

## Eastern House Software

March 1981 #1

THE EHS GAZETTE

PAGE

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The EHS Gazette is a newsletter published free to anyone supplying a self-addressed stamped envelope (SASE). Since we, a software house publish this newsletter, we make "no bones" about the fact that we are biased in favor of EHS products and certain other products we like. We hope you like our products and find this newsletter of great value. But, we also want this newsletter to provide a source of general PET oriented information, and to do this we need the help of our readers. If you have information that you would like to share, please send it to EHS Gazette, c/o EHS, 3239 Linda Dr. Winston-Salem, N.C. 27106.

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For a free copy of the next issue, be sure and send a SASE to EHS Gazette c/o EHS. Make Sure its an 18¢ stamp!

Bored with nothings to do?

----- Take this gazette to a copy machine and make some copies for your friends, computer club, etc.

Need communication with a fellow PET enthusiast?

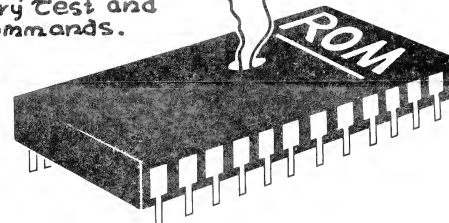
----- Select a name from a back issue of a magazine and send that person a copy of this gazette. Include a note that you thought he might like a copy and describe what you are doing, a problem with the PET you're having, etc. Who knows, you might obtain the information you need, provide him with information he needs, and in the process make a life-long pen-pal.

### "The ROM Rabbit"

"Your Wish ... ..Is My Command"  
It's all in a 24-pin ROM at EHS!!

Pet Owners  
Granted 3 Wishes:

1. Faster Cassette Load
2. Auto-repeat on all keys
3. Memory Test and 12 Commands.



ROM and MANUAL — \$49.95  
Specify 3.0 or 4.0 Basic (Works with or without toolkit)

EASTERN HOUSE SOFTWARE  
3239 Linda Drive  
Winston-Salem, N. C. 27106

(919) 924-2889  
(919) 748-8446

## ASSM/TED to ROM Rabbit Linkage

EHS now has ASSM/TED working with ROM Rabbit. The standard PET cassette I/O takes about 3 minutes to load 8K bytes - but ROM Rabbit loads 8K in about 30 seconds! (Similar times apply to saving programs.) What a convenience to quickly load source from tape in only a fraction of the time it did take. ROM Rabbit is truly an inexpensive bridge between cassette and disk. EHS will supply, upon request, these linkages to anyone who purchases or has purchased ROM Rabbit. ROM Rabbit sells for \$49.95 (includes rom chip and manual), works with the Basic Programmers Toolkit, and, like ASSM/TED, versions are available for 3.0 and 4.0 Roms and 8032 (please specify when ordering).

NOTE: Anyone who purchases ROM Rabbit can purchase the EHS Assm/Ted Scroll package for an additional \$15.00. Scroll allows forward and reverse scrolling thru ASSM/TED source files using the cursor up/down keys. For example, cursor to the bottom of the screen, hit cursor down again, and the next source line appears. Hit again and the next and so on. Cursor to the top of the screen, hit cursor up and a reverse scroll occurs. Since auto-repeat is provided on all keys, cursor up/down may be held down for continuous scrolling. We are very sure you will find SCROLL to be a utility you will find well worth \$15.00. When ordering SCROLL, specify 3.0 or 4.0 roms, or 8032 CBM.

## Unimplemented 6502 Opcodes!

An unimplemented opcode is a machine code byte that is undefined to the 6502. For example, the byte FF is unassigned in the 6502. It's execution should never occur and if it is ever executed, the chip manufacturers will not guarantee what will happen. Space Invaders, the most popular game ever written for the PET,

ROM  
OR ON  
CASSETTE

## THE PET RABBIT

4.0  
OR  
3.0 ROMS

The PET Rabbit is a programmers aid which provides 12 additional commands that can be executed in BASIC's direct mode. In addition to the commands, automatic repeat of any key held down for 0.5 seconds is also provided. This will greatly aid inputtings of characters and provide more convenient cursor control. Most importantly, the RABBIT's high speed recording technique allows an 8K program to be saved in 38 seconds instead of the normal 2 minutes and 44 seconds in Commodore's format. (Note—The RABBIT cannot be used to store data tapes from BASIC.)

