

Maybe I'll be doing beer commercials...

Gotta write fast! Tee-off time is 9:49. Do you want me to reserve a racquetball court for tomorrow, Donna? I can't today because I have volleyball tonight. Yeah, tonight I'll try to eat a good dinner. On Wednesday I grab a couple burgers (dinner of champions) before bowling... The hike Sunday was really pretty! How was your bike ride? Boy, Robin is getting back in shape! Lifting weights is paying off for her. And Tom is even exercising - it's hard to open the fridge...



P.O. Box 1448,
Santa Barbara,
CA 93102

June 1982

*					*
*	Side	Title	Filename	Turns	Count
*				CTR-41	CTR-80
*					*
*	****	Logo Cover	A	14 & 262	8 & 152
*	** **	LCD	B	94 & 321	55 & 186
*	** **	Millionaire	C	142 & 357	82 & 207
*	****	Tape Ident	D	243 & 438	141 & 254
*					*
*	**	Arcade	A	10 & 260	6 & 151
*	***	Nuclear Plant	B	96 & 323	56 & 187
*	**	Cube (System CUBE /)	CUBE	200 & 403	116 & 234
*	****	Double (Mem 31233 - System D /)	DOUBLE	235 & 430	136 & 249
*					*
*	CLOADing Notes - This tape may load at an ODD RECORDER VOLUME. Set the volume LOWER than normal for your first attempt, then increase it slightly until the tape loads. If the first copy of a program won't load, try the second. That is why it is there. Model I only: Put an AM radio very close to the keyboard, tune it to a non-station, and you can listen to the tape loading in. Adjust the recorder volume so the hash from the computer sounds 'cleanest' during a load.				
*	Model III notes - Load the tapes at the LOW speed (POKE 16913,0). An occasional program will NOT run. There may be upper and lower case goofs in some programs. Arrow keys often are translated as follows: (↑, ↓, ←, →) = ([, \,], ^).				
*	*****				

Oh, no!! Not our name in a cover again!?! What can I say - with Logo Cover, we prove that we too can get in a rut...

And now we take you to the CLOAD School of Brute Force. LCD finds a common denominator of a group of fractions. It does it two ways: 1) The Quick'n'Sloppy method where the denominators are just multiplied together (boo!), and 2) The Long'n'Accurate method where the lowest denominator is added to itself over and over again until the other denominators all divide evenly into the accrued sum, giving the lowest common denominator. I can see you math types out there cringing behind your formulas. However, this is where computers shine - doing repetitious feats over and over again ACCURATELY. Besides, all of my math texts are buried beneath a mound of computer manuals...

So you've written the program of the century and it is going to make you rich! No? You can at least play at being rich with Millionaire. You are given a \$100,000 and you have ten years to make your million with wise investments. As in real life, investing in real estate seems to give the best results, but to make your goal, you gotta gamble with precious metals and stocks too.

Have you ever grabbed a tape with a program on it and couldn't remember whether it was a BASIC or SYSTEM program? Tape Ident to the rescue! Now you can find out what kind of program is on the tape and what the filename is by

just loading the beginning of the tape into this utility.

Save your quarters - Arcade is two games in one! In the first game you try and follow a design as fast as you can without messing up. The second game is a Breakout type of game with a nasty twist: the paddle NEVER stops moving. The games have sound, so take the recorder's AUX plug and plug it into an amplifier.

Are nuclear plants economically viable? You get your chance to run one with Nuclear Plant. This game (?) takes a lot of thought. You decide how much power is produced (will it be bought?), whether to borrow money to increase output, how much equipment to keep on hand (and when to buy it), etc. Can you run it at a profit (give me enough tax dollars...)?

A simple Rubik's Cube simulator - Cube starts out with a 3D representation of a solved cube. You can then rotate the sides of the cube with two key strokes or invert the cube to see the hidden sides. The program is in machine language, so to load it type 'SYSTEM'<enter>, answer the '*' with 'CUBE'<enter> to load the program, and answer the next '*' with '/'<enter>. The save, load, and execute addresses are 28672, 31439, 28672 respectively. The commands are as follows:

T,L,F,R,B or C followed by a +,-, or 2 moves the cube faces.
I inverts the cube. X exits to BASIC.

