

1990

9640 NEWS
P.O. Box 752465
MEMPHIS, TN 38175
(901) 368-1169

Software Distribution:

GenPROG.....	\$75.00
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HyperCopy.....	\$15.00
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PSYSTEM Source and Libraries (5.25", 2 disks).....	\$ 5.00*
PSYSTEM Source and Libraries (3.5", 1 disk).....	\$ 5.00*

* Minimum \$25 contribution to Buy MDOS Campaign before one can acquire rights to obtain MDOS Source Code.

TOTAL: \$_____

Name: _____

Address: _____

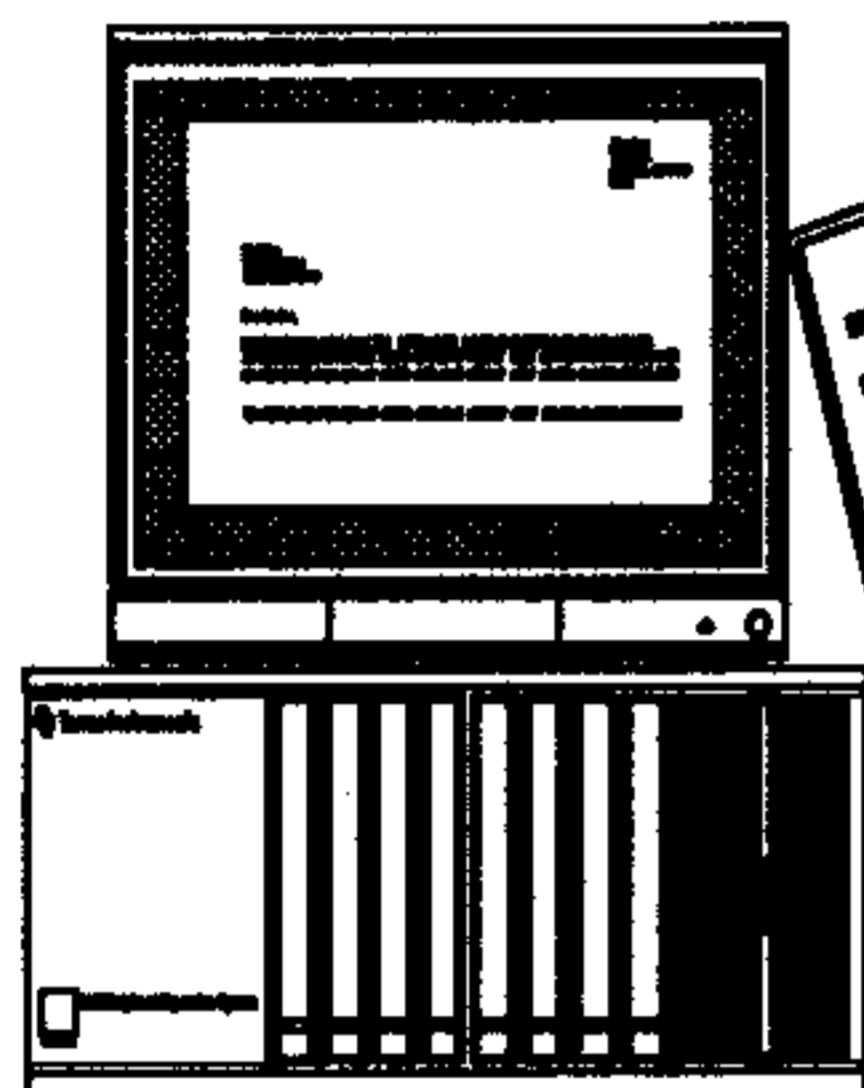
State/Zip: _____

THANK YOU FOR YOUR ORDER !!!

Asgard Software

Catalog 1990-'91

Word Processing



TI-Writer

Spell It!

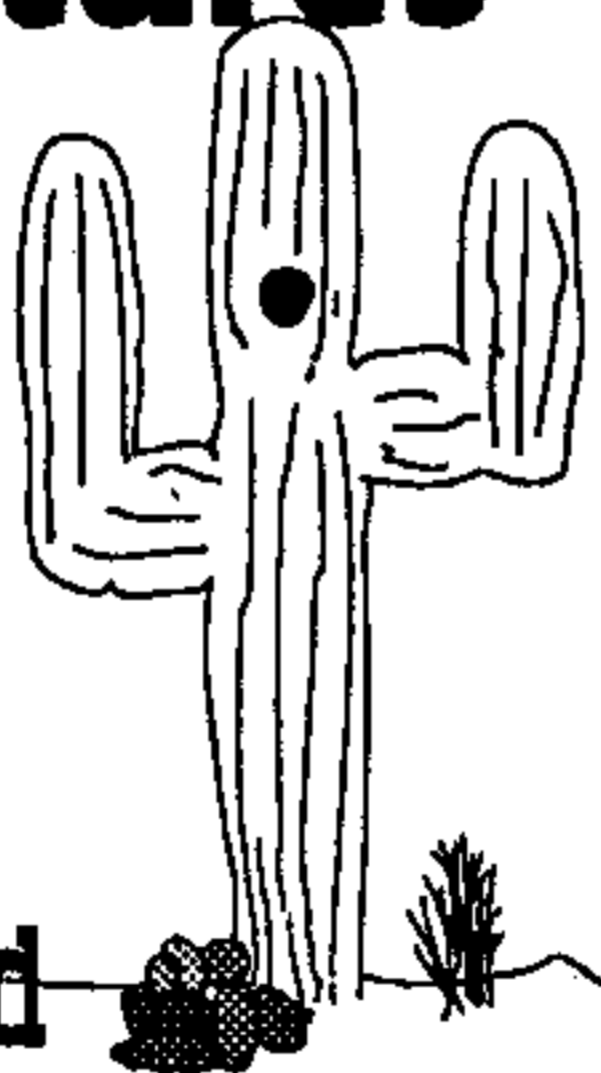


New Games!

Adventures



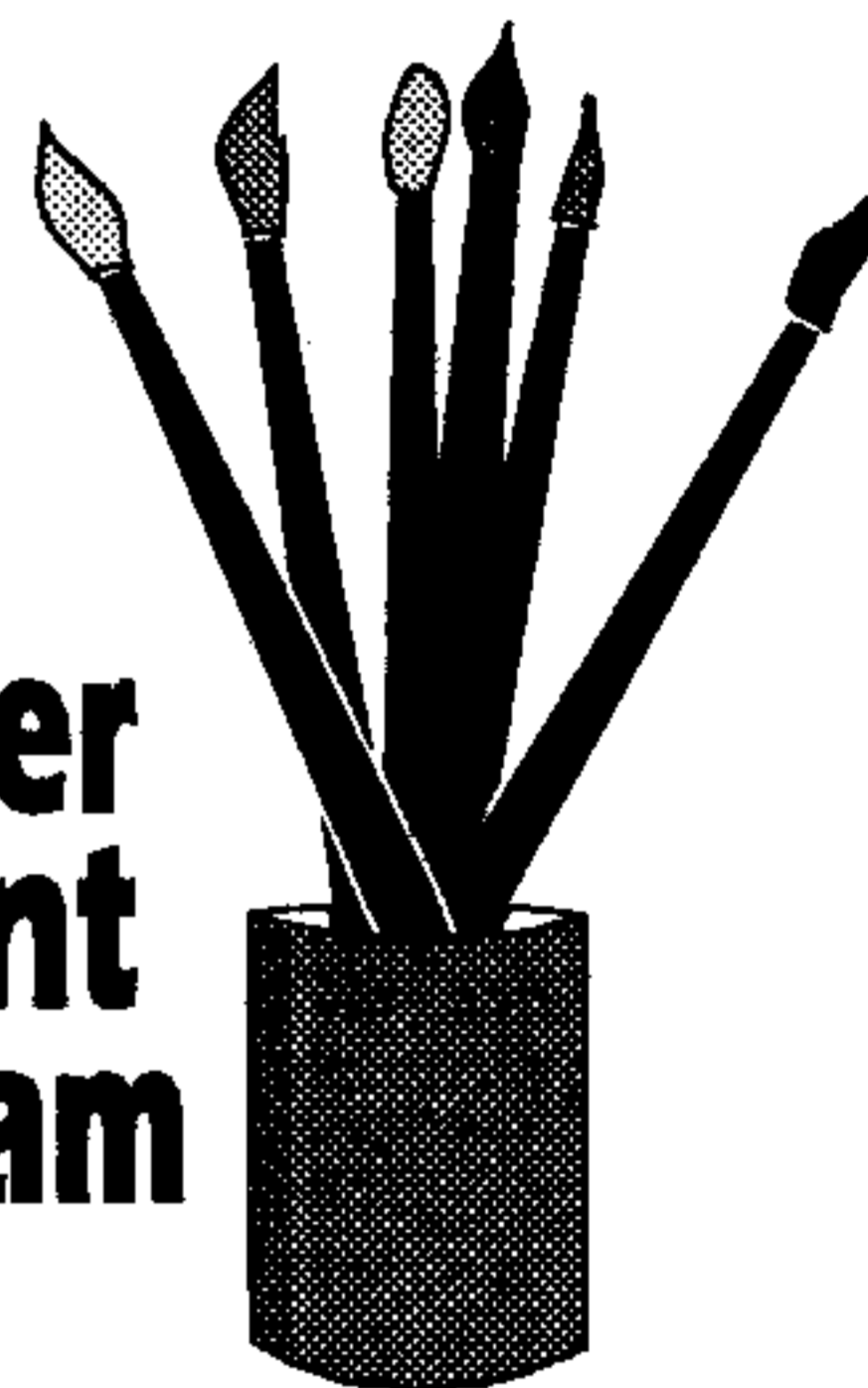
Castle
Darkholm



Rattlesnake Bend

©1990 Asgard Software

Yet Another Paint Program



Page Pro 99

Page Pro Times

Page Pro Fonts Page Pro Banner Maker

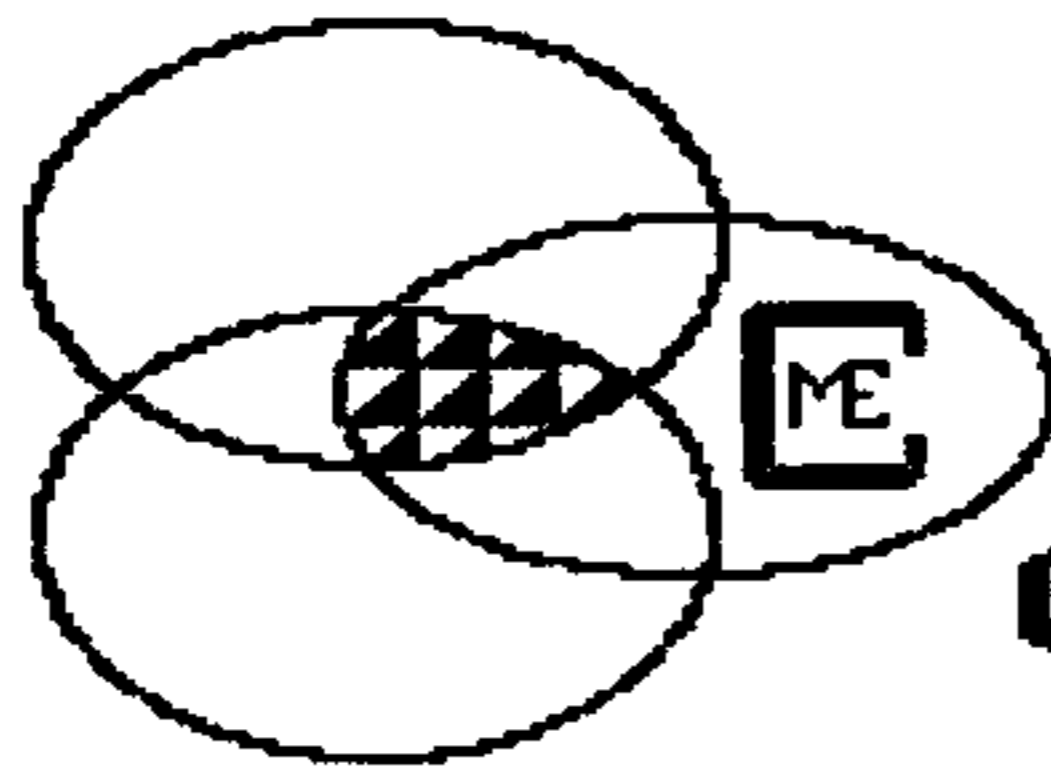
TI-99/4A &

Myarc Geneve 9640

... and much more!