The PET Rabbit is 2K of machine code supplied on cassette or in ROM. The cassette version occupies the top-most portion of memory and can be ordered in one of 5 locations: \$1800-\$1FFF for 8K PETs, \$3000-\$37FF for 16K PETs, and \$7000-\$77FF for 32K PETs. The reason for two different versions for the 16K and 32K PETs is to provide room for those programmers who use the DOS Support (wedge) program. (Note—The cassette RABBIT works only with 3.0 ROM PET's.)

The ROM version is a 24 pin Integrated Circuit which plugs into spare socket D4 and occupies memory \$A000-\$A7FF. Since the ROM version does not occupy user RAM, it will work with any 8K, 16K, or 32 K 3.0 or 4.0 ROM PET. The main advantage of the ROM Rabbit is that it doesn't have to be loaded each time you power up your PET and it does not occupy valuable RAM memory.

The PET RABBIT's high-speed cassette recording feature will not work with some of Commodore's older cassette decks. To be specific, cassette decks with the lift top lid (termed old style) will not work but all other features will work. In addition, we have discovered that some new style cassette decks will not work properly. How do you know if your cassette will work? Simple—open up the cassette deck and look at the printed circuit board components. If there are IC packages for all the active components, it will work with the RABBIT. If there are any transistors on the board, it will not work. Most new style cassette decks will work okay since there are very few of the transistor types. If you wish to purchase ROM RABBIT and a cassette deck, we can offer an attractive discount.

The RABBIT commands are:

SS — Save with short leader	D — Convert decimal # to hex #
SL — Save with long leader	H — Convert hex # to decimal #
L — Load a program	Z — Toggle character set
V — Verify a program	K — Kill the RABBIT
E — Load and then run	* — Go to monitor
T — RAM memory test	G — go to machine language program

RABBIT works with the PROGRAMMERS TOOL KIT.

CASSETTE RABBIT - \$29.95	EASTERN HOUSE SOFTWARE
ROM RABBIT - \$49.95	3239 Linda Dr.
(specify memory, 3.0 or 4.0)	Winston-Salem, N. C. 27106

allows execution of one of these unimplemented opcodes. This is caused by a miscalculated branch offset at location \$0AE7. This location should contain an \$FA. Even though Space Invaders allows execution of an implemented opcode, it still works - at least on our PETs. I don't know for sure if all the different manufacturers 6502 chips will behave the same though.

By the way, we found this using the EHS TRAP 65. We also found that our copy of Word Pro II has a bad branch.

#### Output the Time from Machine Language!

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Ever wanted the ability to print the time from machine language code? You can via the following code:

```

;OBTAIN AND PRINT THE TIME FROM MACHINE LANGUAGE
A9 16      ML.TIME    LDA #16
85 13      STA *STR.DES
20 2E CE   JSR TIME.STR ;FOR 4.0 ROMS, CHANGE TO $BFAD
A0 00      LDY #00
B1 30      LP.TIM     LDA (BOT.STRING$),Y
09 80      ORA #80     ;MAKE INVERSE VIDEO
99 22 80   STA SCREEN.MEM+34,Y ;AND PRINT TO SCREEN
C8         INY
C0 06      CPY #06
90 F6      BCC LP.TIM  ;LOOP FOR 6 CHARACTERS
;NOW ADJUST "BOTTOM OF STRINGS" SO WE DON'T HAVE
;GARBAGE COLLECTION PROBLEMS IF THIS MODULE IS
;REPEATEDLY INVOKED
18         CLC
D8         CLD
A5 30      LDA *BOT.STRING$
69 06      ADC #06
85 30      STA *BOT.STRING$
90 02      BCC SK.TIM
C6 31      DEC *BOT.STRING$+1
00         SK.TIM     BRK

```

#### An EPROM Programmer - From K-Z Systems

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K-Z Systems, Route 2 Box 473, Manchester, Mo. 63011 has developed an EPROM programmer for PET computers they call the "Branding Iron". It is fully assembled and very professionally constructed. Connection to the PET is via the user port and cassette interface. Even though we are not in any way associated with K-Z, we consider their product of high quality. Contact K-Z for pricing.

#### The News Column

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VIC - Commodore is having production problems with its \$300 VIC computer. We've heard that the VIC is manufactured overseas

and its being redesigned in order to pass FCC radiation requirements. Commodore insiders say the VIC will appear in June 1981.

