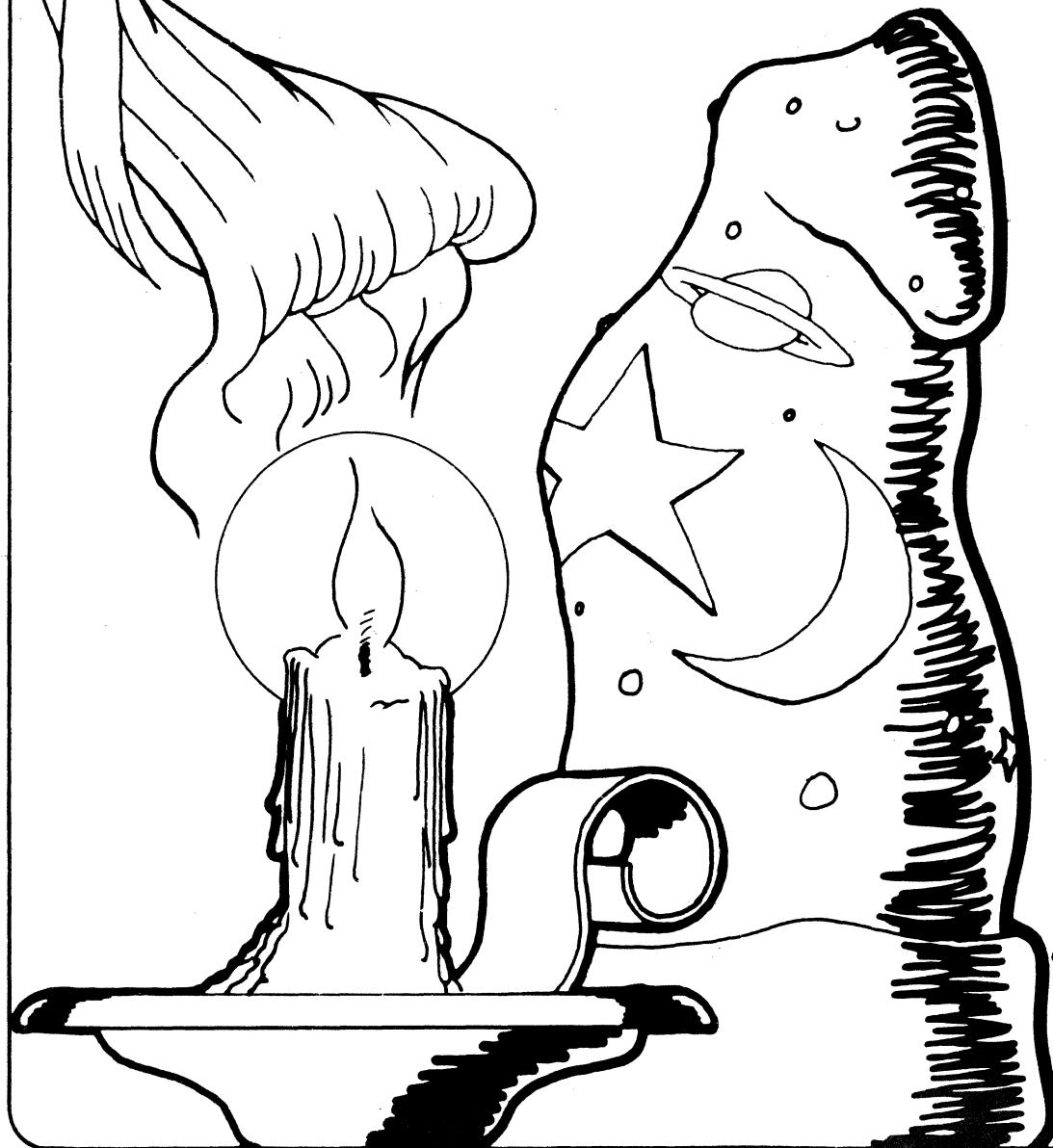


ARESCO Sorcerer's Source



VOL 1

ISSUE 2

AUG 1979

\$2.00

E D I T O R I A L

by Terry Laudereau

At last we make it to press with issue #2, thanks to all of you who contributed information. We're especially grateful to Gino J Piazza (see his letter on page 5), who sent in almost all the vendor information we've printed here. Unfortunately, in order to make everything fit in the issue, we had to split Gino's information into several pieces. But we figure he deserves more than just honorable mention! Gino has, in general, been a great help to us. Thanks.

On another front, we have conflicting stories about the user group from Computer Mart of Waltham. First we hear that Bruce McGlothlin is working on the Monitor (their newsletter) and then that he's no longer with the store. As of this printing, we haven't had any luck reaching anyone there to give us the true story... maybe by next issue we'll know more.