Inside...

- Games, page 1
- Adventures, page 2
- Graphics, page 3
- Page Pro, page 5
- Productivity, page 6
- Utilities, page 7
- Publications, page 9
- Clearance, page 10



**MIDWEST
ENGINEERING
CONSULTANTS**
VERNON HILLS, ILL

MIDWEST ANNOUNCES CHICAGO RAMDISK

Midwest Engineering announces a new ramdisk called the "Chicago Ramdisk" which will replace the previous sales of the Horizon Ramdisk which is presently the trade name owned by Bud Mills Services. Mr. Mills has announced that we can no longer carry the name because of a cutback in his outside sales force. In respecting his wishes we feel a competing ramdisk with all the features and quality of the original ramdisk is the prudent way to keep spiraling ramdisk prices down. In particular our ad says we are the sourcing supplier. There is no middleman to jack up the price. We build and back the new board 100% and our labor savings is passed directly on to you the consumer. Our competitive board is 100% compatible and expandable to every feature announced for the Horizon Ramdisk. Our board was designed in the Chicago area, fabricated at Chicago area firms and has been fully tested with no errors or omissions. The price on the finished 256K ramdisk is the lowest we have ever offered!!

We are quite excited about the possibilities of this new PC board. It is directly aimed at the traditional ramdisk user and also those that have purchased the Geneve Computer. It is the fastest way to retrieve programs and manipulate data of any TI compatible peripheral. In particular it complements other peripherals and we believe will extend the life expectancy of the TI until a firm and direct link can be found to the IBM computers. As a matter of fact our pricing on the ramdisks is ridiculously low when compared to IBM clone prices on ramdisks.

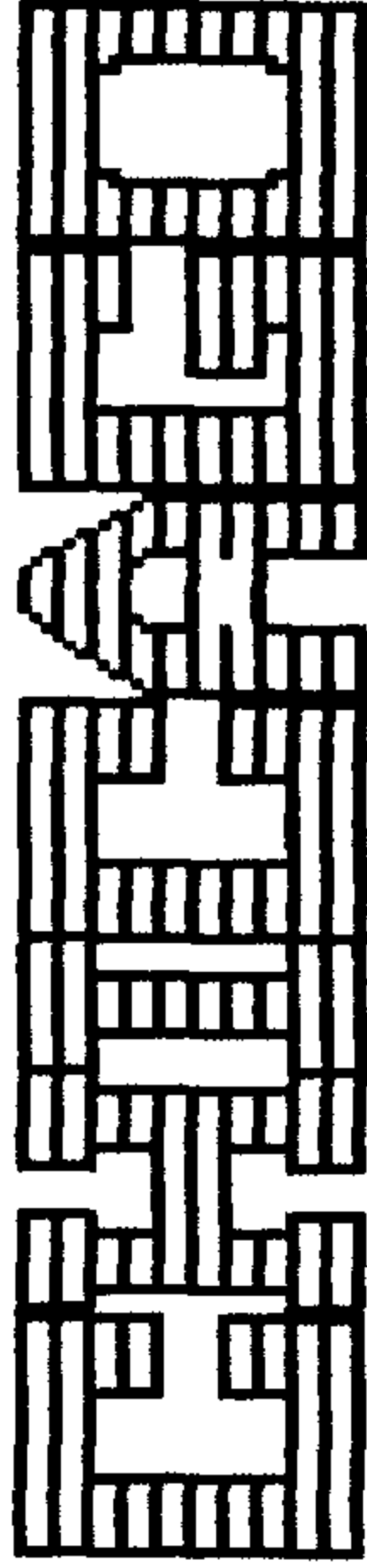
As you may know the prices on static rams from Japan have been waffling wildly and upward lately. This has made it difficult to quote prices on finished boards accurately in advertising. However having the board itself and expanding it gradually is another popular way to avoid chip price surges. We have almost a hundred boards today at the unbeatable price of \$27 each. A bare bones kit price with no memory costs only \$90! We will continue to market our board under the "Chicago Ramdisk" name mark. Come and see the ramdisk in action at our Booth #112. It supports the Geneve expansion and also the traditional 32k TI expansion (saves P Box room). You name it and we'll build it to order.

Please stop by and see other products for sale including a few Super Duper Carts, a small prototyping board and new AA cell nicad batteries at the incredible price of 75 cents each. We also have 24 minute certified data grade cassette tapes and holders at 75 cents each!! Please keep this ad handy and pass it onto a friend who may be interested in any of our products. Have a good day at the TI FAIRE and help us go home sold out!!!

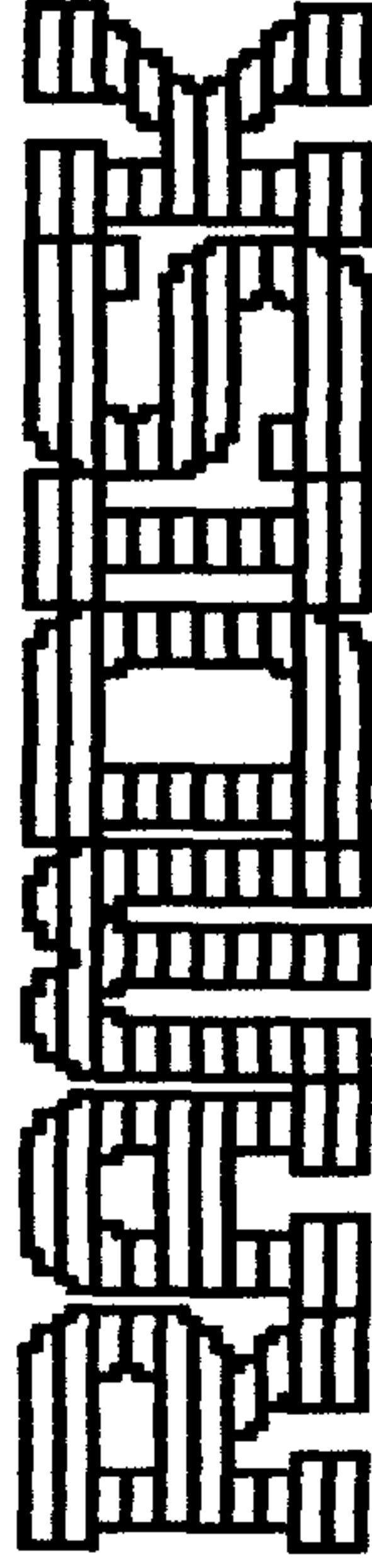
BOOTH 112

(Sorry we cannot handle credit card sales)

BOOTH 112



TI-99/4A
HOME
COMPUTER



SUPPLIES
SUPPLIER

Trust the Established Leader

Finished
Boards

ONE WAY

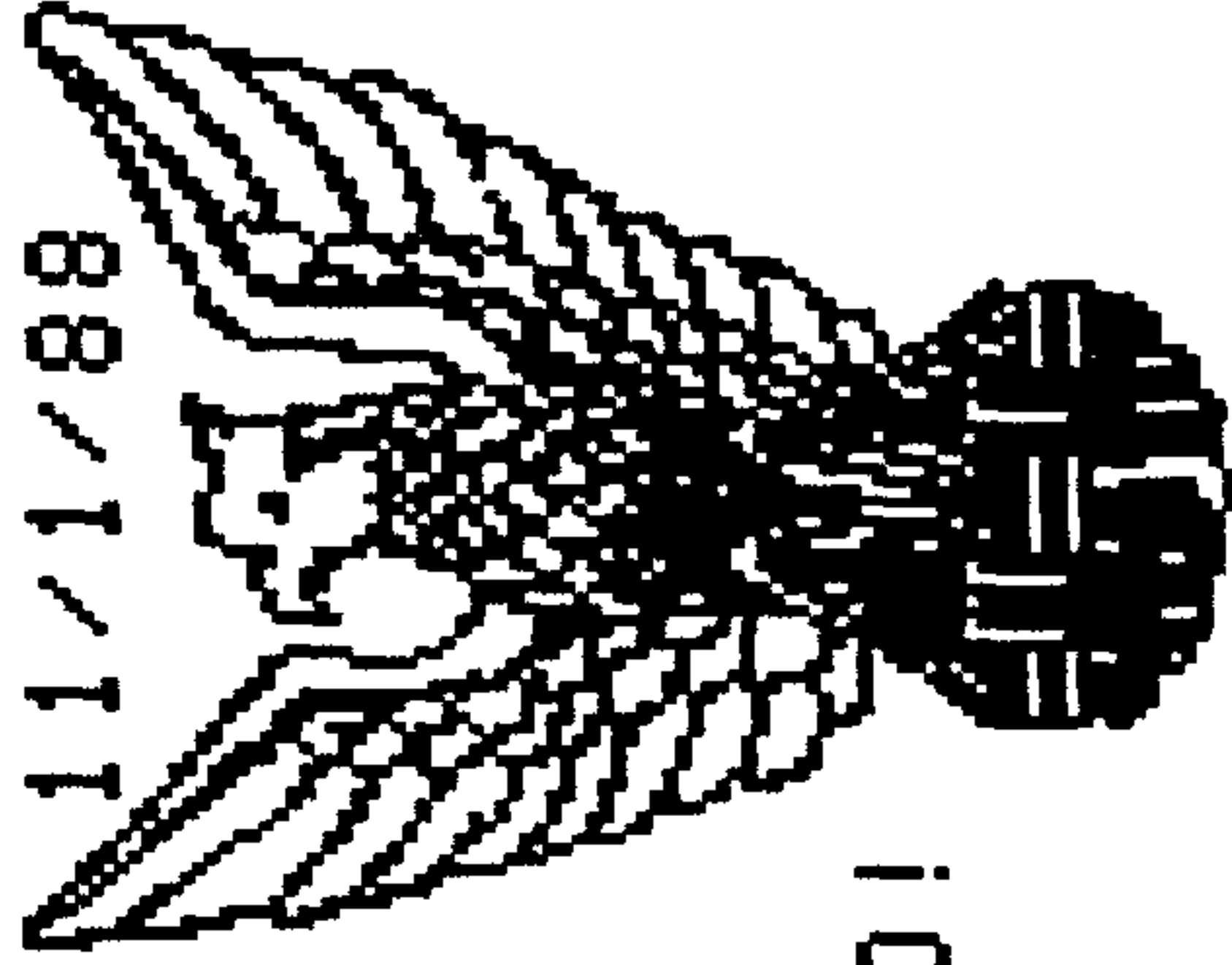
\$575

(32K EXP;
ADD \$25)

**COMING
COMING
COMING
COMING**

PHONES 68128-882-8084 KITS
Pioneer Engineering START \$90!
203 Gremlin Drive

Vermon Hills, California 60061



11/1/88

TI Faire

announcements

Welcome to the 1989 TI Faire & Convention. After you have checked in and unpacked, please visit the TI Faire Hospitality Room which is Room 287 located in the Tower. The Hospitality Room will be open for most of the weekend for you to get acquainted with your TI family and friends.

