they will translate for the Amiga in the near future. (This game is addictive and we don't own a Mac!)

Activision also announced that they would be coming out with a line of software called *Solid Gold*. These disks will contain computer versions of some of the old, great game machine titles they hold the rights to, such as *Demon Attack*, at a low price. Sounds like a good idea.

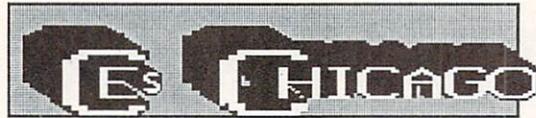
Also of interest at the Activision booth: *Murder on the Mississippi* (\$34.95), a joystick-driven active-illustrated adventure game for the C64, and *Two-on-Two Basketball* (\$34.95) for the C64, a team-player version that includes the passing game.

INFOCOM

Still shunning graphics, Infocom introduced several new text adventures at a gala CES party held in the Field Museum of Natural History. Besides the very strange *Trinity*, which combines historically accurate details of a-bomb incidents with a time-travel story, there is the even weirder *Leather Goddesses of Phobos*, which can be played in any of three playing modes: Tame, Suggestive, or Lewd. This sexy farce promises to make even "Hitchikers Guide to the Galaxy" look tame. *Leather Goddesses* will be available on all Commodore machines, but *Trinity* just would not fit on the C64. It will be released for the C128 and Amiga only.

ELECTRONIC ARTS

EA was again 'off-site' in a hotel suite, showing an impressive array of new products. What most impressed us was *Deluxe Video* (\$99.95), for the Amiga, which will open up Saturday-morning cartoon style animation to personal computer users. You can animate multicolor objects in 3D, adding video effects like fades and wipes, plugging in music and



sound effects, even using Deluxe Paint screens as backgrounds. This one will blow a lot of people away with its incredible capabilities.

Also impressive was *Instant Music* (\$49.95), which really makes music that sounds like music with simple manipulations of a joystick. This is the closest thing to becoming an instant virtuoso we've seen.

Among the other titles EA was previewing were their first text adventure, *Amnesia* (\$39.95), for the C64, and the Amiga version of *Ultima III* (\$59.95), as well as *Chessmaster 2000* (\$44.95) and *Marble Madness* (\$49.95), both Amiga games.

MINDSCAPE



By far the most exciting new products announced at the Mindscape suite were the *Cinemaware* line of 'interactive movies' for the Amiga from Master Designer. *Cinemaware* is a new level of interactive fiction, giving you control over a video character in a cinematic-quality scenario. Your character can move in 3D in and out among the props in the scene just like a character in a movie. Though all we saw were some very preliminary demos, this software will be incredible if it lives up to its promises. Four titles will be available this Fall, with another slated for Winter release.

ACCESS

Access was showing an Amiga version of their excellent golf simulation *Leader Board* (\$39.95) right next to the Atari 520ST version. Though it was written in C and the ST version was in pure machine code, the Amiga version looked better and ran faster. There was a noticeable delay between screens on the ST, but the Amiga version flipped from screen to screen without interruption. They were also demonstrating the next in their series of sports simulations, *Tenth Frame* (\$39.95), a 3D bowling game.

BATTERIES INCLUDED

BI was touting several new products, most of which we've heard of before but are now closer to shipping. We picked up a preliminary copy of *Paperclip II* (\$79.95) for the C128, which includes telecommunications and spellchecking capabilities, plus multiple-column output, chaptering, word wrap, and more. *Paperclip Elite* (\$129.95) for the Amiga will have more features than you can shake a stick at, including idea processing capabilities, and integrated text and graphics, and independent linked windows. And watch for *Degas Elite* (\$79.95), an improved version of *Degas*, the premier Atari ST drawing program.

CLASSIC IMAGE

If you like diabolical logic and strategy games, *Classic Image* was showing *Diablo* (\$29.95) for the Amiga. This brain-buster features a ball rolling along a track; you have to slide pieces of track in front of the ball to keep it going. It's tough, and it's addictive.

BODYLOG

This new company was showing their *Bodylink* biofeedback system for the C64, along with several products that work in combination with it for aerobic training. Prices for a basic set start at \$139.95, with additional sensors and software available. This should create a whole new market among the body-conscious for C64 computers.



COMMODORE

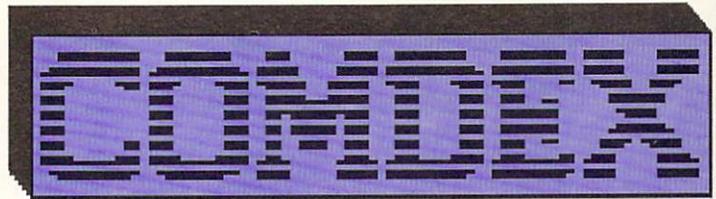
Like we said before, Commodore was only showing the repackaged 64C computer. No C128s or Amigas were in sight. The 64C is being bundled with the GEOS operating system and QuantumLink telecommunications software, and they were pushing both with gusto at the show.

The 64C is a nice-looking machine. Internally, we hear that a couple of chips are changed but they won't affect software compatibility (really?) Externally, the case looks like a miniature of the C128's, unfortunately without numeric keypad. It looks good, but at the retail list price of \$229.95 you are being forced to pay for software you may not want, and the price is getting up awfully darned close to that of the C128. We still think the older model 64 is a better deal, though the looks of the new model and the fancy demos dealers will be able to do with GEOS will probably sell a lot of 64Cs, and at least the folks will be buying a good computer.

GEOS looks good in its new full-color version. (See our comments on GEOS elsewhere in News & Views.)

The big news on QuantumLink was Lucasfilm's new Habitat telecommunications 'environment'. This will be a new premium service (surcharge rate unsettled at presstime) that creates a graphic world on your screen. You are a little character in that world, interacting with other folks and their characters. There will be towns and villages, buildings, objects, and all the other aspects of a good graphic adventure, but the idea of Habitat is to give you a new world to explore and experience. In addition to the established territories, which will include thousands of interesting areas, you can create your own 'turf' with its own objects and decor. While you are on-line others can come into your area.

If you've always wanted to open your own bar & grill, or comedy shop, or dungeon, you can do it in Habitat! This is one of the most innovative ideas we've ever seen in telecommunications.



REPORT BY: **Peggy Herrington**



Photo by Vic Farmer, Official COMDEX Show Daily.

COMDEX-AMIGA

COMDEX is a business-oriented trade show with a suit and stuffy-demeanor dress-code but at Atlanta in late April, in their first COMDEX appearance ever, Commodore Business Machines caused a nice little unbusinesslike commotion. Jerry Pournelle, senior editor at BYTE magazine reporting in INFOWORLD (May 12) said he'd saved the best news for last, calling activity in the Commodore area a feeding frenzy, which he knew was appropriate because retailers, like users, have been starving for product.

There wasn't a C64 in sight.

What WAS in sight were shoulder-to-shoulder crowds around a shiny white, two-level steel structure labeled AMIGA. It dwarfed nearby displays and the COMDEX SHOW DAILY called it an oil well rig. Well, sharks and money add up to a pretty aggressive image, if you ask me.

IBM COMPATIBILITY PLUS

And Commodore WAS aggressive. They had a big surprise in the form of a major Amiga accessory. The Sidecar allows the Amiga to run IBM software at full speed, making it a viable alternative in our IBM dominated business world. As you may know, consultants advise finding software for your application before you even look at hardware. And because there's more IBM professional software available than any other, the majority of firms go that route.



REPORT

Still, considering the proliferation of low-priced IBM clones (something Commodore must have done when they decided not to market the PC-10 and PC-20 stateside after all) you might wonder why Amiga IBM-compatibility is such a big deal. After all, the Amiga is faster with superior graphics and sound, which would seem to tailor it for broader use than, say, accountants. Although that seems to be the popular consensus and people buy computers for other than office use, it seems many follow precedent even when it doesn't make much sense. Sidecar is the Amiga's passport into tradition. "Instead of all those late nights at the office, dear, you could bring your work home."

AMIGA SIDECAR

The prospects for true compatibility look good. Sidecar uses Phoenix IBM-compatible ROMs and the Amiga engineers who designed it reportedly broke every known copy-protection scheme in the process. Gail Wellington of Commodore England did a zillion demonstrations at COMDEX, each time sliding down a screen on the Amiga display at just the right moment to reveal Flight Simulator or Lotus 1-2-3 running in the background. That's right; multitasking with up to two IBM displays, one in color and one in monochrome (only one is executable at a time, however) with Amiga programs running in as many windows as memory permits.

The Sidecar is about 10" wide, 1-1/2" higher and 2" deeper than the Amiga. Connecting directly to the expansion bus, it sits to the Amiga's right and holds the power supply and interface, 256K of RAM, and an 8088 micro-processor running at 4.77 MHz, just like an IBM-PC. Three IBM compatible I/O expansion slots are in it along with a 5-1/4 drive of 360K capacity and a socket for an 8087 Floating Point math coprocessor. Word now is that it won't be out until December, but Wellington was quoting fall availability at substantially under a thousand dollars, -- off the record, in the area of \$600 to \$700.

AMIGA ADVANTAGES

Now, that's a decent price for an IBM clone sans monitor but since I have little need for IBM software (especially at THOSE prices) I wouldn't be excited about the Sidecar if that's

all there were to it. I haven't worked with it yet but get this: Devices in the Sidecar I/O slots are said to be accessible by the Amiga operating system along with the internal disk drive and a second 5-1/4 or 3-1/2 drive, to a capacity of 720K. Here's an example of what that means: Right now, you can buy an IBM-compatible hardcard that functions like a 20 MB hard drive (storage for 20 million bytes or words, roughly speaking) for \$600 or \$700. If you had the Sidecar, you could stick that hardcard in a slot and you'd have a functional 20 MB hard disk drive partitionable between AmigaDOS and PC-DOS. That's just for starters. Lots of goodies are available on IBM cards and they often cost less than Amiga hardware because of economy of scale.

This sharing of resources is possible due to Sidecar's closely coupled dual processor system which means that IBM programs could access the Amiga's internals as well, including devices connected to the ports and calls to the ROM operating system.

Of course, the hitch to all this is that the Sidecar isn't available now and Commodore's record for getting things to market is not exactly reassuring. But if you're thinking of adding a hard drive or other sophisticated peripherals, in the short-run it looks like the Sidecar might save you some money, even if you don't need IBM compatibility.

But there's one more consideration. RAM in the Sidecar is not useable by the Amiga itself and I was recently told by an Amiga engineer that extending Amiga RAM by 2 MB in the Sidecar as announced at the show may not be possible after all.

THANKS FOR THE MEMORIES

Another exciting piece of hardware shown at COMDEX was PAL, Byte by Byte's expansion chassis that's 5" high and sits between the Amiga and its monitor. PAL houses 1 MB of onboard RAM and a 200-watt power supply with a 5" whisper fan. It fits the ZORRO expansion architecture with a 100-pin connector. All memory is No Wait State and is automatically configured with version 2 of the Amiga operating system. PAL retails for \$1795 and should be available by publication. (20% off to Amiga developers from Byte by Byte.)

You can get a high-speed DMA controller capable of data transfer rates of 10 megabits per second for PAL (\$895 retail) and a clock/calendar device with five DMA slots. (CSA's 68020 fits nicely there, I'm told, as will other Amiga products being developed.)

Two PAL hard disk drives are available. A 20 MB unit with 65 mSec access time (\$450 to developers) and a 45 MB unit with 35 mSec access time (\$1200 to developers). Byte by Byte also offers a 2 MB RAM board (\$995 to developers) expandable to 8 MB onboard. Also in the works is an Ethernet networking device.

Computer System Associates (CSA) has a Motorola 68020/68881 piggyback board for the Amiga that promises to boost performance speed up to 40 times in calculation intensive applications. It plugs directly into the 68000 socket inside the machine and is said to be fully compatible with Amiga programs. Call for pricing.

2 megabyte expansion boards from Comspec Communications Inc. were plugged into many of the Amigas at the show. Retailing at \$1079, this unit functioned properly with software by the exhibitors I asked, and Comspec says it uses standard memory bus architecture and permits the addition of other peripherals.

I picked up their flier but CardCo's aMEGA 1 MB expansion board wasn't in evidence at COMDEX. It's list price was \$549.95, but now that CardCo's doors are locked it's hard to say if anyone will be picking it up, and at what price.

BUSINESS AND PRODUCTIVITY

Dozens of programs were shown at COMDEX, many of them professional applications. An Amiga catalog in a mountain of fliers had color screen shots of 59 programs, each with a brief description (a format they said was inspired by INFO's Gallery section) but it didn't begin to include everything there.

Among professional programs demonstrated were several interesting and dissimilar data base types:

Acquisition from the Tarus-Impex Ltd. of England is a data base with both relational and heirarchical filing structures. The filing system is mapped and linked by paths and does not require key fields or indices. It's multitasking and uses the mouse, windows, etc., and will handle IFF formats, system memory being the only limit to size, complexity or number of

ways you access and manipulate data. Three editors and ACOM, a language with dBase III command structures, are in the deluxe version and programs can be written from scratch and translated into C, Pascal and BASIC and then attached or compiled into others. Available in three stages: \$99 for the basic system, \$199 with filing system and data base languages, \$299 for program generation.

InfoMinder from Byte by Byte may seem similar but it's a centralized, hierarchial information retrieval system that accesses up to seven files at once, sending them to the screen, to a printer or narrating them. It seems to incorporate a full function word processor with justification, word wrap, font styles and colors, and has cross referencing and various user definable display formats. Although you can store and retrieve both text and graphics with it, it's geared toward displaying help screens and documentation during program operation. It's only about 80K in size so you could keep it in the background for reference texts while running other programs -- yes, it accesses the drive fast enough for that, due to data compression techniques. It was designed with an eye toward compact disk retrieval. Available at \$89.95.

MiAmiga from Copperstate Business Systems is without a doubt the prettiest business program I've ever seen. It sorts in RAM on multi- fields in ascending or descending order for printed reports or mailing labels. Up to 32,000 records per file with variable length management are accomodated. Screen displays are coordinated in subtle shades of blue, beige and grey. It's beautiful and out now for \$99.95.

Flow, from New Horizons Software, is an idea processor that's super simple to use but tough to describe. Billed as a tool for organizing appointments, tracking projects and formulating ideas for papers and books, it looked like something I could sure use. They had Amiga magazines entered into it. Only the names of the magazines, in a bold font, appeared on the screen. By pointing and clicking on one of the titles, out flowed the dates and volume numbers of its recent issues, pushing down the other magazines titles in the original list. When you clicked on a particular issue, down flowed its table of contents, each successive level indented and in a different font. More clicking turned up my name which, of course, didn't affect my opinion of the program at all. Flow is available now for \$99.95.

Organize! from Micro-Systems Software has the same user interface as other M-SS programs (**OnLine!**, **Scribble!** and **Analyze!**) and is a data base management program designed for occasional as well as heavy use. Limited to disk capacity, each record or form can contain up to 128 fields on up to 4 pages, each holding up to 254 bytes to a maximum of 4,000 bytes (read words) per form. Personalized form letters can be done using **Organize!** with **Scribble!**

BUSINESS AND ACCOUNTING

Financial Plus from Byte by Byte looks to be a complete professional accounting system with general ledger, accounts payable, receivable

and payroll. With it, you can create invoices and statements, print checks, journals, and financial reports like balance sheets and P & L statements. Included is **Write Hand**, a full-featured word processor, spelling checker which is also available separately. Documentation includes a tutorial and looks extensive.

SPREADSHEETS

Four Amiga spreadsheet programs were mentioned at COMDEX although I didn't see Lattice's **UniCalc**. This kind of utility program is handy for financial analysis and planning (and playing what-if with your budget) or for bookkeeping, check registers, mailing lists and a host of other applications.

VIP Professional is an integrated spreadsheet from VIP Technologies. It adheres to the Lotus 1-2-3 standard which means you operate it in the same way and can use instructional materials already in existence. Bigger than 1-2-3 with 8192-rows by 256-columns, VIP says it will read and write Lotus 1-2-3 data files, has color presentation graphics and macros.

MaxiPlan, MaxiSoft's spreadsheet, is supposed to read and write 1-2-3 files but I haven't worked with it (or VIP) myself yet. **MaxiPlan** seems to use special Amiga features quite well. Cells support color (when you're in the red, you're REALLY in the red) and pie, area, line and bar charts in IFF format, and the Amiga's speech synthesizer will read information aloud. Electronic Arts distributes **MaxiPlan** at \$150.

Analyze! from Micro-Systems Software again uses their standard user interface. It offers 8156-rows by 256-columns using sparse matrix technology that prevents excess memory from being taken up by widely spaced cells. 40-plus formulas are provided for business, finance, educational and statistical applications.

WORD PROCESSORS

Scribble! from Micro-System Software uses the M-SS user interface with mouse, windows and menu features. **Write Hand** (\$50) and its spell checker from Byte by Byte's **Financial Plus** is available separately. It doesn't use icons or many other Amiga features.

PROFESSIONAL GRAPHICS

Aegis unveiled **Aegis Draw**, their Computer Aided Design (CAD) drawing package designed specifically for the Amiga. It allows creation of structured drawings with precision details with results going to a plotter or printer. At \$200 retail, how can you go wrong? Aegis was also demonstrating **Animator** and **Images**.

PCB CAD (Printed Circuit Board, Computer Aided Design) from Soft Circuits is a multiple layer, interactive autorouting CAD tool for engineers and technicians who want control over their printed circuit board artwork.

MUSIC AND GRAPHICS GALORE

It wasn't easy for music and graphics developers to steal the show from all that business stuff, but they're a creative bunch.

Mimetics was SRO for four days running -- that's **Shoulder Room Only**. They were showing **SoundScape**, their powerful Pro MIDI Studio (\$149) that also uses Amiga internal sounds, and their stereo digital sampler (\$99) both of which are IFF compatible, and their MIDI interface (\$49). All are available now.

Activision's pretty, non-IFF music program, **Music Studio** (\$59.95), was directly across the counter making music internally and with the **MIDI Gold** interface (\$79) from Golden Hawk.

Applied Visions was on the opposite side of the area with **FutureSound** (\$175), their stereo digital sampler with a pre-amplifier and mike.

Their sample files are IFF compatible and the unit is shipping.



Instant Music from Electronic Arts was shown briefly and it's the first music program I've ever seen that looks like it might be of real value to untrained musicians. (It's ready as I write this so I'll have let you know for sure.)

Electronic Arts also previewed Deluxe Paint Art & Utility Vol. 1 (which should be on the shelves now for \$30). It has over 175 brushes, three utilities and loads of ready-to-use maps, graphs, faces, aliens, dinosaurs and birds.

Digiview was there looking good with a rack to mount camera and lights over a photograph as it's digitized in 4096 colors or gray-scale. No price on the rack but Digiview is \$199.

Amiga Live! was there dutifully putting us on the screen as we pushed through the crowd. Breakthroughs in H.A.M. speed as we go to press make us hope it's available this fall as A-Squared says. Maybe even Genlock, too?

ENTERTAINMENT

Electronic Arts previewed even more new games. Among them were Marble Madness, which looks just like the video game to me (but I'm no expert) and a neat undersea game called Return to Atlantis that starts out like a movie with scrolling credits and wonderful music.

I played Mind Walker from Commodore-Amiga and enjoyed it but it defies description. It's being shipped as I write this.

Brataccas from MindScape is a cleverly and intricately done game that I liked a lot despite the fact that I couldn't seem to control the character movement very well.

Racter, the crazy talking program from Mindscape was shown but if you want a talking game, look into Conversation With a Computer from Jenday. BASIC source code is available.

EDUCATION

Several educational developers were there. They showed The Talking Coloring Book from JMH Software of Minnesota, Inc., (it looked simple to me), Scarborough's Master-Type, an enhanced translation of the C64 program. Queue, Inc., has Queue Geography and Queue Vocabulary, How a Bill Becomes a Law and Starting a New Business, and three from MicroEd, Inc., MicroEd Point, Vocabulary and Punctuation.

First Byte showed three speech programs translated from the Macintosh: SmoothTalker, a utility to add speech to other applications including BASIC, KidTalker, a talking notebook, and Speller Bee, for pre-school to junior high.

PROGRAMMING AND TECHNICAL

MetaScope: The Debugger (\$95) from Metadigm, Inc. is a symbolic debugging utility with breakpoint and trace capabilities supporting the mouse and multiple windows. It gives the developer a direct to memory assembler and requires a minimum of 128K bytes of memory.

Modula-2 from TDI Software, Inc., (regular \$89.95, developer's \$149.95) is a structured programming language billed as the successor to Pascal. I haven't used it but many programmers I talk to online say it's a complete package and easier to learn than C.

Speaking of Pascal, UCSD Pascal from Pecan Software (\$79.95) was there. It generates native code and will operate with optional Fortran 77, BASIC and Modula 2 compilers.

THE AFTERMATH

COMDEX was marvelous exposure for Commodore Amiga but the exultant mood was short-lived due to corporate lay-offs on both coasts a couple of weeks later. Although a casualty and deeply troubled by that action, Bob Pariseau, former manager of Amiga software development, remarked on BIX that the spirit that developed the Amiga lives on, and I believe it does. Lots of products are complete and shipping, and many more will be on your retailers' shelves -- as they say in the business -- Real Soon Now.



COMPUTER TRIVIA

Commodore's MOS Technology Division owns the rights to the 6502 cpu chip, which is in the AppleII and Atari 800.

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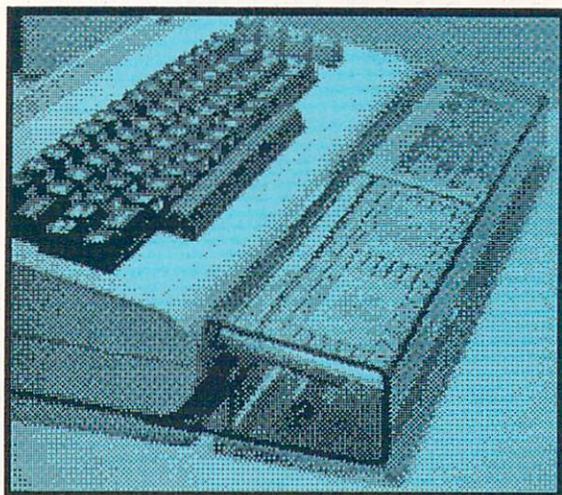
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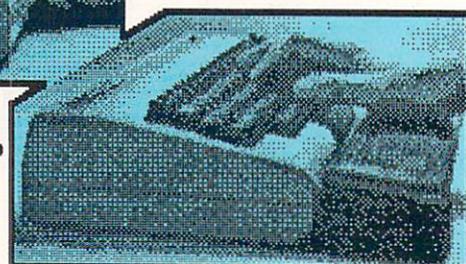
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be an indispensable reference guide for
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The pages that follow cover 1,632
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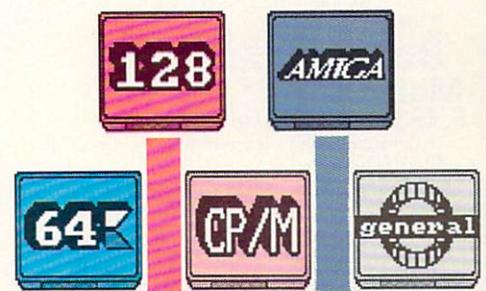
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SENSORY PERIPHERALS.....	71	--	--	--	--
INPUT DEVICES.....	72	--	--	102	86
DISPLAYS.....	--	--	--	--	86
PRINTERS.....	--	--	--	--	87
MISCELLANEOUS (hardware).....	73	83	--	102	87
MUSIC (hardware).....	38	--	--	94	--
TELECOMPUTING (hardware).....	39	--	--	94	86



SuperBase128
*\$ 99.95 Progressive Peripherals ****** R7
 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.)

PRICE: \$99.95
 PRODUCT NAME: SuperBase128
 MANUFACTURER OR PRIMARY DISTRIBUTOR: (-M.B.)
 RATING: *****
 Review issue or Gallery issue: R7
 DESCRIPTION provided by company unless followed by editor's initials or "staff".

How to Read the Listings

INFO RATING SYSTEM

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



INTEGRATED SOFTWARE

Vizastar

\$ 119.97 Solid State Software ****

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. The Commodore 64 answer to Lotus 1-2-3! (-Staff)

Magic Desk

\$ 49.95 Commodore ***

Introduced when icon-mania peaked, Magic Desk is elementary stuff. (-Staff)

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

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

Team-Mate

\$:na Tri-Micro

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

The Write File

\$:na Tri-Micro

Word processor with mail merge dbms and graphics.

Trio

\$ 49.95 SoftSync

Offers the three most essential computer programs (word processor, spreadsheet and data base) on a single disk. Full integrated so information can be exchanged between programs. Each program has continuous on-screen commands for easy reference. Plus pull down help windows for instant on-screen help in progress.

Typro-64

\$ 59.00 Input Systems

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



FINANCES (BUSINESS)

Accounts Payable/Checks

\$ 49.95 Commodore ***+

Commodore's somewhat stripped-down version of the Info Designs package. (-B.D.)

General Ledger

\$ 49.95 Commodore ***+

Commodore's somewhat stripped-down version of the Info Designs package. (-B.D.)

64-Accounting

\$ 69.95 Software Design

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

Accountant, inc.

\$ 59.95 SoftSync

Small business accounting package, includes sales analysis, accounts receivable, profit/loss statements, income/expense statements, and general ledger. Generates all pertinent reports.

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

\$ 89.95 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

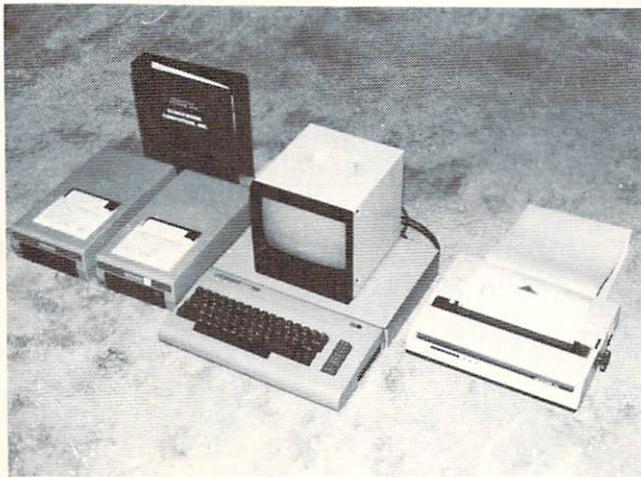
\$ 39.00 Business Systems & Conversions

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 a okidata printer. Cash drawer optional.

CCI Mortgage

\$ 154.95 *Clockwork Computers*

Based on the CCI Bottom Liner program with the additional function of posting mortgage payments for up to 98 mortgages per disk. Client file maintains address, phone number, pertinent mortgage data, etc. Provides amortization and loan schedules. Requires C64 or C128, two 1541s (or equivalent), 8050 or SFD1001.

CCI Property Rental

\$ 119.95 *Clockwork Computers*

A complete unit rental management package, that can search for availability, make reservations for specific 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.

Fab Business

\$ 47.95 *Fabtronics*

Invoice, packing list and mail labels in plain paper or commercial format.

Integrated Software Series

\$ 49.95 *Info Designs*

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

Inventory D-Base

\$ 27.95 *Fabtronics*

Inventory program with extensive report capabilities, including pricing variations.

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 all small business 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.

Tenant File

\$ 19.95 *Fabtronics*

Maintains a record on each tenant with 22 fields.

Utility File

\$ 27.95 *Fabtronics*

Meter reading data processing program, calculates usage stores & prints results, like averages and totals.

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. C128 version included. (-B.D.)

The Home Accountant

\$ 79.95 *Continental Software **+*

This could be an excellent package, unfortunately, the product in it's present condition can not be recommended; slow disk-accessing routines result in unacceptably long delays during routine processing. (-B.D.)

Amort-64

\$ 29.95 *Input Systems*

Amortization program that displays to screen or printer for hardcopies.

Comtax

\$ 29.95 *Milo Software*

Income tax preparation. Prints standard IRS forms.

Cost & Value of Retirement Fund

\$ 48.00 *Perfas*

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

Course I: Investments

\$ 54.95 *Wizards*

Numbers oriented course for serious real estate and stock market investors. Includes 120 page text, investment newsletter, and accounting tutor.