Precisely, what is Double? Double is for the programmers among you who like things more exact. It is a machine language utility that will return ACCURATE double precision values for the BASIC math functions (ATN, COS, EXP, LOG, SIN, TAN). Unfortunately, it also has many restrictions. So read the notes that follow carefully before trying to use Double:

- 1) It will not work on a disk system!
- 2) Be sure to set the Memory Size to 31233.
- 3) To get a double precision function, preface the normal function with a 'D' (ie: DSIN instead of SIN).
- 4) You can not get a double precision value from the keyboard or through a direct statement. You can only get one by setting a double precision variable equal to a double precision function in a BASIC program. For example:

```
A#=DSIN(X) >> Will not work because it is not IN a BASIC program.
10 PRINT DCOS(9) >> Will not work because it is a direct statement.
10 D#=DEXP(Q): PRINT D# >> This will work.
10 DEFDBL A: A=DTAN(5.78): PRINT A >> This is ok too.
10 A=DTAN(5.78): PRINT A >> This will work, but you'll only get a single
precision value.
10 F#=COS(42.6): PRINT F# >> This will print a double precision value,
but the last 10 figures will be erroneous since the 'COS' was not a 'DCOS'.
```

To load Double, first set the Memory Size to 31233. Then type 'SYSTEM'<enter> and answer the '*' with 'DOUBLE'<enter>. After the program has loaded, answer the next '*' with '/'<enter> and you're off to double your pleasure. The start, end, and entry addresses are 31234, 32749, and 31234 respectively.

Sound on...

Jim Foster of Klamath Falls, Oregon used the following method to get sound on April 1982's Chompers with his Model III:

- 1) RUN Chompers.

- 2) Hit <break> when asked 'Number of players?'.
- 3) Type 'POKE (Q+10),59'<enter>.
- 4) CSAVE (or SAVE) the modified Chompers.

Jus' POKEn' aroun' a bit...

Andy Hoover of Plymouth, Michigan sent in a list of interesting POKEs for the Model I non-disk system:

POKE 16405,0 - Disable keyboard.	POKE 16405,1 - Re-enable keyboard.
POKE 16413,0 - Disable video.	POKE 16413,7 - Re-enable video.
POKE 16421,0 - Disable printer.	POKE 16421,6 - Re-enable printer.

The following POKEs do strange things to your Model I or III computer. Just 'cause I'm a nice guy, I'm not going to tell you what they do. Just try 'em for fun (you may have to hit the RESET button after doing each one):

POKE 16387,1	POKE 16388,1	POKE 16388,20	POKE 16388,191
POKE 16388,200	POKE 16388,255	POKE 16389,191	

Remind me to remind you...

We are doing a lot of work on our duplication system to make our tapes more reliable. This info does not help you if you are unlucky enough to get a bad tape, however. If you are unlucky, just put the tape back in the same envelope with a little note telling us why it is (and we are?) flakey, put 'REFUSED - RETURN TO SENDER' on the outside of the envelope, drop it in the mailbox (no postage necessary in the U.S.A), and we will send you a prompt replacement.

Also, let me remind you that our prices have gone up (you missed your chance...). Subscriptions are now \$50.00 for a year or \$30.00 for six months. Single issues weigh in at \$6.00 each (\$6.36 in California). If you do not live in the U.S., Canada, or Mexico you must add \$10.00 to subscription orders and \$1.00 each to single issues.

But there is good news! The Good Games #1 at \$12.00 (\$12.72 in Calif., \$13.00 overseas) and Adventures #1 at \$13.00 (\$12.78 in Calif., \$14.00 overseas) have not changed in price. These special issues contain some of our favorite programs on one neat little C-45 cassette.

Can you CLOAD a disk?

Do you have strong anti-tape feelings? We do, but distributing our programs any other way has, up to this point, been too much of a hassle to even think about. BUT (what a lovely word...), we have started seriously thinking about putting CLOAD on disk as well. Don't start cheering yet! It looks as though the programs will be sent on a Model I format disk (that means that you Model III'ers will have to have 2 disk drives and use the CONVERT utility). Also, a subscription to the disk version of CLOAD will be about twice the price of the tape version (\$100.00 a year - OUCH!). None of this has happened yet and many things can still change (or be dropped).

Why am I telling you all of this? Because we'd like a little feedback from you... Somewhere in these sheets is a survey with a few questions with fewer answers that you can look at. Feel free to answer them (on this paper or on some other medium). Then feel free to send them to us (or burn them in the fireplace).

Now I'm going to go back and try to load this month's tape...