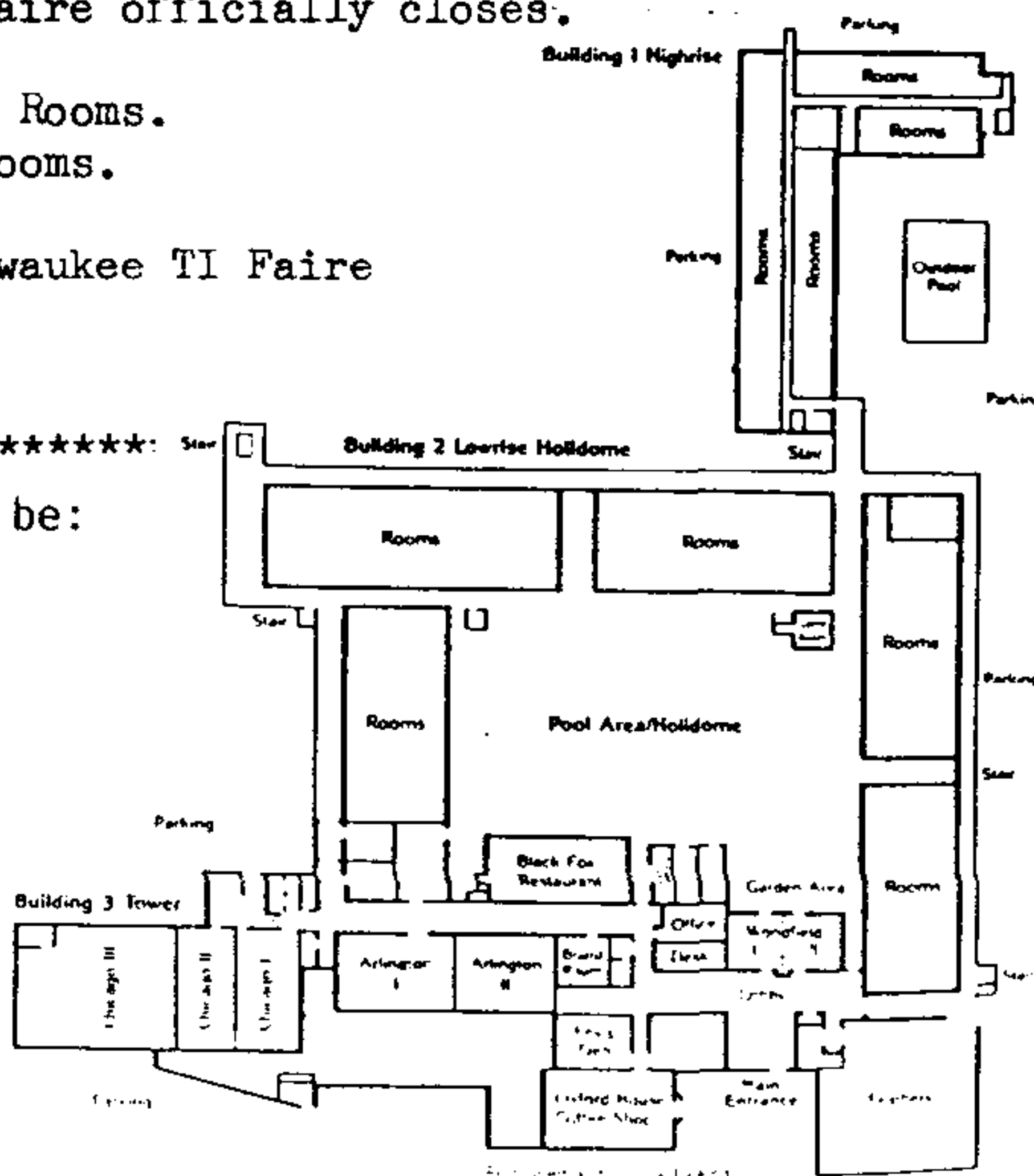
EVENTS SCHEDULE

- FRIDAY:** 2:00 pm - Hospitality Suite opens.
8:00 pm - Social Mixer begins in Woodfield Rooms.
12:00 am - Social Mixer ends.
- SATURDAY:** 9:00 am - 1990 TI International World Faire opens in the Chicago Rooms.
8:45 am - Seminars begin in Arlington Rooms.
8:45 am - Roger Merritt - Comprodine
9:15 am - Ken Gilliland - Notung Software new games
9:45 am - Shane Truffer + Chris Pratt - ESD Corp. new HFDC
10:15 am - Bruce Harrison - Harrison Software Golf Score Analyzer, music
11:15 am - Jim Yeaman - PRODIGY a new network, possibly for TI soon
11:45 am - Barry Boone - Textaments GIF Mania, a GIF viewer for TI
12:15 pm - Bud Mills - Bud Mills Services new hardware for TI and 9640
12:45 pm - Beery Miller - 9640 News \$\$\$CRASH\$\$\$, Windows, magazine
1:15 pm - Mike Maksimik - CTIUG MIDI software, FDOS, TI standards
1:45 pm - Chris Bobbitt - Asgard Software new software
2:45 pm - Ron Wolcott - TIPS new versions of TIPS and Q+A session
3:30 pm - J. Peter Hoddie + Paul Charlton - JP Software new software
4:10 pm - Tom Freeman - T and J Software Hardback, a program to back up H
4:30 pm - Jeff Guide - TI NET/DELPHI information network
5:00 pm - Barry Traver - Genial TRAVELER Diskazine new programs
6:00 pm - Chicago TI International World Faire officially closes.
6:30 pm - Cocktails begin in the Woodfield Rooms.
7:30 pm - Dinner served in the Woodfield Rooms.
- SUNDAY:** Meet in back parking lot to caravan to Milwaukee TI Faire

The BUS SCHEDULE for shopping at Woodfield Mall will be:

- | FRIDAY: | SATURDAY: |
|-----------------------|-----------------------|
| Leave Hotel - 10:30am | Leave Hotel - 10:30am |
| Leave Mall - 2:00pm | Leave Mall - 1:00pm |
| Leave Hotel - 6:30pm | Leave Hotel - 2:30pm |
| Leave Mall - 9:00pm | Leave Mall - 5:00pm |

Please sign up at that Hotel Registration Desk ahead of time to reserve your seat on the bus.

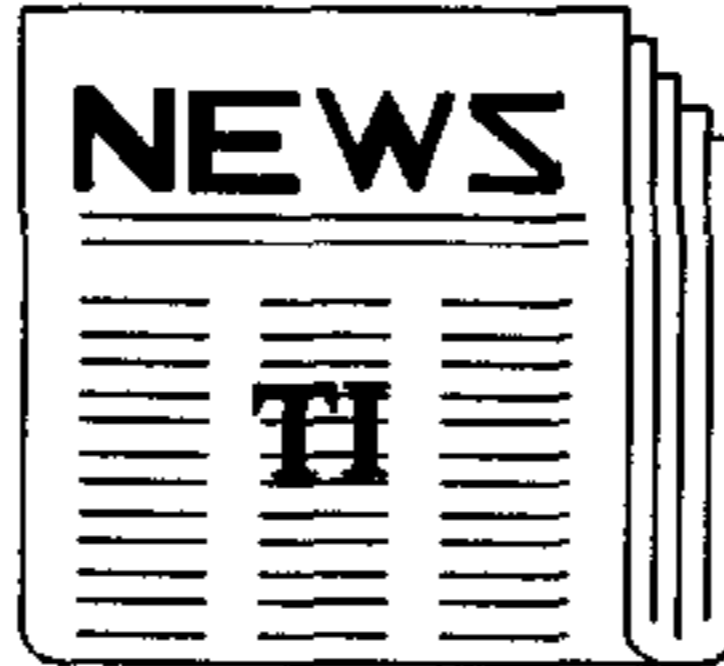




Electronic Systems Development Corp.

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The TI hard drive
and floppy controller
that **WILL** meet your
needs has finally
arrived!
See for yourself:



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Corporation's
Hard and
Floppy Card is
Hot off the
Press!

E.S.D. Corp.
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Washington, DC
20026-3805

- * A new revolutionary design using surface mount parts
- * Controls up to 4 hard drives and 4 floppy drives
- * Formats 90K 5 1/4" drives to 1.44MB 3 1/2" drives
- * User friendly set-up and support software
- * Designed by an electronics and computer corporation which supports its users
- * Features an E²PROM which allows future DSR upgrades to be loaded by disk
- * Uses only Western Digital drive controller chip sets
- * Two separate floppy drive connectors, one for internal drives and one for external drives, allow for easy installation
- * 100% TI compatible
- * Unique design eliminates heat problems on the card
- * Set-up information stored in the E²PROM eliminates dip switches on the board
- * Special PATH command allows user to specify alternate path for DSK1. (ie. HD1.GRAPHICS.TOOLS)
- * Basic CALL routines add an extra dimension to TI Basic



Electronic Systems Development Corp.

September 27, 1990

John Willforth
RD #1 BOX 73A
Jeannette, PA 15644

E.S.D. Corp.
P.O. Box 23805
Washington, DC
20026-3805

Dear John Willforth,

Thank you for inquiring about our new hard drive controller card for the TI-99\4A. I am very excited about this new product and it promises to be hot item.

We do not as of yet have a shipping date set. However, I think it will be fairly soon, especially with the Chicago fair coming up in November. The retail price for the controller is \$225.00 (Maryland residents must add appropriate sales tax).

The controller card is capable of controlling a maximum of four floppy drives ranging from 5.25" 90KB to 3.5" 1.44MB capacity, and four MFM hard disk drives, each of which may have up to 1024 cylinders and 8 heads. Any regular MFM hard disk will work with this controller, but I recommend the Seagate ST-251-1 40MB hard disk. This is a fast access drive allowing for ample storage in the TI community. And because there are no logical drive size limitations, as in the IBM arena, there will be no need to partition the drive.

Enclosed find one of our flyers. It too will provide you with some valuable information. Thank you for your interest in ESD's TI compatible products.

Sincerely,

Christopher Pratt
ESD Computer Specialist
TI Division

- * A new revolutionary design using surface mount parts
- * Controls up to 4 hard drives and 4 floppy drives
- * Formats 90K 5 1/4" drives to 1.44MB 3 1/2" drives
- * User friendly set-up and support software
- * Designed by an electronics and computer corporation which supports its users
- * Features an EPROM which allows future DSR upgrades to be loaded by disk
- * Uses only Western Digital drive controller chip sets
- * Two separate floppy drive connectors, one for internal drives and one for external drives, allow for easy installation
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- * Basic CALL routines add an extra dimension to TI Basic

**GALACTIC EMPERORS
BY ERIC KEFES**

Would you like to challenge a few of your friends to match wits against you on your TI-99/4A computer? Then let MS Express Software introduce you to Galactic Emperors.

Galactic Emperors is a multi-player, strategic simulation program which can be played by two, three, or four players, each of whom is trying to defeat his opponents by gaining control of all the planets that are in the galaxy.

Just how many planets are there in these galaxies? Well, that can be any number between four and 50 planets, depending upon how many planets you and your opponents agree to have in any given game.

Played on a computer-generated playing grid, this game is guaranteed to be different every time, and with other random events occurring during game play, you never run the risk of playing the same game twice.

This program is ideal for those who love to mentally challenge their opponents...and just in case the pressure gets a little too hot...a save game option is available, so that you can continue play at a later time.

So, what are you and your friends waiting for? Order Galactic Emperors today, and find out for yourself just who is the best of the best!

Galactic Emperors requires a TI-99/4A console, a color monitor or color TV screen, a disk drive system (minimum configuration of 1 SS/SD drive), 32K memory expansion, and the Extended BASIC Module.

MS EXPRESS SOFTWARE

P.O. BOX 498, RICHMOND, OHIO 43944

GALACTIC EMPERORS	___ x \$9.95						
NAME:	SUBTOTAL						
ADDRESS:	OHIO TAX						
CITY:	\$1/ITEM S&H						
STATE AND ZIP:	GRAND TOTAL						
<table style="width: 100%; border: none;"> <tr> <td style="width: 30%; border: none;">WE ACCEPT MASTERCARD</td> <td style="width: 10%; border: none;"><input type="checkbox"/></td> <td style="width: 30%; border: none;">OR VISA</td> <td style="width: 10%; border: none;"><input type="checkbox"/></td> <td style="width: 19%; border: none;"></td> </tr> </table>			WE ACCEPT MASTERCARD	<input type="checkbox"/>	OR VISA	<input type="checkbox"/>	
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CARD NUMBER:	EXPIRATION:						
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MASTERCARD ORDERS PLEASE ENTER THE 4 DIGIT NUMBER OVER YOUR NAME:	<input type="text"/>	<input type="text"/>					
SIGNATURE OF CARD OWNER:							

T and J Software is pleased to announce the following program
for the TI 99/4A and the Geneve 9640.