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.

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 enough for the serious investor, yet simple enough for the novice. Includes individual federal 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.

LifePlan

\$ 99.95 *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.

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.

Squire

\$:na *Blue Chip*

Simulation that lets you experiment with income and expenses to derive a financial plan for you that will let you retire as a millionaire within 20 years. Emphasizes value of money, inflation and interest bearing investments and tax advantages.

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

\$ 75.00 *JB Horton*

Stores 53 weekly prices per stock (data input by user). Stores values for 100 stocks per disk. Calculates 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

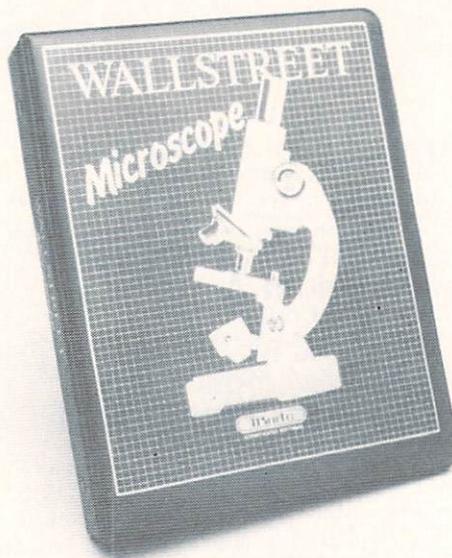
\$ 59.95 *Abacus Software*

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 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 maintenance capabilities. Demo disk also available.



Calc Result Advanced

\$ 99.95 *Handic Software *****

R-1

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. (-B.D.)

Pocket Planner 64

\$ 39.95 *Digital Solutions *****

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

Practical

\$ 49.95 *Computer Software Associates *****

Easy to use spreadsheet. Searching and sorting functions add extra value here. (-B.D.)

Vizastar's spreadsheet

\$ 119.97 *Solid State Software *****

R-7

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)

Calc Result Easy

\$ 49.95 Handic Software ***

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. (-B.D.)

Multiplan

\$ 45.00 Epyx ***

Microsoft's popular advanced spreadsheet package for the 64, at a fraction of its original cost and with most of its 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.)

Turbo Calc/64

\$ 17.95 Aquarian Software *

100X26 spreadsheet has no disk function support, strict top-left-to-bottom-right recalc, small 30-char edit line, etc. Severely underpowered, this spreadsheet is bound to be a disappointment even to those with the smallest of expectations. (-M.B.)

Better Working Spreadsheet

\$ 49.95 Spinnaker

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



Calkit

\$ 49.95 Batteries Included

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

Planner's Choice

\$:na 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.

Programmable Spreadsheet

\$ 39.95 PractiCorp International

Full feature spreadsheet which includes the ability that the user may program in BASIC for a convenient way for better input/output.

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

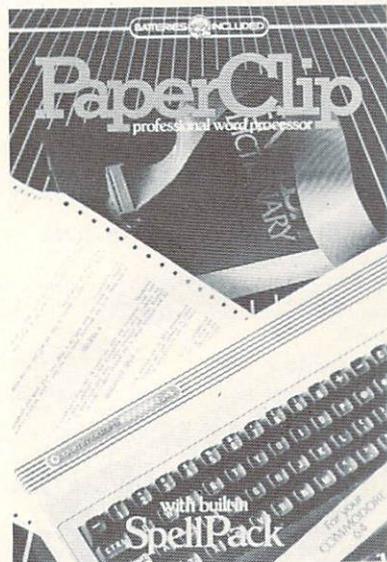
\$:na Synapse Software

Electronic spreadsheet, templates are available separately for predesigned use at home or office.



WORDPROCESSING

R-10



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. Dongle protected and includes Spellpack. (-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/S

\$ 69.95 Pro-Line ****

Same as Wordpro 64 but includes spelling checker. (-B.D.)

Wordpro 64

\$ 49.95 Pro-Line ****

All the original Wordpro 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 interfaces with Pro-Line's 25,000 word spelling checker. (-B.D.)



INFO



Easy Spell

\$ 29.95 Commodore ***+

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

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. 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 Sierra On-Line ***

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.)

Omnewriter With Omnispell

\$ 69.95 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 pretty good. Companion Mastertronic titles are Busical3 and Instant Recall (filer) at \$14.99/ea. (-M.B.)

Word Machine/Name Machine

\$ 19.95 Commodore ***

You get a mini wordprocessor and menu-driven mailing list program suitable for light-weight letter writing and mailings. Also included are DOS 5.1 and a nice program that will add a 'smart' directory menu to any of your diskettes. (-B.D.)

Bank Street Writer

\$ 49.95 Broderbund

Generally well-regarded wordprocessor especially suited to occasional users.

Better Working Word Processor

\$ 49.95 Spinnaker

Includes window based menus and 50,000 word spelling checker.

BrainStorm 64

\$ 12.95 Country Road

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

Creative Writer

\$ 50.00 Creative Software

Allows comment lines, 700 lines (not including linking), and integrates with sibling spreadsheet and DBMS. (-Staff)

Fleet System 2

\$ 79.95 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.

Font Master

\$ 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)

KwikWrite

\$ 20.00 Datamost

An entry level wordprocessor. Loads and saves SEQ files at 300% faster than normal. (-Staff)

SpeedPak

\$ 15.00 Upstart Publishing

Adds several useful functions to Speedscript, like user defined macro phrases, alternate fonts and mail-merge.

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

R-10

\$ 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.

Thoughtform

R-10

\$ 35.00 Thoughtform

Thoughtform is the first 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.

Trio Word

\$ 69.95 SoftSync

R-10

One of 3 integrated programs on disk. This one has advanced capabilities yet minor oversights. Includes windows and a clipboard. The define-a-range function only allows ranges from line to line. (-Staff)

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.

Wordpro GT/S

\$ 89.95 Pro-Line

Includes fastloading, memorising and recalling files.

Writer's Choice

\$:na Activision

Activision's revised and redone enhancement of Creative Writer.

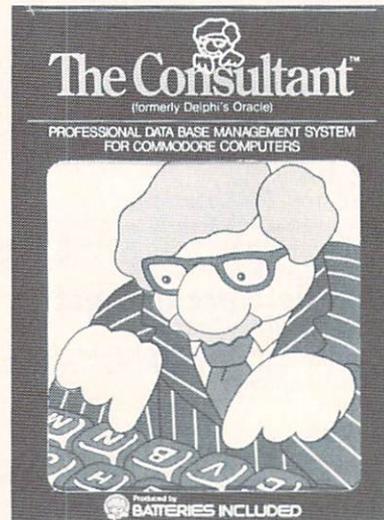


Superbase 64

\$ 99.95 Progressive Peripherals *****

R-3

This tops our list of the best database managers. Excellent products like 'Superbase 64' are elevating 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.

Vizastar's database manager

\$ 119.97 Solid State Software ****

Up to 9 screen pages can be used with up to 64 different fields. A total of 120 characters per field or 8000 characters per record. 30 character key field (only one allowed), 1200 records max (up to 65,535 on other disk drives), 120 databases per disk and 15 different files per database. Interfaces with spreadsheet commands, like the powerful 'exec' command. (-Staff)

R-7

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.)

Better Working File & Report

\$ 49.95 Spinnaker

DBMS with report generator.

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

\$ 29.95 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.

File Cabinet

\$ 5.00 Quantum Leap

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

Filer's Choice

\$:na Activision

Activision's revised and redone enhancement of Creative Filer.

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)

R-6

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.

Superbase Starter

\$ 49.95 Progressive Peripherals

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

R-3

VideoFile

\$ 49.95 VideoFile

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

XPER-64

\$ 59.95 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.)

R-2

Flexifont

\$ 29.95 Inkwell ****+

Light pen driven character generator with thirty-three accessible 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, calanders, banners, and more on your dot-matrix printer. On-screen preview before printing, fast print speed. (-M.B.)

R-10

Billboard Maker

\$ 39.95 Solutions Unlimited ****

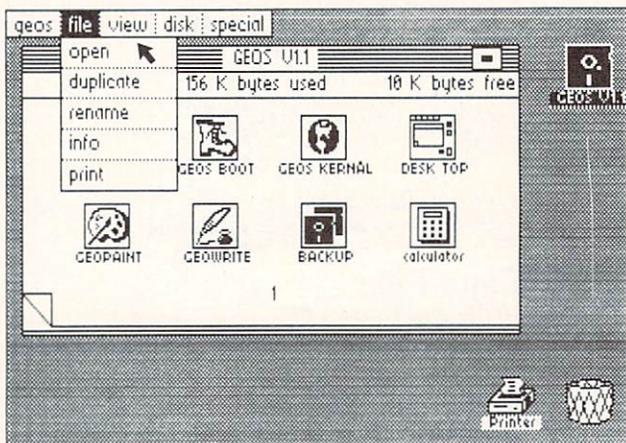
A unique program which takes pictures from almost any drawing program and converts them into signs and huge billboards, with a marvelous optimizer routine. Latest revision claimed to be much faster at 'optimization'. (-M.B.)

R-10

Doodle!

\$ 39.95 City 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. (-B.D.)



GEOS

\$ 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

\$:na 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.)

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.)

Paint Magic

\$ 34.95 Datamost ****

This is a solid color graphics package with all the usual bells and whistles, plus some extras like: create hundreds of your own fill-textures, complex multi-colored brushes with 'grab' function, merge 2 pages of graphics together. Screen dumps are not directly supported. (-B.D.)

Perspectives II

\$ 59.95 Briwall ****

Create 3-D hi-res line drawings on a unique orthogonal 'drafting board' where each of 3 views 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.)

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.)

Graphics Magician Pict. Paint

\$ 24.95 Polarware/Penguin Software ****+

Picture and object painter that lets you store many multi-color pictures on disk and recall them quickly. Pictures may be added easily to your own programs. This package is very tedious to work with compared to most graphics packages, but the resulting screens can be pulled off disk fast enough to be used in commercial software. (-B.D.)

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 II, and Atari 8-bit machines.

CAD GEM

\$:na Aquarian Software

A 3-D wire-frame package which supports light pens, keyboard, or joystick input, and can scale, rotate, translate, and zoom objects in space.

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.

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

\$ 34.95 Bantam Books

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

CardWare

\$ 9.95 Hi-Tech Expressions

CardWare produces animated greeting cards on disk or printed cards. Companions in the series include PartyWare (\$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 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

\$ 34.95 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

\$ 29.95 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 Koalpad). 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.

Designer's Pencil

\$ 29.95 Activision

Graphics and sound design system.

Fantavision

\$:na Broderbund

Another Broderbund landmark (originally designed for the Apple II, but soon to be available for the Commodore machines C64, C128 and Amiga), which lets you create simple full-screen animation in seconds, to create a movie-on-disk that you can send to your friends.

Flexi Aided Design

\$ 49.95 Briwall

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

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, converter routine.

Graphics Integrator

\$ 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. Available August 1985.

Graphics Magician Junior

\$ 19.95 Polarware/Penguin Software

Same as the Graphics Magician painter but w/o depth.

Micro Illustrator

\$ 29.95 Commodore

Graphics program with joystick or light-pen input.

Picasso's Revenge

\$ 59.95 Progressive Peripherals

Lightpen graphics package includes lightpen. Draws geometric, file converter translates other pictures.

R-3

Sprite Wiz

\$ 19.95 DJ Software

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



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.)

G-4

Master Composer

\$ 39.95 Access Software ****+

This is a real solid music-processor with 4 visible staves, 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.)

Dancin' Feats

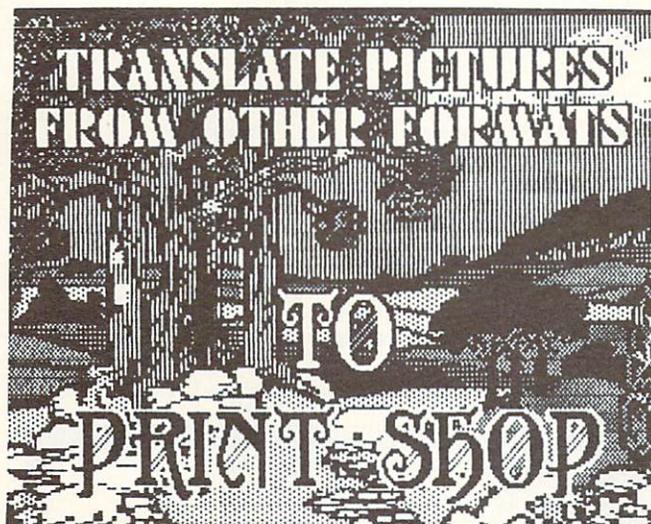
\$ 29.95 SoftSync ***+

This program makes up in accessibility what it lacks in depth. Completely menu-driven, you play along with some well-done background tracks from blues to rock to a waltz. What do you play on? Your joystick! The graphics display is tied to the music & is very dynamic. Fun & simple. (-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.)



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 Exporter-64

\$ 29.95 Aquarian Software

This utility is said to convert graphic screens by any graphics program into any other graphic format, including hi-res to multi-color and back. (-B.D.)

Note Pro II

\$ 49.95 Electronic Lab Industries ***+

A plain vanilla music writer with an ample set of creative tools, input & edit 8 measures of 3-part music on the 16-res graphics staff. One feature I like is the ability to transpose a score to another key without re-entering each note. (-B.D.)

Synthy 64

\$ 17.95 Abacus Software ***+

Fundamentally 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.)

Ultisynth

\$:na Quicksilva ***

This program proves that you can have lots of talent and skill and still make a mess of things. The problem is that it is overwhelmed by its own features, resulting hopeless encumbrances like the 4-page condensed reference card set. Honestly, even the author must not enjoy trying to compose on his/her system (as evident by the single unremarkable demo on the disk). (-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.

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 staves 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.

Easy Guitar

\$ 29.95 DJ Software

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

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.

L&L Yamaha Controller

\$:na L&L Music

Yamaha DX7 voicing/librarian.

MIDI-Patch

\$ 79.00 Hybrid Arts

Yamaha DX or Casio CZ series librarian.

Music Processor

\$ 24.95 Sight & Sound

99 preset voices, 8 octave play, compose your own tunes or play the prerecorded ones. Dumps compositions 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 octave 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.

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.)

Songwriter

\$ 39.95 Scarborough Systems

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

Sys/Ex

\$ 100.00 Key Clique

Instrument-independent librarian. Demo disk \$5.00.

The Advanced Music System

\$ 79.95 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.

The Music Studio

\$ 34.95 Activision

Music composition and editing.

The Music System

\$ 39.95 Firebird

SID composition system gives you control over voices, lets you edit music in three voices on staff.



242 MIDI Interface

\$ 99.00 Sequential Circuits

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

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.)

DSC64 MIDI Interface

\$ 129.95 Syntech

MIDI in, MIDI out, uses cart port. \$200 version includes tape sync in/out. Yamaha control, sequencing software available.

G-4

Incredible Musical Keyboard

\$ 29.95 *Sight & Sound*

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

MCI MIDI Interface

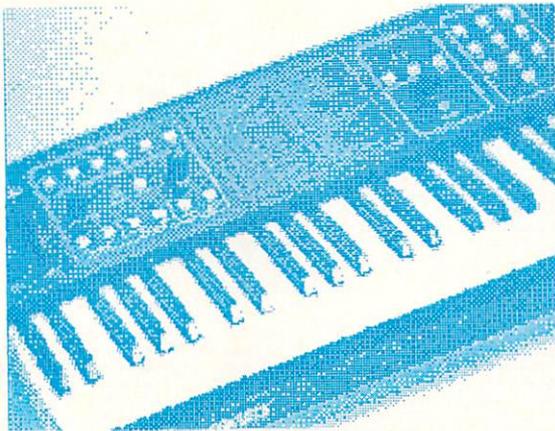
\$ 149.00 *Siel*

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

Melodian Keyboard

\$ 200.00 *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, but we haven't seen it yet. (-B.D.)



SEQUENTIAL CIRCUITS KEYBOARD

MetaMIDI Interface

\$ 95.00 *Mimetics*

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*

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.

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.)

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.



TELECOMPUTING (HARDWARE)

1660 Modem/300

\$ 89.95 *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, one free hour on and subscription to CompuServe. (-Staff)

1650 Auto-Modem

\$ 89.95 *Commodore *****

A 300 baud, auto-answer, auto-dial modem. Terminal software (included) allows setting of parameters (parity, duplex, etc.) however it has no save-buffer or up/down loading capabilities. Also, don't plan to use this with your SX-64, since it's wider than the user port that it plugs into and the power-cord prevents this use (3rd party interfaces are available for this problem). (-B.D.)

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 (Vidtext, VIP, SuperTerm, Smart64) and connects thru the user port. Handshaking feature allows transmission to be suspended until printer is capable of accepting more data.

MPP-1064 Modem

\$ 69.95 *Supra*

Commodore 1650 compatible 300 baud modem with external power supply, public domain terminal software.



TELECOMPUTING (SOFTWARE)

Bobstern Pro 64

\$ 60.00 *Progressive Peripherals ******

R-10

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 ****+*

R-6

May be the only terminal program you need. Includes: CBM-Punter & non-CBM protocols, 40, 64, 80 or 106 columns (no extra hardware needed), built-in text editor, auto-dial & redial, 15 entry phone directory and excellent documentation. (-Staff)

CompuServe 64 Executive

\$ 49.95 *CompuServe *****

R-6

The business version of CompuServe's 'Vidtext' is a full featured smart terminal package. Tho optimized for CompuServe's own parameters, they can be easily changed. A 32k save buffer, dump to printer, function key definitions, auto-log on and more. (-B.D.)

Smart 64 Terminal +3

\$ 49.95 *Microtechnic Solutions ******

R-6

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.)

CompuServe 64 Vidtext

\$ 39.95 *CompuServe ****

R-6

CompuServe's own terminal program, which lacks many snappy features and doesn't have CBM-Punter protocols but it's far and away the best way to access CompuServe. Documentation is weak, built-in text editor and a 32k buffer. (-B.D.)

Omiterm Terminal

\$ 19.95 *Aquarian Software ***

Terminal software supports 1660 modem. Punter protocol 300/1200 baud. 10 programmable function keys / 15-no. phone directory / 20K receive buffer / tone or pulse dialing / auto-dial, redial. This is an extremely basic terminal package with little flexibility. (-M.B.)

BBS Construction Set

\$ 49.95 Briwall

A customizable BBS system which supports up to 300 users, 25 subboards, EMail, upload/download, etc.



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 Vidtext on disk.

Creed BBS

\$ 49.95 Coast Bulletin Board

Formerly 'Electronic Magazine BBS', this full fledged BBS with new Punter download protocol. Compatible terminal program with over 40 disk files and 12 page manual. Written in 12k Basic and is easy to alter. 1 or 2 drives. Compatible with all CBM or RS232 or IEEE devices.

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)

R-6

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 & CDM 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)

R-6

IntelTerm

\$:na Rich Hill

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

Jordan NAPLPS Videotex

\$:na Addison Information Systems

Lets you access NAPLPS and ASCII videotex services via modem at 300 or 1200 bauds. A variety of services support the software.

Modem Master

\$ 29.95 Aquarian Software

Bulletin Board system works with both 300/1200 baud. Punter file xfer protocol / menu driven / over 25 commands / public message base / 250 user capacity / clock-calendar / printer output / e-mail check at signon / user survey-poll / old e-mail deleted after 1 wk. / private e-mail base.

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.

War Games Autodialer

\$ 29.95 MegaSoft Ltd.

Automatically dials a set of numbers, then reviews, saves or prints the numbers answered by a computer.



Aerobics

\$ 44.95 Spinnaker ****

R-6

Leads you through warm-ups, stretches, aerobics and cool-down. Three levels (beginner, intermediate & advanced) of intensity, 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 current routine until another is loaded. (-Staff)

The WORD Processor

\$ 199.95 Bible Research Systems ****

R-6

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.)

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.)

Alter Ego

\$ 49.95 Activision

Lets you assume different personalities and tackle situations with those personalities. Male and female versions available. Developed by a psychologist.

Clinical Interviews

\$ 32.50 Clinical Interviews

R-10

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.)

Dinner's On!

\$ 9.95 Briley Software

Menu planner from favorite meals for up to 15 days in advance. Sorted shopping list. Uses DATA statements.

Evelyn Wood Dynamic Reader

\$ 49.95 Timeworks

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

Grocery Mart

\$ 9.95 Briley Software

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

Micro Astrologer

\$ 19.95 Commodore

Shows you how your birthdate effects 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.

Mind Mirror

\$ 32.95 Electronic Arts

Timothy Leary developed this program for EA as a self-enrichment tool, a 'mirror of the mind'.

Mind Prober

\$ 29.95 Human Edge Software

This program runs through a list of personality and behavioral traits as they might apply to the person being scrutinized. Only 8 analyses can be saved, so from #9 on, you have to start deleting. A noble attempt but the time (and amounts of RAM) isn't right for such a far reaching application. (-Staff)

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.

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.

Recipes Supreme

\$ 29.95 Melcher Software

Comes with 40 superb recipes on the disk and allows you to store your own for convenient access. Ideal for the home or the home economics class.

The Luscher Profile

\$ 29.95 MindScape

Personality analysis program based on color preferences

The Thinker

\$ 39.95 Aquarian Software

A 'thought-processor', that lets you type in thoughts as you have them and evaluates them on up to ten criteria. Based on 'Bayesian' logic.

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.



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. See summarizations and performance stats on every team in the major league.

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.

R-9

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 male/female gymnastics meets at the high school, college, or club level. Up to 24 contestants per team and 32 teams.

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

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

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.

Horsereading Handicapping

\$ 29.95 The Sortech Group

Set of three horsereading 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

\$ 220.00 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.

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Pow'r Pak is a replacement power supply (1.5 amp) for the Commodore 64... but that's not all! Pow'r Pak also supplies two additional surge protected outlets (120V) for monitor, disk drive, or other peripherals. On/off switch. Fuse protection. Sturdy all-metal casing is ventilated for heat dissipation. Full 1 year warranty.

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40771 **\$24.95**

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40728 **\$149.95**

Monitor Cable (required). Works with C64, C128 (in composite mode), TI 99/4A and many others.

37424 **\$7.95**

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Plus **\$22.95**
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Stop wearing out your computer by endless cartridge swapping! The Navarone cartridge expander features 3 cartridge slots. Reset the computer independently of the power switch. Cartridge slots are vertical for easy access — no blind fumbling behind the computer.

33227 3-slot Cartridge Expander **\$22.95**

The cartridge expander is a great companion for the Epyx Fast Load cartridge — you can keep it permanently installed plus have two sides free for other cartridges!

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The Right Interface For All Your Printing Needs!

PPI with graphics... a sound investment for your Commodore! RUN, Dec. '85 This high-performance graphics parallel printer interface from DSI for C-64 and VIC-20 emulates a Commodore printer. Comes with cables and user's manual.

33565 **\$39.95**

G-WIZ Interface Built-in buffer provides super high-speed printing for parallel printers. Prints all Commodore characters. Cables and connectors included. From Cardco. Lifetime warranty.

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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.

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\$ 129.95 PDS Sports

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

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.



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

\$ 49.95 Pro-Line ****

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. Compatible versions available for Commodore PET series computers. (-M.B.)

Power 64

\$ 49.95 Pro-Line ****

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 rennumbers valid ones fine, though). (-M.B.)

Toolbox 64

\$ 89.95 Pro-Line ****

Pro-line's package that includes both PAL 64 and Power 64 programs. (-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

\$ 59.95 Cardco ***

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. (-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 programmers 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

BASIC compiler that speeds up program execution by 3 to 20 times faster. Compiled programs maybe commercially sold without dongle or license charges.

Freedom Assembler

\$:na Hughes Associates

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

Game Maker

\$ 39.95 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. Also available are companion disks with characters, etc., predefined.

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

\$ 39.95 Briwall

The old SM Kit utility package updated with a version for the C128. Includes added commands for DOS functions BASIC programming, and m/l programming.

I.E.A. (instant edtr/asmblr)

\$ 17.95 Aquarian Software

Machine Lang. editor/assembler, assembles 17K of source code in 5 seconds. Co-resident editor assembler monitor. Works with HES-Mon. Slow-motion code analyzer. Technical assistance phone number. Recommended by Jim Butterfield, Jim Gracely, etc.

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.

Petspeed 64

\$ 49.95 Progressive Peripherals

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.

Programmers' BASIC Toolkit

\$ 49.95 Epyx

Gives you Assembly Language graphics power with the convenience of BASIC. Includes sprite & font editor, drawing commands (circle, box, fill, etc), applications utilities and program editor (find, renumber and undo).

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.

Rebel Assembler

\$ 29.95 Nu-Age

Assembler with advanced editor, fast assembly. C128 native version on same disk.

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 Machine Shop

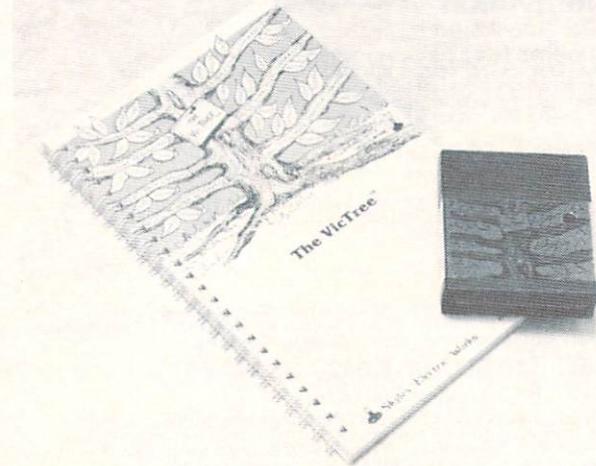
\$ 39.95 FS! Software

A complete, integrated machine lang. development system. It combines a full-screen editor with a macro assembler, symbolic disassembler & debugger, crossreferencer and a C64 assembly language Book. Unprotected and source code is available separately. Includes a free one year subscription to 'Machine Code', the machine language programmers journal.

TSDS

\$ 49.95 Micro-Pace

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 writing and de-bugging commands.

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.



COMAL 2.01

\$ 99.95 Comal Users Group *****

COMAL 2.01 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 of the dedicated music software. Cartridge with 2 books and 2 demo disks is also available for \$128.90. (-M.B.)

R-6

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 the 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.)

R-3

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 professional programmers development language with royalty-free distribution rights. (-M.B.)

R-3

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.)

R-9

ApSoft-64

\$ 39.95 FS! Software *****

A unique BASIC extension that adds most AppleSoft commands to BASIC 2.0, leaving you with 34814 bytes free. Apple programs must be ported over (via downloading) to a 1541 disk, a simple terminal program is included for doing this. ApSoft-64 won't provide complete Apple compatibility, but most BASIC programs seem to port with minimal translation. Recommended for Apple upgraders, schools, and programmers. (-M.B.)

C Power

\$ 69.95 Pro-Line *****

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, C Power is your best choice. (-M.B.)

R-10

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.)

R-4

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.)

R-5

PDI Comal Starter Pak

\$ 35.00 Public Domain *****

A 4 disk collection consisting of Comal 0.14, demo's, games, and program aids. The same material is available from the COMAL Users' Group. (-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 Kernel ROM, graphics & sound primitives, Directory buffer. A nice implementation of 79 standard Forth from a good company.

Oxford Pascal

\$ 49.95 Progressive Peripherals *****

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.)

R-5

Simons BASIC

\$ 29.95 Commodore *****

Adds many graphics and disk commands, but overlooks many basic commands like renumbering goto's, etc.

Waterloo Structured Basic

\$ 99.00 Watcom Products *****

Features structured statements, procedures, auto-line numbering, delete lines, and renumber. Developed mainly for educational systems, the strong 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.)

R-10

Super C Language

\$ 79.95 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. Compiles to 6502 machine code. Super C has its own syntax and may give you trouble if you follow textbook C. (-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.)

COBOL Compiler

\$ 39.95 Abacus Software

Complete COBOL system for C64 includes editor, compiler interpreter, and debugger.

COMAL 19 Disk Set

\$ 94.95 Comal Users Group

First 19 COMAL disks, for COMAL 0.14.

COMAL C64 Sampler

\$ 19.95 Comal Users Group

Original C64 COMAL disk, includes sample graphics, music, games, utilities and more.