The SOURCE is a national user group newsletter dedicated to owners of the EXIDY Sorcerer personal computer. The SOURCE will be published at least six times, and as many as ten times per year by ARESCO Inc., at 6303 Golden Hawk, Columbia MD 21044. Single copy price is \$2 and subscription price is \$15 for all 10 issues of the current volume. Subscriptions do not carry over from one volume to the next. Subscribers who wish to order less than the full volume should send \$2 for each issue desired. Renewals are accepted during the last two months of the current volume year, and the first issue of each volume is published in May. Entire contents of the SOURCE copyright 1979 by ARESCO Inc. POSTMASTER: Send all address changes to THE SOURCE, Box 1142, Columbia MD 21044.

THE SOURCE is an ARESCO Inc. publication. Editor: Terry Laudereau. Co-Editor: Rick Simpson.

Readers are encouraged to submit articles of general interest to SORCERER owners for publication in the SOURCE. Material submitted will be considered free of copyright restrictions. Those submissions received by the 10th day of a month will be considered for inclusion in that month's issue.

SUBSCRIPTION RATES:

USA residents: \$15/10 issues. Non USA residents should include an additional \$10 for Air Mail postage. If such

postage is not included with the order, the newsletter will be sent second class with the remainder of the mailing. Purchase orders will not be accepted. If subscriber specifies UPS COD the first issue will be sent COD with the collectible amount to be \$15 plus a \$1 COD charge plus shipping costs. Personal checks, Master Charge, and VISA orders are accepted. Checks drawn on foreign banks should be payable in U.S. Dollars.

ADVERTISING RATES:

Classified Advertising: \$10/3 lines of 60 characters each.

Page Rates:

Full Page	\$65
Half Page	\$45
Quarter Page	\$25

Payment must accompany ads. Ads should be camera ready positive artwork. If our printer charges us extra for preparing your ad copy, we will bill you at cost + 10%.

The entire contents of the SOURCE are copyrighted by ARESCO Inc. Please do not make copies for your friends.

Dealers are invited to request the ARESCO Inc. dealer information package by writing in care of Dealer Services.

L E T T E R S

Dear Rick & Terry -

I recently purchased a Sorcerer, and I'm quite happy with it. However, I have a problem or two I'd like some help with.

The Sorcerer produces interference with local TV reception. This is not peculiar to my machine, as I have a friend who has the same problem with her Sorcerer. Since this is likely to get Exidy into trouble with the FCC, I'm sure there must be a way of correcting it - but what is it? Second, I can't use string arrays of more than 66 characters. Despite CLEAR 255, and a response to FRE(X\$) of 255, entering more than 66 characters in a string locks up my computer completely. This is true even if I try to get back the string using the string modifier functions. Is there anything I can do about this? Third, I want to use the Sorcerer as a dumb terminal. I am communicating with a large computer that has a 72 character line default. Do you know of a patch that will enable the Sorcerer to fold over to the next line when it is receiving? I'd also like to hook in a bell to warn me when I'm approaching the end of a 64 character line. Any suggestions? And, finally, I've discovered that Sorcerer owners who try to use the function USR(X) listed in the BASIC Manual may have difficulty. In the technical manual, Exidy explains the addresses that must be entered with POKE statements before the USR function will work. - Leslie Zatz

NEWSLETTERS & USER GROUPS

The Exidy Monitor, a newsletter sponsored by the Computer Mart of Massachusetts, is directed towards those of you who are more experienced in the art of computing. While the Source directs its attention to the beginner, the Monitor is dedicated to the "hacker" - and contains a lot of good information. Contact Bruce McGlothlin, Coordinator, at 1395 Main Street Waltham MA 02154 for information on subscription prices and ordering. If you really want to dig into the innards of your machine, the Exidy Monitor is for you.

S.P.E.C. is a newsletter out of the UK - and it seems to be as beginner-oriented as the Source. We got a lot of neat tid-bits of information from the first issue we received, and suggest that you might find it valuable as well. Write to G F Counsell and M P Hannaby, 65 Trafalgar Road, Birkdale, Sourhport, Merseyside, England, PR8 2NJ for subscription price and ordering info.

NEW PRODUCTS

Vic Tolomei, 1203 N Myers St, Burbank, CA 91506, offers a full Z80 disassembler, a complete graphics plotting package, and a challenging Maze program. Write to Vic for ordering and delivery information - his literature is tantalizing!

L E T T E R S

Dear Rick and Terry -

I've tried to use the CSAVE* function to record data, but it just won't work reliably for me. Any suggestions? According to the dealer, there's a glitch in the software that was supposed to be fixed (that was three months ago, and no word from Exidy so far!). I have to put all my data into DATA statements, and that's a nuisance. If I had some way to link programs - that is, join two pieces of programs together - it would be a big help. I've had two problems with the Sorcerer...one was solved by the dealer (a new regulator) and the other was apparently due to overheating. I cured it myself by moving a power resistor over to the edge of the chassis. I have the Hitachi monitor with the Pickles & Trout conversion, which I did myself - nice! I can get music while I use the Hitachi as a video monitor. What is the TAB/SKIP key for? - W F Corse

(We've asked the same question! Will let you know ASAP. - T & R)