HARDBACK

HARDBACK will back up your hard drive to another hard drive in one pass, thus eliminating the annoying and time consuming disk-swapping in previous backup programs. The entire tree structure is preserved, as are all time/date stamps. You may perform the backup at any directory level - all files at that level as well as any lower level subdirectories and their files will be included. The backup may also be directed TO any subdirectory, existing or not, thus allowing you to backup more than one drive to a larger capacity drive. Hardcopy of the tree structure and all files is optional. The tree structure at any level may also be output to hard copy without backing up. The file list of any subdirectory may be examined on screen or directed to any device, also without backing up. An additional option at any point is to examine/backup only modified files, and at all times these are indicated as such. If your drive is large enough you may also backup to a new subdirectory on the same drive. The cost of the program is \$15.00, P & H included.

Still available from T and J Software: (for 9640 only)

THE Bugger

The ultimate debugger for use on the 9640. THE Bugger runs in either MDOS or GPL Mode, and includes all standard debugging commands plus disassembly, three kinds of single step, special informational breakpoints, monitoring of task workspaces, and access to any 9640 memory page. Completely relocatable in memory (absolute address versions also included). Does not change screen or video modes since it operates out of the RS232/2 port. A second computer or terminal is required. Hardcopy of all output to the terminal is available through the RS232/1 port or the PIO port of the host computer. For serious programming work on the 9640, THE Bugger is a must.

DISKASSEMBLER Ver. 2

With DISKASSEMBLER you can take nearly any program on a disk and with little effort turn it into a source listing, complete with up to 1800 labels. External REF lists can be incorporated into the printout. Will also disassemble any 9640 memory page. DISKASSEMBLER is a great tool for learning about tricks in existing software, and for making changes in programs. The detailed manual from Ver. 1 for the TI 99/4A is included, as well as an extensive supplement for the new features of Ver. 2.

Cost of these programs is \$18.50 for THE Bugger, and \$22.95 for DISKASSEMBLER, P & H included. Owners of DISKASSEMBLER Ver. 1 may deduct \$5.00 by sending in the Warranty Page from the original manual. Send orders to:

T and J Software
515 Alma Real Drive
Pacific Palisades, CA 90272

CA residents please add 6.5% sales tax.

SHOW SPECIALS

Hardback	\$13.00
DISKASSEMBLER	\$20.00
THE Bugger	\$18.00

PAGE PRO TIMES

Vol.1 No.1

Fall/Winter 1989

Pix Pro Released!

■ Alexandria, VA

On Sept. 15th at the TI International Expo '89 held in Alexandria, Virginia (a suburb of Washington D.C.), Asgard Software formally announced *Pix Pro*, the Super-Converter for the TI-99/4A and the Myarc Geneve 9640.

This remarkable program by Jim Reiss opens many doors for Page Pro 99 users, as well as provides a simple and effective way to move pictures between virtually all of the most popular TI-99/4A picture formats.

There are literally thousands of pictures available for our machine - but unfortunately they are in dozens of different, often incompatible formats. The idea behind *Pix Pro* is that you shouldn't have to change programs because the pictures you want to use won't load into the program you want to use.

This all-assembly program will allow you to load pictures stored in any of 8 different picture formats and save them in any of 6. Consequently, *Pix Pro* does the work of over 40 different conversion programs. *Pix Pro* lets you take files stored in Picasso,

GRAPHX, TI-Artist Picture, TI-Artist Instance, Page Pro, MacPaint, RLE or Pix formats and save them as GRAPHX, TI-Artist Picture, TI-Artist Instance, Picasso, Page Pro or Pix pictures.

Many users witnessing the *Pix Pro* demonstration found that it was particularly useful to users of a number of popular graphics packages.

● Page Pro users can now use more than just TI-Artist pictures. The full library of RLE, MacPaint, TI-Artist, GRAPHX and Picasso pictures is now open to users of Page Pro 99. As was demonstrated, you can even save full-page MacPaint pictures as full-page Page Pro pics! Less noted but equally important, this utility allows Page Pro 99 users the option of using virtually any drawing program for the 99/4A to create custom artwork for their Page Pro pages.

● TI-Artist users using *Pix Pro* will be able to easily move pictures into Picture or Instance format from a large variety of sources. While many other con-

(Continued on Page 2)

New Picture Disks!

■ Rockville, MD

Asgard Software, in a flurry of activity, announced 4 new picture disks for Page Pro 99 users.

Sports Pics, by Paul E. Scheidemantle, contains almost 60 all-original drawings covering almost every major sport. These highly detailed, well-documented pictures are a must for anyone who enjoys sports. If you are involved in local teams, enjoy a particular sport as a hobby, or just simply like action shots of people engaging in various sports gracing your pages, you'll find *Sport Pics* useful and worthwhile.

This extensive package, which comes with an attractive reference sheet and documentation, is available for only \$9.95. A TI-Artist format version is also available.

Additionally, Asgard has also announced 3 new volumes in their popular Page Pro Pics series of picture disks - Volume #8, #9 and #10.

(Continued on Page 2)

Page Pro 99

Page Pro 99 is the remarkable page-making program for the TI-99/4A and Myarc Geneve 9640 computers that is unlike any other such program available. Unlike any page-making program for the 99/4A, or most for the Geneve, the page you see on the screen is exactly as it will appear when printed out.

Page Pro 99 is fast (written in assembly), easy-to-use (with extensive documentation and on-screen help), and powerful (a built-in TI-Writer editor and dozens of features unique to this program). It is compatible with standard TI-Artist fonts and pictures, as well as a growing library of *Page Pro 99* specific artwork (unlike other page programs *Page Pro* can use pictures as large as the page - all others are limited to small pictures). *Page Pro* will also work on any system from a TI-99/4A with a single disk drive to a Geneve with hard disks. It includes 3 thorough manuals with tutorials. It is very dependable and well-tested (as it should be after over 2 years of development). It is the best supported of any page-making program with dozens of packages of fonts, pictures, pre-made templates for all uses (labels, greeting cards, envelopes, business forms, etc.), borders and utilities. And finally, it produces beautiful pages.

Because it is "what-you-see-is-what-you-get", it is easy-to-use. Because it includes numerous examples, a good collection of starter fonts and pictures, and in-depth tutorials, you can use it straight out of the box. Because it is by Asgard Software, it has the support that it, and you deserve. Who can ask for more?

Page Pro Times

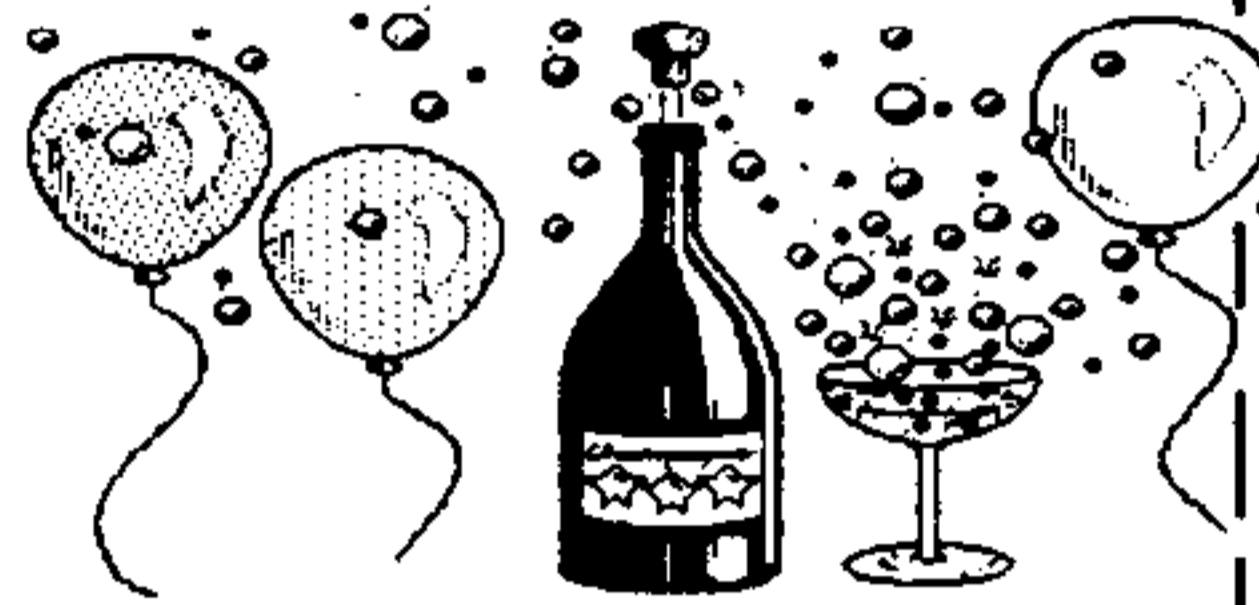
Vol. 2

Winter '98

PAGE PRO 99 RELEASED!

ROCKVILLE, MD- Asgard Software recently released its long-awaited update to *Page Pro 99* today to a thunderous standing ovation as members of the press viewed the many new features and capabilities of Version 1.6 of this popular program.

Hundreds of viewers clamoured to be among the first to receive the update to this package. After handing out updates, Asgard surprised participants by breaking out party favors and champagne for a celebration.



After the party, that lasted into the wee hours, and at its peak featured Asgard President Chris Bobbitt serenading his wife on his saxophone, accompanied by several members of the press using empty bottles as percussion instruments, the whole affair was broken up by local citizens and police outraged at not being invited. Crowds threw floppy disks at the celebrating throng. No arrests were reported but reportedly Mr. Bobbitt was offered a recording contract.

I LIKE
IT
TOO!



PROGRAM FEATURES

- o 28 Pictures/Page
- o Large font & small font on each page
- o 2 Linestyles/page
- o Print in single, double or "hi-res"
- o Type up/down/left or right
- o Import/Export TI-Writer text
- o Save/load Page
- o Use TI-Artist, other artwork
- o Catalog disks
- o Clip areas and save as pictures
- o Much more!

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**Asgard
Software**
Box 10306
Rockville,
MD 20849

- Paste up to 28 pictures of any size on a page at once
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- Two different linestyles can be used at once
- Print out pages in single, double sharp "hi-res" mode
- Type in any direction - left, right, up or down
- Catalog a disk at any time while loading files
- Import/Export TI-Writer text - even columns of text
- Clip portions of the page and save as picture - reusable graphic elements!
- Includes utilities for converting fonts as well as creating two column text
- Use TI-Writer keys for editing text, place pictures wherever the cursor is
- Useful for forms, letterheads, greeting cards, business cards, labels, signs, certificates, envelopes, etc.
- Requires 32K, Disk, and Epson or compatible printer

**Asgard
Software**

P.O. Box 10306
Rockville, MD 20849
(703)255-3085

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\$24.95**

U.S. Add \$0.75 S&H
Canadians Add \$1.25
Europe/Asia/Australia
please add \$4.00 S&H

P L U S !
v.2.0
The FINAL VERSION!!!
~Utilities and Wordprocessing
Environment~

Now available: over 1400 sectors of pure environmental and tutorial dynamite! The newest PLUS! (v.2.0) is over twice the size of the original and 10 times as potent.

EVERY SINGLE FILE from the original PLUS! has been rewritten, enhanced, debugged, and/or replaced. But it is just as user-friendly as ever. The single keypress autoloads of templates in the EDIT mode are classics of efficiency, and the format coding (for italics, underlining, etc.) have become a TI wordprocessing standard. The popular (miniscule) INSTA programs (INSTALABEL, INSTADUMP, etc.) have been increased to seven (taking up a grand total of just 19 sectors!). They are powerful and they are fast and, because of their size, are ideal for keeping on any working disk or RAM for immediate, big power for a variety of tasks.