Dave

From Computer Plus to YOU...
PLUS after PLUS after PLUS



Color Computer Disk Drive
Drive 0 \$470 Drive 1 \$315



Smith Corona TPI
Daisy Wheel \$599



Line Printer VII \$249



Color Computer 16K \$305
w/16K Ext. Basic \$399
w/32K Ext. Basic \$499



Model 16 128K
1 Drive \$4299
2 Drive \$4999



Model III 16K \$799
Model III 48K
2 Disk & RS232 c \$1949

BUY DIRECT Here are just a few of our fine offers...
 call TOLL FREE for full information.

COMPUTERS

Model II 64K	\$3100
Model III 4K LEV I	599
Model III 16K	799
Model III 32K	850.50
*Model III 32K	831.50
Model III 48K	914
*Model III 48K	864
Model III 48K	
2 Disc & RS232 c	2059
Model III 48K	
2 Disk No RS232 c	1749
Color Computer 16K	305
Color Computer 16K	
w/extended basic	399
Color Computer 32K	
w/extended basic	499
*Color Computer 32K-64K	
w/extended basic	510
Pocket Computer 2	230
Model 16 1DR 128K	4299
Model 16 2DR 128K	4999
DT-1 Data Terminal	599

MODEMS

Lynx Direct Connect MI/III	235
Auto Ans./Dial	
Telephone Interface II	169
R.S. Modem I D.C.	130
R.S. Modem II D.C.	210

PRINTERS

Daisy Wheel II	1695
Smith Corona TPI Daisy Wheel	599
Epson MX80	479
Epson MX80 FT	589
Epson MX100	759
Line Printer VII	249
Line Printer VIII	620
Line Printer V	1610
Microline 80	325
Microline 82A	439
Microline 83A	699
Microline 84 Parallel	1090
P.C. Plotter Printer	199

DISK DRIVES

R.S. Model III 15T-Drive	679
Traxx Tandem 40 Track MI	289
Color Computer Drive 1	315
Color Computer Drive 0	470
Primary Hard Disk	3999

SOFTWARE

R.S. Software 10% off list	
Newdos 80 Mill	149
Color Computer Flex D.O.S.	99

ETC.

Verbatim 5" Double Density	32
Verbatim 8" Data Life	49.95
Ctr-80A recorder	52
C. Joysticks	22
16K RAM N.E.C. 200 N.S. chips	15
64K Ram Chips	75

1Mill R.S. Drive 0 Tandem Drive 1
 Color Computer 64K requires
 Disk 0 and Flex D.O.S.

*Computer Plus New Equipment,
 with NEC RAM installed.
 180 Day Computer Plus Warranty

We have the lowest possible
 Fully Warranted Prices AND
 a full complement of Radio Shack
 Software.

DEALER INQUIRIES ARE INVITED
 Prices subject to change without notice.
 Not responsible for typographical errors.
 TRS-80 is a registered trademark of Tandy Corp.