Soviet MPU - Soviet Microprocessor? - Yes, the USSR has finally developed one. It's dubbed K80IK80.77. A U.S. computer company obtained a copy from an East Bloc country and took a peek inside the chip. They found that it was patterned, though not an outright copy, after the INTEL 8080. The Soviet micro is contained in a 48-pin DIP with eight pins not used. The chip size was rather large -- 42K mils square as compared with INTEL's 26K mils square. It seems that the Soviets were intent on quickly producing a micro with little interest on production cost. Their chip fabrication technology was found to be about 3 years behind the U.S. and Japan.

32-bit MPU - Intel has coined a new term, "micromainframe", to describe its new 32-bit iAPX432 MPU chip set. The iAPX432 is housed in three 64-pin chips and contains approximately 200,000 transistors. The iAPX432 can address a logical space of 4 billion bytes. Initial cost for the three-chip set is planned to be \$1,500.00. Hewlett Packard also announced a 32-bit MPU with 450,000 transistors on a single N/MOS chip - 7 watts are dissipated (hot ain't it!). See Electronics News, Feb 23, 1981 for more news on these MPU's.

#### ASSM/TED Default File Boundaries

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Does PET Macro ASSM/TED defaults for text file and label file bother you? They can be changed via the >SET command or permanently if you make the following changes to your copy of ASSM/TED:

354F	-	lo	hi	lo	hi	lo	hi	lo	hi	lo	hi	+ 5 addresses
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
		start	end	start	end	start	end	start	end	start	end	
		text file		label file		R.L. buffer						

#### ASSM/TED Screen Edit Update

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Have you ever cursor'd up on the screen, made a change, hit return, and noticed that the ASSM/TED prompter (">") overwrites the left-most digit of the next lines line-number? Well, we have a fix so this won't bother you anymore. Try entering the following patch:

```
217B - 20 94 25
206B - 20 0C 3B
3B0C - B9 35 3F C9 3E D0
      01 C8 20 97 24 60
2207 - 20 A7 3B
3BA7 - 30 0C 3B B9 35 3F 60
```



A strange  
and unknown  
marking!

## 6800 and 8085 Cross Assemblers

EHS has 6800 and 8080/8085 Cross-Assemblers available for the PET and Apple computers. A Cross-Assembler is an assembler program that functions on a certain processor but assembles code for a different processor. For example, EHS's MAE6800 Cross-Assembler is an assembler/text editor that functions on a 6502-based PET but it generates machine code for the 6800. You still write your program in 6800 Assembly Language and the generated object code must be down-loaded to a 6800-based system for execution. A good use is in a University or company that already has a PET and must develop a program for say a 6800 based controller. If you've already got a PET, it sure beats having to shell out another \$10,000+ for a 6800 Motorola Development System. A Commodore computer, MAE6800, and the K-Z EPROM Programmer makes a nice 6800 Development System.

### 6502 COMPILERS

#### - PET OR SYM GRAPHICS COMPILER -

- Produces 6502 **object code** used to draw graphics characters on CRT; easier and faster than BASIC.
- Object code can be run without compiler or can be combined with BASIC programs.
- **35 commands** — additional commands may be added by user.

#### - PET MUSIC & SOUND COMPOSER -

- Produces 6502 **OBJECT CODE** used to compose musical songs or those special sound effects.
- **Four octaves** of musical notes including sharps and flats — Tempo & beat variable.
- **24 other commands.**

Both compilers require the use of EHS's Macro assembler and text editor (ASSM/TED), and provides a new command: **>BUILD MACROS** and **>BUILD LIBRARY** that is useful for other functions. Also, an enhancement which provides for **31 characters per label** is included.

**Cassette and Manual \$29.95** (U. S. postage included)

Please specify compiler desired)

### Eastern House Software

3239 Linda Dr.

Winston-Salem, N. C. 27106

## APPLE & PET

### MAE

The Most Powerful Disk-Based  
Macro Assembler/Text Editor  
Available at ANY Price

Now includes the Simplified Text Processor (STP)

For 32K PET, disk  
3.0 or 4.0 ROMS or — OR — 48K APPLE II  
8032 (specify) or APPLE II +  
and DISK II

#### MAE FEATURES

- Control Files for Assembling Multiple named source files from disk
- Sorted Symbol table — Up to 31 chars./label
- 27 Commands, 26 Pseudo-ops, 39 Error Codes
- Macros, Conditional Assembly, and a new feature we developed called Interactive Assembly
- Relocatable Object Code
- String search and replace, move, copy, automatic line numbering, etc.