There are now four templates (forms) for you letter writers. Just type away while PLUS! does all the formatting for you. There are three calendar programs. The popular desk calendar for personal or business needs now has so many added features that its flexibility and friendliness are ideal for almost any use. And there's a yearly calendar, a banner maker, two columnizers, a Gothic writer, some large graphic pictures (with a program to view them, color them, print them, save them, and convert them). There's even a program that lets you create your own cursor. And another that writes and prints out in Pig Latin everything YOU write. There are programs that automatically scrunch your XB programs up to 60% for faster more efficient operation.

One program (PLUS!VIEW) lets you set up a screen audio/visual presentation for club, business, or educational uses. Another lets you create 4-line strips for your console (the TI-Writer/DM1000 is done for you).

The world's tiniest (1 line) wordprocessor is also part of PLUS! And there are word counters, DV/80 printers, and a highly-praised 3-column catalogue that prints disk envelope-size printouts of 127 files (the maximum on the TI) with your name and the date and all standard info on each. A direct-access setup program for your printer is another powerful utility available.

There are many other templates, data files, pictures, programs, graphic codes, and much more on this disk, including Barry Boone's magnificent Fairware ARCHIVER. But the major part of PLUS! is the manual/tutorial that explores every aspect of our TI wordprocessing world. The works of many writers were selected to make this manual the best tutorial and most complete reference guide for TI WRITER (FUNNELWEB) wordprocessing available anywhere at any price.

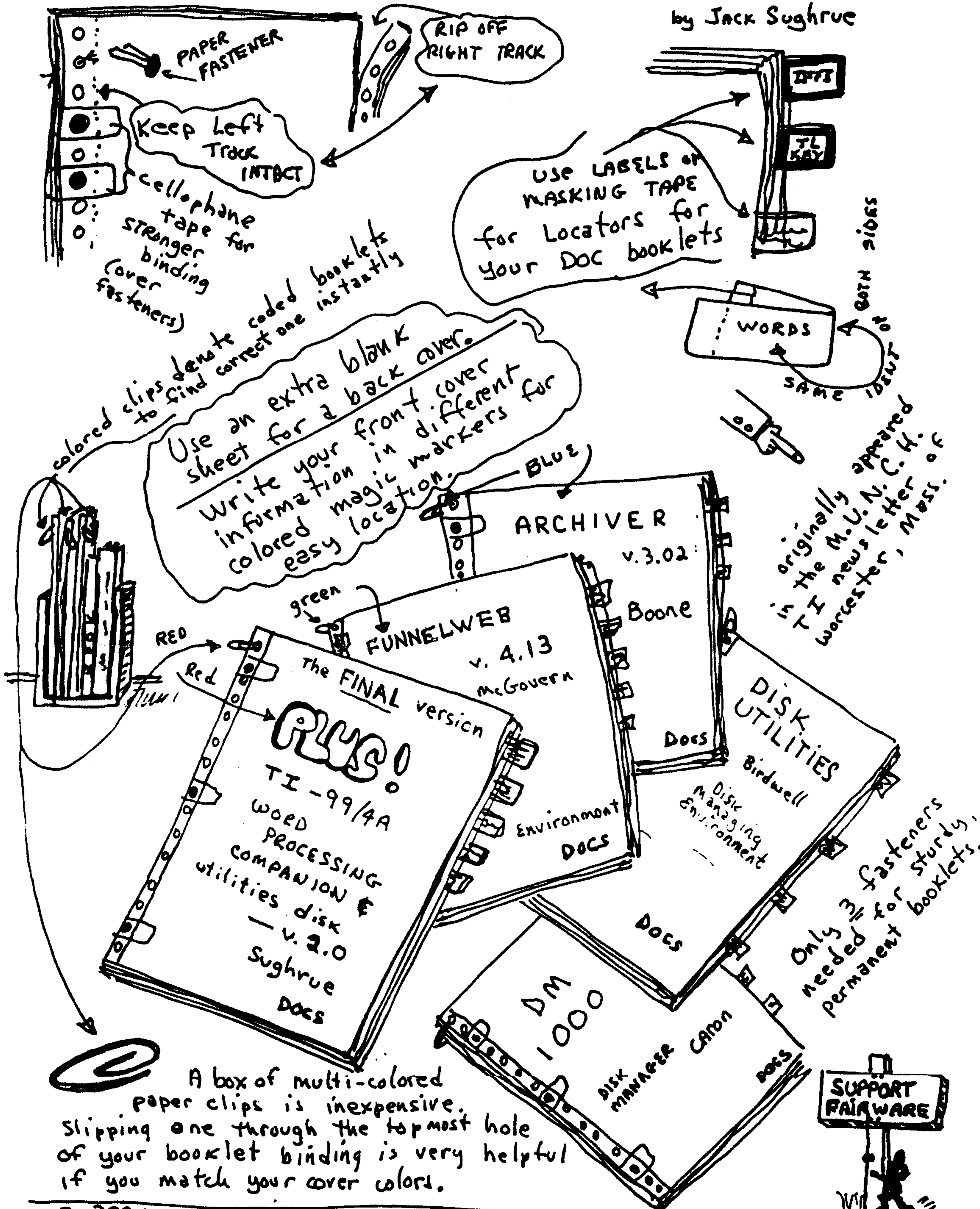
Although the vast majority of the files are original to PLUS! and can be found nowhere else, the addition of the excellent PD and permitted copyright files make PLUS! (this FINAL Version) the TI Bargain of the Decade and an environment that will provide years of pleasure and learning and practical utility.

Send \$10 Fairware donation to Jack Sughrue, Box 459, East Douglas, MA 01516 for complete disk and text materials. Thank you.

I hope you ♥ PLUS!

BUILT-IN BOOKLETS with Tractor-Feed Paper

by Jack Sughrue



A box of multi-colored paper clips is inexpensive. Slipping one through the topmost hole of your booklet binding is very helpful if you match your cover colors.

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INTRODUCING A NEW DIMENSION TO THE TI WORLD

RAMBO

RAMBO is a special hardware/software expansion kit designed for the TI99/4A and MYARC GENEVE 9640 computer systems to upgrade HORIZON ramdisks. RAMBO is based on a special chip which is fully software and hardware compatible with all HORIZON ramdisks from the first HRD to the latest 3000 series.

The current HORIZON was designed mainly to be a ramdisk. Its RAM was based at >4000 (TI99 DSR SPACE) with a 6K Main DSR for the ROS, etc. and 2K pages of RAM to allow reading/writing of sectors. This was fine for ramdisk operations but for writing programs which really executed from the ramdisk memory it was not easy. The program had to be divided into modules of 2K each and could not access other drives, printers, etc. since only one DSR can be turned on at a time. Due to this, many software developers including OPA dropped the idea of writing large programs which would run directly off the HORIZON ramdisk.

OPA has now broken this barrier in the TI world by designing a complex chip and PCB which plugs into a HORIZON card and allowing the HORIZON to have two completely different memory paging and access modes. We named this unit **RANDOM-ACCESS-MEMORY BANK-OPERATOR** or RAMBO for short.

With RAMBO installed in your HORIZON you will be able to partition the RAM onboard between RAMDISK and PROGRAM space, allowing you to run new TI or GENEVE programs using this extra RAM as program space, which could be as large as your ramdisk is.

RAMBO adds a whole new paging system to the HORIZON which gives the programmer an 8K Main DSR RAM (First 6K reserved for the ROS) at the normal >4000 space but now instead of tiny 2K pages of RAM the programmer has 8K pages of RAM at the >6000 (TI99 Cartridge space). RAMBO also makes the DSR RAM on/off control independent of the 8K page control, which means to the programmer he can finally write large programs in easy to handle 8K blocks and access any DSR without using any of the standard 32K CPU RAM.

RAMBO does all this on a tiny 1" * 1" PCB with two special chips. OPA has designed RAMBO to be easily installed in any HORIZON model. All the parts including the six jumper wires come already assembled on the PCB thus all the HORIZON owner has to do is plug in the PCB and solder six wires in place. After installation the new HORIZON card works and looks the same to all versions of the ROS. Being so, RAMBO is fully software and hardware compatible with all hardware configurations and programs which are currently compatible with a HORIZON ramdisk.

Included in the RAMBO kit is a diskette containing some sample programs, source code, programming tutorial, ram tester, and many other useful utilities. Coming soon from OPA is a new enhanced ROS designed to bring out all the features of RAMBO, and a programming newsletter on the latest ideas, etc. All the above is included in the purchase price of RAMBO.

For more information, latest catalog, prices and ordering, call (416)960-0925 or write:
OPA OASIS PENSIVE ABACUTORS
432 JARVIS STREET SUITE 502
TORONTO, ONT. CANADA M4Y-2H3

\$45

Can. or U.S. currency.
Plus 4.50 for Shipping.
Ont. residents add PST.
Money order or check.
Price subject to change.

Rock

Runner

By Eric LaFortune

- Best New Game in years
- Great reviews in MICROpendium, user group newsletters and elsewhere
- Demo disk available for only \$1.00
- Satisfaction guaranteed!
- Only \$12.95 plus \$2.00 S&H (Airmail \$3.00)

Send orders to:

Asgard Software
P.O. Box 10306
Rockville, MD 20849
(703)255-3085

Prepare yourself for one of the most remarkable games ever written for the TI-99/4A - *Rock Runner* by Eric LaFortune.

A most amazing game that almost defies written description, you have to see it to believe it! Combine crisp, clear bitmap-mode color graphics with fast action, wonderful sound effects, 16 different levels with 16 different challenges, quick response, colorful monsters, treacherous acid pools and force fields, inconvenient walls, tricky rocks, useful bombs, and just 5 short lives, and you have a recipe worth endless hours of fun.

While this description doesn't quite do it justice, we can tell you more. Its all in assembly language. It utilizes a new graphics mode on the 99/4A that permits multi-color sprites and bitmap mode graphics with the speed of the more common graphics modes. It was the first program ever written by its young author - and was even developed on a cassette system. It is proof that even a basic TI-99/4A in the right hands can be used to create miraculous work.

Don't just take our word for it that its the best game produced for the 4A in years. Every reviewer has called it the freshest, most exciting game in a long time. It was an absolute hit at the TI Fest West in Tucson, The Ottawa TI Faire, the Boston Fayuh and at the Lima TI Show. Every one who has seen it has compared it favorably to Nintendo™, Apple™ and Atari™ games costing many times more.

Still don't believe us? What if we tell you that you can see for yourself! A demonstration version of the program is available free if you send us a disk, or for \$1.00 if you want us to provide the disk. We are so confident that you'll love this game we'll give you your money back if you don't.

Rock Runner requires a TI-99/4A computer, a joystick, 32K, a disk system and an Editor/Assembler module. It is *not* compatible with the Geneve.

The Animator

The Animator, by Brad Snyder, is a fascinating program that makes animation on the TI-99/4A and the Geneve simple and even fun!

While other programs allow you to generate animation sequences, none other allow you to do so with such ease, and put the results to such good use.

An Extended BASIC programmers delight!

With The Animator, Extended BASIC programmers can create highly detailed demonstrations and games with dozens or even hundreds of simultaneously animated objects in mere hours instead of days or weeks. The compact, fast and efficient assembly code included allows all this to happen in the background while your Extended BASIC program takes care of the rest.

You create your animation frames and define their sequence in The Animator editor, convert them to Extended BASIC format in The Animator Converter (which will also allow you to import in TI-Artist™ artwork), and then combine them with the package of Assembly routines included to animate your creations. Your Extended BASIC program only has to concentrate on logic, interacting with the user, etc. Your resulting program can be distributed any way you like with no legal strings attached - create games and demonstrations for your friends, to distribute as freeware, or even sell commercially! What's more, the comprehensive manual includes a complete step-by-step description of the process used to create and include animation sequences into Extended BASIC - any half-way experienced Extended BASIC programmer can create animated scenes quickly and easily heretofore only possible in Assembly language.

Fun for Young and Old!

While Extended BASIC programmers will certainly appreciate the utility of The Animator, anyone who has ever marveled at the artistry of Disney™ cartoons or just wanted to play games with the computer will find The Animator provides endless hours of enjoyment.