Terry & Rick -

I'm enclosing a copy of a program I wrote to locate the values for specific keys to develop graphics characters in BASIC with POKE statements....it should be useful to Sorcerer owners. I'd like to see an unclassified ad section added to the SOURCE so readers could swap Exidy related ideas and equipment among each other. And could you publish a disassembled version of the monitor and BASIC interpreter? I've tried in vain (as I'm sure other users have) to understand the machine language subroutines, and sure wish I had the mnemonics in front of me! - Brian McDonald

(We'll check with Exidy....here's a listing of your program - T & R)

UTIL1 - by Brian McDonald

LIST

```
10 PRINT TAB(10) "UTILITY PROGRAM BY BRIAN MacDONALD"
20 PRINT:PRINT:PRINT:PRINT"THIS PROGRAM GIVES YOU THE NUMBERS IN
BASIC"
30 PRINT"FOR EACH KEY TO CREATE GRAPHICS CHARACTERS"
40 PRINT:PRINT:PRINT"-----
-----"
100 V=-512
110 PRINT"POKE VALUES FOR GRAPHIC-SHIFT KEYS"
115 PRINT:PRINT
120 FOR I=1 TO 64
130 GOSUB 600
140 NEXT I
150 PRINT:PRINT:PRINT
160 PRINT"POKE VALUES FOR GRAPHIC-ONLY KEYS"
165 PRINT:PRINT
170 RESTORE
180 Z=-1024
```

```

190 FOR I=1 TO 64
200 COSUB 500
210 NEXT I
400 END
500 READ N$;PRINT N$;"      ";
510 FOR M=1 TO 8
520 PRINT Z;
530 Z=Z+1
540 NEXT M
550 PRINT:PRINT
560 RETURN
600 READ N$;PRINT N$;"      ";
610 FOR Q=1 TO 8
620 PRINT V;
630 V=V+1
640 NEXT Q
650 PRINT:PRINT
660 RETURN
700 DATA 1,2,3,4,5,6,7,8,9,0,*,-,^,TAB,Q,W
710 DATA E,R,T,Y,U,I,O,P,[,],A,S,D,F,G,H
720 DATA J,K,L,+,`,-,Z,X,C,V,B,N,M,(,)
730 DATA ?,-,7,8,9,9,/,4,6,*,1,2,3,+,0,.,=
READY

```

Dear Rick & Terry -

In an article I wrote for the SOURCE (see it later in this issue) I mentioned how the Sorcerer goes under two names. I recently wrote to PSC and asked why their version goes under the name of PS-80, and I got this reply: "In reference to your inquiry about our PS-80 label; we are distributing our products exclusively through independent consultants, which requires a separate identity from our manufacturer, EXIDY Inc. We carry almost all of EXIDY's products as well as the products from a number of peripheral manufacturers. This allows us to offer a wide choice to our consultants to cover varied needs. Sincerely yours, Mike Flynn, Manager". Just wanted to share this info with other SOURCE readers who might find it interesting. - Gino J Piazza

Dear Rick & Terry -

Don Roberts' PLANE program was very interesting and amusing, but required considerable time to enter into my computer. It would be nice to exchange tapes with either ARESCO or the author...Even the SOURCE (at a later date) could be on tape or disk! Keeping us up to date with accessories for the Sorcerer would be helpful - possibly product testing? A hot-line to EXIDY would be useful (especially an 800 number). - Edward Brzezowski

Dear Rick & Terry -

Just for the fun of it, try this (I call it "Ants in Sugar"):

10 FOR I=1 TO 1920	40 I=RND(1)*512
20 PRINT CHR\$(RND(1)*64+192);	50 POKE -512+I,RND(1)*256
30 NEXT I	60 GOTO 40
	70 END

- Tom Harper

BLINK'IT

by Donald Depres

Something flashing on the computer screen is definitely more eye-catching than a static message (Translation: plain old one-shot PRINT execution). I do the usual error check in my programs to see if the user is giving a valid response.

If the user gives something wrong, just cycling back to repeat the INPUT message & prompt ain't (sic) good enough for me.

I want something to .(.FLASH.). back at the operator to really get attention. So I do a routine called BLINK 'ERROR' MESSAGE.

It's neat to watch the error message flashing (I often give wrong responses intentionally -- the blinking fascinates me).