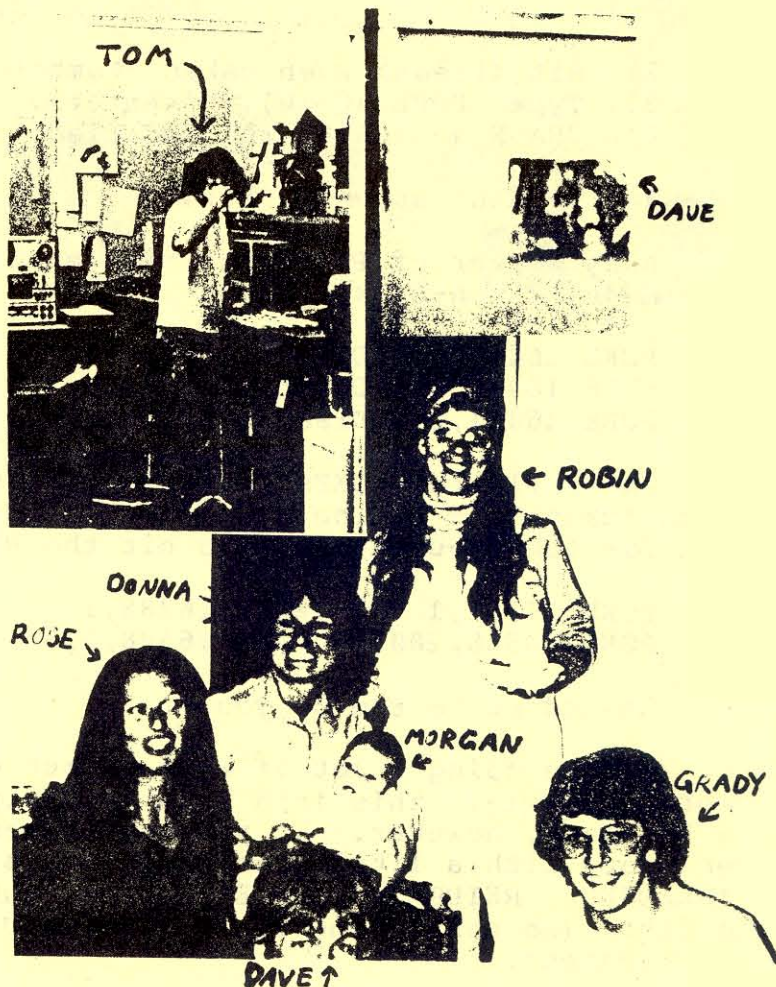


Call TOLL FREE 1-800-343-8124

computer plus

245A Great Road
 Littleton, MA 01460
 617-486-3193

Write for your
 free catalog



THE ALTERNATE SOURCE

Spellbound

Shoot-em-ups not your style? Consider Spellbound, a sophisticated word game that will both "please" and "astound"; "please" because you will always have a capable partner at the flip of a switch and "astound" because you can demonstrate the superior capabilities of your TRS-80. Spellbound conducts a word search using its 12,000 word on-line dictionary in less than a minute. Words are extracted from a matrix of random letters by both you and your TRS-80. One to six humans can play; the word matrix is designed using a unique graphic configuration. The ideal demonstration program for your pedantic friends. Spellbound is written in a combination of Z80 and Fortran; original purchasers can also purchase the source code for an additional \$10. Sorry, this program only comes on disk. Both Model I and III versions are included for \$19.95. Because of critical real-time task processing, this program will not work with Newdos/80.

TASORT The Alternate SORT

TASORT is a high speed sorting program, designed for easy use in BASIC programs that need powerful sort capabilities. TASORT is fast, sorts up to 65 arrays simultaneously, sorts any combinations of

variable types, is completely relocatable, respects high-memory, and will sort ascending, descending and tag-along. TASORT works with all Model I and III configurations, tape and disk, and is the perfect bridge for making your programs 100% compatible with all environments. TASORT is \$19.95, tape or disk. Write for information on licensing TASORT for your commercial applications.

Modem 80

Need a top quality terminal program that works under a variety of environments? Modem 80 and its support packages have the TRS-80 talking with dozens of systems, both micros and mainframes. A special protocol permits easy and reliable communication with CP/M systems, too! Modem 80 allows you access to DOS commands while online, route screen displays to your printer, change all local communication parameters at any time, upload and download, send files larger than memory (if the other system recognizes XON and XOFF protocol), and even includes a HOST program so that you may access your unattended TRS-80 from a remote site. Four separate translation tables are included for communication output, video, printer and disk files. These are user modifiable. The Modem 80 package of seven programs and user's manual is \$39.95. This program is one of our best buys!

Information Storage And Retrieval

ISAR I, Version 2.0, is the ideal beginning data base manager. ISAR allows you to create data files to your specifications and add, change and scan records as desired. Version 2.0 features include: Sorting of all ten fields at once; reports are generated by a

small BASIC program generated by your response to prompts (this allows your printer to work at the fastest possible speed and reports only need be defined ONCE); reports support titles, page numbers, column headings, footers, literals, end of file totals, special control characters LPRINTed before the report and more; documentation has been expanded to cover items such as error trapping, utilization of disk space, sample user sessions and information about how ISAR stores the information necessary to access a file (making conversions between ISAR and other data base managers easier). ISAR I, Version 2.0, complete with all enhancements and documentation, \$39.95. (Unregistered ISAR Expanded Users: Upgrades available!)

The Alternate Source Programmer's Journal

A software toolbox for your TRS-80 Model I and III. Each issue of TAS features utilities and applications that enhance your investment in the revolution. And more. We tackle comparison reviews, Model I/III compatibility, useful patches for popular programs, modifying BASIC, using Z80 assembler and many other languages. The Alternate Source is \$24 for 12 issues. If you haven't seen our journal, request a sample copy with any product on this page.

Thanks for reading our ad! TAS is located at 704 North Pennsylvania, Lansing, MI 48906. Phones: (517) 482-8270 and (800) 248-0284 (order-line). Check, Money Order, Visa, MC, COD (\$1.75 extra), and written P.O.s welcome. We also stock several hundred programs from other vendors. Ask for a copy of the latest TAS flyer. Dealer inquiries welcome.