With nothing more than a joystick and a few keyboard commands you can easily create up to 20 frame animation sequences, displayed in any order you like with any combination of repetitions of groups of frames. The results can be as simple as a cat running across the screen and as complex as the limits of your imagination. The results can be animated in several sizes, and even simultaneously up to 16 times on the screen!

The Details

The Animator includes an extensive manual that details how to use the programs in this package, as well as provides practical information for the user and the programmer. Over 2 years in development, this package is extremely well-tested, and guaranteed to work on both the TI-99/4A and the Myarc Geneve. The two-disks provided include numerous examples of both animation sequences and Extended BASIC programs with animation included in them.

The Animator requires at a minimum 32K, Extended BASIC and one disk drive. A printer (any kind) is recommended, but not required.

Suggested Retail \$14.95

S&H: U.S. Add \$1.00, Can. \$2.00, Air \$3.00

A s g a r d S o f t w a r e
P.O. Box 10306 • Rockville, MD 20849

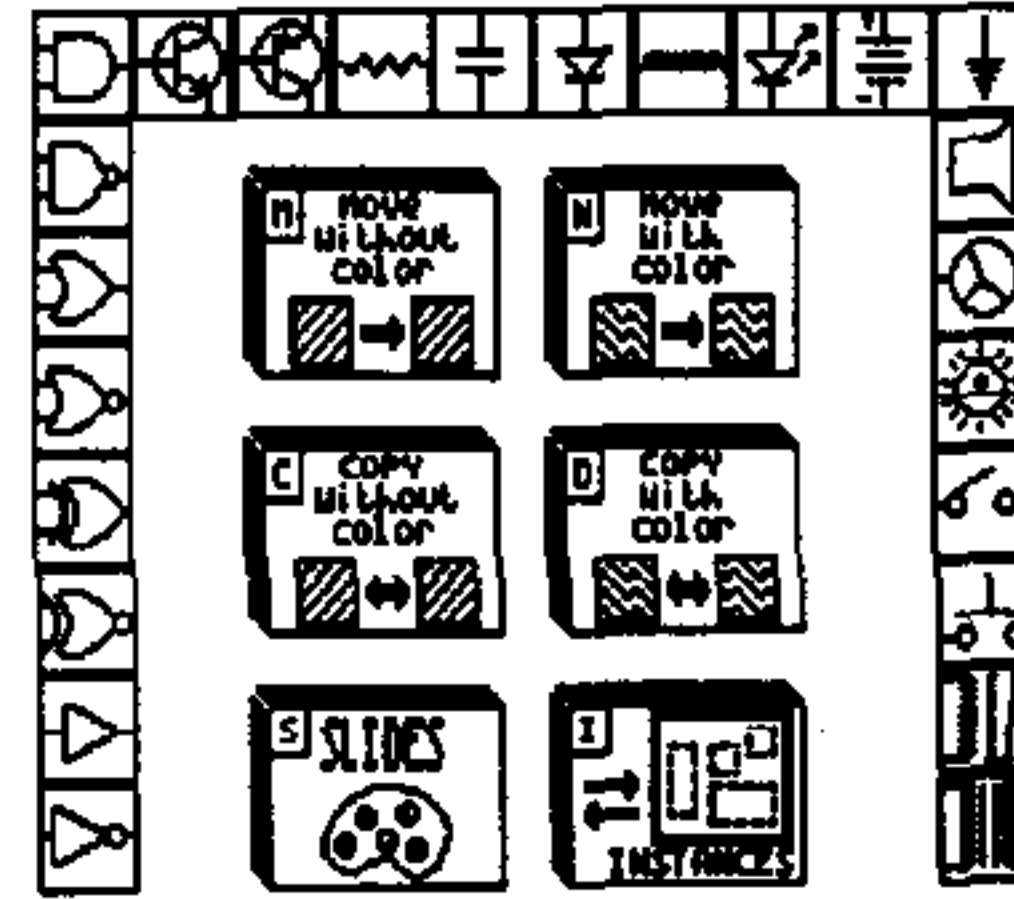
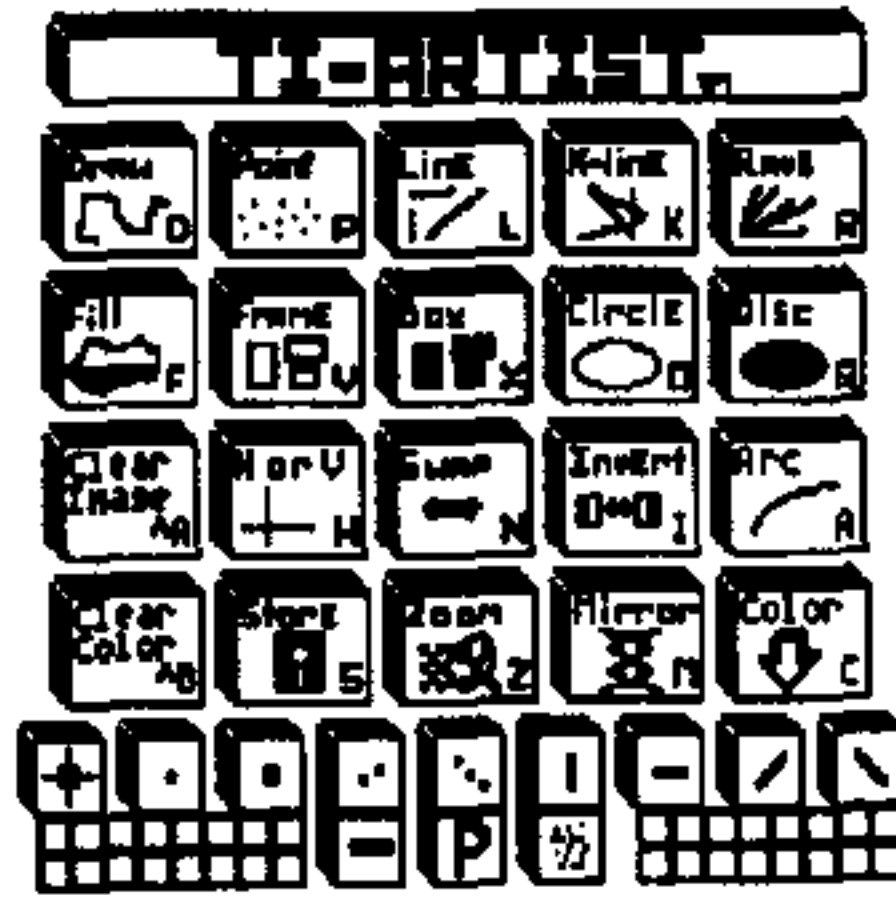
The makers of TI Artist are proud to introduce the most powerful and comprehensive graphics development system available for the TI-99/4a Home Computer...

TI Artist Plus!

More than just an ordinary drawing package, TI Artist PLUS! is a complete drawing system that consists of six dynamic graphics development modules. With these modules, virtually anyone can create, edit, transform, and present the most dazzling of graphics. And with its innovative point-and-shoot menu system, TI Artist PLUS! is extremely user friendly.

Drawing Module

With 8 different brushes, 10 fill patterns, and 16 available colors, almost any picture can be created using TI Artist's drawing tools. Freehand drawing, automatic point-to-point lines, shooting rays, boxing, circling, filling, mirroring, zooming, and spray painting are all a snap! Variable arcs and ellipses can also be drawn with ease. Any picture you design may be saved to disk and later recalled for viewing and modification.



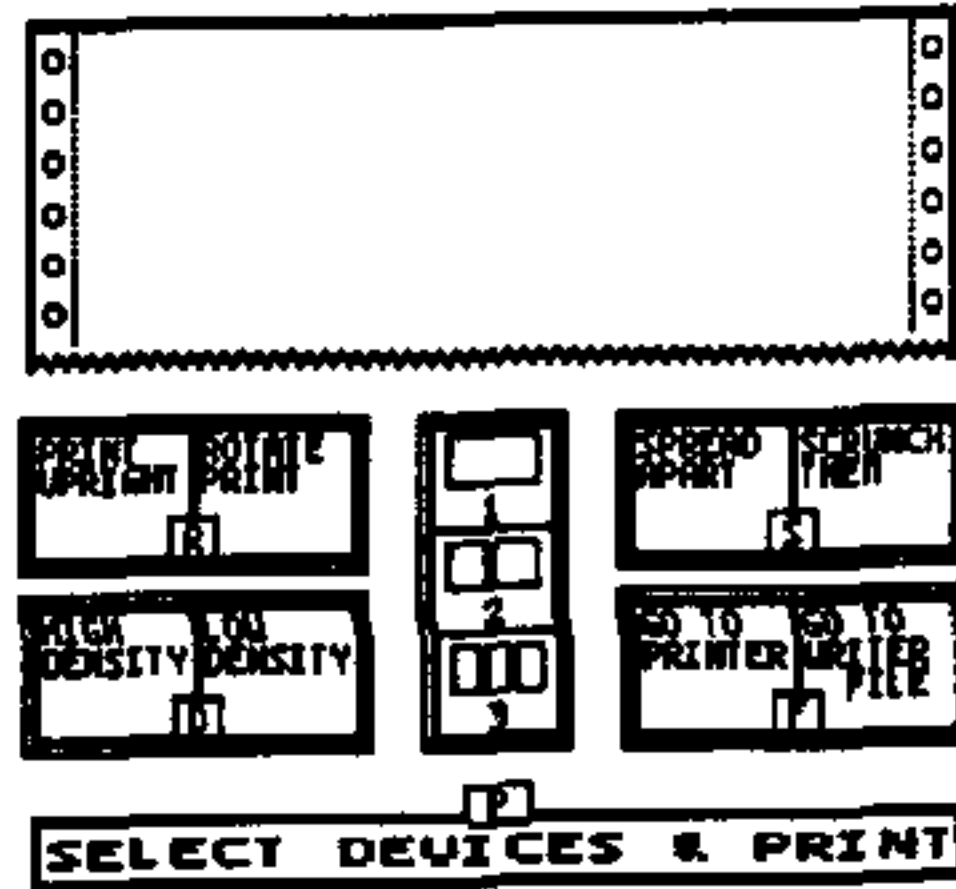
Enhancement Module

Cutting, pasting, copying, importing and exporting graphics is easy with TI Artist PLUS!. Small images, called instances, and collections of small images, called slides, may be used to enhance your artwork. Instances and slides can be created, saved to disk, and used over and over again in all of your drawings. And if you wish, you could also purchase small collections of various (pre-drawn) graphics artwork to use.

Only \$24.95

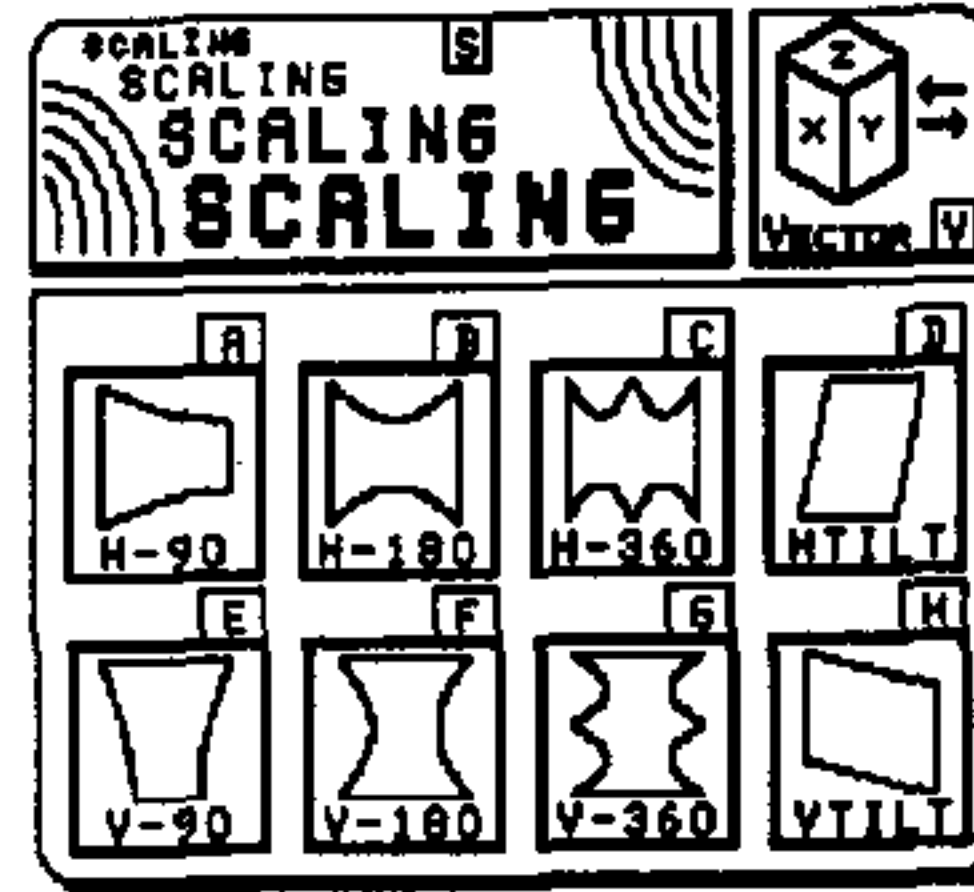
Print Module

With TI Artist PLUS! 1 to 3 pictures can be simultaneously printed together (or separated) across a standard 8.5" x 11" sheet of paper. Print options include: printing in portrait or landscape mode, printing in high or low density, redirecting output to a disk file, printing an outline around a picture, and printing a reverse image of a picture. TI Artist PLUS! supports most popular printers and a limited number of color printers.