* * *

```
230 PRINT: PRINT: PRINT  
240 INPUT " GIVE ME A VALUE FOR R"; R  
250 IF R<1 OR R>10 THEN 900: REM...ERROR...  
  
* * *  
  
880 END  
890 :  
900 REM ---BLINK ERROR MSG  
910 PRINT CHR$(23); TAB(64); CHR$(23)  
920 FOR BLINK=1 TO 3  
930 : PRINT " ...E R R O R..."  
940 : FOR J=0 TO 300: NEXT: REM...DELAY BLINK 'ON'...  
950 :  
960 : PRINT CHR$(23); TAB(64); CHR$(23)  
970 : FOR J=1 TO 200: NEXT: REM...DELAY BLINK 'OFF'...  
980 NEXT BLINK  
990 :  
1000 PRINT CHR$ (23): PRINT TAB(64); CHR$(23)  
1010 PRINT " NUMBERS 1-10 ONLY, REMEMBER ?"  
1020 FOR J=1 TO 1500: NEXT  
1030 PRINT CHR$(23); TAB(64); CHR$(23)  
1040 GOTO 240: REM...REPEAT INPUT PROMPT AGAIN...
```

* * *

CHR\$(23) moves cursor to beginning of current line

TAB(64) 'erases' current line with all spaces

When you want to keep the rest of the screen undistrubed, the semicolon (;) structure in lines 910, 960 & 1000 keep everything happening on the same line. Experiment with the semicolon and see what happens -- drop some, add one after the 2nd "CHR\$(23)", etc.

Experiment with defferent 'ON' & 'OFF' delay values for J in lines 940, 970, & 1020. I like my 'OFF' a bit shorter than the 'ON'. Try different J values, reverse the ratios, or make 'ON' & 'OFF' times equal to suit your taste.

You can do a lot more than just the ERROR message, too. You can...

- blink a request for s command (INPUT) from a menu
- blink a .(.(RED ALERT).). status in a Star Trek game
- use it as a positive reinforcement (reward) in teaching programs.
 - e.g. flash .(.(VERY GOOD).). for a student's right answer

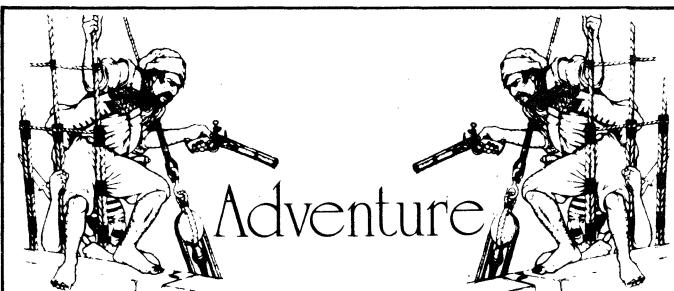
Now it's your turn. Can you improve it? I'm not satisfied with just a finite number of blinks (BLINK=1 TO X). An INPUT statement puts the digital brakes on and brings the program to a screeching halt.

Anybody out there know how to keep the message blinking indefinitely till the user repeats the INPUT?
Is there a way to keep executing the blink routine while checking for new keyboard INPUT? (Input & Output ports??)

Simplexity Software Systems is offering a free catalog of small business, home, & educational software for the Sorcerer. Write to SSS at P O Box 501, Hiram OH 44234

Another company offering software for the Sorcerer is BASICALLY SPEAKING. Write for infor to 719 Anna Lee Lane, Bloomington IN 47101.

Sorcerer User Groups should send their names, addresses, and contact person's names to the SOURCE for listing in this newsletter.



Talked about at NCC '79, the Cover Feature of the August '79 CREATIVE COMPUTING, highly rated by COMPUTER CASSETTE Magazine and others, ADVENTURE by Scott Adams has rapidly become a classic, each ADVENTURE is a 16K machine language program designed for you, the Armchair Adventurer! See for yourself what everyone is talking about and order a copy of Adventure #1 or #2 today from our many fine dealers or order directly from:

ADVENTURE INTERNATIONAL
Box 3435, Dept. X
Longwood, Florida 32750
(305) 862-6917

Each Adventure, only \$14.95, Visa and Mastercharge accepted, Send For Free Flyer
Dealer Inquiries Encouraged
Available for: 16K TRS-80, 16K SORCERER,
24K PET (Basic Version Only)

DIRECT CURSOR ADDRESSING
and
INVERSE VIDEO CHARACTERS

by H Joseph Turner

```
10 REM DIRECT CURSOR ADDRESSING routine
20 REM
30 REM by Joe Turner 5-22-79
40 REM
50 REM Computer Systems Center
60 REM 13461 Olive Blvd.
70 REM Chesterfield, MO 63017
80 REM (314) 576-5020
90 REM
100 REM Calculate storage locations:
110 REM
120 MT=PEEK(-4095) : REM MS byte of top of RAM
130 VL=MT*256+249 : REM storage for vertical (LS byte)
140 VH=VL+1 : REM " " " (MS byte)
150 HL=VH+1 : REM " " horizontal
160 REM
170 SC$=CHR$(17)+CHR$(23) : REM suppress cursor command
180 REM
190 REM
200 H=32 : REM horizontal position (0-63)
210 V=15 : REM vertical position (0-29)
220 REM
230 GOSUB 9000
240 REM
250 PRINT "TEST"
260 REM
8999 END
9000 PRINT SC$; : REM kill cursor
9010 IF H<0 OR H>63 THEN 9040 : REM range filter
9020 POKE HL,H : REM set horiz. pointer
9030 REM
9040 IF V<0 OR V>29 THEN 9110 : REM range filter
9050 VE=INT(V)*64 : REM calc. vert. pointer
9060 HI=INT(VE/256) : REM get MS byte
9070 LO=VE-HI*256 : REM get LS byte
9080 POKE VH,HI : REM set vert. pointer
9090 POKE VL,LO : REM " " "
9100 REM
9110 RETURN
READY
```