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).

COMAL Intro Special

\$ 7.00 Comal Users Group

Economical way to get started with COMAL, includes: tutorial disk and auto-run disk.

COMAL Startup Special

\$ 11.00 Comal Users Group

Adds 'COMAL from A to Z' reference manual to the Intro Special.

COMAL, Best of

\$ 19.95 Comal Users Group

Double sided disk featuring some of the best COMAL 0.14 programs of 1984.

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, the ability to 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.

Kyan Pascal 64

\$ 69.95 Kyan Software

The expanded version of 'Standard Kyan Pascal' with advanced features and capabilities for the professional Pascal programmer. Includes standard version plus: machine code compiler, string handling, dispose, assign, chain, enhanced graphics and more.

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.

Pilot

\$:na Commodore

Pilot language interpreter utilizing the C64s features.

Super Pascal

\$ 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.

R-10

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.

VS64COBOL

\$ 49.95 Visionary Software

Combination editor, compiler, interpreter, and symbolic debugger for COBOL on the C64. Designed along the ANSI X3.23-1974 standards. Includes 100 page manual and sample program to facilitate learning how to use the system.

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 (3.3) includes many more parameters for copying stubborn programs. Our in-house disk copier. Excellent support/update policy. (-M.B.)

Snapshot

\$ 50.00 Marshview Software *****

Copy and 'de-protect' memory resident software. Uses fewer steps than Isepic. Formerly called CodeBuster. (-Staff)

Ultrabyte

\$ 39.95 Ultrabyte *****

Copies tracks 35-38, completely automatic; just swap-and-go. Takes less than 4 minutes. Now includes parameter copier. (-M.B.)

Capture

\$ 39.95 Jason-Ranheim ****

A very good 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.)

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 NO1 copy protected itself. (-M.B.)

Di-Sector

\$ 39.95 Star Point ****

Latest release is version 3.0. 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.)

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.)

R-7

R-10

R-10

R-10

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.)

Isepic

\$ 64.95 Star Point ***+

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, Isepic deserves kudos for being the very first tool to totally copy and unprotect many RAM-resident programs. (-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 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.

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.

Disk Maker 3.3

\$ 49.95 Basix

Fully automatic, copies G.C.R. code protection / no-sync data blocks / includes long data-block logic / copies up to track 40 / 3 copiers; fast copier, vari-sector copier, & auto-logic nibbler. Full disk copied in 2.75 min. Uses 'Masterkey module' which contains up-datable routines. Indus GT version available. Product support phone # and future module updates.

Kracker Jax

\$ 19.95 Kracker Jax

Volumes I & II, \$19.95/ea. Parameter copier offers 80-120 parameters per disk to totally bust copy protected programs.

MSD Sure Copy

\$ 39.95 MegaSoft Ltd.

Copies protected & unprotected disks on MSD drives. Includes several additional disk utilities.

Omniclone

\$ 35.00 CSM Software

Three minute copy program, unprotected and fully documented. Source code is included on disk.

Quantum Copy

\$ 24.95 Quantum Software

1541 GCR nibbler with extensive error checking and auto analysis.

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.

Shadow

\$ 89.95 MegaSoft Ltd.

Software / hardware combination. 'It will even copy the other copy programs' Claims to copy 100% of all software for the C64. Requires internal connection to drive. Long production delays have resulted in many bad feelings over this product among the public.

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.



PEEK A BYTE - COPYRIGHT 1984 SLAYMAKER

DISPLAY	FUNCTIONS
A - HEX/Char	ctrl B - BAM
Z - ASCII/Screen	C - Convert
X - Reverse/Norm	D - Disassem
	E - Edit
	F - Fill
	ctrl G - Fill0/FF
	H - Goto
	J - JUMP
	M - Monitor
	shft N - Memdrive
	ctrl P - Printer
	ctrl S - Search
	U - Un-new
	V - Verify1
	ctrl W - Verify2
	shft \$ - Directry

PARAMETERS	R/S quits command	Q quits program
T - Track		
S - Sector		
B - Buffer		
ctrl D - Drive		
ctrl U - Unit		

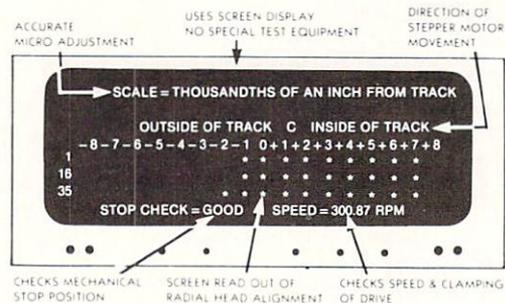
Command mode	Press Any Key
More HELP	Press H
Restart PEEK n BYTE	SYS 49152

R-7

Peek A Byte 64 V2.0

\$ 35.00 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 indispensable tool for the serious programmer. (-M.B.)



Physical Exam

\$ 39.95 Cardinal Software ****+

1541 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.)

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. (-B.D.)

R-10

R-10

R-7

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.)

The Final Cartridge

\$ 39.00 H&P Computers ****+

Multi-function cartridge integrates screendump utility, disk & tape turbo loaders, centronics printer driver, m/ 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.)

Top Secret Stuff

\$ 19.95 MegaSoft Ltd. ****+

A collection of some 15 or so unusual disk drive utilities for the 1541. Includes error makers and readers, 1/2 track schemes, 10-sec. format, 3-min. copy view bam, id check, and sync maker/reader routines (to name a few.) Many are available elsewhere, and the disk is annoyingly enough copy-protected itself, but it is nice to have them all in one place. (-M.B.)

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.)

Mr. Tester

\$:na Micro-W **+

Tests certain basic aspects of your computer and common peripherals: cassette drive, disk drive, printer, joystick or monitor. It won't tell you if some weird serial bus problem is hanging up your system, but it will tell your disk drive speed, sticky keyboard, etc. (-M.B.)

1541 Alignment Program V2.0

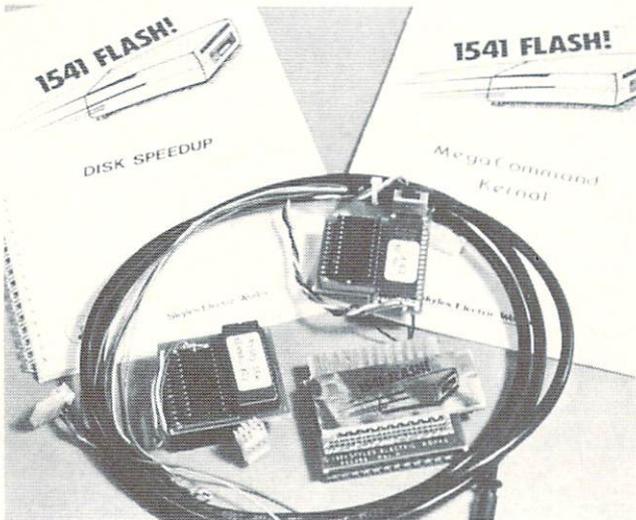
\$ 44.95 CSM Software

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.

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

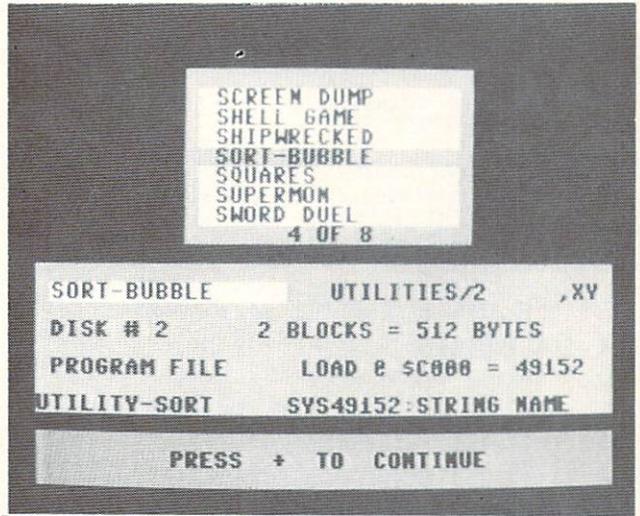
\$ 29.95 Reflexive Software

Utility for disk directory editing including ABLE (Advanced BLock Editor).

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.



R-6

Disk Sleuth

\$ 24.95 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.

Disk-Lock V2.1

\$ 39.95 Aquarian Software

Copy protection scheme for users. Claims to stop over 90% of all copy programs. Multiple protection schemes. Puts protection on any track from 1 to 40. Menu-driven.

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.

Hard Copy

\$ 29.95 FS! Software

Screen dump utility that waits until a special three-key press occurs then translates the screen colors into grey scale patterns on a dot matrix printer. With the Epson JX-80 true color pictures may be obtained. A special graphics-artist mode allows for color separations. Configures to individual printers.

Masterdisk v2.0

\$:na Integrated-Software Systems

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

Operating System

\$ 54.95 Hacker's Hardware

Reconfigures the C64 to operate under RAM Control rather than ROM. Supports all Kernel versions. Formerly sacred areas of the computer are now available to the novice or hacker alike.

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.)

R-10

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 5 X speed improvement for loading. Eliminates drive rattle. Status key gives device number, bytes free, and drive status.

StarDOS

\$ 74.95 Star Point

ROM replacement which speeds up disk access and writing, eliminates head-knock, DOS wedge, built-in 3 minute copier, and more. Long delays in the release of StarDOS have resulted in a lot of consumer grumbling, but Starpoint says it's now ready to ship. (-M.B.)

Super Diskdoc

\$ 24.95 Progressive Peripherals

Disk maintenance 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 referencer, 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 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.)

Tool Box

\$ 19.95 MegaSoft Ltd.

Over 100 routines for the C64 including: protection, smooth scrolling, modem routines, and sound & color. Routines may be incorporated into your programs.

Ultra-Wedge

\$ 14.99 D&A Enterprises

Disk wedge program on cartridge (with re-set switch).

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.)



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. Available Fall. (-M.B.)

Sideways

\$ 29.95 Timeworks

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



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 response. The smooth animation is 1st rate. For 1 or 2 drivers. (-B.D.)

Zaxxon

\$ 39.95 Synapse Software *****

This 3-D effect video game with angled scrolling and shadowing is a real winner. Need we say more? (-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.)

Blue Max

\$ 34.95 Synapse Software ****+

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.)

R-3

G-3

G-6

R-10

G-5

G-7

G-7

G-3

G-2



GAMES

(Arcade & Action cont'd)

Ghostbusters

\$ 29.95 Activision ****+

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

Impossible Mission

\$ 34.95 Epyx ****+

Life like 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-dimensional game. At its heart IM uses the classic video game structure of multiple rooms with catwalks, tokens and lots of enemies and adds puzzles, graphics, sound and speech synthesis. (-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.)

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

\$ 29.95 First Star ****+

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.)

Ant Attack

\$:na Quicksilva ****

Striking similar to 'Realm of Impossibility' in many ways, tho by different authors. Animated stick-figures go scurrying around a 3-D city trying to rescue buddies from large ants who happen to eat animated stick-figures. Large scrolling world offers plenty of variation. A first-class 'fight & flee' game for one player. (-B.D.)

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.)

Beach-Head

\$ 34.95 Access Software ****

1st-rate naval battle simulation with multiple screens. Smooth 3-D machine language, arcade-quality animation and sound. War may be hell, but Beach-Head is fun. (-B.D.)

Bugaboo

\$ 29.95 Quicksilva ****

This gets high marks for originality. Whimsical fantasy game in which you are a cute little flea, trying to avoid a flea-eating pterodactyl. (-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.)

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! (-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. You can't get closer to the original than this. (-B.D.)

G.I. Joe

\$:na 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 a bit goofy, the equipment combat is better than either 'Blue Max' or 'Bungeling Bay'. (-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 'Gumbi' 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! What else can we say? (-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 missiles 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's conversion of the Williams game for the C64. (-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, but for its 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.)

Axiss Assassin

\$ 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 Appocalypse

\$ 34.95 Synapse Software ***+

Take your jet copter down thru tunnels and caves. Good arcade action, but the difficulty of surviving makes this game a bit frustrating. (-B.D.)

Gridrunner

\$ 39.95 HES ***+

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.)

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.)

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.)

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 slightly larger flying saucer, the mother ship, hovering in space. If you win the game, the control screen returns with a small fireworks display, an anticlimax. (-B.D.)

Scrolls of Abaddon

\$: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 your 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 gamer 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 the best title I have seen from MindScape to date (May 86). Its strong suits are the 3-D graphics and 'motion picture' musical score that changes with the action. Can either make your day or ruin it. (-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.)

Trolls & Tribulations

\$:na Creative Software ***+

Watch your step as you skulk around in what appears to be the sewer system of some ancient city: your troll must dodge the under-city denizens who patrol this hazardous but treasure-littered maze. 7 levels and 200 chambers. (-B.D.)

Z

\$:na Educational Systems ***+

A fine example of some of the better arcade titles from Great Britain. Your craft moves omnidirectional 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.)

Motor Mania

\$ 29.95 United Microware Industries ***

Smooth scrolling animated driving game is quite enjoyable. One of the earliest machine language games that came out, it's still fun after all these years. (-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 seem like an amateur effort. If you want a really hot racing game, you won't find it here. (-B.D.)

Purple Turtles

\$ 29.95 Quicksilver ***

An entertaining, well-animated, non-violent game that has you crossing a stream on the backs of unpredictable diving turtles (sort of like Frogger only in cross section). (-B.D.)

Warp!

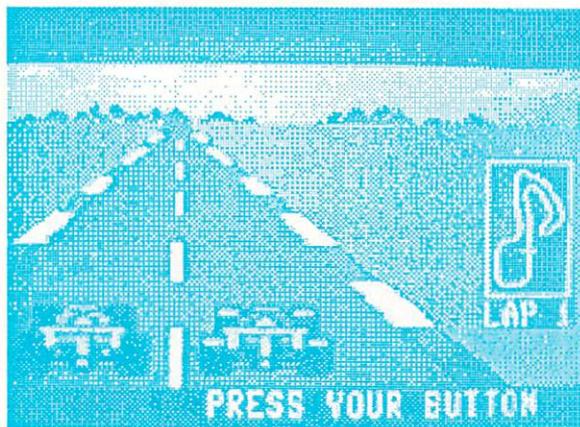
\$:na Creative Software ***

After games like 'Pit Stop II', the animation seems pretty unsophisticated. An obvious attempt at variety and originality in the game elements keeps this outside the kennel, but not by much. If you want to add a Creative title to your collection try 'Trolls & Tribulations'. (-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.)



PITSTOP II

3 for Fun

\$ 12.95 JAL Software

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

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. Joystick required.



ARCADE & ACTION GAMES

CONTINUED

Battle Through Time

\$ 19.95 Artworx Software

In the year 2525 AD, time travel is perfected and you are sent through time to assist mankind in various battles from prehistoric ages to the final conflict. Employs full screen graphics with 3 layer scrolling for more realistic movement.

Battle Trek

\$ 29.95 Touch Technologies

Action game designed especially for 'TREKIES'. 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.

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

Utilizes the property of gravity with falling boulders.

Championship Wrestling

\$:na Epyx

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

Co & Co

\$:na RadarSoft

Cooperative 2-player arcade/adventure with 245 rooms.

Elevator Action

\$ 29.95 Datasoft

Like the arcade game with all 30 stories.

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.

Great British Software

\$ 29.95 MindScape

Collection of three British games includes Brian Blood-axe, Revelation, and QuoVadis.

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.

Kung-Fu II: Sticks of Death

\$ 29.95 Spinnaker

You must decimate you opponents with your wit and Koba.

Kung-Fu: Exploding Fists

\$ 29.95 Spinnaker

Fight or die on the island of Ninjas.

Lode Runner's Rescue

\$ 34.95 Synapse Software

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 sequel is in 3-D and has a built-in game editor that is easy to use with 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 carefull and God save the queen!

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.)

Mr Do!

\$ 29.95 Datasoft

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

Pole Position II

\$ 29.95 Datasoft

Formula I racing on four tracks or design your own.

Quake Minus One

\$ 29.95 MindScape

Save the world from a nuclear-triggered quake!

SilverDisk Series

\$:na Firebird

The SilverDisk series features two action games on one disk. Included in the series are Willow Pattern/Chimera Underwilde/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

\$:na Activision

This series will be composed of the old classic arcade games which Activision holds the rights to, such as Demon Attack, rewritten for the C64 and released at a low price. Get nostalgic!

Space Pilot

\$ 19.95 Artworx Software

Your mission will require you to pilot your craft through time and space battling squadrons of combat aces from the past to the future. Excellent screen scrolling and a responsive controls.

Starglider

\$:na Firebird

This vector-graphic game offers filled 3D objects. 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.

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.

The Movie Monster Game

\$:na Epyx

You control one of five monsters (including Godzilla!) and munch up a major metropolitan area of your choice.

Tracker

\$:na Firebird

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

Two-On-Two Basketball

\$ 34.95 Activision

This basketball simulation includes two-player moves like passing and blocking.

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.

World Games

\$:na Epyx

An around-the-world Olympics featuring cliff diving in Mexico, Sumo wrestling in Japan, and other events.

Zorro

\$ 29.95 Datasoft

Become the swashbuckling Zorro, buckling your swash in Spanish southern California.



Chess 7.0

\$ 69.95 Odesta *****

These games just don't play you, they teach you and help you analyze the game and your playing style. You can: set up situations, replay games, switch sides, watch your computer think or get advice. Three keys control all the functions. Levels of play from beginner to master. (-B.D.)

How Bout a Nice Game of Chess

\$ 29.95 Odesta *****

Same analytical features through all but the hardest level of Chess 7.0. Includes several on-screen graphically illustrated chapters of instruction from piece identification & openings to development & endgames. This is programming design, execution and documentation at its finest. (-B.D.)

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.)

Charles Goren: Learning Bridge

\$ 79.95 CBS Software *****

Learning bridge is at least made easier, if not easy. Charles Goren may be the best known name in bridge. This is the perfect method by which to learn bridge. The manual (which is well done) parallels the programs on disk. (-B.D.)

Renaissance

\$ 29.95 United Microware Industries ****

A smart version of reversi a.k.a. othello. Using the joystick or keyboard you pit yourself against a master. Extensive options allow for skill-level, specific board set-ups, taking back any number of moves, switching sides or getting advice. (-B.D.)

Backgammon & Euchre

\$ 19.95 Hutchcraft

Traditional backgammon - user vs. computer and four-hand partnership euchre for one player.

Blackjack Tutor

\$ 19.95 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 score and tricks taken and will inform you of an illegal bid.

Casino 64

\$ 19.00 Quantum Leap

Two casino games, Slots and Poker.

Casino Roulette

\$ 39.95 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.

Chessmaster 2000

\$ 39.95 Electronic Arts

Very smart chess with many options. 3D board, library of games & problems, 12 levels of play.

Chessmate

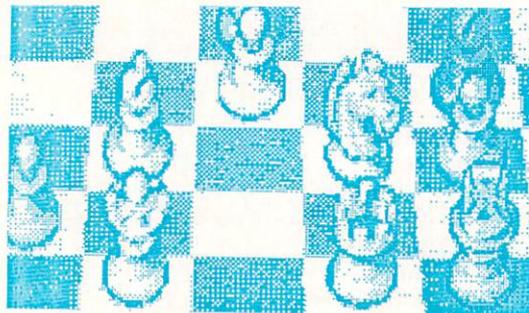
\$ 29.95 Cardinal Software

Not a 'computer plays you' program, but a powerful learning tool that allows you to analyze, master, bookgames, 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.

Colossus Chess IV

\$ 34.95 Firebird

Joystick-controlled chess playing program is supposed to be among the best yet. Choice of 2D or 3D view of board.



CHESSMASTER 2000

CompuBridge

\$ 24.95 Artworx Software

For anyone who wants to improve their 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 aide you in the game.

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.

Pensate

\$ 8.95 Polarware/Penguin Software

Original thinking game of evasion.

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.

Scavenger Hunt

\$:na Electronic Arts

Combination board/computer game. Use animated robots to hunt for strange items.

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).

Strip Poker

\$ 29.95 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 their 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.

Video Vegas

\$ 29.95 Baudville

Blackjack, poker, slot machine, Keno.

Wurble

\$ 14.85 Sher-Tek

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



GAMES (TEXT ADVENTURES)

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.)

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. Expert 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 is of standard level and II & III are advanced levels.

PDI Adventure Disk

\$ 10.00 Public Domain ****+

Three adventure programs on one disk. Includes: 'The Original Adventure', 'Castle' and 'Lost Gold'. One of my favorite PDI disks. (-M.B.)

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 Synapse Software

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

Cut Throats

\$ 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.

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.

Escape

\$ 25.00 Infinity Software

Text adventure loaded with suspense and excitement with the added dimension of sound effects and inter-active screens. Your problem solving ability and logic are put to the test, by trying escape from some aliens jailors and their robot sentries, but be careful, the Earth's fate is in your hands.

Expedition Amazon

\$ 12.95 Polarware/Penguin Software

Fantasy role playing game into the deep, dark amazon.

Fur Trapper

\$ 12.45 Briley Software

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

High Seas

\$ 12.45 Briley Software

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

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. Advanced level.

Leather Goddesses 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.

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 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.



GAMES (GRAPHIC ADVENTURES)

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.)

R-5

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.)

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.)

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.)

Curse of Ra

\$ 19.95 Epyx ****

Expansion module for 'Temple of Apshai'. (-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

\$ 29.95 Activision ****

An interesting concept, because this game includes no instructions as you accidentally gain access to a mainframe. From there you will be left to your own devices and investigative abilities to get to the bottom. (-B.D.)

Hacker II

\$ 34.95 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.

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 furnishings. (-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.)

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 compliment 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.)

G-7

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.)

G-10

Upper Reaches of Asphai

\$ 19.95 Epyx ****

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

Alcazar: Forgotten Fortress

\$ 29.95 Activision ****+

R-6

Interesting graphic variation of the ubiquitous dungeon adventure. You must collect and properly use the fight 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 ****+

G-9

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 toggle?'). (-B.D.)

The Hobbit

\$:na Addison-Wesley ****+

G-9

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.)

Caveman

\$:na Zinta Micro Systems **+

G-3

This prehistoric adventure game has fine graphics screens, but as an adventure game its awful. Every response you type in causes a lengthy disk-access (and there are 3 disks with both sides filled!), maybe a hard disk would make this more playable. (-B.D.)

G-9

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.

Age of Adventure

\$:na Electronic Arts

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

G-6

Alice in Videoland

\$ 19.95 Artworx Software

Graphic adventure involving Alice and the gang from Wonderland.

Alternate Reality

\$ 39.95 Datasoft

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

G-5

Amazon

\$ 32.95 Spinnaker

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

G-5

Arch-Mage's Tale

\$:na Electronic Arts

The sequel to Bard's Tale, features seven cities, a new character class, and new spells and villains.

Autoduel

\$ 49.95 Electronic Arts

Roleplaying game with arcade action elements. Based on the Car Wars board game. Other EA roleplaying game adaptations include Ogre and Battlefront, \$39.95/ea.

G-1

Choose Your Own Adventure

\$ 34.95 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.

R-6

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.

G-1

G-7

G-5

G-9

G-6



continued

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.

Frankie Goes to Hollywood

\$:na Firebird

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

Gateway to Apschai

\$ 29.95 Epyx

Cartridge sequel to 'Temple of Apschai'.

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.

Heart of Africa

\$ 32.95 Electronic Arts

The sequel to EA's 'Seven Cities of Gold' adventure.

Law of the West

\$ 29.95 Accolade

Old west interactive adventure with Wyatt Earp and all the rest of the old west.

Mansion!/Museum!/Pentagon!

\$ 12.45 Briley Software

Three detective programs available separately, each with different locations, but with similar plots, where you must determine 'who did it'.

Maxwell Manor

\$ 28.00 Avalon Hill

A murder mystery in a haunted mansion that you must solve. 1,000 play variations.

Mindshadow

\$ 29.95 Activision

An adventure which starts you out as an amnesiac stranded on an island. Your main challenge is to discover your own identity, who did it to you and why.

Moebius

\$ 39.95 Electronic Arts

Fantasy roleplaying game with 3D animated combat.

Murder on the Mississippi

\$ 34.95 Activision

No typing in this all-joystick graphic adventure. It feels just like 'driving' a cartoon. (-M.B.)

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.

Portal

\$:na Activision

Sci-fi novel.

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.

Shadowfire

\$ 29.95 MindScape

Icon-driven real-time adventure. You have 100 actual minutes to rescue the hostage and destroy the starship.

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.

The Coveted Mirror

\$ 17.95 Polarware/Penguin Software

An interactive novel.

The Crimson Crown

\$ 17.95 Polarware/Penguin Software

An interactive novel.

The Fourth Protocol

\$ 34.95 Bantam Books

Adapted from the best-selling novel, this game was released at the same time as the novel, a first.

The NeverEnding Story

\$ 29.95 Datasoft

Venture into Fantasia. For ages 10 and up.

The Pawn

\$:na Firebird

All we've seen so far are demos, but from what we HAVE seen, The Pawn should set the standards for graphic adventures for a long time to come. Pull-down graphic screens, cameo illustrations when the full screens are up, and a parser that can discriminate most of the fine points of the convoluted English tongue. I'm not even sure what the story is about yet, and I'm already excited! (-M.B.)

Transylvania

\$ 17.95 Polarware/Penguin Software

Search all of Transylvania to find and rescue the princess.

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 *****

G-5

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.)

Flight Simulator II

\$ 49.95 Sublogic *****

R-4

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.)

Project Space Station

\$:na HES *****

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 (Dec/85). The most striking feature of this game is the graphics: 3-D perspective view from several 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 ball when you connect and the uniforms even get dirty!
(-B.D.)

Jet

\$ 44.95 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. Super!
(-B.D.)

Leader Board

\$ 39.95 Access Software *****

The best golf simulation we've seen yet. First rate graphics, sound and playability. 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.)

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 arials 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

\$ 39.95 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.
(-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.)

G-9

G-10

G-9

G-10

G-10

G-10

R-9

G-9

G-7

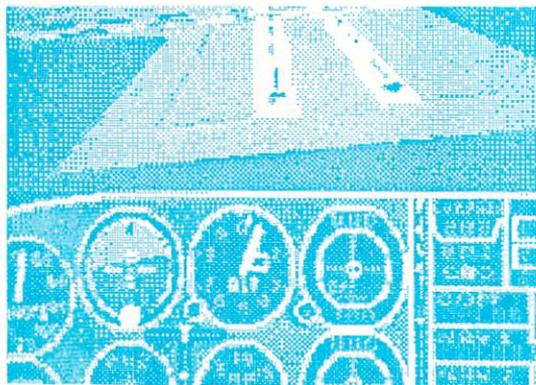
G-2

G-9

G-10

G-7

G-7



FLIGHT SIMULATOR II

Hole in One

\$ 19.95 Artworx Software *****

A surprising little treasure on the 'b-side' of an economy game disk from Artworx (side 'a' is Hotel Alien). An enjoyable 18-hole game with a course construction set also. Pick your club, angle, swing force & time, and slice or hook. A real sleeper - great value.
(-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 *****

This is the best game Commodore has come out with to date. The most outstanding thing is the smooth and natural way that control passes from player to player without the conscious effort and awkward joystick manipulation required by most team sport simulations. Fast action, great graphics, 9 skill levels, and fun to play
(-B.D.)

Jet Combat Simulator

\$ 29.95 Epyx *****

One of two very good simulations based on the awesome F-15 fighter, this seems to fly more realistically, especially take-offs and landings. Four separate modes enable you to progress from landing practice to air-to-air combat.
(-B.D.)

Kennedy Approach

\$ 34.95 MicroProse Software *****

Best air traffic controller as of July 1985. 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 information 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 locations 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 that's 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 maintenance, 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 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.)

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 fighters from the ground and let them go at it. Fighting and movement is 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.)

G-9

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 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) Helicopter. Operation is convincing, the instrumentation and detail are good, and the manual is fine, but the one real weak spot is the landscape graphics. (-B.D.)

World's Greatest Baseball

\$ 34.95 Epyx ****+

The statistical game plays any of 75 teams from 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.)

Gato

\$ 39.95 Spectrum Holobyte Inc. ***

Suffers from 'Apple-Mac conversion-itis'. Bad color combinations and lack of imagination ruin it. (-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 \$. 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.)