#### STP FEATURES

- 17 text processing macros
- Right and left justification
- Variable page lengths and widths
- Document size limited only by disk capacity
- Software lower case provision for APPLE II without lower case modification

#### ALSO INCLUDED

- Relocating Loader
- Sweet 16 macro library for APPLE and PET
- Machine Language macro library
- Sample files for Assembly and text processing
- Separate manuals for both APPLE and PET

#### PRICE

- MAE, STP, Relocating Loader, Library files, 50 page manual, diskette — \$169.95

SEND FOR FREE DETAILED SPEC SHEET

EASTERN HOUSE SOFTWARE  
3239 LINDA DRIVE  
WINSTON-SALEM, N. C. 27106

(919) 924-2889

(919) 748-8446

# Upgrade ASSM/TED from 3.0 ROMS to 4.0 ROMS

If you upgrade your PET ROMs to 4.0, you will find that the copy of ASSM/TED for 3.0 ROMs will not function properly. To modify ASSM/TED 3.0 to 4.0, make the following changes:

3740 - 85 D4 A9 00 85 D1	3E47 - 20 D3 F4
374C - 85 D4 A9 00 85 D1	3E4F - 20 E5 F5
3E3A - 20 95 F6 20 57 F8	3E54 - 20 7B F6
3E40 - 20 49 F4	3E5A - 20 6D F4 20 A3 F8
3E60 - 20 2B F9	3E94 - 20 E3 F6

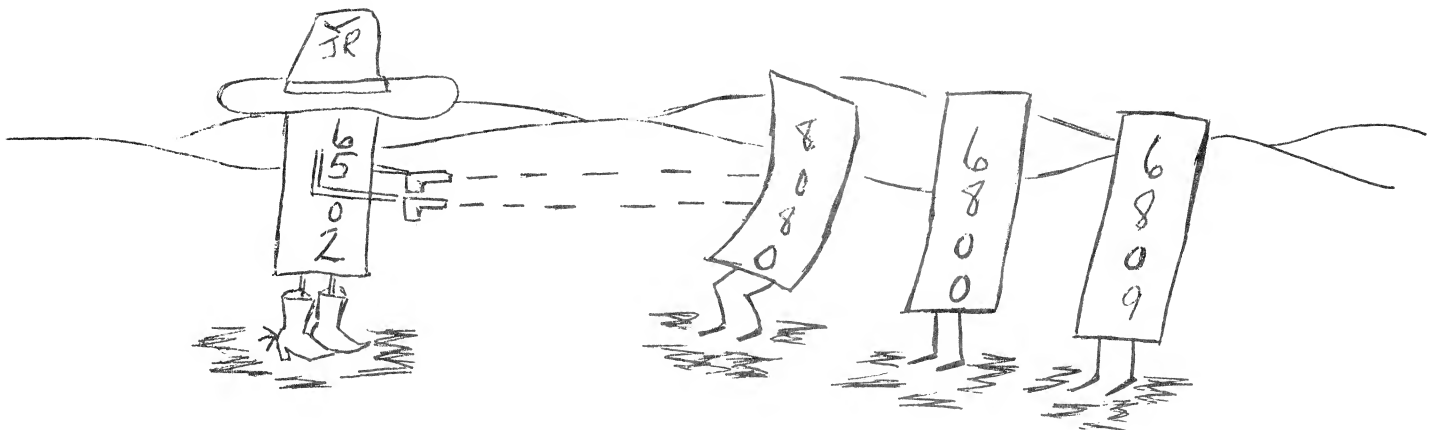
## Printer Driver for ASSM/TED

To interface ASSM/TED to the 2022 or 2023 IEEE printer, enter the following:

4000 - 78	PNTR.DVR	SEI	
4001 - 48		PHA	
4002 - A5 D4		LDA *FA	;SAVE FA
4004 - 8D 5B 02		STA FAT	; *
4007 - A9 04		LDA #DEVICE	;IEEE DEVICE #4
4009 - 85 D4		STA *FA	; *
400B - 20 BA F0 (20 D5 F0)		JSR LISTN	;CMD DEVICE TO LISTEN
400E - 20 2D F1 (20 48 F1)		JSR SCATN	;RELEASE ATTENTION
4011 - 68		PLA	
4012 - 48		PHA	
4013 - 85 A5		STA *BSOUR	;SET UP TO WRITE
4015 - 20 EE F0 (20 09 F1)		JSR ISOUR	;WRITE TO PRINTER
4018 - 20 83 F1 (20 B9 F1)		JSR UNLISTN	;CMD DEVICE TO UNLISTEN
401B - 68		PLA	
401C - 58		CLI	
401D - 60		RTS	

Next, link the printer driver to ASSM/TED as follows:

37E2 - 20 00 40



Supersort/Superbase by James Strasma

Supersort/Superbase consists of the following 2 programs:

- 1) A machine language Shell-Metzer general purpose sorting program that sorts a Basic programs strings and integer arrays at lightning speed.
- 2) A sequential file manager (Superbase) that uses Supersort for sorting. Use Superbase for mail lists and other file management needs. Commands to add and change data, print to screen or printer, sort on a specified item, etc. \$35.00 (Disk only) includes documentation.