1000 REM INVRS
1010 REM
1020 REM utility program to allow use of
1030 REM inverse (black on white) video
1040 REM characters on the Sorcerer.
1050 REM
1060 REM
1070 REM by Joe Turner 5-23-79
1080 REM
1090 REM Computer Systems Center
1100 REM 13461 Olive Blvd.
1110 REM Chesterfield, MO 63017
1120 REM (314) 576-5020
1130 REM
1140 REM
1150 REM "
1160 REM "
1170 REM
1180 REM
1190 REM The inverse-video characters produced
1200 REM by this program are really graphics
1210 REM symbols, and must therefore be used
1220 REM in strings and print statements, and
1230 REM not as command words or statements in
1240 REM BASIC or other languages.
1250 REM
1260 REM Use the 'TAB' key for spaces, as the
1270 REM space bar does not generate graphics
1280 REM characters.
1290 REM
1300 REM
1310 FOR CH=32 TO 126
1320 READ WB
1330 FOR R=0 TO 7
1340 POKE WB*8 + R - 1024 , 255 - PEEK(CH*8 + R - 2048)
1350 NEXT R
1360 NEXT CH
1370 REM
1380 DATA 13
1390 DATA 64,65,66,67,68,69,70,71,72
1400 DATA 74,99,46,11,47,48
1410 DATA 9,0,1,2,3,4,5,6,7,8
1420 DATA 10,35,110,75,111,112,36
1430 DATA 90,107,105,92,80,93,94,95,85,96,97,98,109
1440 DATA 108,86,87,78,81,91,82,84,106,79,104,83,103
1450 DATA 24,37,25,12,38,100
1460 DATA 26,43,41,28,16,29,30,31,21,32,33,34,45
1470 DATA 44,22,23,14,17,27,18,20,42,15,40,19,39
1480 DATA 88,101,89,76
1490 REM
1500 REM
1510 REM Some of the characters produced by this
1520 REM program overwrite the pre-defined graphics
1530 REM characters. This means that if you hit
1540 REM 'CLEAR' or send a form-feed character
1550 REM to the display, you will need to re-run
1560 REM this program to get the inverse-video
1570 REM characters back.

READY

From S.P.E.C., we receive the following information:

	? CHR\$(12) to CLEAR SCREEN
	? CHR\$(17) HOME CURSOR
	? CHR\$(13) CARRIAGE RETURN
	? CHR\$(1) CURSOR LEFT
	? CHR\$(19) CURSOR RIGHT
	? CHR\$(10) CURSOR DOWN
	? CHR\$(23) CURSOR UP
SHIFT GRAPHIC	1 STR\$
	2 VAL
	3 ASC
	4 CHR\$
	5 LEFT\$
	6 RIGHT\$
	7 MID\$

It may be easier to copy listings if you reduce the print speed:

BYE
SE S=FF
PP

Then return to normal printing speed with SE S=0

To print information which is normally displayed on the screen to a Centronics printer (using a BASIC PRINT statement), POKE 32720,147. To return to normal operation, POKE 32720,240.

You can simulate the BASIC "GET" command via USR with the following code:

BYE
EN 0000
CD 18 E0 CA 00 00 32 0A 00 C9

Depression of a key gives the ASCII code in PEEK(10) before the user statement POKE 260,00:POKE261,00. This routine waits for a key to be depressed before going on with the program.

The following code does not wait for a key to be depressed, and therefore might be more useful in arcade-type games. The ASCII code is in PEEK(7):

BYE
EN 0000
CD 18 E0 32 07 00 C9

By using A=USR(0):? CHR\$(12), the screen will flash white if you've entered this little routine:

BYE
EN 0000
21 80 F0 01 00 09 3E C0 77 23 0B 3E 00 80 C2 06 00 C9

S.P.E.C. also offers about two dozen programs, but we weren't given any information on how to order them or what the prices are. The implication is that the programs are exchanged between members of the Sorcerer Users Club in the UK, but I'm sure that we can get them here in the US if we're willing to pay the costs. On the next page is a copy of their program list - if enough of you are interested obtaining the programs, perhaps we can arrange to buy the tapes through the SOURCE and offset some of the costs.