On-Track Racing

\$ 29.95 Gamestar **+

On-Track 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 around 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 retreat. (-B.D.)

Ace of Aces

\$ 29.95 Accolade

Fly missions over Europe in the RAF's Mosquito fighter/bomber. Enjoy the view out the bombay doors!

Avalon Hill Games

\$:na Avalon Hill

Avalon Hill offers a complete line of historical war-games, 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.

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.

Blue Chip Financial Games

\$ 29.95 Blue Chip

Three games in the series, each \$29.95. Millionaire puts you in the middle of the stock market, Tycoon is about commodities, and Baron is for real estate speculation.

G-3

R-4

G-9

G-9

G-5

G-10

R-10

G-3

G-9

G-9

G-9

GUARANTEED SOFTWARE

NOW SHIPPING!

VIZASTAR for the C128

Vizastar, the integrated spreadsheet, database and graphics program that has the Commodore 64 world raving, is now available for the C128. It boasts 80 columns, and has over 40K of free memory in the spreadsheet. Those who already own Vizastar 64 will be pleased to know that your existing files can be read by Vizastar 128. Also, you can upgrade to the 128 version. Call us for details and pricing.

"The only other comparable product would be Lotus 1-2-3 for the IBM PC; nothing in the C64 world comes even close to the features of Vizastar."

AHOY July 85

"I found Vizastar would do anything Lotus 1-2-3 could, and then some. It's my Commodore choice to become the standard against which the others will be judged."

INFO 64 Magazine, Issue #7

"Vizastar is an exceptional package that rivals the features of programs such as Lotus 1-2-3 and offers C64 owners the kind of integrated software previously only available for higher-priced systems."

RUN Magazine, June 1985

"I scrutinized, tested and experimented with Vizastar extensively, but could find no weaknesses whatsoever. It is the most comprehensive, most flexible, most powerful and easiest to use integrated software package I've worked with."

Commodore Microcomputer, Sept/Oct 1985

"I use an IBM PC at work with Lotus 123. I feel Vizastar is just as good and in some ways better than 1-2-3."

Steven Roberson, NC. End User

"I have used Multiplan and Superbase; both are good pieces of software, but are inadequate when compared to Vizastar."

Jim Mathews, WA. End User

"So good, I bought a second C64 and Vizastar for my office. A wild bargain! You've saved me from having to buy IBM and Lotus."

Philip Ressler, MA. End User

VIZAWRITE CLASSIC for C128

This is the new word processor from Vizastar's author, Kelvin Lacy and is the successor to Omniwriter, which he also wrote. All the features of Omniwriter are there, plus many significant enhancements, like auto pagination, on-line help, pull-down menus, full-function calculator and more. Up to 8 'newspaper-style' variable-width columns can help with newsletters.

Three different proportionally-spaced "near letter quality" fonts are also built-in for use with Commodore or Epson compatible printers. You can merge almost any other word processor file directly into Vizawrite, including Paper Clip and Omniwriter. Naturally, it is also compatible with Vizastar. At all times, what you see on the screen is exactly the way it will be printed out. Vizawrite can do mail-merges and has an integrated 30,000 word spelling checker that you can expand yourself.

PROGRAM SPECIFICATIONS

Both Vizawrite and Vizastar are written in 100% machine language and run in the 128's FAST mode, making it lightning fast. They require a C128 with 80 column color or monochrome monitor. Both come with a cartridge, a diskette, and a reference manual. Vizastar also includes a 50 page tutorial book. Both work with 1541 or 1571 disk drives.

RISK-FREE OFFER

Vizastar 128 is priced at \$119.97. Vizawrite's price is \$89.97. Vizastar 64 XL8 is now available for \$119.97. We are so positive you will be satisfied with our programs that we offer a 15-day money-back guarantee. Try it Risk-Free. Call us today or send a check or money order. VISA/MC accepted.

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interviews prior to meeting real patients.

- Five different patients on one disk
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- Patients represent the types of problems you might encounter in mental health settings
- Interviews can be repeated to improve your style
- Hardcopy option so you can print out and study your technique
- Summary of your interview available at any time so you can see how you are doing
- Help screens to give you clues
- Developed by a psychology professor

THE FOLLOWING IS AN ACTUAL SAMPLE OF THE FIRST MINUTES OF AN INTERVIEW WITH ONE OF THE PATIENTS:
TRACIE: My name is Tracie. I was told I had to talk to you before I could see a shrink. What do you want to know about me?

STUDENT: What things do you think I should know?
TRACIE: I'm awful anxious. I guess I'm also pretty unhappy.
STUDENT: How long have you felt this way?
TRACIE: I guess I've been anxious for a long time.

WARNING: THESE PATIENTS USE PROFANITY, AND DISCUSS SEXUALITY IN EXPLICIT TERMS. 'R RATED'

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Willard, NY 14588

(New York State residents add \$2.18 sales tax)



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 new baseball simulation.

Computer Stocks & Bonds

\$ 25.00 Avalon Hill

Boardgame adaptation of what used to be a 3M game. They also have one called Market Forces.

Dam

\$ 20.22 Greenwood Software

Real time simulation of a hydro-electric dam.

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.

Dreadnoughts

\$ 30.00 Avalon Hill

A wargame in the North Atlantic Ocean that recreates major naval action during WWII with a roster of 44 British, German, French, and American ships that sailed the Atlantic during that time.

Flight Path 737

\$ 19.95 Artworx Software

Choose any of 6 different levels from novice to test pilot and receive your flight instructions. You control throttle, flaps, and landing gear as you take off.

Football

\$ 39.95 Sublogic

Joystick-controlled full-team action football simulation. Allows player substitutions, individualized player strengths & weaknesses.

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.

Gunship

\$ 34.95 MicroProse Software

Simulator of the new AH-64 Apache attack helicopter and features multiple weapon, navigational system, outstanding joystick flying system and 3-D graphics.

Hellcat Ace

\$ 29.95 MicroProse Software

3-d combat flying simulation.

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.

NATO Commander

\$ 34.95 MicroProse Software

On-screen scrolling European war map, real time, five scenarios & news service updates. You command the infantry, mechanized armor, and helicopters.

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.

Run for the Money

\$ 39.95 Scarborough Systems

Action packed different game of strategy for 2 players, based on economic models by an MIT professor.

Six Gun Shootout

\$ 39.95 Strategic Simulations

Old west simulation with 10 scenarios of either fiction or historically accurate, and 18 weapons for man to man combat.

Slap Shot Hockey

\$ 19.95 Artworx Software

Choose your team from the 6 countries in the 1984 Canada Cup Series and get set for the action. Features life-like voice, true 2 player control, real action passing, defense/offense strategies and body checking.

Spitfire 40

\$ 35.00 Avalon Hill

Fly an historically accurate simulation of WWII Mark I Supermarine Spitfire, right down to fuel pump problems!

Super Bowl Sunday

\$ 35.00 Avalon Hill

A realistic football simulation which puts you out in control of everything in 10 AFC/NFC match ups.

Survival

\$ 25.00 Infinity Software

2-player game which combines the strategy of Chess with the challenge of war-gaming.

Tenth Frame

\$ 39.95 Access Software

Bowling simulation with 3D animation, up to 8 players.

Wingman / Mig Alley Ace

\$ 34.95 MicroProse Software

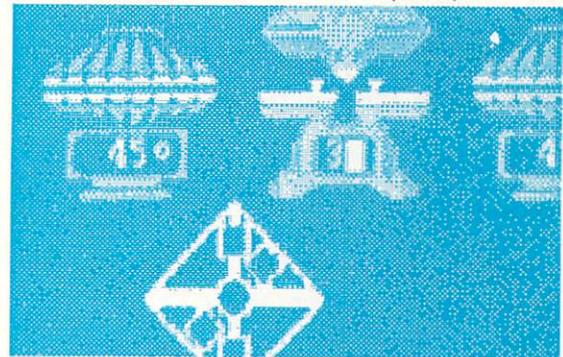
Player vs player, head to head, split screen 3-D combat flying simulations.



Chipwits

\$ 39.95 Epyx *****

A fantastic program that is as educational as it is entertaining. Using the increasingly popular 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.)



THE FACTORY

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.)

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 to 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 circuit 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 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 is 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 lilly-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.

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.

Bible Fun 1

\$ 49.95 Smoky Mountain Software

Seven complete, unabridged programs of Bible knowledge. For ages 8 and up.

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 randomized for each game. Each SocrateSystems programs can be purchased separately, but still use the same files.

R-9

Crossword Magic

\$ 49.95 MindScape

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

Donald Duck's Playground

\$ 34.95 Sierra On-Line

Teaches children 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 among 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.

Fruit Tree / Gumball

\$ 24.95 Boston Educational

Two games are contained within this program to drill counting and simple additional and subtraction. For grades 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 in: colors, letters, numbers, shapes and simple arithmetic. For ages from 2 to 6.

Halley Project

\$ 39.95 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.

Hemlock

\$ 19.95 SocrateSystems

Hangman type screen game with an important difference: something beyond the alphabet is learned. A question is displayed and the player has to guess the answer, with the number of tries set in advance. It includes sound, color, graphics, score recording, and uses files made up for any SocrateSystems program. For elementary thru high school.

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 Good for picture books, newspapers.

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.

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.

Math Action Games Series

\$ 19.95 MindScape

Teaches children in grades K-3 number 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

\$ 24.95 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.

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.

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 of 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.

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 Micrograms

Grades 3 - 6. Game show format allows 2 students to spell words that have been flashed on the screen.

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.

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.

Word Party

\$ 14.95 Michael Crick

Word search game for families, parties or the classroom. Word Party (previously published by UMI and K-Tell under as 'Word Feud') is now being published in English, Spanish, French, German, and Esoteric. As a party game it requires secret signals, bluffing, deception, as well as work skills and quick reflexes.

Word Zapper I

\$ 27.95 Micrograms

Grades 3 - 5. Game show format where you must zap incorrectly spelled words.



Pinball Construction Set

\$ 39.95 Electronic Arts *****

G-3

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.)

1984 Contest C64

\$ 10.00 Public Domain ***+

This collection was assembled from the contest entries that Public Domain, Inc. received from their 1984 programmers contest. Covers a wide range of applications. (-Staff)

64 Collection (#1 - #15)

\$ 10.00 Public Domain ***+

An excellent value with at least 25 assorted programs (games, utilities, education) per disk or tape. Better stuff than many 'budget' software titles. (-B.D.)

Trivia Fever

\$:na Professional Software ***+

G-6

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 insure 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 and awards points. The challenger option adds interest (-B.D.)

Little Computer People

\$ 34.95 Activision

Brings out the little people inside every computer.

Mind Pursuit

\$ 29.95 Datasoft

Trivia game with musical and graphic clues.

Murder Party

\$:na Electronic Arts

Host a murder! This software generates the invitations and the clues for you to host your own murder mystery.

Puzzlemania

\$ 19.00 Quantum Leap

Jigsaw puzzle, roulette, and guessum games.

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

\$ 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.)

Trivia 64

\$ 19.95 Artworx Software

For 2 to 4 players or teams. Joystick controlled, just press the fire button for one of 2100 questions and press again for the answer. Colorful graphics and challenging questions.



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.)

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.

Basic Facts Fun

\$ 27.95 Micrograms

Grades 3 - 5. Programs to help teach 2-digit add/subtraction and multiplication and division.

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.

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, cover in 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 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.

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. Contains 35 lessons with 10 exercise each, and room for additional user input lessons.

Friendly Figures

\$ 41.85 Micrograms

Grades 1 - 2. Programs to help young children learn about counting and simple addition and subtraction.

Grammar

\$ 19.95 American Educational Computer

Sharpens and reinforces English grammar and usage. Tackles such areas as lay/lie, who/whom, and more. Contains 35 lessons with 10 exercises each and room for additional user input lessons. Grades 4-6.

Health and Safety

\$ 67.95 Micrograms

Grades 3 - 6. Programs that contain information concerning bicycle safety, health and first aid areas.

Hodge Podge

\$ 19.95 Artworx Software

Provides knowledge in a most enjoyable and non-intimidating fashion for children from 18 months to 6 years of age. Consists of many cartoons, animations and songs.

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.

Keyboard Technique Series

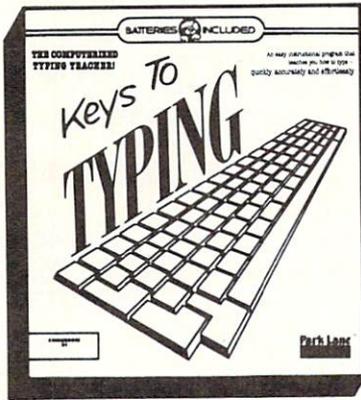
\$:na Educational Courseware

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

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.



Keys to Typing

\$ 24.95 Batteries Included

Easy to follow typing tutorial program.

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.

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)

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.

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.

Monkeybuilder

\$ 24.95 Artworx Software

Colorful animated program is designed to increase spelling and word analysis skills for children ages 7-12. The monkey is directed by the child to catch the various word parts with his net and place them on the lift. 17 different levels.

Monkeynews

\$ 24.95 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.

Movie Musical Madness

\$ 39.95 CBS Software

Makes you the director, producer, writer and composer of your own Hollywood movie musicals.

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

Students create their own stories, including pictures and text, with this creative writing tool. Using a joystick, they select from the 6 menu options, like adding captions to their favorite pictures, also read, save, & 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.

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.

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, close style reading passages and their 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

\$:na Weekly Reader Software

Easy to use educational program that also fun. For ages 5 - 10.

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 their 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.



Bataille de Mots

\$ 49.95 Gessler Educational Software ***+

R-9

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

Sequential series that covers an entire high school course in chemistry. Each program consists of a series of mini-lessons. As new topics are introduced and developed, the student is then questioned and explanations are given for incorrect answers. The entire set contains 43 programs on disks.

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 an instant dictionary/glossary for foreign language study, English vocabulary, history or biology terms, etc. For classroom or homestudy use, jr. high to college, depending on file complexity. Includes editor. Each SocrateSystem program is sold separately, but files made up for any other may be used.

Excel-A-Read

\$ 49.95 American Educational Computer

Designed to increase the users 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.

Mastering the ACT

\$ 139.95 CBS Software

Comprehensive, self-paced coverage of the American College Testing exam, covers English, math, social studies and natural sciences.

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!

\$.na DesignWare

An educational 'database' which helps you study any subject. Subject disks available separately.

SAT Perfect Score

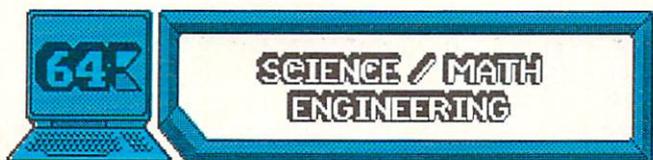
\$ 69.95 MindScape

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.

The Perfect Score

\$ 69.95 MindScape

SAT preparation on six diskettes.



Robotics Automat Kit

R-7

\$ 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 Fischer Technik kits. (-B.D.)

Sky Travel

G-7

\$.na Commodore *****

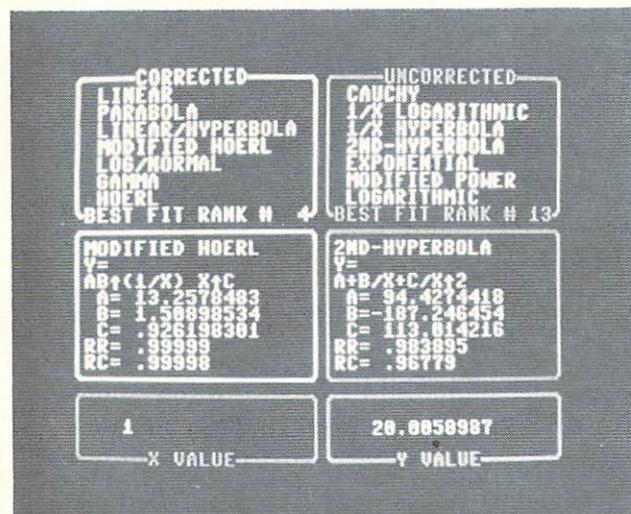
Commodore has done it again with an educational and fun masterpiece. This electronic planetarium displays more than 1200 stars and 88 constellations in their proper positions over a 10,000 year period. Printer dumps and more. A must buy! (-B.D.)

64-Beam Calc

R-5

\$ 37.50 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. (-B.D.)



C64 Curve-Fitting

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 users own programs.

Comm-Stat

\$ 99.00 StatSoft

Complete statistical package for business, science, education. Menu-driven, with data editor. Correlation, relation, significance tests, and more. Bar charts, 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

\$ 29.95 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.

Multibots

\$ 149.95 Access Software

Robot experimenter's kits, prices from \$60 to \$200.

Number Cruncher Stat System

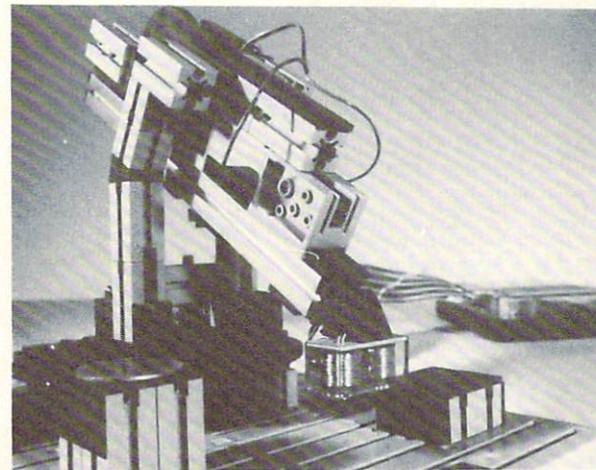
\$ 59.95 Number Cruncher Stat Systems

An integrated, menu-driven statistical system including multiple regression, oneway ANOVA, t-tests, chi-square and more.

RNAV3 Navigator/w

\$ 29.95 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

\$ 24.95 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.



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.

CLAS

\$ 89.95 Touch Technologies

Computerized Lesson Authoring System is a tool designed for educators and parents to allow them 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. The system includes an author disk, student disk, and a comprehensive 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.

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 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.

Master Grades

\$ 35.00 Midwest Software

A simple to use teachers grading program. Works on the points system and keeps cumulative points only, up to 9999 per marking period for up to 200 students in one file.

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.

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

\$ 29.00 Quantum Leap

Aide:keeps schedules, stores scores, alphabetize/cross reference students and teachers. Pet:stores student scores and figures weighted averages.

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.



PDI Best of C64 Series

\$ 10.00 Public Domain ***+

Three separate disks for games, utilities, or education for \$10 each. All are loaded with programs. As 'Best of' series, the quality is a little more consistent than with most PDI disks. (-M.B.)

PDI Hamfest Special #1

\$ 10.00 Public Domain ***+

A collection of 18 programs for the C64 user who has interest in electronics or ham radios. Very nice to see all the special interest programs on a single disk. (-M.B.)

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). In use, the program is slow, each recipe is loaded after an error free key-in of the name, a menu-selection would be easier and neater. (-B.D.)

10-Fix

\$ 12.50 Raymond L. Zarlino

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.

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. disks.

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.

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 catalogue 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) combines both Dark Star and Time Star in one program.

DynaComp products

\$:na DynaComp

Over 100 software products for the C64 and CP/M, covering public domain disks, business, games, education, etc. (you name it).

EMED

\$ 29.00 DMC Software

Electronic Medical Database designed for home use. Contains data on over 460 diseases and 325 symptoms. Many options for the user.

Energy Manager

\$ 59.95 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.

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.

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.

Fill-a-form

\$ 19.95 Fabtronics

Printout of many business/commercial forms.

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.

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.

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 avante-garde music composition program. (-Staff)

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.

Load'N'Go Software

\$ 10.00 ShareData

Load'N'Go offers over 100 titles for the C64 in the areas of entertainment, education, and home productivity. They are offered for less than \$10/ea through mass merchandisers. Titles include the Electric Book educational series & the Home Companion series of how-to-do-it software.

Lottery 64

\$ 24.95 Superior Micro Systems

Designed to help you (with the aid of your C64) play the various lottery games (pick3, pick4, lotto, super lotto, 6/49, lucky lottery, etc.).

Pedigrees

\$ 15.00 Himanme Programs

Produces a 4 generation pedigree for each animal, using the standard format. Display or screen printouts.

Phonedial-64

\$ 21.95 Input Systems

Acoustically 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.

Right On Programs

\$:na Right On Programs

Various programs of mainly educational applications.

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) which in addition you can customize your roadmap with up to 250 towns/road junctions any where in N. America.

Seeker

\$:na AF Systems

This system provides control over the ICOM IC-R71A communications receiver,

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

Rythm King 64 (\$89.95), Busidata DBMS (\$49.95), Taxware (\$49.95), Busicalc 3 (\$49.95) and more.

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

Designed to give the user the ability to track all lottery and lotto past winning numbers and then compile probable sets of numbers based on the past.

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.

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.

Training Kit

\$ 29.95 Kastel Technology

Teaches a novice computer user how to operate their computer with interactive graphic simulations to lead you through. Covers printer and drive operation, BASIC, graphics, sound and music.

Video Title Editor

\$ 29.95 The Sortech Group

Create video title screens for your home videos or tape collection, with templates for special occasions.



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 B1, but still available from stock. (-B.D.)

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, but runs hot. (-M.B.)

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.)

CSI-64 Switch Model 1208

\$ 164.95 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

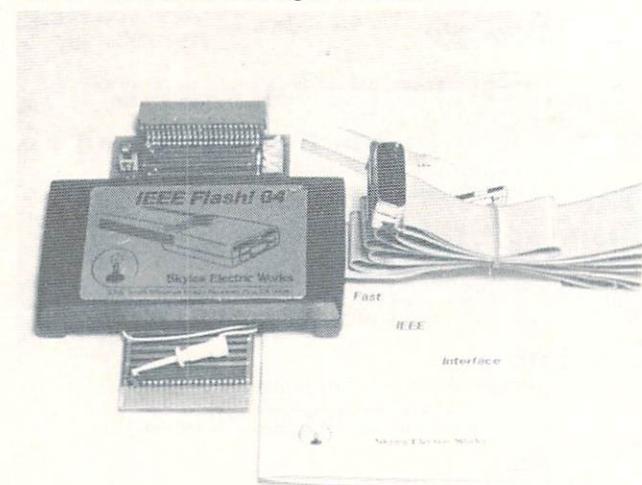
\$ 89.95 Computer Specialties

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.



IEEE Flash! 64

\$ 99.95 Skyles Electric Works

IEEE-488 bus interface that allows you to use other disk drives (std-1001, 8050, etc.). Transparent in that it does not occupy any RAM.

Instructor Monitor Prompter

\$ 2250.00 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.

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.

Multi-Link

\$ 400.00 Rich Hill

Network up to 48 Commodore computers. \$400 master, each slave unit \$150.



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.)

PPI with Graphics Buffer

\$ 49.95 Data Share ****+

True Commodore graphics, expanded graphic characters and alphanumeric (reversed for both also), condensed alpha-numeric, total commodore emulation, no dip switches, fully shielded, graphics buffer and Epson compatible. Another one of the fastest graphic interfaces that we time tested.



MW 350

\$ 89.00 Micro R&D ****

Graphics parallel printer interface. Now includes CP/M mode switch for use with DBase II and WordStar.

Printmaster/+G

\$ 99.95 Omnitronix ****+

One of the faster graphic interfaces we time tested.

Super Graphix

\$ 99.95 Xetec ****

Buffered graphics interface with: 8k buffer / 10 print modes / 3 internal screen dumps / reset button / fonts (correspondence font resident, room for 2 additional fonts) / corrected aspect ratios for most printers external DIP switches / internal fonts support superscript, sub-script, underlining, bold-face, and nine different pitches. Improved version of the old 'Xetec with Graphics' interface. (-Staff)

Turboprint GT

\$ 99.95 Telesys ****

Graphics interface with optional 16k and 32k buffers for extra \$\$\$. One of the faster interfaces we tested. (-Staff)

Card/Print +G

\$ 79.95 Cardco ****+

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!) (-B.D.)

Card/Print B

\$ 49.95 Cardco ****+

Features direct connect (instead of hanging out at the end of a cable), 3 micro-switches for locking printer and interface in various configurations. (-B.D.)

G-Wiz

\$ 59.95 Cardco ***

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 clearance than usual. (-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 suspended until printer is capable of accepting more data.

Device One

\$.na 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.

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.

PLink-2

\$ 59.95 Rich Hill

Serial to parallel printer 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 Graphix Jr.

\$ 59.95 Xetec

Correspondence quality and graphics interface. Includes micro-buffer, 10 printing modes, 100% 1525 printer compatible. Plugs directly into printer.

U-Print model C

\$ 89.95 Digital Devices

Universal printer interface that allows standard centronics parallel printers to be connected to the C64, with graphics capabilities and all necessary hardware included.



Robotics Automat Kit

\$ 279.00 fischer america ****

R-7

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.)

Digital Oscilloscope

\$ 449.00 Rapid Systems ****+

R-9

A four-channel storage oscilloscope that plugs into your C64's user port. Driver software allows you to operate at 500 KHz with autoseek, zoom, screen print, and a Fast Fourier Transform package for spectrum analysis. The device is small and compact, probes are not included. Also available for Apple and IBM. (-M.B.)

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.

Data Acquisition Module

\$ 548.00 Rapid Systems

Data Logging Peripheral

\$ 548.00 Rapid Systems

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.

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.

Model 64IF22

\$ 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 expansion port. Each provides four 8-bit ports, for a total of 32 i/o lines, and 8 control or handshake lines. Four boards can be daisy-chained from one computer to give 16 ports. Extensive documentation.

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 ****+

Expand your system to one megabyte with this double-sided disk drive with fast and reliable access. Currently available only from Progressive Peripherals and Protecto Enterprises. Requires an IEEE interface. (-Staff)

MSD Dual Disk Drive

\$ 434.00 Micro Systems Development ****

A dependable dual drive that can be configured as either a dual drive or two single drives. IEEE interface at additional cost. 98% compatibility of commercial software with serial set-up, while the parallel set-up increases speed, it decreases compatibility by about one half. (-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). (-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. Some-what 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 one and only 100% 1541 compatible disk drive, and that counts for alot. (-M.B.)

FSD-1 Disk Drive

\$ 139.00 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.)

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

\$:na Commodore

A 1541 in a white case, has an optical drive stop.

1581C

\$:na Commodore

This is Commodore's C64/C128 compatible 3.5 inch drive. Despite earlier announcements, it was nowhere in sight at CES. Whether it ever sees daylight is anybody's guess. Supposed to hold 737K, run 60% faster than 1541 on C64, 60% faster than 1571 on C128, 8K RAM buffer.

Enhancer 2000

\$:na Comtel Group

1/2 height disk drive compatible with the 1541.

Mirage

\$ 249.95 World Disk Drives

Fully Commodore compatible disk drive system. Includes: built-in parallel printer interface (with CBM graphics and CBM ASCII to standard ASCII), system reset button, Dip switch selectables, Apple II(c) compatible, fast loader, copy programs and more.



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 as far as we know. (-B.D.)

Cardboard 5

\$ 69.95 Cardco ****

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. (-B.D.)

PDI Serial Cables

\$ 10.00 Public Domain ****+

Ten foot fully shielded serial bus cable (15 foot available for \$15). If you need a long serial cable, these will work nicely. (-M.B.)

PDI Dinset

\$ 5.00 Public Domain **

Reset button that plugs into and uses up the last serial port in your daisy chain. In other words, you can't keep it plugged in if you have a printer, serial-to-IEEE interface, etc., in your last serial port. (-M.B.)



SENSORY PERIPHERALS



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.)



Computereyes

\$ 129.95 Digital Vision ****

The industries 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, Print Shop, Doodle, Koala Pad, Newsroom and GEOS. Used in INFO's production. (-B.D.)

Votrax Speech System

\$ 395.00 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 thats necessary. Compatible with BSR modules for control of lights and appliances. Wireless version is also available for \$349.