Vector Module

Selected areas of a picture can be scaled using TI Artist PLUS!. With scaling, a section of your picture can be made larger or smaller; the height and width of an object can be varied independently. Special effects can also be used to enhance selected areas of a picture. They allow the horizontal and vertical parts of an image to be scaled along a range. Objects can be tilted and shifted using various pre-defined special effects.



Font Module

The font module is used to place alphanumeric data anywhere within a picture. Detailed bit-mapped fonts (available in numerous Artist Companion products) may be used to label a drawing, create a sign, and so on. Features available in the font module include: multiline text editing, automatic outlining of fonts, automatic shadowing of fonts, and automatic left, right and center text positioning.

Movie Module

Animated movie sequences can be produced with TI Artist PLUS!. A small interpreted command language allows you to design an animated sequence using your own pictures and artwork. The command language consists of 8 simple instructions, including a handy indexing command that will display a directory of all your TI Artist files. Movies may be saved to and later played from disk.

Upgrade to TI Artist PLUS!

Owners of the original TI Artist may obtain TI Artist PLUS! for only \$14.95 (plus shipping). To be eligible for the reduced rate, return your original TI Artist disk and the front page of your existing TI Artist manual along with the upgrade fee.

And here's the best feature of TI Artist PLUS! ... its low price! For only \$24.95 (plus shipping) you get both TI Artist PLUS! program disks and a comprehensive 43 page users guide. TI Artist PLUS! requires a disk system, 32K, and either an Extended Basic, Editor/Assembler, or Mini Memory cartridge. TI Artist PLUS! is compatible with the Geneve 9640 (in GPL mode), and the Myarc hard disk controller. TI Artist PLUS! supports the following printers: Epson, Prowriter, IBM Graphics Printer, Seikosha GP-100/100TV550/700, Okidata 92/93, Star NX-1000 Rainbow, Canon PJ1080A, and Tandy CGP220. TI Artist may also be configured by the user to operate with most printers that support 8-bit graphics.

TI BASE APPLICATIONS

TI Base application packages allow the novice and expert user to exploit the full power of TI Base without programming. Each application is complete "program" that consists of multiple command files designed to perform a specific task (see application descriptions for details). Users familiar with the TI Base command language can modify and enhance the application command files to suit their own individual needs.

Mailing List Manager

For TI Base

Keeping track of names, addresses, and telephone numbers can be a real bore. Most people use address books for this... and most people know all about the horrors associated with them. They're never around when you need them, always a mess, and difficult to maintain. Enter Mailing List Manager.

With the MLM system, any user, a novice or expert, can easily add, change, display address entries in their own personal address database. MLM supports two forms of address entry, simple editing functions, multiple address reports and prints mailing labels. Various maintenance functions are also supported, such as file sorting and disk cataloging. MLM will even autodial your telephone! (A Hayes compatible modem is required for autodialing features).

Mailing List Manager was entirely written using TI Base; all of the command files included with MLM can be altered.

Only \$14.95

Publication Index

For TI Base

Did you forget where you read something? Can't remember what magazine issue contained the article you're looking for? Not sure who wrote a particular book? If so, Publications Index is for you!

With the Publications Index system, anyone, a novice or expert, can develop, organize, and maintain their own personal index of publication references in a single centralized database. Indexes can be created for any type of publication, including magazines, newspapers, books, and newsletters. Publication references can be entered into the database and later searched for, displayed, changed and printed... all with very little effort.

Publications Index can even help you better understand the powers of TI Base; all of the command files included with Publications Index can be viewed using the TI Base editor and altered to suit your own needs.

Only \$14.95

MICROdex

FOR TI BASE

MICROdex is a fast, easy-to-use, publication indexing system that places an enormous amount of information at your fingertips. Any article, program review, or editorial that has appeared in many TI-related publications can be quickly located by subject, source, or type. Menu-driven TI Base command files are included with each MICROdex that allow you to access the information stored in the publication databases. And like all other command files, MICROdex command files can be modified and enhanced to suit your own needs.

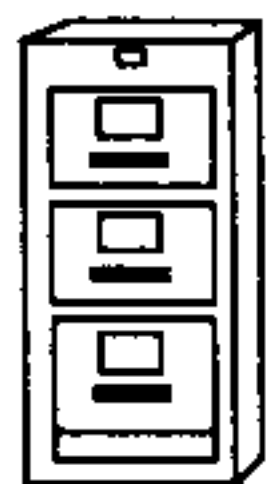
MICROdex Volume I, a complete four disk set, indexes information from MICROpendium, Computel Magazine, 99er Magazine and Home Computer Magazine. **Only \$14.95**

MICROdex Volume II, a complete two disk set, indexes Byte, Computer Shopper, Creative Computing, Enthusiast 99, Family Computing, Mini Mag 99, Popular Computing, R/D Tech News, Super 99 Monthly and The Smart Programmer. **Only \$9.95**

Order both Volumes I and II for only \$22.95!

The Organizer!

For TI Base

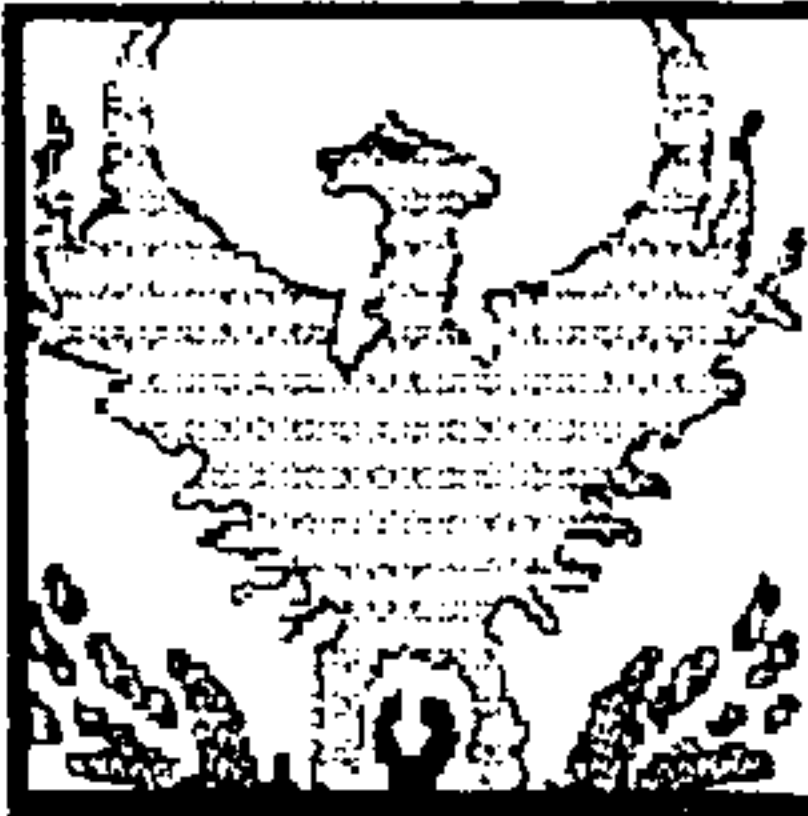


The filing cabinet is one of the most powerful tools used today to store and organize information. Although computers are also used for this purpose, they are generally much more difficult to use than the good old filing cabinet. Not anymore.

The Organizer! is a complete information management system that stores and organizes information electronically... and it works just like a standard filing cabinet does. Each electronic cabinet consists of four drawers that can store up to 16,129 folders each (limited by actual disk size). Each folder contains a subject line to identify the folder by and six text lines for storage of virtually any kind of data.

The folders stored in each drawer may be searched for, displayed, changed, printed, deleted and sorted by subject. The drawers can even be labeled anything you wish. All operations are fully menu driven, which makes The Organizer! as easy to use as an ordinary filing cabinet!

Only \$14.95



OPA Oasis Pensive Abacutors

*Specializing in 9900 based Software & Hardware
Home of the Phoenix 2001 series of software*

ANNOUNCING THE *TI-IMAGE-MAKER*

TINY-TIM's DESCRIPTION:

The **TI-IMAGE MAKER** is an internal console expansion board designed for the TI home computer systems to upgrade the current video display system. The **TINY-TIM** (as some have nick-named it) is based on the new **V9958** Video Display Processor chip, which is still software-compatible with the TI's original **TMS9918** chip, and is also compatible with the **V9938** chip used in other third-party TI video upgrades.

OPA has used state-of-art **CAD/CAE** designing and top design engineers to bring you the best video upgrade for the TI in the smallest and most software-compatible package possible. The PCBoard containing the **V9958**, 192K of video ram, and a special **ASIC** device, plus a 25-pin monitor/expansion port with RGB video driver circuitry, has all been installed on a 4*3" layout. This board is designed to be installed inside the TI console in place of the current **TMS9918** chip. Nothing more than a few tools are needed to install **TINY-TIM** as the old video chip is socketed, and only two jumper wires to connect.

After reading over the following features, specifications, and software included, we are sure you will find that **TINY-TIM** is the best little thing for your TI since you first bought your TI console. For your convenience, an order form is attached to this AD, to help both us and you, in processing your order.

MANUALS/SOFTWARE:

- ☛ Step-By-Step User Installation Guide.
- ☛ Recommended RGB monitor guide, with detail specs. and pin-outs for different monitors, to ease in interfacing **TIM** to your RGB monitor.
- ☛ Complete **V9958** programming guide, with Assembly and **BASIC** software examples.
- ☛ Graphic Demos displaying the power of **TIM**.
- ☛ Our own **GIF** viewer supporting the **V9958**.
- ☛ Three disks packed with fairware software which support the **V9938/58** chips.

T.I.M. / V9958 Specifications:

- ☛ Full 192K of video ram already installed.
- ☛ Full Analog RGB Video Monitor port.
- ☛ External Analog/Digital Expansion port for future OPA like digitizers, GENlock, etc.
- ☛ 80 columns with 24 or 26.5 lines of text.
- ☛ 256 by 192/212/384/424 graphics modes with each pxel being any one of 256 colors.
- ☛ 512 by 192/212/384/424 graphics modes with each pxel being any one of 16 colors out of the built-in 512 color palette.
- ☛ Capable of simultaneous display of 19,268 colors by using the YJK system display.
- ☛ Addresses can be specifed by coordinates.
- ☛ Area move, line, search, and other commands.
- ☛ Vertical and Horizontal scroll functions.
- ☛ 32 sprites with up to 8 per horizontal line.
- ☛ Unique planar representation for 3D simulation.
- ☛ Plus all features of the original **TMS9918** chip.