<u>NAME</u>	<u>DESCRIPTION</u>	<u>AUTHOR</u>
* GAMES		
Fight	Shoot down the alien space craft	J Clegg
Mine	Pick your way through a deadly minefield	C Morle
Lunar	Try your hand at landing the LEM	"
Golf	Gives you 18 holes of golf	"
King	Rule your own kingdom - beware of rebellious serfs!	"
Draughts	Plays a fair game of checkers	GFC/MPH
Othello	A reasonably good game	"
Master Mind	Provides AND cracks codes	"
Zombie	Try to survive on Zombie Island	"
Death Star	Play Luke Skywalker & destroy the Death Star	J A Fisher
Star Trek	Fight the Klingons in Galactic Space	"
Stock Market	Play the market	E Botterill
Gunner	Fire a field gun to knock out the enemy	"
Rectangles/Triangles And Squares	Produces video-wallpaper	F Bamforth
* SCIENTIFIC		
Cartesian Graph	Plots curves on Cartesian Axes	GFC/MPH
Polar Graph	Plots curves on polar axes	"
Fourrier Analysis	Synthesizes curves using SIN/COS	T Marsland
Plot	Plots co-ordinates on Cartesian axes	D P Oulton
* EDUCATIONAL		
Q & A	Develops an identification network of questions for different animals	GFC/MPH
Test Grader	Marks tests	E Botterill
Improve Typing	Improves typing speed	"
* BUSINESS		
Mortgage	Calculates mortgage repayments	E Botterill
Bank Statement	Checks cheque stubs against balance	"
* GENERAL		
Character	Helps define Sorcerer graphics	H W Young
Calendar	Displays days and dates	E Botterill

There are many more programs in the works, and we should get an update in the next S.P.E.C. Bulletin. Again, if we ask for these programs as a group, we'll offset some of the shipping and customs costs. If we "import" one of each tape, then make copies here at ARESCO, we can amortize the costs over several purchasers, thus keeping each person's cost minimal. If you're interested, let us know.

NEW CONSUMER COMPUTER INFORMATION SERVICE ANNOUNCED

Computer customers from San Diego to Santa Barbara, California may dial a toll-free number and reach the Consumer Computer Information Service, newly implemented by the Southern California Computer Dealer Association (SCCDA). The friendly voice answering the phone is not a computer, and it will ask the caller his city, then give the names, addresses, and phone numbers of the three nearest computer stores. The number to call is 800 432-7257 - extension 815.

The SCCDA was formed in September, 1977, and currently has 30 members. Computer dealers in the region can contact SCCDA thru Carl Burlin, president, at (714) 524-5380, or Glen Dollar, the treasurer, at (213) 360-2171, or by writing to SCCDA at 10723 White Oak, Granada Hills, CA 91344

Terry - After that pleasant phone conversation on Wednesday, I thought I should write and get down some input. The Sorcerer is a true hobby-type computer as it stands now. It has a few drawbacks that can be annoying:

1. No line renumbering or character deletion
2. Unable to store data or strings on another cassette
3. Standard BASIC is too minimal.

I also had hardware problems when I got the unit. After two hours, when it got real hot, it wouldn't work with any PRINT CHR\$ statements. It would print strange graphics. I solved it by installing a mini-box fan for better cooling. The shift-lock key worked intermittently - I fixed that. My kids would leave the machine running all night, and no one would know it was on unless the monitor was turned on. Solution: I installed two LED indicator lamps. I've ordered the technical and software manuals from Exidy, mainly because I want to do some ML programming and understand more about the language. The development and word processing pac are coming also. I was able to get a complete schematic of the Sorcerer and a prototype copy of the tech manual. I've written some software and have copied a lot more. The only software I purchased was Creative Computing and G-2. G-2 isn't very good: no real graphics, a few bugs. CC was really good - the best graphics I've seen, and real fun and games.

I've started to fool around with PEEK, POKE, and USR, and I'd like to know what anyone else is doing - especially in the way of setting up machine language calls. Anyone wanting software can write to me. I'll send a list if they send a SASE. I'll even copy the software for them FREE - if they send me a blank cassette and a stamped mailer. Or, since I don't have a printer yet, I'll trade a good program for a printer copy of one of my poor programs so I can sit down and debug it. By the way - Bruce McGlothlin is no longer with Computer Mart of Waltham. And - I have two machines. I'll sell the 8K version for \$725. - Jack MacGrath, P O Box 5, Billerica MA 01821



NEWS RELEASE

FOR IMMEDIATE RELEASE:

EXIDY TO SPONSOR SOFTWARE CONTEST

Exidy, Inc., the makers of the Sorcerer™ microcomputer, will sponsor a contest for microcomputer programs this summer. Four Sorcerer computers will be awarded as grand prizes.

The purpose of the contest is to encourage people who have written good programs to share their programs with other computer owners. Exidy will publish a book of the best programs entered in the contest.

The contest is open to all Basic Language computer programs which will run on the Sorcerer. This is probably quite a large pool of programs, since the Sorcerer's Standard Basic is compatible with 4K and 8K versions of Altair Basic which have been in use since the early days of microcomputing.

Prizes of free computers will be awarded to the program judged best in each of four categories: Business, Education, Fun & Games and Home/Personal Management. Every entrant will be rewarded with a free poster and professionally-written program in trade for the program they submit.

The contest will run from June 1 through August 31, 1979. Advertising in many microcomputer magazines will carry details.