HearSay 1000

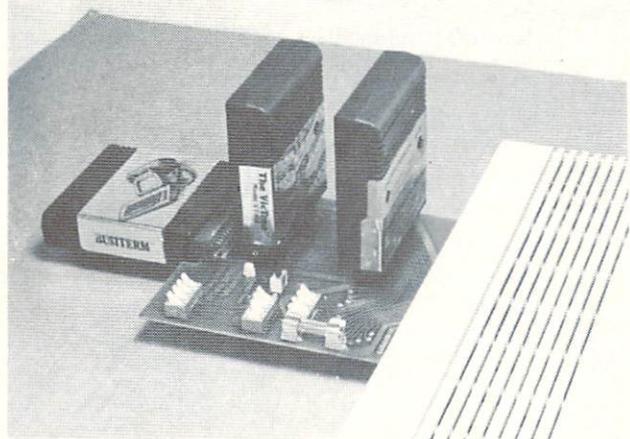
\$ 79.95 HearSay

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.



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).

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.

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.

Uni-Kool model C-100

\$ 39.95 Uni-Kool

Disk drive cooler for Commodore's 1541 and SFD-1001 drives. Special filter, 110v, 60 cycle, operates at 8 qb and moves 15 cubic feet per minute or air thru the drive's top vents. 2.25 inches high.

Y Not

\$ 15.00 Master Software

Six-foot 'Y' cable for the serial buss.

R-2

Voice Master Demo Disk

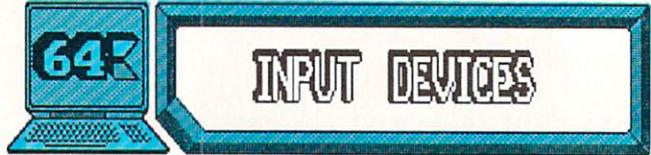
\$ 5.00 Covox

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 a lot 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. programs. 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.



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'.

Smart Ears II

\$ 69.95 Tytron

Speech recognition system.

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.



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

\$ 149.95 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.)

R-2

Koala Pad

\$ 99.95 Koala Technologies *****

A medium-sized input pad that responds to finger or stylus pressure. Comes with 'Koala Painter' color drawing software, uses the C64's 16 colors plus 136 mixed-colors. Features 'oops' mistake correction, sophisticated block moves, quad-symmetry mirror mode, and more! This is one of the best C64 products around! (-B.D.)

R-2

Tech-Sketch LP-10s Light Pen

\$ 39.95 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 Tytron ***

Magic Mouse is big (almost twice the size of a standard mouse). This makes it harder to manipulate. It has three color-coded buttons and uses paddle technology (means it will have difficulties with most program written for mice), but works well with Koalapad software, like Koala Painter. Includes some good programs on disk, well-built and good documentation. (-M.B.)

R-9

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)

Koala Light Pen

\$ 99.95 Koala Technologies **

Light pen with software for drawing freehand using different brushes and colors and geometric shapes all on your screen. In summary stay away from this product...you will find their Koala Pad product much more satisfying and a good value at prevailing prices. (-B.D.)

R-5

Flexikey System

\$ 69.95 Gosub of Slidell

A 20 key numeric pad with BASIC driver software and each key may be defined to have 3 values.

Grafpad II

\$ 149.95 Educational Systems

An import from GB that provides you with a 8.5x11 inch active graphics area and 1280x1040 pixels.

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.

Mighty Mouse

\$ 55.00 *Contriver Enterprise Co.*

Joystick compatible two-button mouse, requires no driver software. (-M.B.)

Muppet Learning Keys

\$ 79.95 *Koala Technologies*

Touch tablet device which makes using the computer easy for the littlest kids, and makes learning numbers and letters and colors much more fun. For ages 3 and up.

Numeric Keypad

\$ 64.95 *CSM Software*

No software required and 100% compatible with all software. Easily installed, full travel keys with numeric, decimal point, shift, return, comma, inst/del, and cursor keys. The shift key can be used with the other keys to produce others like: \$, %, (,). Also has all arithmetic keys.

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.



\$-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, that is 64 banks of 8k, each of which are accessible at any one time. Good for hackers and developers. (-M.B.)

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.

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 pulse rate, respiration, etc.

Compu-Case

\$:na *Computer Case*

C64 and accessories carrying cases of various size (prices range from \$109 to \$229).

CPS-10

\$ 49.95 *Jameco Electronics*

Fused, repairable power supply with surge suppressor, 2 utility outlets.

R-10

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, for the C64 and VIC-20.

Power Up!

\$ 49.95 *C&B Enterprises*

A heavy duty power supply for the C64. Has a 3 amp TO-3 regulator with heat sink. The pri. and sec. is fused and 'transient protection' is provided on 5 levels. It is switched, LED indicator, attractive metal housing, repairable (schematic included), 12 month warranty and USCUG approved.

Promenade

\$ 99.95 *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.

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.

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.

Replacement Chips

\$:na *K.Boufal-Consulting Services*

Replacement VIC, SID, 6510, and other special C= chips.

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.

Spartan

\$ 299.00 *Mimic Systems*

This Apple][+ emulator for the C64 was big news when first announced over 2 1/2 years ago. We had almost written off the Mimic Spartan as a 'no-show' when we began to get reports that people had actually seen them at the San Francisco Commodore Show. Then last week we received ours! The price is down to \$300, it looks clean (if somewhat bulky). No time to test it, but look for a Closeup next issue! (-B.D.)

Spikeater

\$ 49.95 *Control Corp of America*

Power line spike and surge protector that also centralizes computer power control.

The Prompter

\$ 5.95 *Transierra Technology*

Package including 10 plastic function key overlays and 15 label sets, so you can make up each overlay for each piece of software you own.

Valiant Turtle

\$ 365.00 *Kobetek Systems*

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.

COMPUTER TRIVIA

At the peak of the micro-computer craze in 1983, there were over 450 computer magazine titles, including INFO.



BOOKS

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.



MAGNETIC INFORMATION

COMAL Today Disks

\$ 14.95 *Comal Users Group*

Disks to match the COMAL newsletter.

Disk I & II

\$ 8.00 *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*

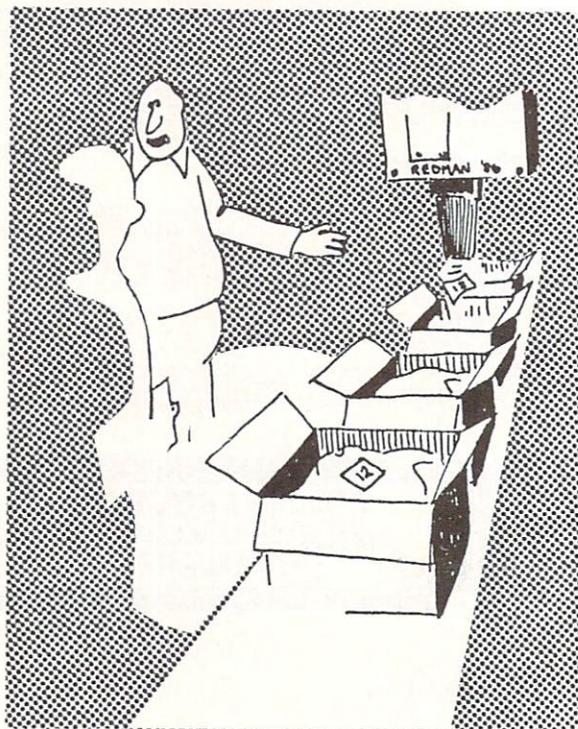
Monthly software-on-disk club with no minimums.

COMPUTER TRIVIA

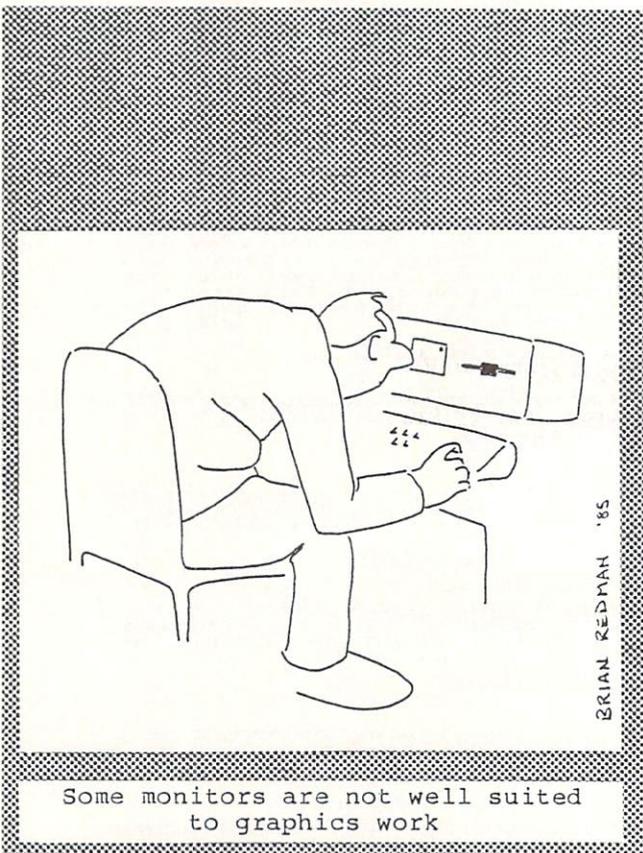
The Pentagon spent \$18.5 million developing Ada, its new standardized language to replace COBOL.

COMPUTER TRIVIA

Apple II computers have been used to monitor certain experiments aboard the Space Shuttle.



"...and here a microprocessor controls the random distribution of those bits of paper that say 'inspected by no.12'"



Some monitors are not well suited to graphics work

128**INTEGRATED SOFTWARE****Vizastar 128**

\$:na Solid State Software ****

The popular 64 integrated package for the C128. Added features include 80-col., keypad, improved speed, more memory, and added features.

Jane

\$ 69.95 Commodore ***

A mouse & icon based integrated system combining wordprocessor, spreadsheet and filer. Uses 40-column screen only, heavy disk usage when switching functions or accessing HELP. Wordprocessor is what-you-see-is-what-you-get variety lacking advanced functions, filer uses simple card index analogy, spreadsheet is minimal. Nice little package for home users, but not powerful enough for businesses. (-M.B.)

SuperClerk

\$:na Kobetek Systems

A new package under development by Kobetek Systems for the C=128. Word processor, filing functions (simple database), calculator, typewriter, and accounting.

Trio 128

\$ 69.95 SoftSync

Offers the three most essential computer programs (word processor, spread sheet and data base) on a single disk. Full integrated so information can be exchanged between programs. Each program has continuous on-screen commands for easy reference. Plus pull down help windows for instant on-screen help in progress.

128**FINANCES
(BUSINESS)****Accountant Inc.**

\$ 99.95 SoftSync

G/L, A/R, A/P with Sales, Purchase, Receipts, Payments, and General Journals. Generates purchase orders, statements, credit memos, etc. Automatic posting.

B.E.S.T. Accounting C128

\$:na B.E.S.T.

C128 versions of their C64 accounting packages, including a/r, a/p, invoicing, statements, etc.

CCI Bottom Liner Serial/IEEE

\$ 134.95 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. Uses 80 columns. The two 1571 drive version is \$134.95 and the IEEE version is \$154.95.

CCI Property Rental

\$ 134.95 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 C128 and two 1571s.

CMS Accounting System

\$ 179.95 CMS Software

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

COMPUTER TRIVIA

The space shuttle's five computers are modified IBM military aircraft computers.

**CCI Integrated Merchandiser**

\$ 499.00 Clockwork Computers

A complete POS system for retailers, which integrates the CCI Merchandiser Plus and the CCI Bottom Liner Plus programs. There is no disk swapping for it configures to two SFD-1001s or one 8250 drive.

**CCI Merchandiser & Accounting**

\$ 400.00 Clockwork Computers

A complete POS system for retailers, who handle cash, checks, credit cards, COD, etc. Adjusts up to 2500 different inventory items as you make sales. Cash drawer is optional. Includes expandable accounting system with single or double entry, prints checks, invoices & statements, etc.

128**FINANCES
(PERSONAL)****Checkbook 128**

\$ 19.95 Nu-Age

Works in C128 80-column mode, includes windows and a pop-up calculator.

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. C64 version included. (-B.D.)

Swiftax 128

\$ 59.95 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. 80-columns.

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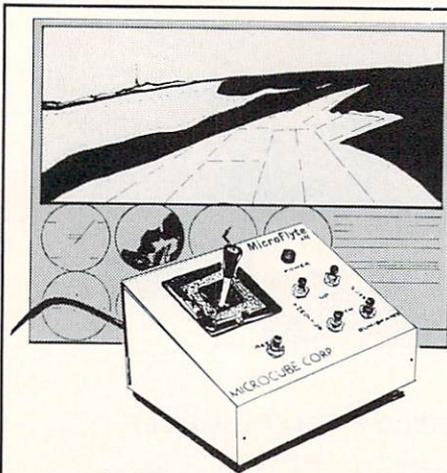
\$ 69.95 Timeworks

Financial planner that manages up to 15 individual portfolios. Includes telecommunications program and works with 1700/50 RAM expanders.

Sylvia Porter's Pers. Finance

\$ 69.95 Timeworks

Financial planning by objectives, checkbook, budget preparation, tax aids, financial statements and inventory tracking. Includes toll free user support number. Now enhanced with automatic check incrementing.



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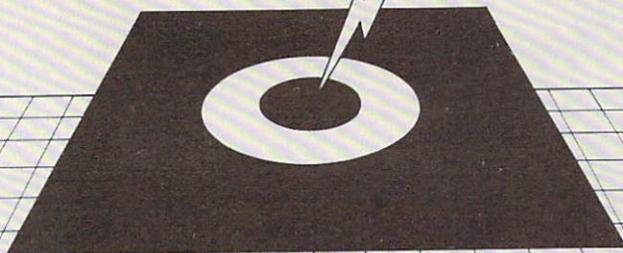
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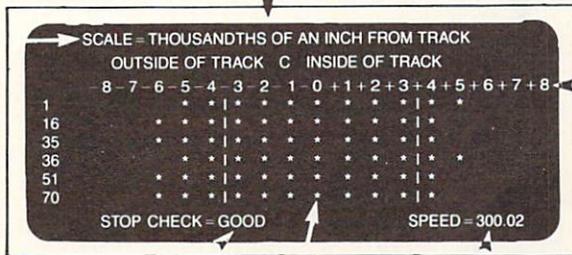
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Software also available for the C-128, C-64, +4, Amiga and IBM PC and compatibles.



Multiplan C128

\$ 45.00 Epyx ****+

Microsoft's popular advanced spreadsheet package for the 128, at a fraction of its original cost and with most of its original power. If you need a very powerful spreadsheet you will definitely want to consider Multiplan. The more disappointing C64 version is included on the same disk. Heavily copy protected. (-M.B.)

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. (-Staff)

Swift 128

\$:na Skyles E:ectric 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 a 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)

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 capabilities, as well as Superbase-controlled personalized mailings. (-M.B.)

Vizawrite 128

\$ 89.97 Solid State Software ****+

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 (IBM & Epson printers only). Still has a few bugs but Solid State is very supportive. Erg-card in #10. (-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). Unprotected.

Fleet System 3

\$ 99.95 Professional Software

648x80 column text capacity, up to 120-column editing with horizontal scrolling. Spellchecker and Thesaurus included.

Ghost Writer 128

\$ 39.95 HES

Auto-format, 30,000 word spellchecker, mail merge from databases, block functions.

The Critic 128

\$ 29.00 Quantum Leap

Full 80 column support with various fonts and full global commands and easy to use.

Word Writer 128

\$ 69.95 Timeworks

Requires a 80 column RGB or monochrome monitor. Offers variable line length, word wrap, cut-and-paste and a spelling checker. 64k of available space. The only really annoying thing is the insert mode, the line you are inserting just gets longer. Now enhanced with speed keys, on-screen highlighting, super/sub script, etc.

Wordfile 128

\$ 24.95 Michaelsoft

Wordprocessor with mailmerge functions (requires dfile 128). Includes word-wrap, file linking, windowing.

Wordpro 128/S

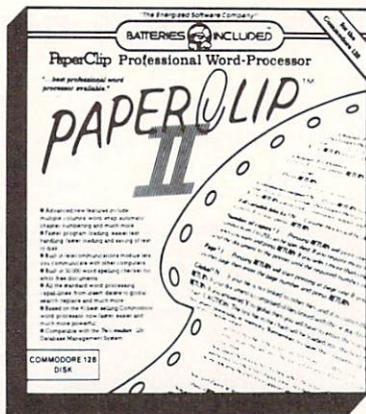
\$ 89.95 Pro-Line

Same as Wordpro 128 but includes spelling checker.

Wordpro 128

\$ 69.95 Pro-Line

An 80-column only version of the popular C64 version, in fact the 40-column version included is that, the C64 version. Does not auto-boot or support the 128 special keys (esc, tab, etc.). Includes an error undo buffer, true proportional spacing and dual column & odd/even page printing.



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 improved editing and text manipulation features. Replaces Paperclip 128. (-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 compatibility with Paperclip, Easy Script, and others. Also includes spelling checker, column functions and foreign character sets. Formerly Paperback Writer. (-Staff)



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)

Consultant

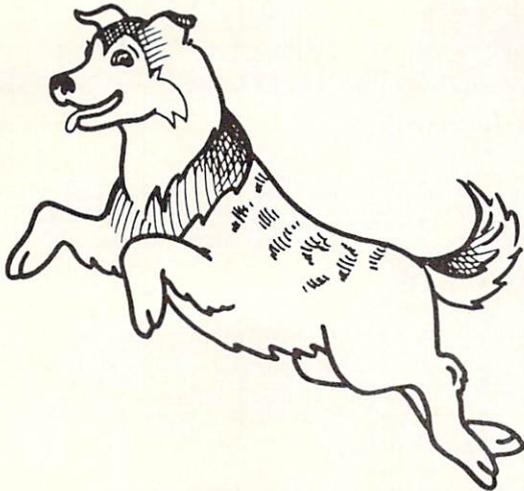
\$ 59.95 Batteries Included

Loads up in either 40 or 80 column format (no switching back and forth). Other than the 80 column and autoboot its identical to the 64 version (included on the disk).

Data Manager 128

\$ 59.95 Timeworks

Requires a 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.

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.

Flexfile 128

\$ 49.95 Mid-Kansas Computers

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.

Profile 128

\$ 69.95 Pro-Line

DBMS for the C128.



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.



Bobstern Pro 128

\$ 80.00 Progressive Peripherals *****

R-10

This one does it all: 40 or 80 columns, emulates VT-100 or ADM31, 1660 and 1650 compatibility, and easy to use. (-Staff)



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 and extensions to BASIC 7.0.

Buddy 128

\$ 69.95 Pro-Line

Assembly language compiler.

Gnome Kit

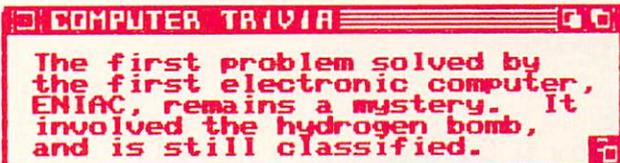
\$ 39.95 Briwall

The old SM Kit utility package updated with a version for the C128. Includes added commands for DOS functions, BASIC programming, and m/l programming. Can be used in either C64 or C128 mode.

Gnome Speed

\$ 59.95 Briwall

This compiler handles most of the BASIC 7.0 commands, handles programs up to 1999 lines and 500 variables. Compiled code requires runtime module to execute.



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 Sptemaster 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)****C Power 128**

\$ 89.95 Pro-Line

A true C language development package for the C128.

Kyan Pascal 128

\$ 69.95 Kyan Software

Pascal compiler.

Super C Language

\$ 79.95 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

\$ 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.

VS128COBOL

\$ 49.95 Visionary Software

Combination editor, compiler, interpreter, and symbolic debugger for COBOL on the C128. Designed along the ANSI X3.23-1974 standards. Includes 100 page manual and sample programs to facilitate learning how to use the system.

128**SOFTWARE BACKUP
(ARCHIVAL)****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 (3.3) includes many more parameters for copying stubborn programs. Our in-house disk copier. Excellent support/update policy. (-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.)

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****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.)

Big Blue Reader

\$ 29.95 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.

Mach 128

\$ 49.95 Access Software

Gives a C128 or C64 five 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 memory expansion, cataloging and organization. C64/C128 mode select switch and a reset switch.

128**UTILITIES
(PRODUCTIVITY)****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.)

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. Initial demos look good...this may be the best yet from Timeworks. (-M.B.)

Sideways 128

\$ 29.95 Timeworks

Can print any normal text file to virtually any width by printing sideways on your printer. 80-col. screen.

128**GAMES****Championship Golf: Vol. I**

\$:na Gamestar

Play like the pros at the Pebble Beach golf course.

Spies Are Us

\$ 19.00 Quantum Leap

After seeing a murder, try to find the killer.

The Pawn

\$:na Firebird

All we've seen so far are demos, but from what we HAVE seen, The Pawn should set the standards for graphic adventures for a long time to come. Pull-down graphic screens, cameo illustrations when the full screens are up, and a parser that can discriminate most of the fine points of the convoluted English tongue. I'm not even sure what the story is about yet, and I'm already excited! C128 version has extras. (-M.B.)

The Scoop

\$ 32.95 Telarium

You are a reporter trying to get 'The Scoop' on a murder story in this C128-only action/adventure.

Trinity

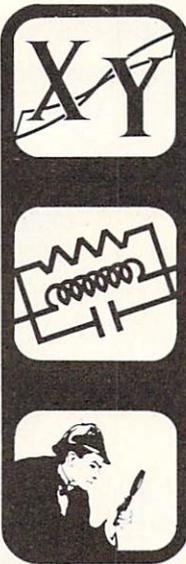
\$ 39.95 Infocom

A weird combination of historical accuracy and Alice in Wonderland, you travel through time to experience a-bomb blasts!

COMPUTER TRIVIA

The original Adventure program was written at Princeton in 1976 by Crowther & Wood.

PROBLEM SOLVING SOFTWARE



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An essential program for forecasting and data analysis with applications in every field. Fits your table of XY data to 23 different types of curve equations to find the best ones to mathematically express your data. Forecasts can be made by the program and the equations can be used to make forecasts, or replace data tables within your own programs. Linear XYZ and XYZT fits also included. An advanced math utility that's easy for anyone to use. . . \$29.95

ELECTRONIC CIRCUIT ANALYSIS — 64

Package of two powerful programs to analyze the frequency and phase response of almost any electronic circuit. Analyzes ladder circuits of up to 200 components, and user specified circuits of up to 40 components and 25 junctions. Resistors, capacitors, inductors, NPN and FET transistors, op-amps and transformers. . . \$29.95

DELUXE CIRCUIT ANALYSIS — 128

New, expanded version especially for the Commodore 128. Features more nodes, branches, circuit element types, with A-B plotting, circuit save to disk and circuit change. (Available May 1986) . . . \$59.95

ELECTRONIC CIRCUIT DESIGN — 64

13 programs to design active and passive filters (22 types) and to solve numerous electronic design problems including: resonance, Ohm's law, decibel conversions, attenuators, and more. . . \$19.95

DISK SLEUTH — 64 DISK ORGANIZING SYSTEM

Catalogs the contents of up to 100 disks into one alphabetized master directory disk. Each entry contains full program information, including 40 characters of your personal comments. Master Directory can be viewed, printed or searched. Allows key files to group programs by categories. For use with MSD or 1541. . . \$24.95

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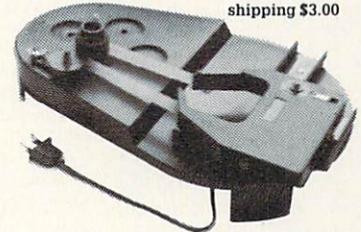
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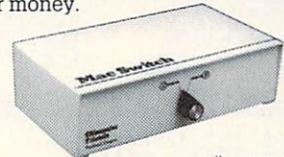


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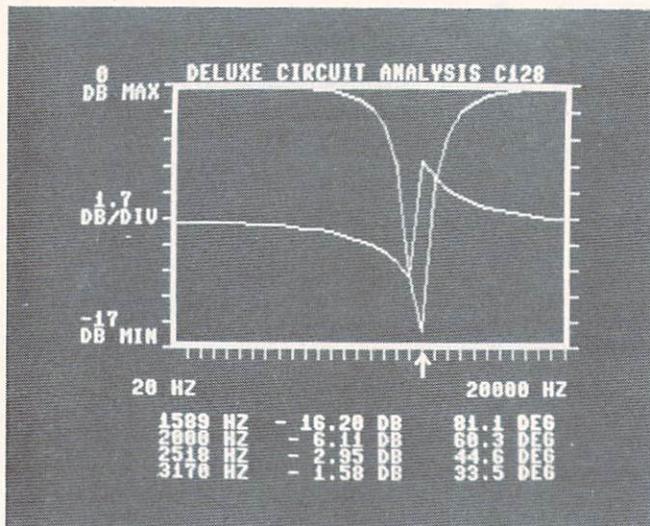
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128**SCIENCE / MATH
ENGINEERING****Deluxe Circuit Analysis C128***\$ 59.95 Nth Digit Solutions*

Analyzes the output of electronic circuits 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.

128**MISCELLANEOUS
(SOFTWARE)****I am the C128***\$ 34.95 Activision*

Step by step tutorial on C128 features, BASIC, etc.

128**MASS STORAGE****1571 Disk Drive***\$ 199.95 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 copy-protected programs will not load. It is also hard to fathom why C= didn't allow more than 144 files on the 1571. Still, a great device. (-M.B.)

COMPUTER TRIVIA

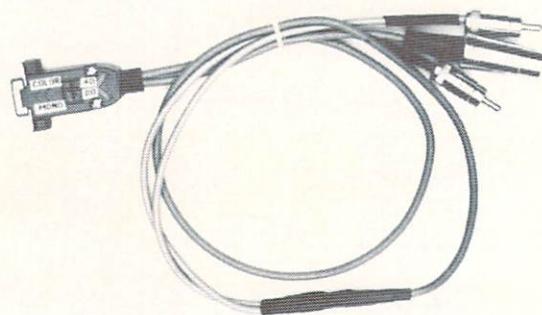
While writing his memoirs on his personal computer, President Jimmy Carter pressed the wrong key and deleted an entire chapter.

128**INTERFACES
(GENERAL)****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 a sfd, 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. (-Staff)

Link-2*\$ 139.00 Rich Hill*

C128 IEEE interface, transparent.

128**GADGETS/CABLES/ETC.****MW 401***\$ 30.00 Micro R&D*

Universal monitor cable for 40 column color/mono and 80 column color (RGB).

40/80 Switch

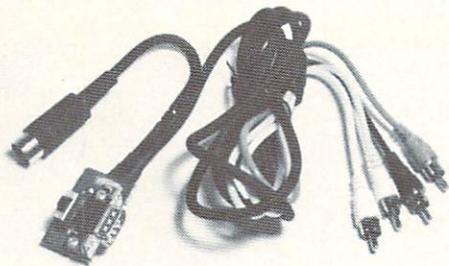
\$ 14.95 *Microventions*

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 Mono Cable

\$ 9.00 *Master Software*

A monochrome output cable to connect the C128 80-column output to a composite monitor.



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. 1702 gives poor results in 80 column mode, works best with any monochrome or hi-res color monitor.



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.)

1700 RAM Expander

\$:na *Commodore*

Adds 128K of additional bank-switched RAM to the C128. Can be accessed by BASIC 7.0 and CP/M.

C128 Cheatsheets

\$ 7.95 *Cheatsheet Products*

Leroy now offers ten different cheatsheets for the C128 including Paperclip, Wordpro, Superbase, and others.

Command Center

\$ 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.

RGBI Conversion System

\$ 49.95 *DigiTek*

Converts C128 RGBI video to composite video, for true color 80-column display on standard composite monitors.



Twin Cities 128

\$ 22.00 *Twin Cities 128*

A monthly newsletter completely devoted to and produced on the C128. Features tips, tech info, and reviews.



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 (?).



Personal Accountant

\$:na *Cardco*

Personal financial planner and record book, including checking & saving accounts, expenses and budgeting.

Personal Inventory

\$:na *Cardco*

Personal net worth covering stocks & bonds, cash, real estate, retirement, and other assets & liabilities.



Calcstar

\$ 145.00 *MicroPro*

Wordstar-compatible spreadsheet.

Perfect Calc

\$:na *Commodore*

Spreadsheet with split-screen windowing, multiple spreadsheets and regional recalculation.