Games sold by EHS

Space Invasion - By Richard Mansfield, for 8032 PET. Action-packed shoot-em-down game. Action like Space Invaders but different. Rare category of program as there are few games for 8032. - \$14.95

Muon Invasion - By Richard Mansfield, for 2001 series PET. Muon warships have just entered the Milky Way. Its up to you to blast them with your gravitation beams. \$9.95

Hidden Words - By Richard Mansfield, for any PET. Two player word game in which the winner is the player who identifies the greater number of words in the time allowed. \$9.95

UFO Search - By Betsy Robinson, for any 40-column PET. From constellation Cassiopeia and the Big Dipper to Scorpius and Perseus, this program displays graphical representation of one or more constellations. You guess if there is a UFO in the STARS. Its you (Earth) against outer space. \$9.95

Speedy Biorhythm - By Betsy Robinson, for any 40 column PET. Plots biorhythm on PET's screen. \$9.95

NOTE: All prices for games are for shipment on cassette. Add additional \$3.00 if you want games shipped on diskette.





# SPECIAL: Additional 10% off on all CBM hardware

## INTRODUCING ROM PET RABBIT OR CASSETTE

The PET RABBIT contains high-speed cassette routines, auto-repeat key feature, memory test, decimal to hex, hex to decimal, and other features. Coexists with the BASIC PROGRAMMERS TOOLKIT. Works with 3.0 ROMS (New) and new style cassette deck.

Cassette versions configured for \$1800, \$3000, \$3800, \$7000, and \$7800. (3.0 ROMS only)

Cassette and manual — \$29.95

ROM version configured to plug into P.C. board at \$ A000 (3.0) or \$9000 (4.0).

ROM and manual — \$49.95

FREE ROM RABBIT with purchase of 8K PET and tape deck.

**SPECIAL** - ROM RABBIT and cassette deck — only \$134.95

## MACRO ASSEMBLER AND TEXT EDITOR

Macro and conditional assembly, string search and replace, 10 char./label, AUTO line numbering. MOVE, COPY, DELETE, NUMBER, and much more 20+ commands, and 20+ pseudo ops.

PET cassette version (ASSM/TED) — \$49.95.

(Specify 2.0, 3.0, or 4.0 ROMS.)

PET disk version (MAE) — \$169.95

(Specify 3.0, 4.0, or 8032)

ATARI cassette version with machine language monitor — \$49.95. Also available on diskette \$53.95.

FREE ASSM/TED and ROM RABBIT with purchase of 32K PET and cassette deck.

FREE MAE with purchase of 32K PET and disk drive.

## TINY-C FOR PET

An adaptation of the TINY-C interpreter sold by Tiny-C Assoc. Useful for learning a modern structured programming language. Diskette — \$50.00. Owners manual — \$50.00

FREE MAE and TINY-C with purchase of 32K PET, disk drive, and printer.

## COMPILERS

Graphics Drawing Compiler for PET and SYM. Works with Macro ASSM/TED. The GDC is composed of a number of macros which emulate a high-level graphics drawing language. In addition to the macros, GDC provides some very useful enhancements to the ASSM/TED. Manual and Cassette — \$29.95.

Music and Sound Composer for PET. Works with Macro ASSM/ TED. The MSC is composed of a number of macros which emulate a high-level computer music language. In addition to the macros, MSC provides some very useful enhancements to the ASSM/TED. Manual and Cassette — \$29.95.

### ORDERING TERMS

Send check or money order in U.S. dollars. Add 2% for postage for CBM orders. Overseas software orders add \$5.00. All software mailed free in USA and Canada. Purchase orders acceptable.

## EHS IS NOW A COMMODORE DEALER

EHS offers a number of software products for PET, ATARI, APPLE, and other 6502 computers. Now we sell CBM hardware. If you're in the market for PET products, be sure to look for our FREE software offers. Note: Be sure and deduct 10%.