FOR FURTHER INFORMATION CONTACT:

Mr. Paul Terrell
Marketing Communications
Exidy Inc.
969 W. Maude Avenue
Sunnyvale, California 94086

NEW PRODUCT ANNOUNCEMENT

Creative Discount Software has announced the opening of a new SOFTWARE OF THE MONTH CLUB, a natural extension of the firm's other large volume software distribution programs. The new Software Club will have a separate branch for each of the personal computers, and members will select Division memberships within their selected branch. Such divisions as Business, Education, High-level Languages, Games and Fun, and Personal & Home Management applications will comprise the divisions.

The Software Club will utilize the negative option sales program used currently by book and record clubs, and will capitalize on volume purchasing power to offer favorable prices to members. Since Creative Discount Software is a distributorship rather than a producer of software, it can select the best programs available for Software Club members.

Membership enrollment applications are available from Creative Discount Software, Software Of The Month Club, P O Box 24-B-67 Los Angeles, CA 90024

CP/M Users will be interested in a keyed file management system called MAGSAMtm, designed by Micro Applications Group of 7300 Caldus Avenue, Van Nuys, CA 91406. MAGSAM enables users of CP/M and CBASIC to create and access data records quickly and directly, using user-defined keys. Records may be retrieved randomly or sequentially or generically; chronologically or by record number - all by selecting the correct key field. Records may be created randomly or sequentially by key, and updated by any of the retrieval methods. Optional features include support for multiple data paths through the use of multiple keys and secondary indexes, and real-time record and key delete capability with automatic reclamation of free space.

According to the literature provided, there are three versions of MAGSAM: Version I is the entry level version and supports single key file structures with deletes performed by file reorganization; MAGSAM II is a single key implementation with full delete support; and MAGSAM III is the most advanced version, supporting multiple keys, secondary indexing, and full delete capability.

MAGSAM runs as a subroutine to CBASIC programs, and requires 6K of memory, over and above that occupied by the operating system and the calling program.

All three versions of MAGSAM are available on standard 8" Micropolis diskettes in source form. Prices run from \$75 for version I to \$145 for version III. The user guide is available separately for \$15. Write for ordering and delivery information to Micro Applications Group, 7300 Caldus Avenue, Van Nuys CA 91406

MAGAZINE PROGRAMS BOMB

by John T Hill

Are you like me? Do you buy magazines about computers? Find a good program, start typing, and then find out it won't work? Here's a list of some of the problems I've encountered.

1. Magazine: BYTE, July, 1979
Program: Quest
Problem: Syntax error in the listing at line 6210
`6210 IF D<>70 THEN PRINT' DEBUG';N;'TO;I`
(apostrophes instead of quotes; missing any punctuation after word TO)
2. Magazine: ON COMPUTING, Summer, 1979
Program: Checkbook Balancing in BASIC
Problem: Seven errors in code for the Sorcerer. For example, line 255 says IF...THEN...ELSE - and it doesn't work.
3. Magazine: CREATIVE COMPUTING, Jan/Feb, 1977
Program: Drag
Problem: Line 20 has brackets instead of parentheses in a DIM statement. In line 480 Q1=Q2=Ø - and the machine does not see the zero.

These are just a few of many programs that I've started and couldn't get running - couldn't even get help. They just wait to be fixed. Finally, I got tired of typing the programs in, so I bought a program ("Map") for \$9.95 from Public Computing, Inc. The program had two errors in it. I asked the store for help, and was told to write to the manufacturer.

On top of all that, I get pressure from my wife, who wants to know why I don't have a checkbook balancing program!

I enjoy my copies of the Sorcerer's SOURCE - at least I can type in and run the programs. Maybe if we Sorcerer owners could write to SOURCE about our problems (like the 480 Q1=Q2=Ø problem), someone else could write in with the answer: That two lines are needed; 480 Q1=0 and 482 Q2=Q1.

The Sorcerer is a new computer, and I'm afraid its growth will be stunted if we don't get a good support group going. We all need a place to write for help, and the SOURCE is the best bet going.

Creative Computing is seeking programmers to produce specific programs that meet their specs, on a part time basis. Should have a disk system, accept payment by the jobs completed. Send three sample programs (CC will keep them) to show what you can do to Creative Computing, P O Box 789-M, Morristown, NJ 07960

USER'S GROUP

Gaeus is a monthly cassette tape with at least ten programs each with such topics as: Home Economics-Business-Trivia-Games-Language Computer)- also programs in Math, Physics, Geography, Chemistry, Recipes, Nutrition, Speed Reading, Buzz Phase Generator, and much more. The back of the cassette, besides having recipes, tables or charts, will also have short stories and editorials with speed control so you can train speed reading. The introductory price is \$30.00 per year. Write to Gaeus, Box 113, Ozone Park, NY, 11417

Creative Computing is seeking programmers to produce specific programs that meet their specifications. The jobs are part time. Preferable a disk system is desired. Payment is negotiated by the job. Applicants for this type of work should send along three sample programs that they have written (which will be kept by them). For information write to Career Opportunities, Creative Computing, P.O. Box 789-M, Morristown, NJ, 07960.