SuperCalc 2

\$ 295.00 *Sorcim*

Spreadsheet and data manager compatible with Wordstar and DIF files.

SuperCalc

\$ 195.00 *Sorcim*

Well established spreadsheet.

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Months of R&D have gone into the GCR CLONE MACHINE™ for 1571. Now you have the ability to reproduce GCR signals to back up virtually all software for the 64/128 including CPM (double sided too!). Included are:
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PRINTER INTERFACE

The MW-350 interface has been revised to fully support the 128 including complete CPM emulation total graphics, correct aspect ratios, print buffer, etc. Insist on compatibility for only \$79.00

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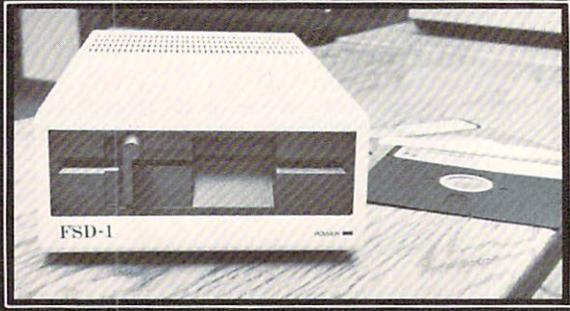
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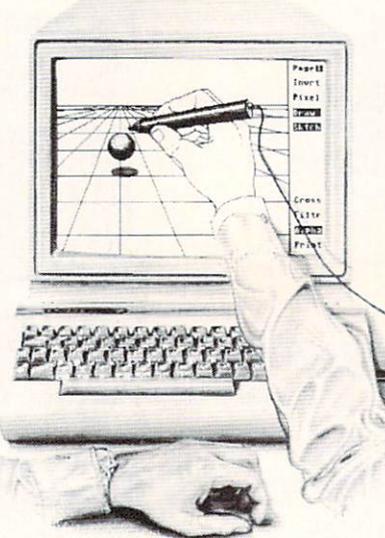
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the Graphics Galleria the long awaited integration program for avid graphic artists and CAD users, will not only convert other popular graphics packages to Flexidraw and back, but also gives you the ability to create your own self-running slide shows in high resolution. Hi-res to Hi-res, Hi-res to Flexidraw, Multicolor to Multicolor, the Graphics Integrator is also compatible with Word Processing programs with external file capability for integration of text and pictures. (\$29.95)



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the Graphics Galleria a variety of clip art and artistic renditions from Flexidraw users and professional artists. The Galleria will provide you with diskette libraries of large and small drawings from fantasy images to real-life recreations. Ideal for use in newsflyers, stationery, invitations and poster work, the Graphics Galleria can be used with Flexidraw or many other graphics packages when used with the Graphics Integrator. Available this winter for \$29.95

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MailMerge

\$ 250.00 MicroPro

Adds form letter capability to Wordstar.

Out-Think

\$ 50.00 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

\$:na Commodore

Wordprocessor with split-screen windowing, spelling checker, and Thesaurus.

Spellstar

\$ 250.00 MicroPro

Spelling checker for Wordstar.

Wordstar

\$ 495.00 MicroPro

The original CP/M word processor, against which all others are judged.



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.

dBase Utilities

\$ 30.00 Hilco Software

Utilities to use with dBase II that decode, modify, and speed up applications.

Infostar

\$ 495.00 MicroPro

DBMS compatible with Wordstar. You will have trouble finding this in a suitable 5 1/4 format.

Perfect Filer

\$:na 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 compile 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.)

R-9

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

A new powerful educational programming language for the C=128 in CP/M mode (now being developed by Kobetek Systems) which combines the spirit of the LOGO Turtle with the structure of Pascal.

MasterForth

\$ 125.00 MicroMotion

Forth-83.

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.

Turbo Pascal

\$ 49.95 Borland

Highly praised Pascal for CP/M systems. Toolbox, tutorial package available.



XPIP

\$ 29.95 System Facilities ****+

R-10

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.)

Write-Hand Man

\$ 49.95 Poor Person Software ****+

'Sidekick' for CP/M includes Notepad, Phonebook, Calculator, and more. M/L expandible. 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.)

ConIX DOS

\$ 79.95 Computer Helper

Shell-like front end for CP/M-like UNIX.

CP/M 128 Public Domain

\$:na National Public Domain

Software from the CP/M users groups. For sale or rent.

CP/M Public Domain

\$:na Poseidon Electronics

Extensive public domain CP/M library with C128 support.

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

Over 100 software products for the C64 and CP/M, covering public domain disks, business, games, education, etc. (you name it).

Elliam Public Domain library

\$ 7.50 Elliam Associates

6000 programs on 300 disks. Catalog is \$7.50.

Statistical & Business

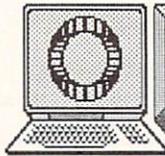
\$ 100.00 Lionheart

Statistical and business program series, PERT, Monte Carlo, etc. in \$100 range.

Time Manager

\$:na Cardco

Personal and small business appointment calendar and scheduler for up to 240 people.



TELECOMPUTING (HARDWARE)

Avatex 1200

\$ 99.00 California Digital

A 300/1200 baud modem for under \$100! 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.)

Mercury Modem

\$ 265.00 Computer Friends

300/1200 baud autodial modem claimed 100% Hayes compatible. RS232C interface.



INTERFACES

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.

Microspooler

\$:na Consolink

Three printer data buffers of different types and prices ranging from \$139.95 to \$595.

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.



INPUT DEVICES

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.)

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.

QuickShot controllers

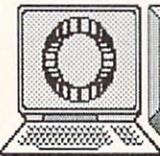
\$:na Spectravideo

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.

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.



GADGETS & CABLES

Disk Doubler

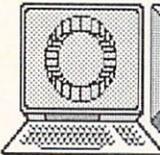
\$ 6.88 T.I.E. Limited ****

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. (-B.D.)

Rich Hill Cables

\$:na Rich Hill

Cables for IEEE, modems, user port to Centronics parallel or RS232C.



DISPLAYS

Sony KV-1311

\$ 500.00 Sony Corp. ****+

R-10

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 ****

R-10

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.)

Amiga A1080

\$ 400.00 Commodore/Amiga ****

R-10

RGBA, RGBI and composite inputs. (-Staff)

Magnavox CM-8515

\$ 450.00 Magnavox ****

RGBA, RGBI and composite inputs.

Sears Monitor/TV

\$ 340.00 Sears ****

Monitor and TV with RGBI and composite inputs.

Amdek Color 500

\$ 370.00 Amdek ****+

RGBI and composite inputs.

Panasonic DT-M140

\$ 330.00 Panasonic ****+

RGBA, RGBI and composite inputs.

1902 Color Monitor

\$:na Commodore

Commodore's own monitor for the C128. RGBI 80-columns, separated composite video input for 40-columns. 13 inch

CMON composite monitor

\$ 129.95 Jameco Electronics

13 inch composite monitor.

COMPUTER TRIVIA

The original Apple single board computer only sold 220 units at \$666 apiece.



PRINTERS (COLOR)

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.

GP-700A

\$ 399.00 Seikosh

Graphic color printer.

Okimate 10

\$ 239.00 Okidata

40 shades of color possible from a 4-color ribbon cartridge. Light-weight and compact. Ribbons are good for one pass only so printing can get rather expensive (ribbons are about \$9 each and are good for about 10 pages of output). The color quality is good (from the samples we've seen) and printing can be done on acetate for direct transparencies.

PJ 1080A Inkjet

\$:na Canon

This inexpensive color inkjet printer delivers 7 colors



PRINTERS (DOT MATRIX)

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. (-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 occasional feed problems with labels and heavier stock like index card stock. Everything else about the printer is first class. (-B.D.)

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.

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.

MPS 1000 Dot Matrix Printer

\$:na 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 803 Dot Matrix Printer

\$ 149.00 Commodore

Low-end Commodore printer lacks tractor feed for formed paper, not the world's greatest print quality. (-Staff)

Okimate 120

\$ 269.00 Okidata

Commodore-compatible character set, serial buss, lets this printer work 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.

SP-1000A

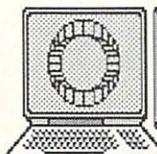
\$ 299.00 Seikosh

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)



MISCELLANEOUS (HARDWARE)

Moustrak

\$: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.)

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.)

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.

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.

KIM-1

\$ 219.95 K.Boufal-Consulting Services

Though it's being made by someone new, this is still the old MOS Technology KIM-1 computer--the granddaddy of the Commodore PET and great-granddad of the C64. Price quoted is for 1K model; they also have add-on memory, complete documentation, KIM motherboards, etc. This one is a real collector's item!

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 II 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.)

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 reink 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 accommodates 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.

MicroStuffer Printer Buffer

\$ 69.95 Supra

External 64K printer buffer that will accept parallel input. One button repeat.

Mouse Wash

\$ 7.95 T & L Products

A custom ball you stick in your mouse to clean it w/o solvents.

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.

Serial Box

\$ 79.95 R.J. Brachman Associates

Serial buss 64K printer buffer. Connects between computer and printer interface or Commodore-compatible printer.

Tilt 'n Turn CRT Stand

\$ 29.95 MicroComputer Accessories

12 x 12 inch platform, made of high impact styrene in a putty finish.

Ultravox

\$ 69.95 Precision Peripherals

Stereo sound synthesizer, produces stereo audio output from your C64/C128 mono audio out. Phone jack, volume.

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

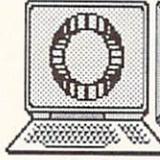
\$ 19.95 Diversions

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.itech prowriter, Okidata 80 & 90, Star Gemini 10x & 15x.



CompuServe

*\$:na CompuServe *****

R-11

The Commodore area was revamped and TPUG is no more. \$35 to join, \$6/hr at 300 baud, \$12.50 at 1200 baud plus 25 cents/hr for CIS direct phone line use or \$2/hr for a carrier service. (-Staff)

Dow Jones/News Retrieval

*\$ 75.00 Dow Jones *****

R-6

Like CompuServe (minus CIN) and business oriented service. Charges are a one-time fee of \$75 and \$0.20/min. connect time (\$12/hr). (-Staff)

PlayNet

*\$:na PlayNet *****

R-11

Still lots of C64/128 action especially with the addition of the ICUG team formerly of Viewtron and CompuServe. For \$19.95 you get their disks and manual, and you can choose between \$8/month & \$2.75/hr access or \$3.75/hr access with no monthly charge. (-Staff)

QuantumLink

*\$:na QuantumLink *****

R-11

Connection is with their software only (no Amiga access) Colorful screens and has an interactive animated online game (in collaboration with LucasFilms). \$9.95/month and \$3.60/hr access. (-Staff)

The Source

*\$:na The Source *****

R-11

A commercial network alot like CompuServe. Memberships are \$49.95 to join plus \$10/mo service charge and \$6/hr at 300 baud and \$7.80 at 1200 baud. (-Staff)

BIX

\$:na Byte Magazine

R-11

Message system without live chat. \$25 to join for Byte subscribers, \$39 for others. \$11/hr. for 1200 baud. (-Staff)

CompuGram

\$:na Quazon Electronics

R-11

Business-oriented facilities. \$25 to join, \$6/hr for 300 baud, \$12.50 for 1200 baud plus \$2/hr Tymnet use. (-Staff)

Delphi

\$ 49.95 Delphi

Telecommunication service with E-mail, conferencing, news, travel, financial info, Commodore SIG, and more. \$6/hr after registration, no additional for 1200 baud or Tymnet access.

Electronic Village

\$:na Independent Computer Users Gro

R-11

Going on-line in Sept., rates not yet available. (-Staff)

Genie

\$:na GENIE

R-11

Fastest file transfers, C64/128 and Amiga SIGs. \$18 to join, \$5/hr access. (-Staff)

Mnematics

\$:na Mnematics

R-11

Interesting small service with CBM and Amiga. \$15 to \$40 to join, and \$3.49/hr access. (-Staff)

PeopleLink

\$ 4.25 PeopleLink

R-11

C64/128 and Amiga network. No sign-up fee only hourly rate. Message bases are slim but partyline chat is hopping.

ProtoCall

\$:na ProtoCall

R-11

ProtoCall is laid out like a real city with streets, buildings, shops and the Arcadia interactive roleplaying game park. \$3.60/hr at 300 baud and \$4.80 at 1200. (-Staff)

The Well

\$ 8.00 *Whole Earth Lectronic Link*

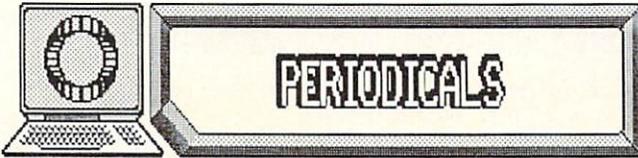
EMAIL, conferencing, and all the other amenities, plus the Amiga Developers Conference, where much inside information is traded. \$8/mo + \$3/hr. Call 415-332-6106 and type 'newuser' to sign up. Also available on Uninet

X-Press

\$:na *X-Press*

X-Press was sending data by satellite into the Amiga booth at COMDEX. It's a one-way info service at 9600 baud. They offer worldwide news, financial and stock market reports, and sports. Call for pricing. (-Staff)

R-11



INFO

\$ 3.95 *Info Publications* ****+

'irreverent bimonthly'- Wall Street Journal.
'Consumer Reports of the Commodore marketplace'- AHoy!
'an unusual and worthwhile publication'- InfoWorld's
Essential Guide to the Commodore 64
'in the tradition of the early Berkeley Barb'- Joe Spano
Entirely produced and managed with personal computers.
If INFO ever actually comes out on schedule, it'll get
five stars for sure! (-B.D.)

Ahoy!

\$ 2.75 *Ion International* ****

Monthly for C64/C128, and considering Amiga coverage. Ahoy! offers type-in programs in BASIC, so you can actually learn from them, articles that are informative and even challenging, and reviews that are somewhat cautious, but sometimes critical. Dale Rupert, Morton Kevelson, and others on the Ahoy! staff are real experts. The best of the 'big three', with more 'hacker flavor' than the others. (-B.D.)

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 computing. Very few photos, few ads, and color on the cover only. Much of the best technical information appears first in the Transactor. Also check out their 'Commodore Inner Space Anthology'. It is THE reference book for Commodore techies. (-M.B.)

Commodore Microcomputers

\$ 2.50 *Commodore Publications* ****+

Recently merged with 'Power Play', this is Commodore's own magazine. Some good informative articles, type-in programs in BASIC (so you can learn something), candy-coated 'reviews' that read like press releases, and good photos. Don't expect to read any criticism of Commodore from this gang: their paychecks are still signed in West Chester, PA. Monthly. (-B.D.)

RUN

\$ 2.95 *CW Communications* ****+

This slick monthly Commodore magazine is chock-full of ads, lots of color and photos, occasional decent articles. Reviews are often out of date and, worse, not to be trusted. Though they've toned it down somewhat lately, they are still treating the Plus/4 seriously. Best features are the MAGIC column, which is best obtained in its indexed, all-in-one-place form in the annual RUN Special, and Strasma's C= Clinic. (-B.D.)

Compute!'s Gazette

\$ 2.95 *Compute Publications* ***

Slick monthly publication with coverage of Commodore's 64, 128, and some on the Amiga. Emphasis is on type-in games and occasional utilities. Reviews are generally candy-coated but reasonably current. Goes with the flow, avoiding controversy and originality. Both the quality and the accuracy of the type-in programs has been way down lately. (-B.D.)

TPUG Magazine

\$ 2.95 *TPUG* ***

Published 10 times a year by the 'world's largest Commodore user's group'.. Toronto Pet Users Group in Canada. This publication has historically been at the center of Commodore computing coverage in Canada, with a fairly technical emphasis. Still has that hacker flavor of the '70's, with much info of interest only to TPUG members, but Butterfield and other pros contribute regularly. (-M.B.)

The Guide

\$ 2.50 *The Guide* **+

(Formerly N.W. Users' Guide) This independent monthly covers Commodore computing with sincerity, honesty, and occasional humor. Not real 'meaty', and shows lots of room for improvement. One year subscriptions/\$18. (-B.D.)

Compute!

\$ 2.95 *Compute Publications* **

Monthly publication with Commodore, TI, Atari, Apple, IBM, and misc. coverage. Compute! has been stripped down to an almost totally B&W mag with few photos, and even less useful information. The recent addition of ST and Amiga coverage didn't help focus their appeal much. Unless you own six brands of computer, it's a waste of money. We are surprised that our prediction of the death of Compute! has not come true. (-B.D.)

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.)

COMAL Today Newsletter

\$ 14.95 *Comal Users Group*

COMAL news, tips and ready to type in programs. \$14.95 for 6 issues and \$2 for a sample copy. Laser printed for the past several issues.

Machine Code

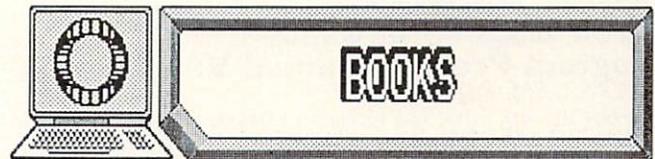
\$ 40.00 *FS! Software*

A newsletter oriented toward the person who is interested in machine (assembly) language programming. Includes beginners column, quarterly programming challenge, articles of all m.l. facets, home brew electronics, robotics, 1541 programming, high speed graphics, and more. 1st issue available Fall 85. Quarterly publication. Each subs. includes a free copy of 'The Machine Shop'.

Program Protection Newsletter

\$ 35.00 *CSM Software*

Each month 3-5 or more programs are covered. The protection schemes will be examined and broken down for aid in making an archival copy. This is a how and why approach to program protection with special monthly articles covering the DOS, operating system, product reviews, eprom programming and more. Considered by many the best general source of protection info. (-M.B.)



1541 User's Guide

\$ 19.95 *Brady Communications*

Gerry Neufeld's book on using the 1541 covers house-keeping, 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 maintenance. 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.

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.)

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.)

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. Why should someone stay up all night, just to make a weird pattern on a CRT? 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

\$:na *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 should be ready soon. (-M.B.)

Inside Commodore DOS

\$ 19.95 *Brady Communications*

The best book written to date on the 1541. (-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 kernel routines, etc. but lighter on the basics of 6502 coding. Best if used in conjunction with a more generic 6502 assembly language book, but indispensable for the C= info. Latest revision includes C128. (-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.

Starting FORTH

\$:na *Prentice-Hall*

This book will get you started in FORTH painlessly. (-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.

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.)

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.

PDI Manual

\$ 10.00 *Public Domain **+*

Written for the first 12 C64 and VIC20 collection disks. Basically a catalog/users guide for these disks. Most programs honestly don't need the assistance, but if you're really stuck figuring out how a program works I suppose this book will help you out. (-M.B.)

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.

Computer Companion for the 64

\$ 11.45 *Tab Books*

A companion manual for the C64.

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 location 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.

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

\$:na *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.)

Whats Really in the C=64

\$ 29.95 *Schnedler Systems*

Reconstructed assembly-language source code listing of the Basic and kernel ROMs. Enables one to understand and use the 'undocumented' ROM routines, and better understand even 'official' kernel routines. Uses labels, not a mere one-line disassembly. Every routine is introduced with a statement of its purpose. Tables are full sorted out and derived, not a mere hex-dump.

Your Commodore 64

\$ 14.95 *Osborne/McGraw-Hill*

Mostly a how-to-program-in-BASIC tutorial, with C64 specific PEEKs and POKEs for graphics, sound, etc.

COMPUTER TRIVIA

Digital Equipment Company (DEC) was a mail-order electronic parts company when it was founded in 1957.



INTEGRATED SOFTWARE

Enable/Office Manager

\$:na Software Group

Highly acclaimed in IBM circles, an integrated package with word processing, spreadsheet, database, telecommunications and graphics modules. All modules can transfer files between each other as well as share data between other products such as: Lotus 1-2-3, dBase, VisiCalc, Volkswriter, etc. Long promised but still undelivered, we have to wonder if Enable will ever see the light of day. (-M.B.)

Logistix

\$:na Progressive Peripherals

A spreadsheet from Great Britain that PP&S says will be a real 'Lotus Killer': 1000x2000 sheet; dbms features let you search, sort, or select information; time-management functions; graphics capabilities include 9 fonts & up to 16 graphs/page; built-in macro language; dBase file compatible; math co-processor support; critical path analysis, and many more features.

Maximillian

\$ 195.00 MaxiSoft

Four modules (spreadsheet, wordprocessor, graphics, & terminal). 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.

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.)



FINANCES (BUSINESS)

Amiga Man: Business

\$ 24.95 Amiga Man

10 business programs on disk.

B.E.S.T. Business Management

\$:na B.E.S.T.

Integrated business management system, functions include a/r, a/p, invoicing, statements, etc.

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.

D.A.S. Business Finance

\$ 45.00 Developers of Advanced Softwar

Aides you with your financial decisions.

Financial Plus

\$:na Byte By Byte

A/R, A/P, G/L, Payroll plus built-in wordprocessor, run via pull-down menus and mouse.

Integrated Accounting System

\$ 295.00 Byte By Byte

Small business accounting: a/r, a/p, general ledger, payroll, and word processing.

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.

Lionheart Business Software

\$:na Lionheart

Business analysis books with prices from \$75 to \$150.

ParBiz I

\$ 129.00 ParSoftware

A business financial package.

PERT Analysis

\$:na Lionheart

Time and scheduling project management package.

PHASAR

\$ 89.95 Marksman Technology

PHASAR (Professional/Home Accounting System And Register) lets users manage accounts, budget, calculate taxes, and analyze finances.

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 package. New version IV now 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 now 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'. New 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. New version IV has been 'Amiga-tized' to take advantage of mouse and pull-down menus.

Statistical & Business

\$ 100.00 Lionheart

Statistical and business program series, PERT, Monte Carlo, etc. in \$100 range.



FINANCES (PERSONAL)

Financial Cookbook

\$ 50.00 Electronic Arts

R-4

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

Another what-if financial package.

Amiga Man: Home

\$ 19.95 Amiga Man

Budget, labels, calender, checkbook, etc. programs.

D.A.S. Home Finance

\$ 45.00 Developers of Advanced Softwar

Aides you with your household financial decisions.

Money Mentor

\$ 95.95 Sedona Software

Manages budget and spending. Up to 30 accounts. Tabular and graphic display of personal financial data.

ParHome

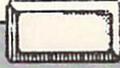
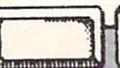
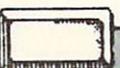
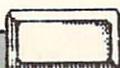
\$ 69.00 ParSoftware

A home financial package features checkbook accounting, 'spendaholics exam', IRA analyst, life insurance planner, and more.

ParReal I

\$ 129.00 ParSoftware

Provides real estate related functions.





SPREADSHEETS

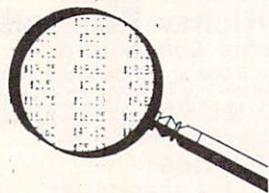
UniCalc

\$ 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.)

ANALYZE!

An Electronic Spreadsheet



MICRO-SYSTEMS SOFTWARE, INC.

Analyze!

\$ 100.00 Micro Systems Software

256X8192 spreadsheet features pull-down menus, mouse operation, and is multi-tasking.

BTS The Spreadsheet

\$ 69.95 Batteries Included

1000 x 1000 cell worksheet.

CalCraft

\$:na Synapse Software

Advanced spreadsheet which features pull down menus and flexible formatting options.

Enable/Calc

\$:na Software Group

Full featured spreadsheet program with Lotus-like macros, over 50 math functions and up to 8 simultaneously active spreadsheet files in RAM.

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.

MaxiPlan

\$ 150.00 MaxiSoft

Spreadsheet with color cells, graphics (in IFF format), speechsynthesis and is supposed to read/write Lotus 1-2-3 files.



WORDPROCESSING

TxEd

\$ 40.00 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.)

Scribble!

Scribble!

Word Processor

MICRO-SYSTEMS SOFTWARE, INC.

Scribble!

\$ 100.00 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. Not many printer options beyond simple margins, though inbedded format commands allow some flexibility. Mouse/menu or control-key operation. Scribble! supports headers and footers. Not many advanced features, but compact and easy-to-use. (-Staff)

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.)

Enable/Write

\$:na Software Group

Advanced word processing program for professional users with advanced features like multiple format lines, automatic footnoting, index, and table of content generation, extended character sets, mail merge, etc.

HippoConcepts

\$ 119.95 Hippopotamus Software

Outliner and thought processor.

HippoWord

\$ 189.95 Hippopotamus Software

Multiple font word processor with macros.

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.

LSE

\$:na Lattice

Lattice Screen Editor. Multiple windows, user defined command strings. An improvement on ED, but not as flexible as it might be.

Micro Forge Programmer Editor

\$ 70.00 The Micro Forge

A programmer's editor for the Amiga.

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.

Talker

\$ 49.95 Rosetta Software

A talking word processor, good for proofreading and learning to type.

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.).

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 BYB's other packages.



A Filer

\$ 49.95 MegaSoft Ltd.

Data base program with 12 fields per record.

A Report

\$ 49.95 MegaSoft Ltd.

Report generator that works from 'A Filer' data files.

Acquisition

\$:na Taurus-Impex

Available in 3 stages: basic system (\$99), filer & data base (\$199), and the program generator (\$299). Multi-tasking, 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.

Enable/List

\$:na Software Group

Powerful, flexible DBMS that can handle up to 1301 bytes of info with over 256 fields per record.

Flexfile

\$ 79.95 Mid-Kansas Computers

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 multi-tasking 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.

InfoBase

\$ 45.00 Harvsoft

DBMS with up to 200 fields and unlimited (to the extent of how much memory your Amiga has) records.

InfoMinder

\$ 89.95 Byte By Byte

Centralized, hierarchical information retrieval system that access up to 7 files at once, incorporates a full function wordprocessor and takes up only 80K. (-Staff)

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.

MiAmiga

\$ 99.95 Copperstate Business Systems

Without a doubt the prettiest business program, sorts in RAM, up to 32,000 records per file. (-Staff)

Organize!

\$ 100.00 Micro Systems Software

DBMS with up to 128 fields/form (on up to 4 pages), up to 4,000 bytes per form.

Superbase Amiga

\$:na Progressive Peripherals

A superenhanced 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. Will be available in two versions, one with programmability via a MicroSoft BASIC-compatible language.

The Data System

\$ 200.00 Gander Software

Full feature dbms that can work on up to 9 conditions.



Aegis Images

\$ 79.95 Aegis Development ****

We use Images regularly for the features it has that Deluxe Paint doesn't, like dithering, pattern fills & shade fills. It also does almost everything that DPaint does, such as object drawing, block moves, etc. One nice touch is the ability to have two pictures with separate color palettes in memory at once. Written in C, so the response isn't as quick as DPaint, and Images works in lo-res only. Unprotected. (-M.B.)

Deluxe Paint

\$ 99.95 Electronic Arts ****

Our 'in-house' graphics package. Deluxe Paint is easy to work with, powerful, and user-friendly. Allows two pictures (but only one palette) in memory at once, has lo-med- and hi-res modes, many fine drawing and manipulation tools. Lacks dithering, pattern fills, shade fills. A marvelous and well-designed drawing program, and EA has an enhanced version on the way which addresses DPaint's shortcomings. (-M.B.)

Aegis Animator

\$ 139.95 Aegis Development ***+

Combines background pictures, detailed drawn objects, and animated polygons to produce intricate 3D animated videos. Drawn objects can only move over static backgrounds, 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.)

PCB CAD

\$:na Soft Circuits ,

Colorful multiple-layer printed circuit board design CAD program featuring 'interactive autorouting'.

3D Graphics Library

\$:na Computer Food

Library of 3D functions for programmers.

Aegis Draw

\$ 199.95 Aegis Development

A CAD program that features automatic scaling, zoom, gridding, layering, rulers and file merging.

Amiga Fonts

\$ 14.95 Classic Concepts

Assortment of custom fonts for the Amiga. First disk includes 13 new fonts- some large, some decorative. These fonts are said to be compatible with popular graphics packages in addition to the workbench and notepad environment. Future font disks under development include scientific symbols, foreign alphabets and decorative and specialized fonts.

Analytic Art

\$ 69.96 Crystal Rose Software

Graphics program has special effects features, files compatible with other Amiga graphics programs.