CBM	PRODUCT DESCRIPTION	PRICE
4001-8KN	8K RAM-Graphics Keyboard	\$ 795.00
4001-32KN	32K RAM-Graphics Keyboard	\$1295.00
8032	32K RAM 80 Col.-4.0 O/S	\$1795.00
2022	Tractor Feed Printer	\$ 795.00
4040	Dual Floppy-343K-DOS 2.1	\$1295.00
8050	Dual Floppy-974K-DOS 2.0	\$1695.00
C2N Cassette	External Cassette Drive	\$ 95.00
CBM to IEEE	CBM to 1st IEEE Peripheral	\$ 39.95
IEEE to IEEE	CBM to 2nd IEEE Peripheral	\$ 49.95
8010	IEEE 300 Baud Modem	\$ 395.00
2.0 DOS	DOS Upgrade for 2040	\$ 80.00
4.0 O/S	O/S Upgrade for 40 Column	\$ 110.00
VIC Computer	New Commodore	\$ Call or Write

## EDUCATIONAL DISCOUNTS

**BUY 2 — GET 1 FREE**

## TRAP 65

TRAP 65 prevents the 6502 from executing unimplemented instructions. Have you ever had your system to crash on a bad upcode? This is a real machine language debugging tool and time saver. Also useful for teaching trap vectoring and extension of instruction set in schools. 3½ X 4¾ printed circuit board which plugs into 6502 socket of any PET, APPLE, SYM. Only \$149.95.

## ATARI M.L. MONITOR

Load and save binary data on cassette. Display and change 6502 registers. Will coexist with BASIC. Monitor uses the screen editing capabilities of the ATARI to allow easy use. Cassette and manual — \$24.95 (specify memory size). Diskette and manual — \$29.95 (specify memory size).

## ATARI MEMORY TEST

When you purchase a new ATARI or add on new RAM modules, you need to be sure that the memory is working properly. (Remember, you only have a short guarantee on your memory!) Cassette and manual — \$6.95.

## APPLE PRODUCTS

Macro ASSM/TED — includes manual, on cassette — \$49.95, on disk — \$55.95

Apple MAE — similar to PET MAE. A powerful assembly development system on diskette for 48K APPLE II or plus. (Requires license agreement) — \$169.95.

PIG PEN — 100% M.L. word processor for use with Apple ASSM/TED. Fast text formatting, vertical and horizontal margins, right and left justification, centering, titles, foots, shapes, etc. Manual and source included, on cassette — \$40.00, on diskette — \$45.00

Apple Mail List System. Provides sorting on zip code or last name. Approximately 1000 names/diskette. Manual and Diskette — \$34.95.

## EASTERN HOUSE SOFTWARE

3239 Linda Drive, Winston-Salem, N.C. 27106

Ph. Orders — 9-4 EST (919) 924-2889

After 4 pm 748-8446

Send SASE for free catalog



# EHS ORDER FORM

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← (for fast delivery)



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NOTE: Please describe your  
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properly fill your order:

TOTAL: \_\_\_\_\_

Circle one for your Computer

2001 8K, 16K, or 32K  
2001/4.0 roms 8K, 16K, or 32K  
8032 80 column

Circle one or more for storage device

Cassette  
2040 or 4040 disk drive  
8050 disk drive

## TRAP 65



For PET, APPLE, SYM, OSI, etc.  
Any 1 mhz 6502!

- Prevents from "hanging up" via execution of **unimplemented opcodes!** Causes your monitor to **display location** of bad op code!
- Our computers have stopped crashing!
- **Debugging easier!**
- **Easy to install** — plugs into 6502's socket.

TRAP 65 is currently being used to insure that there are no bad opcodes in programs before submittal for ROM masks!

We are using TRAP 65 in experiments on extending the 6502's instruction set — PHX, PHY, INCD.

**\$149.95** (Add \$4.00 postage, \$10.00 foreign)

Phone [919] 748-8446 or 924-2889

### Eastern House Software

3239 Linda Dr.

Winston-Salem, N. C. 27106

## 6502 MACRO ASSEMBLER AND TEXT EDITOR

- Versions for PET, APPLE II, SYM, KIM and ATARI I (1st quarter 1980)
- Written entirely in **machine language**
- Occupies 8K of memory starting at \$2000 — Apple version with disk occupies just over 9K
- **Macro** and conditional assembly
- 36 error codes, 26 commands, 22 pseudo ops
- Labels up to 10 characters
- Auto line numbering and renumber command
- String search and string search and replace
- Copy, move, delete, load, save, and append commands

**Cassette and Manual \$49.95**  
(including U. S. postage)

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