SPECIAL OPA ADDITIONS:

- ☛ Special **ASIC** chip designed by OPA to remove any software-compatible problems with old software written for old video chips. This allows **TIM** to be 100% hardware and the first video upgrade with no on-board software.
- ☛ **NEW**, a wait function to the CPU to allow future software to remove any un-needed delay loops.



To order yours, fill out the attached order form today. Remembering to add PST if in Ontario. And \$7.50 for shipping and handling. Price is same in U.S. or CAN funds. Money order or checks accepted. Prices subject to change. For more info see order form.>>>>>>>>>

For ease in processing your order or for requesting more information about **TIM**, please fill out the following form, and then mail it to OPA at the following address, or phone us anytime from 8am-11pm EST at (416)860-0825; (For more info see the box to the left. If ordering "computer" is important for this device, if unsure give us a call)

OPA 492 Jarvis Street Suite 502 Toronto, Ontario Canada M4Y-2H3

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Computer: T199/4 T199/4A T199/4QI T199/8

What Order More info Latest catalog (see letter)

FOR IMMEDIATE RELEASE

October 15, 1990
Burlingame, California

TM Direct Product Marketing announces the purchase of the TI-99/4A business from Triton Products Company effective October 29, 1990.

Terry Miller, former owner and co-founder of Triton Products Company announced today that he has completed the purchase of the TI-99/4A business from Triton Products. Miller's new company, TM Direct Product Marketing will begin marketing hardware, software and accessories for the TI-99/4A on October 29. Triton Products Company discontinued sales of TI-99/4A products on October 15.

"I am extremely excited that I am going to be able to continue the strong relationship we built with TI-99/4A users over the last 5 years," said Miller. "A computer as good as the TI-99/4A is and users as loyal as TI owners are, deserve great support and that's what TM Direct Product Marketing is going to give them."

The deal calls for the referral of all orders and inquiries to Triton Products Company for TI-99/4A products to be forwarded to TM Direct Product Marketing. TM Direct Product Marketing's new toll free phone number is 1-800-336-9966. The address is 379 Beach Road, Burlingame, California, 94010.

TM Direct Product Marketing is located just south of San Francisco. The company is dedicated to providing TI users with the best selection of hardware, software and accessories available for the TI-99/4A at tremendous values.

The MISSING LINK

The Ultimate Extended Basic Upgrade

The ultimate upgrade. The Missing Link is a powerful extension of the Extended Basic language that allows programmers to access all of the high resolution bit-mapped graphics and advanced text modes of the TI-99/4a. Before The Missing Link was developed these advanced display modes could only be accessed through assembly language programs, or by using optional and often expensive hardware. Now, using The Missing Link, ordinary Extended Basic programs, without the aid of any additional hardware, can be written to take full advantage of these advanced display modes.

High-speed subroutines. The Missing Link consists of over 30 assembly language subroutines that replace the usual methods of accessing the computer display through Extended Basic. With these high-speed subroutines many text, cartesian graphic, turtle graphic, sprite graphic, windowing and miscellaneous peripheral operations can now be incorporated into any Extended Basic program. Novice and expert users alike will find these subroutines easy-to-use, and also fully explained in the 32 page manual included with The Missing Link.

Incredible text functions. Using the text functions found in The Missing Link information can be displayed and input to and from the screen. Text can be displayed both horizontally and vertically with automatic word wrap in a window of any size. The character text size can be changed permitting up to 32 rows by 60 columns to be displayed on the screen. Different sized text can also be displayed simultaneously on the same screen.

Awesome graphics power. A tremendous amount of bit-mapped graphics functions are also available in The Missing Link. With cartesian graphics, points, lines, circles and boxes can be plotted on the screen. Turtle graphics can be used without the ink and color restrictions typically found in Logo. Using the advanced sprite routines up to 32 moving sprites can be defined and controlled simultaneously. Best of all, there are no limits when combining the advanced text and graphics capabilities on the screen.

"Through Extended Basic, The Missing Link allows anyone to access all of the incredible graphics and text capabilities found in the TI-99/4a. This was something people said could never be done... we did it."

Steve Lambert
President of Tournaments

It does windows. With The Missing Link you can display an unlimited amount of windows without any size or color restrictions. Text may be displayed in or input from a window; graphics may be generated inside and outside the boundaries of a window. Multiple windows can even be overlapped and text or graphics output controlled within window boundaries.

TI Artist compatibility. In addition to its remarkable text and graphics capabilities, The Missing Link can also display and save full color TI Artist pictures. Furthermore, The Missing Link can perform full bit-mapped screen dumps of any current display.

The first one is on us. Included free with The Missing Link is PaperSaver, the first program ever written with and for The Missing Link. PaperSaver is an impressive utility program that, for the first time, lets you see precisely how text prepared with TI Writer is going to look before it is printed.

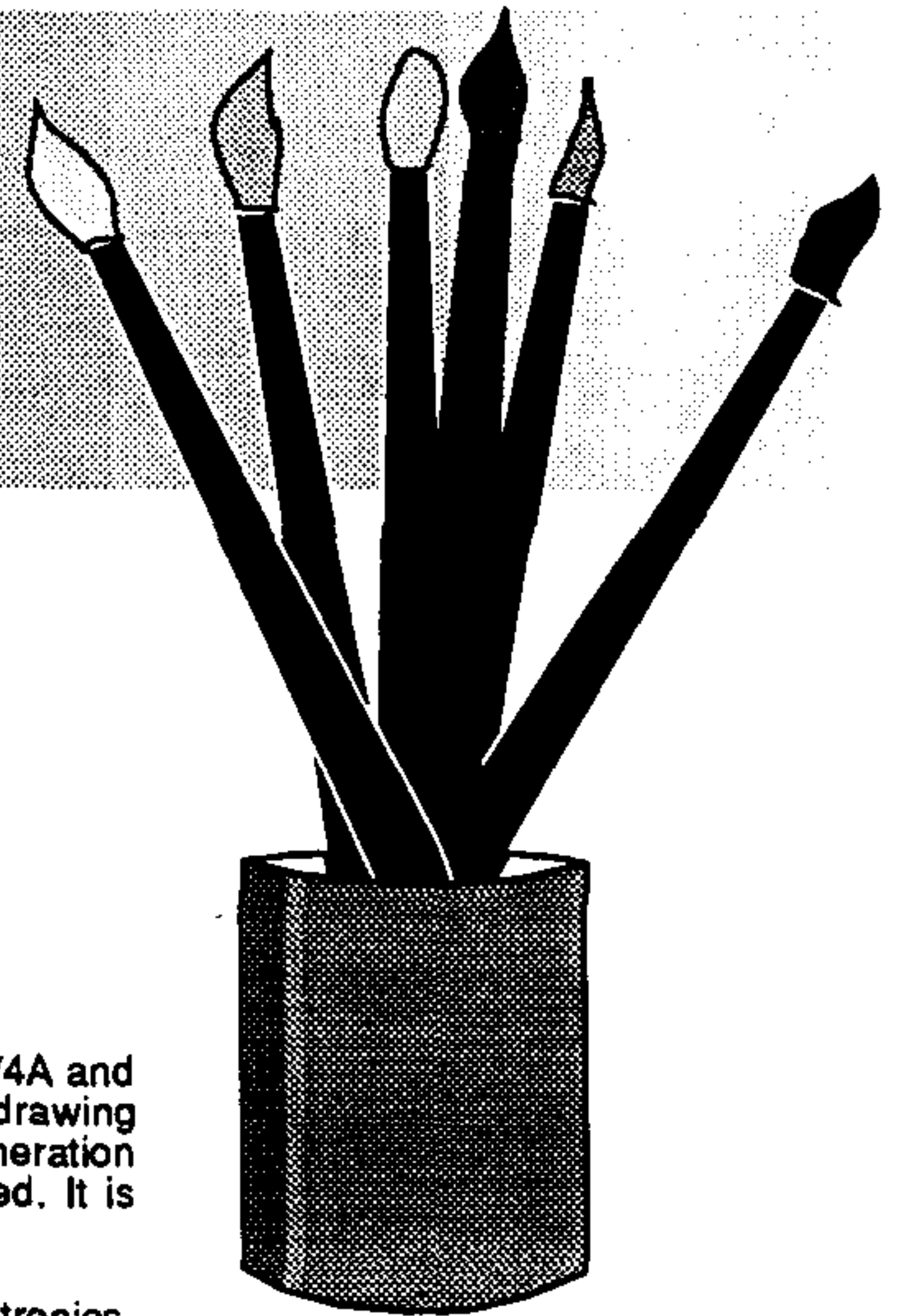
Go ahead, try it! For only \$3.00 (shipping included) we will send you a Live Demonstration of The Missing Link that demonstrates almost every function of The Missing Link and PaperSaver. The Live Demonstration is written entirely in Extended Basic and is a true representation of what can actually be done with The Missing Link. There is no better way to see what The Missing Link can do (unless you buy it, of course).

Order today. Not only is The Missing Link powerful, but it is affordable as well. For only \$24.95 (plus shipping) you get The Missing Link, the PaperSaver utility, a comprehensive 32 page manual, and The Missing Link Live Demonstration.

Requirements. A TI-99/4a system with 32K memory expansion, disk drive system and an Extended Basic cartridge is all that is required to operate The Missing Link. An Epson compatible printer is needed to use the screen dump features. The Missing Link has been tested (but is not guaranteed) to be compatible with the Geneve 9640 (in TI mode), all Myarc and Cor-Comp peripheral expansion cards, HRD, and the Triton/MG Super Extended Basic.

Look Inside For More Exciting TI-99/4a Products!
We Ship Most Orders Within 48 Hours!
See Back Cover For Complete Ordering Instructions

Yet Another Paint Program



Y.A.P.P., by Alexander Hulpke, is the most advanced drawing system for the TI-99/4A and the Myarc Geneve 9640. Combining all the popular painting features of other drawing programs, along with the spectacular graphics capabilities provided by the new generation of graphics hardware, *Y.A.P.P.* may be the last paint program you will ever need. It is certainly the type of program the new generation of hardware was designed to run.

Y.A.P.P. is designed to function on a TI-99/4A with an 80-column device (by Mechatronics, Dijit or Asgard), or on a Myarc Geneve 9640. It is the first program designed to take full advantage of the features offered by the 9938 Video processor used in those devices. Furthermore, it is a full-featured drawing program that includes:

- Support for 4 different drawing modes including 256x212 dots with 256 colors, 256x424 with 256 colors, 512x212 with 16 colors, and 512x424 with 16 colors. Unlike a standard TI-99/4A, each dot can be any of the available colors.
- An icon driven interface that works with the *Asgard Mouse*, the *Myarc Mouse*, a *Mechatronics/Dijit* mouse, or a joystick.
- Extensive drawing commands including an airbrush tool, different drawing brushes, lines, boxes, frames, filling, circles/ellipses, etc.
- Built-in support for moving and copying parts of a picture.
- A fast zoom drawing mode (192K video RAM required for some graphics modes).
- Built-in support for *TI-Artist* compatible fonts - type on the screen with ease in your favorite fonts.
- Support for creating and using color clip-art. An "undo" function for erasing mistakes.
- The saving and loading of pictures, including support for *My-Art* picture format, and a built-in mouse/joystick driven disk cataloger.
- Extensive support for 10 different logic functions that work with almost all commands for use in creating special effects.
- A complete printout utility for Epson or compatible printers for printing color pictures in gray-scale on most dot-matrix printers.
- Complete, and superior, support for GIF format pictures.

All features of *Y.A.P.P.* are included in one convenient to use program that can be run equally well from a TI-99/4A or a Geneve. *Y.A.P.P.* includes a large collection of original example pictures and fonts, and a manual/tutorial with illustrations. A German language manual is also available on request.

Requires either: (1) a TI-99/4A with an 80-column card, 32K, a disk system, and either an Asgard Mouse, 80-column device mouse or a joystick; or (2) a Myarc Geneve 9640 with a disk system, an Asgard or a Myarc Mouse.

Suggested retail:

\$29.95

U.S. add \$2.50 S&H
Canada add \$3.00 S&H
Airmail add \$5.00 S&H

Asgard Software • P.O. Box 10306 • Rockville, MD 20849