Art Director

\$:na Grey Associates

Graphics package for advertising artists; create storyboards, layouts, justify text, and create artwork.

G-10

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 Paint Art & Utility I

\$ 29.95 Electronic Arts

Over 175 brushes and 3 utilities, including spooler.

Deluxe Video Construction Set

\$ 99.95 Electronic Arts

Creates animated videos with cartoon-like graphics and sound effects. Accepts data from other EA software.

Designer's Pencil

\$ 29.95 Activision

Graphics and sound design system.

Dynamic CAD

\$:na Micro Illusions

Full CAD design system. Supports 8000 layers, has database functions for parts, parts files included for landscape, electronics, etc. Mil-spec fonts, net list from schematics, full plotter support for many popular plotters. 2D system, requires 512K and two drives.

Grabbit

\$ 29.95 Discovery Software

This little 10K utility will dump any Amiga screen to your printer or to disk as an IFF file. It runs in the background of most applications and incorporates a special priority-checking routine to lessen its interference with other programs. Unprotected, and copyable to any user-accessible disk. This sounds like an indispensable utility program.

Graphicraft

\$:na 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.)

Hippo Fonts

\$ 39.95 Hippopotamus Software

12 additional fonts to use with HippoWord.

HippoPixel

\$ 59.95 Hippopotamus Software

Font and sprite editor.

Imagine This

\$:na Loxxo

A video image-processor that accepts images from video digitizers (like LIVE) and IFF graphic files.

Impact

\$ 199.95 Aegis Development

A business graphics package that creates 'slide shows' of graphs, charts and text for presentations.

TV-TXT

\$ 249.95 Zuma Group

A high-res animated video title producing program, can be used with the 'Genlock' device.



Future Sound

\$ 175.00 Applied Visions

IFF compatible stereo digital sampler with pre-amp and mike.

Hippo Sound Digitizer

\$ 200.00 Hippopotamus Software

An ADA board that allows saving, editing and playback.

MIDI Gold Interface

\$ 79.00 Golden Hawk

MIDI Interface

\$ 49.00 Mimetics Inc.

Allows MIDI to communicate with other MIDI equipment. Plugs into the serial port, includes MIDI in, out and thru connectors.

Skyles MIDI Interface

\$ 59.95 Skyles Electric Works

1 MIDI in, 2 MIDI out, 1 MIDI thru port, plugs into RS232 port.

SoundScape Audio Digitizer

\$ 99.00 Mimetics Inc.

Lets you use Amiga-generated sound, external MIDI-synthesizers or both. IFF compatible.

Stereo Sound Digitizer

\$ 345.00 The Micro Forge

A digital sound capture device and software.



Concertcraft

\$:na Commodore/Amiga

Uses artificial intelligence to create musical accompaniment which follows the musician's tempo rather than compelling the user to follow the recorded music's tempo. Can store up to 5 lines of pre-recorded music.

Deluxe Music Construction Set

\$ 99.95 Electronic Arts

Includes music notation for triplets, quintuplets, ties slurs, trills, beams, octave signs, repeats, up to 8 staves and more. Produces stereo output and prints sheet music. Mouse required.

Instant Music

\$ 49.95 Electronic Arts

This program lets you play along with a soundtrack using only a joystick. You're an instant virtuoso! (-Staff)

Musicraft

\$ 50.00 Commodore/Amiga

Turns the Amiga into a professional 4 voice synthesizer and sequencer. Allows the user to play the computer keyboard like a piano.

Pitchrider

\$:na IVL Technologies Inc.

Designed to work with Harmony (Concertcraft).

Pro MIDI Studio

\$ 149.00 Mimetics Inc.

Recording studio-like software.

The Music Studio

\$ 59.95 Activision

Music composition and editing, uses pull-down menus and supports up to 15 channels. Doesn't use standard IFF.



1680 Modem

\$:na Commodore/Amiga

1200 baud modem for Amiga. RS-232 interface.

T-Modem

\$ 600.00 Tecmar

A Hayes compatible modem with selectable 300, 1200, and 2400 bauds. Provides touch tone decoding, off hook detection and interfaces to audio circuits within the AMIGA. Modem fits neatly under a standard phone.



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

\$:na Commodore/Amiga

Terminal package supports up to 130-column output, Kermit, XMODEM, and Compuserve B protocols.

A Term

\$ 49.95 MegaSoft Ltd.

Terminal program with 'speak on' that allows the incoming data to be spoken thru the speaker, x-modem text x-modem binary VT-100.

A-Talk

\$ 49.95 Felsina Software

An integrated communications package: auto dial/answer, answer & hangup, phone directory and full ANSI terminal emulation. VT100 emulation will be available.

AmigaMAIL

\$ 99.00 Micro Systems Software

An Amiga bulletin board system program that runs under Workbench, so it can run in the background while you do something else.

AmigaTERM

\$ 69.00 Micro Systems Software

An Amiga telecommunications program.

D.A.S. Communications

\$ 45.00 Developers of Advanced Softwar

Terminal package with VT-100 emulation, built-in bulletin board system with message board.

Digital Link

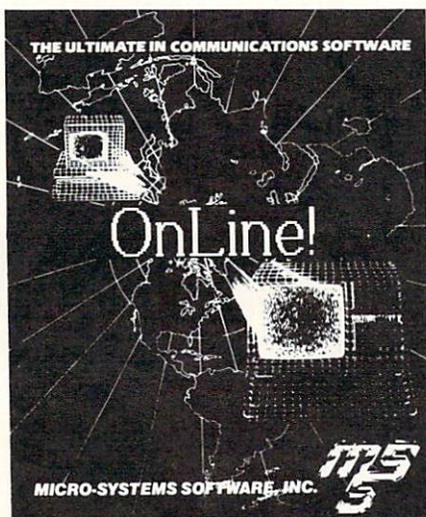
\$ 69.95 Digital Creations

File transfer and telecommunications package supports file transfer to and from IBM/PC and Macintosh, also Compuserve, Delphi, MCI Mail.

MaxiComm

\$ 50.00 MaxiSoft

An elementary terminal program for both telecommunications and file transfer.



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.

Telecraft

\$:na Software 66

Easy to use, but sophisticated communications and terminal emulation package.



Advanced String Library

\$ 39.95 True BASIC

Source library of True BASIC string manipulation funcs. Includes 38,000 word dictionary.

Amiga Programmers Library

\$ 200.00 MaxiSoft

14 tools for developing software and 10 utilities for editing existing software.

Amiga-Lint

\$ 100.00 Gimpel Software

C language diagnostic package.

dBC III

\$ 150.00 Lattice

A C function library that provides indexed file handling support for dBase-compatible files.

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.)

HobKit I

\$ 125.00 Getting Enterprises

Utilities for graphics, music and data processing.

Lattice C CrossCompiler/MSDOS

\$ 250.00 Lattice

Allows programs to be developed on the IBM PC for the Amiga. It uses an IBM MS-DOS source to generate an Amiga target system. Nice when Amigas were scarce, but not the best way to develop Amiga software now, gang! (-M.B.)

Lattice C CrossCompiler/UNIX

\$ 250.00 Lattice

Allows programs to be developed for the Amiga on UNIX machines. It uses a Sun UNIX 4.2 source to generate an Amiga target system. Same comments apply here as for the MS/DOS cross-compiler. (-M.B.)

Lattice C CrossCompiler/VAX

\$ 250.00 Lattice

Allows to be developed for the Amiga on VAX systems. It uses a VAX source to generate an Amiga target. Same comments as for MS/DOS cross-compiler. (-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 Make Utility

\$ 125.00 Lattice

Similar to UNIX make.

Lattice Text Utilities

\$ 100.00 Lattice

C routines for the manipulation of text.

LMK

\$:na 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.

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 dis-assembler, 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 BASIC

\$: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.)

R-10

Lattice C Compiler

\$ 250.00 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. (-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 than 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.

AC/FORTRAN

\$ 295.00 AbSoft

Fortran compiler with supposed 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 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.

Doost Forth

\$ 40.00 Doost Software

A descendant of Forth-83.

Key to C

\$ 29.95 Data Research Processing

Standard C functions for windows, screens, menus, and other common functions.

Mach 1

\$ 59.95 Palo Alto Shpg. Co.

Multi-tasking Forth-83 with standard infix assembler.

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, but not as nice at error reporting as Lattice C.

Micro Forge Prolog Level I

\$ 89.00 The Micro Forge

PROLOG, the AI language, for the Amiga.

MVP Forth

\$ 175.00 Mountain View Press

MVP Forth is transportable to IBM-PC, Apple II, and many other machines.

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

\$:na 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 LGOG syntax.

True BASIC

\$ 150.00 True BASIC

An enhanced BASIC from the originators of the language.

Turbo Pascal

\$:na Borland

Highly praised Pascal system. Toolbox and tutorial package available.

UCSD Pascal

\$ 79.95 Pecan Software

Structured, portable, dynamic, compact and friendly. Optional BASIC, Fortran77, and Modula 2 compilers.



Marauder

\$ 39.95 Discovery Software ***+

Backups many of the most current Amiga titles on one or two drives. Easy to use, pull-down menus of parameters. Periodic updates available. (-M.B.)

R-10

A Copier

\$ 39.95 MegaSoft Ltd.

One or two drive nibbler copier.



UTILITIES

RAM Disk

\$ 25.00 *The Micro Forge* ****

Gives you a RAM disk with Workbench icon, so you can use Workbench for file copying, etc. Seems to be transparent to most everything. (-M.B.)

Tychon Utilities

\$:na *Tychon Technologies* .

AmigaDOS help files, VT-100 terminal emulator, TalKey, and PolyDraw.

A Disk

\$ 29.95 *MegaSoft Ltd.*

A '2-drive' emulator so you don't have to swap your Workbench disk in-and-out.

Amiga Man: Utilities

\$ 29.95 *Amiga Man*

Amiga system utilities, 5 per disk.

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. Available Mid-August. (-M.B.)

Disk Guru

\$:na *Computer Food*

Utilities like undelete, recover bad files and editing.

Disk Library

\$ 50.00 *Classic Image*

Utility for cataloging your disks.

Disk Traffic Controller

\$:na *Grey Associates*

Master disk catalog for your disks.

IBM PC Emulator

\$ 69.95 *Softteam*

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.)

Laserwriter Fonts Vol. 1

\$ 30.00 *S. Anthony Studios*

Includes Round, Classic, and Showtime.

Laserwriter Utilities

\$ 25.00 *S. Anthony Studios*

Format your text for use on the Laserwriter.

MaxiCache

\$ 29.95 *MaxiSoft*

A RAM buffering system.

MaxiKey

\$ 29.95 *MaxiSoft*

A keyboard macro maker.

MaxiMizer

\$ 29.95 *MaxiSoft*

A mouse/macro maker.

MaxiShare

\$ 29.95 *MaxiSoft*

A two-Amiga data sharing system.

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.

Printer Driver Maker

\$:na *Software Supermarket*

A program that lets you produce your own custom printer drivers for the Amiga.

T-Util

\$ 69.95 *Techni-Soft*

A disk repair and file recovery utility package. Also includes disk track and sector editor.

ZLI

\$ 70.00 *Zoxso*

Line interpreter with pipes, search paths, user definable function keys, UNIX-like wild cards, etc.



UTILITIES (PRODUCTIVITY)

Gizmoz

\$:na *Digital Creations* *****

One of the first Amiga packages to actually exceed our initial expectations. An indispensable package! Gizmoz offers an excellent selection of business, programming, and personal tools to make your life easier at the Amiga keyboard. Several calculators, a rolldex, calendar, 'hotkey' macros, file compress/encrypt, etc., and even a dynamite Life program! Transportable, unprotected, multitasking under Workbench. (-M.B.)

MaxiDesk

\$ 70.00 *MaxiSoft* ***

SideKick-type utilities lack the pizzazz of Gizmoz. Includes phone book, notepad, calendar, alarm clock. (-M.B.)

2+2

\$ 100.00 *Olamic Systems*

Calendar, telephone directory, mail list, financial management functions.

ES15C Calculator

\$ 20.00 *Emusoft*

Emulates a programmable calculator (like the HP 15C).

SciCalc

\$ 14.95 *D.L. De fore*

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.)



GAMES (ARCADE & ACTION)

Arcticfox

\$ 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 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.)

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.

Diablo

\$ 30.00 *Classic Image*

Slide tracks into place to keep the marble rolling in this addictive puzzle-game.

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.

G-10

G-7

HC Software Australia Games

\$ 38.00 HC Software Australia

Various Amiga games: Cosmos, Napoleonic G.A.P. and Land G.A.P. for \$38 each.

Marble Madness

\$ 49.95 Electronic Arts

Outstanding translation of the arcade version. Wonderful graphics and endless play. Definitely the next generation in video game standards!

Mind Walker

\$:na Commodore/Amiga

In this unusual game you are a physics professor who has had his personality split four ways. These four personalities must cooperatively work to make the mind whole again.

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.

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.

Starglider

\$:na Firebird

3D vector-graphics 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.



Chessmaster 2000

\$ 44.95 Electronic Arts

Very smart chess with many options for the Amiga. 3D board, 12 levels of play, library of games & problems.

Chessmate

\$ 29.95 Dark Horse

Chess in Amiga BASIC with m/l logic routines. 2D/3D, switch sides, replay moves, book moves, speaks in three different voices, many other features.

Golden Oldies

\$:na Electronic Arts

The Amiga version of Pong, Life, Adventure, and Elize, these are in the public domain for most machines, but might not be available in Amiga 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. AMIGA version available 1st quarter 1986.

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.

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. Advanced level.

Leather Goddesses 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.

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.

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. Expert 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 catastrophe. 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

\$ 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 is of standard level and II & III are advanced levels.



Mindshadow

\$ 44.95 Activision ****

An adventure that starts you out as an amnesiac stranded on an 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.)

G-10

Adventure Construction Set

\$ 49.95 Electronic Arts

Build your own graphic adventure.

Alternate Reality

\$ 39.95 Datsoft

Science fiction role-playing adventure with 3D graphics

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.

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.

Cinemaware

\$:na Master Designer

Four 'interactive movies' with non-linear plots. A new dimension for adventure game players: move your players in 3D, just like in the movies. Great graphics. Titles include 'King of Chicago', 'Sinbad', 'Defender of the Crown' (knights), 'SDP' (science fiction).

Deja Vu

\$ 49.95 MindScape

Graphic text adventure that transports you into a suspense filled 1940's Hollywood mystery. Hidden clues are revealed by clicking a mouse. Players view several aspects of the adventure simultaneously with the AMIGA's windowing.

Hacker

\$ 44.95 Activision

An interesting concept, because this game includes no instructions as you accidentally gain access to a main-frame. From there 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.

Oo-Topos

\$ 29.95 Polarware/Penguin Software

Adventure on the planet Oo-Topos.

Portal

\$:na Activision

Sci-fi novel.

Rogue

\$:na Epyx

Seek the Amulet of Yendor in the depths of your Amiga.

Seven Cities of Gold

\$:na 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.)

Solar System

\$:na Ace Computer Enterprises

A space adventure.

Temple of Apshai Trilogy

\$:na Epyx

Now available for the Amiga, the entire Trilogy is on ONE DISK, a tremendous bargain for Amiga gamers.

The Coveted Mirror

\$ 29.95 Polarware/Penguin Software

An interactive novel.

The Crimson Crown

\$ 29.95 Polarware/Penguin Software

An interactive novel.

Transylvania

\$ 29.95 Polarware/Penguin Software

Search all of Transylvania to find and rescue the princess.

The Pawn

\$:na Firebird

All we've seen so far are demos, but from what we HAVE seen, The Pawn should set the standards for graphic adventures for a long time to come. Full-down graphic screens, cameo illustrations when the full screens are up, and a parser that can discriminate most of the fine points of the convoluted English tongue. I'm not even sure what the story is about yet, and I'm already excited! Amiga version has extras. (-M.B.)

Ultima III

\$ 59.95 Electronic Arts

The classic dungeon game brought up to the Amiga.



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, Immelmans all in 3-D.

Champion Star League Baseball

\$ 29.95 Gamestar

Should be similar if not better to the C64 version.

Championship Golf: Vol. I

\$:na Gamestar

Play like the pros at the Pebble Beach golf course.

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.

R-4

Gridiron

\$ 40.00 Bethesda Softworks

Football simulation which uses the mouse for control.

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.

G-10

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

\$ 39.95 Access Software

Golf simulation that's better than the Atari ST version.

Mean 18 Ultimate Golf

\$ 49.95 Accolade

Includes 3 famous courses: Pebble Beach, St. Andrews, and Augusta National. Build your own course and pick your skill level.

Micro League Sports Assoc.

\$:na Micro League Sports Assoc.

Micro League Baseball (\$60) and General Manager's Owner Disk (\$40).

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.)

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, varying conditions, full instrumentation, air-mail game, VFR & IFR flying. (-B.D.)

Ultimate Life (OOPS! This is for the C64!)

\$ 24.95 Jenday

Menu-driven, simultaneous dual resolution, full control of game rules, printer and disk macro control, hires drawing package built-in and contextual help screens. From Jenday's description, this sounds like the version of Life they must play in heaven. If it's as good as it sounds, Benn will have to get out the next issue with-out me: I'll be busy with this program. (-M.B.)



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.)

Facemaker - Golden Ed.

\$ 49.95 Spinnaker

Children learn computer basics.

Halley Project

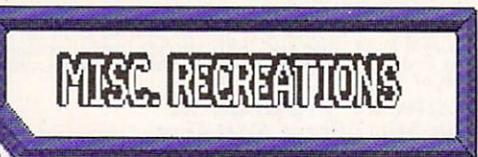
\$ 45.00 MindScape

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

\$ 40.00 MindScape

Trains users to type on the computer keyboard, excellent graphics and ease of use make it appropriate for users age 8 and up.



Mandelbrot

\$:na Robert S. French ****

G-10

If you have an Amiga and an spare ten or fifteen bucks, we suggest you 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 Mandelbrot self-squared dragons in 4096 colors. (-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.)

Racter

\$ 44.95 MindScape ***+

G-10

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.)

Amiga Man: Games

\$:na Amiga Man

Amiga games ranging in price from \$20 to \$50.

Dr. Xes

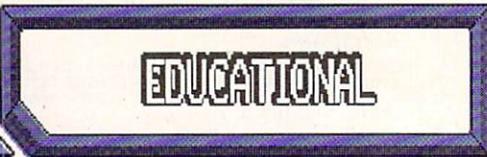
\$ 49.95 Rosetta Software

An advanced version of Eliza.

little Computer People

\$ 44.95 Activision

Brings out the little people inside every computer.



Amiga Man: Educational

\$ 19.95 Amiga Man

Scientific, mathematic, spelling and more for all ages.

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'. Translated from Mac version.

MicroEd Educational Titles

\$:na MicroEd

Several titles available covering vocabulary, basic usage, punctuation, etc. Some speak, have graphics, etc. Most require 512K.

Paraclete

\$ 90.00 Associated Computer Services

Music tutorials for students.

Queue Educational Titles

\$:na Queue Inc.

Several titles available covering vocabulary, geography law, business, etc.

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.



Grade Manager

\$ 90.00 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/Music Student 1&2

\$:na Associated Computer Services

Quiz Master (\$80) allows teachers to create and give quizzes. Music Student I & II (\$50) take students thru major areas of music.





SCIENCE / MATH ENGINEERING

Digital Building System

\$ 300.00 *MicroMaster Software*

Allows you to design and test digital electronic circuits graphically.

Linear Programming

\$:na *Lionheart*

Statistical package.

LogicWorks

\$ 200.00 *Capilano Computing Systems*

Integrated logic design tool.

PCLO

\$ 1000.00 *Soft Circuits*

Printed Circuit board LayOut for CAD engineers.



MISC. SOFTWARE

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.)

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.

Computer Co-Pilot

\$ 900.00 *Alive Systems Group*

Expert system to help you organize your life.

Hippo Computer Almanac

\$ 35.00 *Hippopotamus Software*

35,000 facts in 17 topic areas.

Public Domain Disks

\$:na *Mid-Kansas Computers*

SASE for list of over 40 public domain Amiga disks.

Station Manager

\$ 2000.00 *Associated Computer Services*

Full featured TV station management software, uses standard IFF format and will have additional modes like a weather system (\$1000).

The Talking Coloring Book

\$:na *JMH Software of Minnesota*

A 'talking coloring book' that won't let you color out side the lines.

Time & Task Planner

\$ 110.00 *Gander Software*

Time management tool for up to 5 users. Includes ABasiC



INTERFACES

T-Card

\$ 400.00 *Tecmar* **

A multi-functional expansion card with up to 1M byte of memory, with a serial port, clock/calendar, hard disk interface, parallel port, and its own power supply. The unit we looked at had some definite transparency problems, resulting in garbled video screens at times and a greater-than-usual number of guru meditations. (-M.B.)

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 micro-processor 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. Should be under a \$1000.



DATA ACQUISITION AND CONTROL

ADC-1 Data Acquisition

\$ 450.00 *Remote Measurement Systems*

Analog and digital inputs with hardwired, controlled outputs and a transmitter.

Hippo Home Controller

\$ 140.00 *Hippopotamus Software*

Home remote control of appliances.

PAL DMA Controller

\$ 895.00 *Byte By Byte*

High speed DMA controller for the PAL with clock/calendar device with five DMA slots.



MASS STORAGE

1010 3.5 External Drive

\$:na *Commodore/Amiga* ****+

Functionally identical to the Amiga's internal drive, compact, and includes daisy-chain connector for up to 4 drives total. (-M.B.)

Micro Forge Hard Drives

\$:na *The Micro Forge* ***+

10MB (\$1,135), 20MB (\$1,230) and 40MB (\$1,480). Oversized interface card, nuclear power supply, hard metal case. These units would probably withstand Armageddon. Keep your coffee warm on top of the drive. Ours worked like a charm, never gave us any trouble. Like the Tecmar drive, only 2x faster than the Amiga floppies, but at least more affordable, with a \$500 or better savings. (-M.B.)

T-Disk

\$ 1495.00 *Tecmar* ***

A nice-looking 20-megabyte 3.5 inch hard disk drive. Requires additional \$495 interface card, making it one of the most expensive hard drives we've ever seen for any computer. The T-Disk is only about twice as fast as the Amiga's floppies, but is very nicely compatible with AmigaDOS and applications programs. Price and speed are its only drawbacks. (-M.B.)

1020 5.25 External Drive

\$:na *Commodore/Amiga*

Serves one purpose and one purpose only--to let you use standard IBM/PC MS-DOS disks with the Amiga PC emulator or Sidecar. (-M.B.)

2X2 Disk Drive

\$ 595.00 *Cardinal Software*

Dual 5.25 inch drive w/interface electronics can emulate Amiga 3.5 drives or IBM-compatible 5.25 format.



IVS Ramex-1M

\$ 200.00 Interactive Video Systems

1MB of RAM expansion board.

PAL Hard Disk Drives

\$:na Byte By Byte

20MB drive 65 mSec access time and a 45MB drive with 35 mSec access time.

Supradrive Hard Disk

\$ 599.00 Supra

Price quoted is for 10 meg, also in 20,30,60 megabyte models, to \$1995.

T-Tape

\$ 600.00 Tecmar

A 20Mbyte tape backup for a hard disk drive. Still 'under development' at Tecmar with no announced date of availability.



Atime

\$ 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.)

R-10

Belkin Accessories

\$:na Belkin Components

Parallel Printer Cable (\$18), 2-way parallel data switch (\$99), 4-way data switch (\$129).



Digiview Digitizer

\$ 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. (-B.D.)

G-10

Penmouse+ Input Device

\$ 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.)

R-10

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.

Genlock

\$ 850.00 Commodore/Amiga

Allows you to integrate any video source with Amiga video output. So you can, for instance, place Amiga animated titles over your own video home movies. Or add obnoxious zooming discount signs to simple-minded late-night discount furniture commercials. The possibilities are endless!

Hippo B&W Digitizer

\$ 200.00 Hippopotamus Software

1/60th of a second video fram grabber.

Series ONE

\$:na Kurta Corp.

An Amiga graphics tablet in 3 sizes: 8.5x11, 12x12 and 12x17 inches.



1050 256K Amiga RAM expander

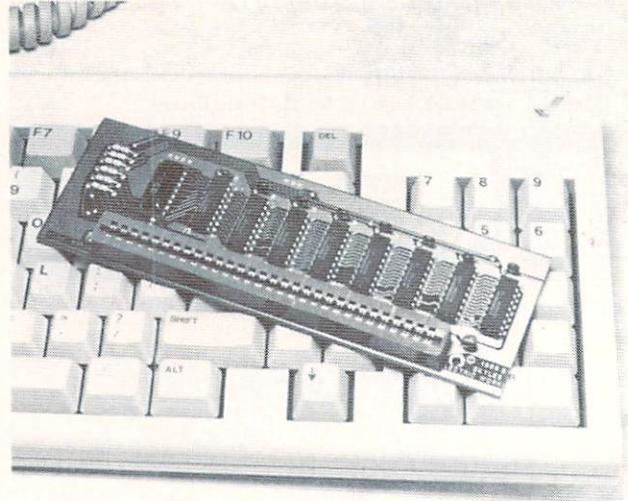
\$ 199.00 Commodore/Amiga ***+

Adds 256K of RAM to the basic Amiga for a total of 512K. Highly recommended to add 256K to bring your Amiga up to full power. (-M.B.)

256k RAM Card

\$ 120.00 Star Point ***+

RF Shielded, more compact than Commodore's. Ours works fine, and the price is right. (-M.B.)



262k RAM Expander

\$ 119.95 Skyles Electric Works ***

Bare board w/o RF shielding, but it works fine. (-M.B.)

68020/68881 Piggyback Board

\$ 1875.00 Computer System Associates

Promises to boost overall performance speed up to 40%. Piggybacks into Amiga's 68000 cpu socket.

aMega

\$ 549.95 Cardco

Don't know if any actually got out to dealers, but this is a one megabyte autoconfig expansion memory board. (-Staff)

Amiga 3000 (Ranger)

\$:na Commodore/Amiga

The rumor mill is hot with details about the Ranger, the 68020 Super-Amiga supposedly slated for introduction as early as Spring '87. Besides superfast speed (up to 12 MHz is rumored), the Amiga 3000 will offer flicker-free 640X400 graphics as its standard mode of operation, and up to 1024X1024 displays with a special (and expensive) monitor. Watch these pages for more INFO as it becomes available. (-M.B.)

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 Templates

\$ 9.95 Slipped Disk

Full-keyboard size templates for AmigaDOS or BASIC.

Buss Station

\$:na Data Share

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.

Hippo Eprom Burner

\$ 199.95 Hippopotamus Software

Read, verify and burn most all Emproms.

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.

Micro Forge One Slot Board

\$ 85.00 The Micro Forge

A full buss for all Micro Forge products.

Micro Forge Seven Slot Board

\$ 657.00 The Micro Forge

A 7 slot full buss for all Micro Forge products.

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.

One Meg RAM Expander

\$ 699.95 Skyles Electric Works

One meg of outboard Fast RAM for the Amiga. Also avial-able in a 2-meg version for \$999.95. (-M.B.)

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 MB of onboard RAM.

Sonic 1 Extension Speakers

\$ 69.95 Mid-Kansas Computers

Pair of small, self-amplified speakers for the Amiga.



Sonic 2 Extension Speakers

\$ 89.95 Mid-Kansas Computers

Pair of small, self-amplified stereo speakers for the Amiga. More bass than the Sonic 1 speakers.

WAO Robot

\$ 150.00 Hippopotamus Software

Logic controlled robot.



PERIODICALS

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 much more informative than Amiga World, if not as nice-looking. Monthly. \$24/yr. (-M.B.)

Amiga World

\$ 3.95 CW Communications ***

A glossy bi-monthly Amiga magazine. Lots of nice color and Amiga art, but until the last issue or two very light on information. Commodore has a big hand in what is said in Amiga World, so don't expect much boat-rocking. The only 'big' Amiga-specific magazine.

Ami Project

\$ 3.00 Nortia

A monthly Amiga-specific magazine. No color. Articles concentrate on the technical: C, Modula 2, Forth, etc.

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.

The Amigan

\$ 25.00 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. \$25/yr. (-M.B.)



BOOKS

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 Kernel (in two volumes).

Amiga Schematics

\$ 24.95 Cardinal Software

Full schematics of the Amiga's electronic innards.



MAGNETIC INFORMATION

Amiga Training Tapes

\$ 40.00 Organic Productions

VHS or Beta video instruction with book and demo disk.

Alphabetical Index to Product Roundup Manufacturers & Vendors.

- (M)agreeable Software
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plymouth mn 55442
612-559-1108
- A-Squared Systems
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oakland ca 94619
- A.J. Kwitowski
302 Euclid Ave.
Glassport pa 15045
- Abacus Software
po box 7211
2201 kalamazoo st. s.e.
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616-241-5510
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214-241-9515

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15600 palmetto lake dr.
miami fl 33157
305-252-1850

Integrated Software Syste
po box 1801
ames ia 50010
515-233-2992

Intellectual Software
562 Boston Ave.
Bridgeport ct 06610
203-334-2082

Intelligent Software
box a
san anselmo ca 94960
415-457-6153

Interactive Analytic Node
2345 W. Medicine Lake Dr.
Minneapolis mn 55441

Interactive Mini Systems
5312 w. tucannon ave.
kennewick wa 99336
509-783-3829

Interactive Video Systems
y-102
15201 Santa Gertrudes Ave.
La Mirada CA 90638
714-739-5020

Interplay Inc.
10875 Main St.
Fairfax VA 22030
804-359-9760

Ion International
45 west 34th st. suite 407
new york ny 10001
212-239-0855

IVL Technologies Inc.
#3-3318 Oak St.
Victoria BC V8X 1R2

Jacobsen Software Designs
1590 e. 43rd ave.
eugene or 97405
503-343-8030

JAL Software
box 128
s. milwaukee wi 53172
414-762-5253

Jameco Electronics
1355 Shoreway rd
Belmont CA 94002
415-592-8097

Jance Assoc
po box 234
east tex pa 18046
215-398-0434

Jason-Rapheim
1805 Industrial Dr.
Auburn ca 95603
916-823-3284

JB Horton
box 2426
bethlehem pa 18017
215-691-1147

Jenday
PO Box 4313-n
Garden Grove ca 92642
714-636-3378

JMH Software Of Minnesota
7200 Hemlock Dr.
Maple Grove MN 55369
312-858-7950

John Henry Software
PO Box 745
Vandalia OH 45377
513-898-7660

Juki
20437 s.w. ave.
torrance ca 90501

K-12 MicroMedia Publishin
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Ramsey NJ 07446

K Boufal-Consulting Servi
244 Fitzwater St.
Philadelphia pa 19147
215-925-6469

Kamasoft
po box 5549
Aloha OR 07007
503-649-3765

Kastel Technology
621 minna st.
san francisco ca 94103
415-863-5636

Ketek
po box 203
Oakdale IA 52319

Key Clue
666B W. Unicorn Ave.
Montebello ca 90640
213-725-6946

Keypunch Software
1221 Pioneer Bldg.
St. Paul mn 55101
612-292-1490

King Microwave
Suite 210
5950 Cote des Neiges
Montreal PQ H3S 1Z6
514 737-9335

Kinney Software
121 N. Hampton Rd.
Donnelsville oh 45319

Knight Software Ltd.
Central Village CT
203 564-4982

Koala Technologies
269 Mt. Herman Rd.
Scotts Valley ca 95066
408-435-8883

Kobetek Systems
1007 commercial st.
new mias ne b4n-3c4
902-674-1541

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
1320 stony brook rd.
stony brook ny 11790
516-751-5139

Kurta Corp.
4610 s. 35th st.
phoenix az 85040
602 276-5533

Kyan Software
1850 union street #183
san francisco ca 94123
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L&L Music
3650 NW 37th St.
Ft. Lauderdale fl 33309
305-486-4799

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Glen Ellyn il 60138
312 858-7950

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23318 second ave.
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Lincoln IL 62656

Lionheart
po box 329
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514-933-4918

Lisp Company
430 monterey ave. #4
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List Processing Software
po box 3422
Rapid City SD 57709
605-341-8550

Lynn Computer Service
6831 w. 157th st.
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M&M Software
140 university ave.
palo alto ca 94301
415-321-2722

M'Soft
12027 pacific st.
omaha ne 68154
402-334-7870

Magnavox
see 'NAP'

Mannemann Tally
8301 s. 180th st.
kent wa 98032
206-251-5500

Mapx Software
1 Industrial Way W.
Bldg. B
Eatontown nj 07724
201-542-1871

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Route 5
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Marshall Software
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marshalltown ia 50158
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Marshview Software
po box 1212
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MasterSoft
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Bend or 97709
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Mastertronic
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MaxiSoft
2817 Sloat Rd.
Pebble Beach CA 93953
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NAP Consumer Electronics
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Knoxville TN 37914
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vista ca 92083
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Sonora CA 95370
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Los Osos ca 93402

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NewTek
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Topeka KS 66603

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manchester nh 03103
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Berkeley CA 94710

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Menlo Park ca 94026
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Secaucus NJ 07094
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625 Miramontes St.
Suite 103
Half Moon Bay ca 94019
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2807 oregon ct. #f-3
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213-212-7788

Pescan Software
1410 - 39th st.
brooklyn ny 11218
718-851-3100

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sharon ct 06069
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canton ma 02021
617-828-1209

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Loudonville NY 12211
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Pim Publications
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617-679-3109

PlayNet
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Polarware/Penguin Softwar
2600 keslinger
po box 311
geneva il 60134
312-232-1984

Poor Person Software
3721 Starr King Circle
Palo Alto ca 94306
415-493-3735

Poseidon Electronics
103 Waverly Place
New York ny 10011

Powerline Software
po box 635
new hartford ny 13413

PractiCorp International
the silk mill
44 oak st.
newton upper falls ma 02164
617-965-9870

Precision Peripherals
PO Box 20395
Portland or 97220
503-354-7855

Precision Software
park house 4 park terrace
worcester park
surrey kt england
01-330-7166

Prentice-Hall
Edgewood Cliffs NJ 07632

Prism Software
401 Lake Air Dr.
Suite 0
Waco tx 76710
817-751-0200

Pro-Line
755 the queensway east
unit 9
mississauga on L4Y-4C5
416-273-6350

ProCode
15930 s.w. colony pl.
portland or 97224

Professional Handicapping
1940 W. State St.
Boise id 83702
208-342-6939

Professional Software
51 fremont st.
needham ma 02194
617-444-5224

Professor Jones
1940 w. state st.
boise id 83702
208-342-6939

Programmed Press
2301 Baylis Ave
Elmont ny 11003
516-775-0933

Progressive Peripherals
464 kalamath st.
denver co 80204
303-825-4144

ProtoCall
516-775-0933

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7326 N. Atlantic
Portland or 97217
503-289-6254

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5025 s. rangeline rd.
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513-339-1725

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4214 arden way
san diego ca 92103
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Quantum Software
po box 12716
lake park fl 33403
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QuantumLink
8620 Westwood Center Dr.
Vienna VA 22180
703-883-0788

Quazon Electronics
312-860-0072

Queue Inc.
798 North Ave.
Bridgeport ct 06606
203-333-7268

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426 w. nakoma
san antonio tx 78216
512-492-8054

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los angeles ca 90026
213-662-6905

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po box 1512
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Rapid Systems
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Seattle WA 98103
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384 hyacinth st.
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Redicker Software
67 Genevieve Dr.
Hampden ma 01036

Redmond Cable
17371 A1 N.E. 67th Ct.
Redmond WA 98052
206-882-2009

Reflexive Software
6507 39th ave. N.E.
Seattle WA 98115
206-525-6873

Relevant Software Inc.
283 Mamaroneck Ave.
White Plains NY 10605

Remote Measurement System
suite 206
2633 Eastlake Ave. E.
Seattle wa 98102
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Richmond Hill on l4b 1b4
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Richard Buchanan
3521 Wyoming
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Richardson & Associates
3039 andover
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Richvale Telecommunications
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10610 bayview
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po box 977
huntington ny 11743
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Louisville KY 40206

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Los Angeles ca 90040
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streetville postal station
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Zion il 60099
312-872-3633

Rosetta Software
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Newport Beach CA 92663
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RS Data Systems
7322 SW Freeway
Houston tx 77074
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RTL Programming Aids
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lowell mi 49331
616-897-5672

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San Francisco ca 94107
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Venice ca 90291
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Scarborough Systems
55 south broadway
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Schneider Systems
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Sequential Circuits
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Shannon Software
po box 6126
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Eden Prairie mn 55344
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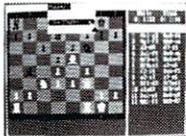
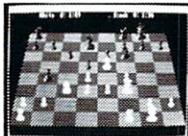
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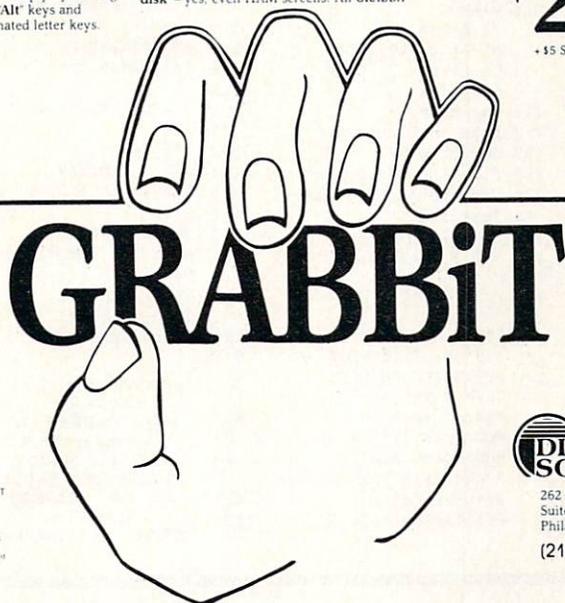
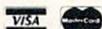
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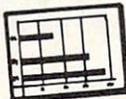


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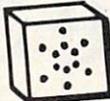
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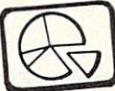
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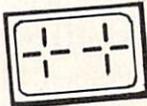
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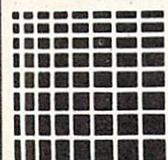
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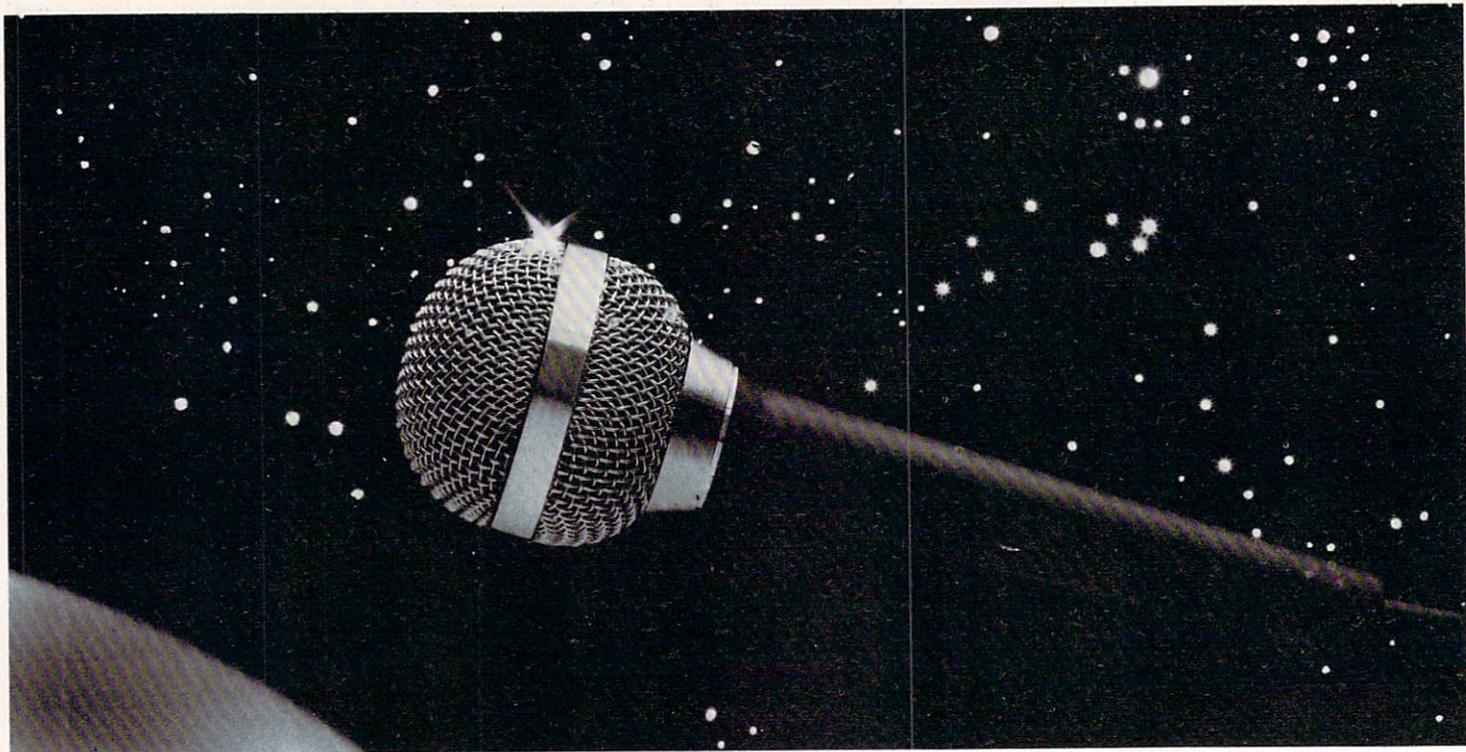
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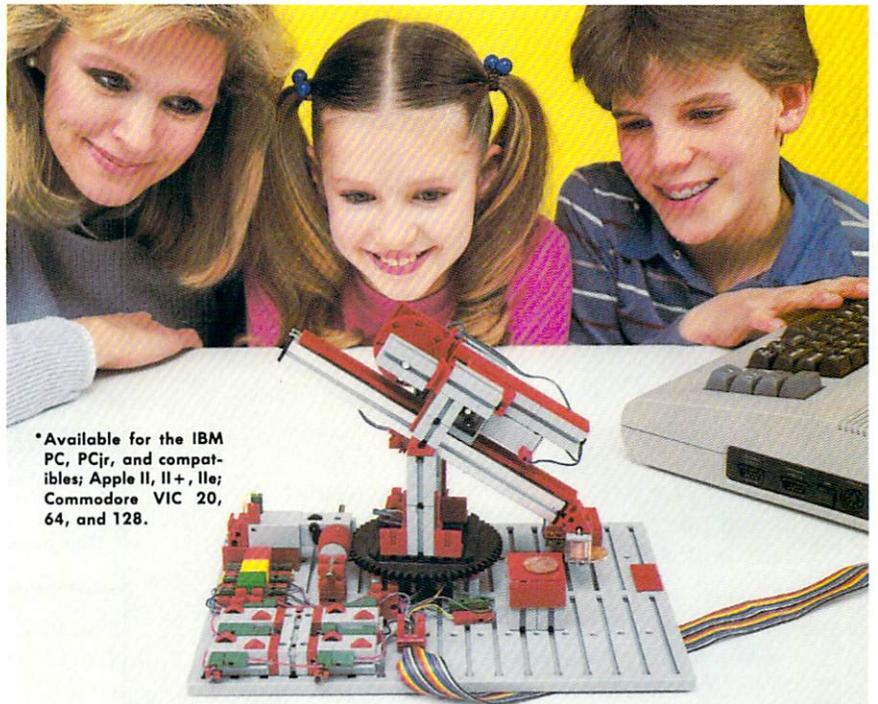


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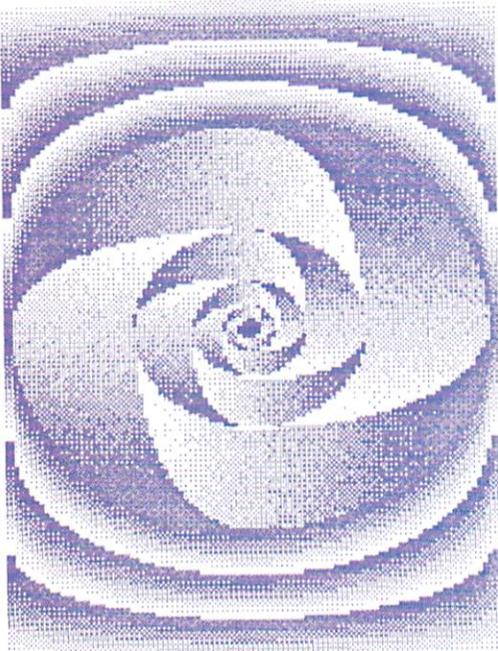
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To begin at the beginning. **GEOS** stands for **GRAPHIC ENVIRONMENT OPERATING SYSTEM**. Why?

GRAPHIC: Because menus and icons replace long, typed command lines. Point and click, that's it.

ENVIRONMENT: Because GEOS provides a consistent, powerful way to use your computer. Learning new applications is a snap (or should we say click).

OPERATING SYSTEM: Because GEOS orchestrates every function so that they all work together systematically, even symphonically.

Some basics. Icons are graphic images which represent files or utilities. Each is different, and all are easy to recognize and easy to use.

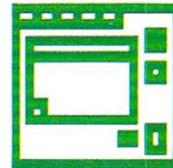
A menu is just that: a list of functions available for selection. When a menu appears, move the pointer to any item you wish. Click. Click. You're on your way.

A pointer is used to select and activate items. To move the pointer, roll the mouse or trackball or rotate the joystick. Once on target, click once to select; click a second time to activate.

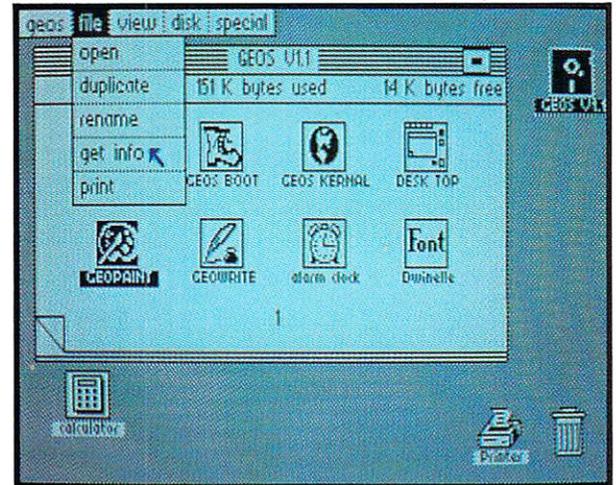
Fonts are a new way of looking at text. Choose from 5 different fonts (with more on the way). Try *Duinelle*, or Roma, **bold**, or *italics*, even underline and outline. Need to fit more words on a line? Pick a smaller point size, like University 6 point, and get over one hundred characters per line.

All this and fast too. Because the integrated diskTurbo software improves 1541 disk drive performance 5 to 7 times. That's right. On both reads and writes.

GEOS can be divided into 4 areas: two functional aspects (deskTop and Desk Accessories), and two major applications (geoPaint and geoWrite).



deskTop. deskTop is a graphic interface, making file organization and management easy. As always, you call the shots. Load a disk. Files appear as icons on the disk notepad; to flip through, point at the folded corner and click. Prefer a file appear on a different sheet? Move it. It's easy.



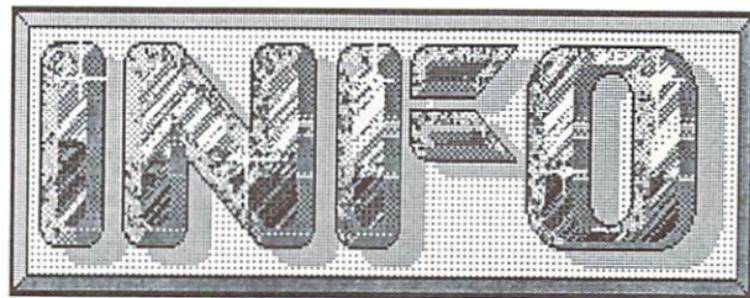
Create a new document or re-name an existing one. Want to copy a file onto the same or a different disk? Fine. Forgotten what a file contains? Select "get info" from the file menu. A description of that file's contents appears. Finished with a file? Print it. Save it. Or drop it in the trash and have done with it. Your call.



geoPaint. A full-featured, color graphics workshop at your fingertips. The pointer operates any one of the fourteen graphic tools and shapes in the drawing menu. Create masterpieces on the Drawing Window. By turns, use a pencil, an airbrush or a paint brush, each with a character all its own. Draw straight lines, squares, rectangles or circles. Fill in with any of the 32 patterns. Switch to pixel-mode, where each dot in a selected section is magnified many times its size for easy manipulation.

(1) TEAR ALONG PERFORATION.

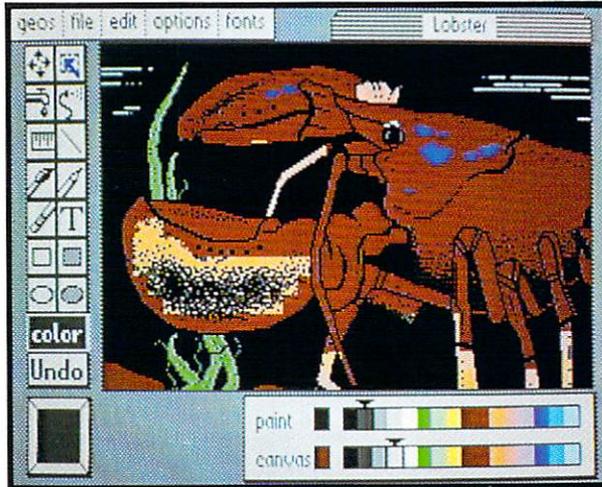
(3) FOLD FLAP HERE.



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own two Machines.

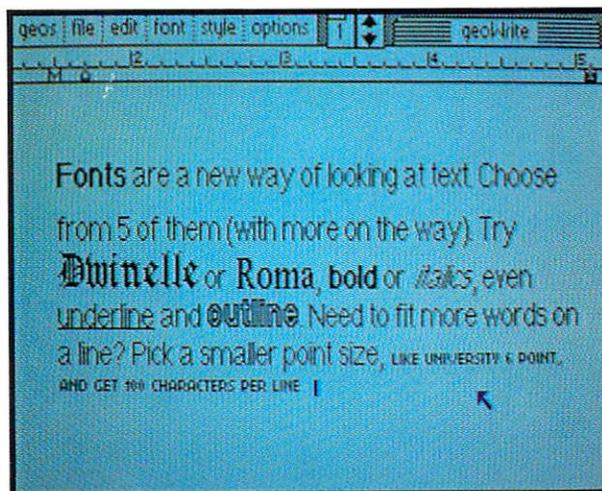
personal computer GEOS™ unlocks.



Second thoughts? Erase what you don't want. Or "UNDO" your last act. (If only life could imitate art!)

Add text if you like, in different fonts, styles or point sizes. Even change its position or layout at will.

Move or copy any part of your creation. Once done, you can include your artwork in another document—a letter home perhaps. (Won't Mother be pleased?) GEOS makes it easy.

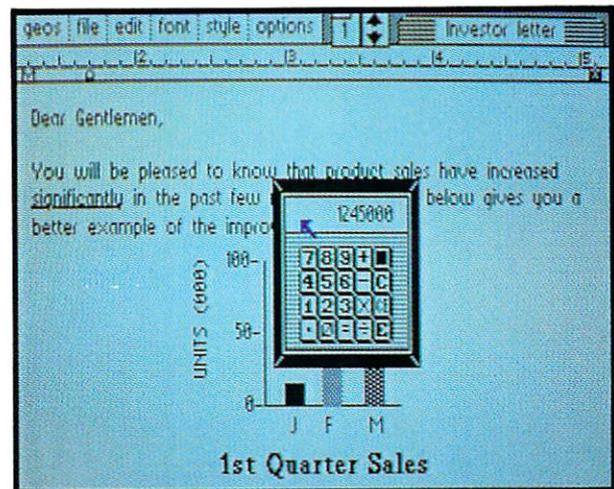


geoWrite. An easy to use, "what you see is what you get" word processor. Create documents. Insert, copy, move or delete text as you wish. Choose from 5 different

fonts in many different styles and point sizes. Preview your page exactly as it will

appear off the printer. Typists will appreciate tabs, word-wrap and page breaks.

Documents may contain up to 64 pages. What's more, you can move to any page instantly. If you like, you can cut selected text from one section and move or copy it to another. Add graphics from geoPaint. It's a cinch.



Desk Accessories. Handy programs you can use while in any GEOS application. These include an alarm clock, a notepad for reminders, a four-function calculator, and photo and text albums which store pictures and phrases you may then paste into applications. The Preference Manager even lets you establish parameters for everything from mouse speed to the date and time—even background color. Civilized options, every one.

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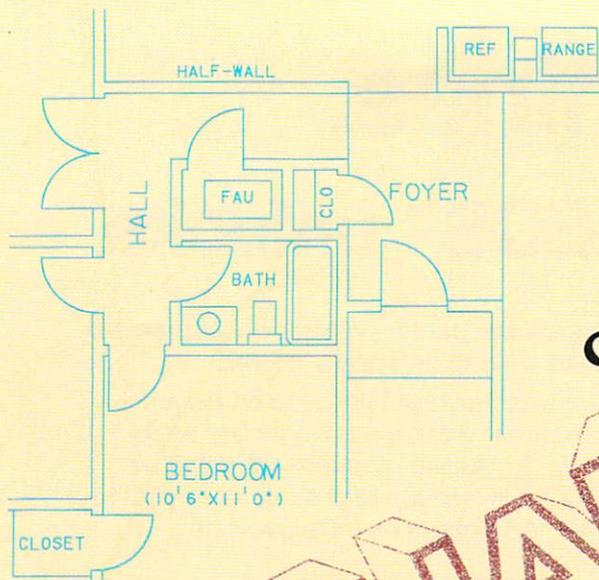
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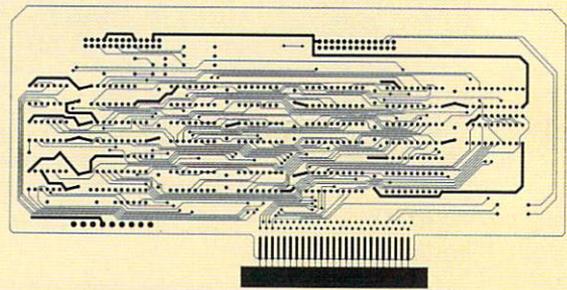
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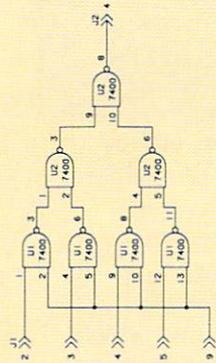
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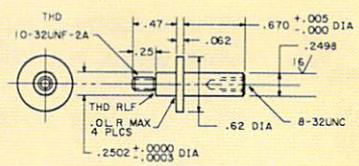
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S0002	J1	3	•	CDN
S0002	U1	4	•	7400
S0003	J1	4	•	CDN
S0003	U1	9	•	7400
S0004	J1	5	•	CDN
S0004	U1	12	•	7400
S0005	J1	9	•	CDN
S0005	U1	2	•	7400
S0005	U1	5	•	7400
S0005	U1	10	•	7400
S0005	U1	13	•	7400
S0006	U1	3	•	7400
S0006	U2	1	•	7400
S0007	U1	6	•	7400
S0007	U2	2	•	7400
S0008	U1	1	•	7400
S0008	U2	4	•	7400
S0009	U1	11	•	7400
S0009	U2	5	•	7400
S0010	U2	3	•	7400
S0010	U2	15	•	7400
S0011	U2	6	•	7400
S0011	U2	10	•	7400
S0012	U2	8	•	7400
S0012	J2	4	•	CDN

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512 K RAM
2 Disk Drives (or)
1 Drive and Hard Disk
Printer or Plotter

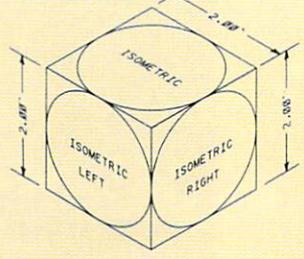
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