CRC

by John T. Hill

Does C.R.C. error cause you to blow your stack? Well all is not lost. Here is a trick I use to save most of the program. When the word "loading" shows up on the screen, I count the seconds.

Here's how I count, one one thousand, two one thousand, and so on, until the CRC error shows up on the screen.

Write down how long it took for CRC to show up. Rewind tape and start over, count the seconds after the word "loading" shows up on the screen then just before and as close as possible to the time counted, press "CTRL" key with "C" key. You will see on the screen " ", type PP then you will see "Ready" show up. Type "List" and you will see most of your program.

SOFTWARE VENDORS

Public Computing, Inc., offers six cassette programs using the Sorcerer's graphics capabilities.

Programs available are: Blackjack; Biorhythm; Sub/Ship Chase Compucards; Atom; and Map.

These programs are available at \$9.95 each or \$19.95 for a set of three. For information write to: Public Computing, Incorporated, #10 North Earl Avenue, Lafayette, IN, 47904.

HEALTH CARE SYSTEMS MANAGEMENT SERVICES

by Tom H. Swalenberg

I am writing to request everyone's assistance in a dual objective project I am undertaking.

My project is to establish correspondence communications with individuals and/or firms involved in or interested in development of microcomputer applications for various areas of the health care industry. These people as a group I will refer to as "health care microcomputer entrepreneurs", which describes my own area of microcomputer endeavors.

Second, I would like to arrange to meet with any of these people, as individuals and/or as a group, who are planning to attend 'Personal Computing '79' in Philadelphia Oct. 5, 6, 7, 1979; as announced in the July 79 issue of Interface Age magazine.

I would like to receive letters concerning the interests of anyone who is interested in participating in either or both of these communications efforts. These "health care microcomputer entrepreneurs" might be persons with or without microcomputer experience and with or without some background experience in the health care field. They may be hardware, software, or idea oriented persons and they may or may not be health care professionals such as doctors, nurses, business, and personnel specialists. Also, their particular microcomputer and computer programming media is not, at this point at least, important.

I have some ideas about approaching this area of endeavor that may be mutually interesting and profitable to anyone interested in this area of microcomputer applications development.

Since October 5th, in terms of arranging to meet with these interested people, is not far off, I would appreciate it if you could announce it in your newsletter and to your local members at your earliest opportunity so that I may receive some indication of response volume in time to attempt to make appropriate arrangements for a meeting at or during the Philadelphia show week end.

All persons replying should indicate whether or not they are agreeable to being put on a mailing list which will be distributed to all those who wish to participate and send a #10 SASE. Those persons who are not planning to attend 'P. C. '79' but wish to participate can receive information regarding developments, if any, that result from this endeavor by sending a #10 SASE. Responses and inquiries which do not indicate specific wishes to be left off the mailing lists will be included.

In the event your next issue will be too late to permit mail response I can be reached by phone between 9:30 and 11 A.M. or during the same hour in the evening. I will also leave information regarding contacting me or any meeting arrangements with the 'P. C. '79' information service which I will check with periodically during the show. Direct and immedi-

iate responses are desireable regarding any meeting efforts so that arrangements can be made if possible.

If you're interested in receiving news of these efforts as they progress, if they progress, let me know and I will try to keep you informed along with or in advance of those who choose to participate.

Your assistance, if you can give it, will be greatly appreciated, and may be an additional benefit to both the microcomputer and the health care industries.

In an effort to reach as many interested parties as possible, I'm sending this letter to several microcomputer newsletter publishers (though I'm sure I won't reach all of them), and I have made similar requests to some of the microcomputer magazines. I make similar requests of some of the health care journals, although I haven't made a decision about that yet. In any event, people can reach me at P O Box 13089, Columbus OH 43213, or by telephone at (614) 235-7212.

.....

ROUTINE TO FIND WHETHER Q OF N+1 WORDS, W\$(M) [for M=0 to N]
OCCUR IN A STRING Z\$

by R Turvey

Which words are found is recorded in the array P(M) corresponding to W\$(M)

Initialize with zeros:

```
2000 FOR M=0 TO N  
2010 P(M)=0  
2020 NEXT : Z=0 : M=0
```

Determine number of passes by length of string, number of loops by number of words:

```
2030 FOR J=1 TO LEN(Z$)  
2040 FOR M=0 TO N
```

Skip for words already found:

```
2050 IF P(M)> 0 THEN 2140
```

On first pass, skip preceding blank test, otherwise do it

```
2060 IF J=1 THEN 2080  
2070 IF NOT MID$(Z$, J-1,1)=" " THEN 2140
```

Search for the word:

```
2080 IF NOT W$(M)=MID$(Z$,J,LEN(W$(M))) THEN 2140
```

On last pass, skip succeeding character test:

```
2090 IF J=LEN(Z$)-LEN(W$(M))+1 THEN 2150
```

Do test for succeeding character, a blank, a comma, etc.

```
2100 A$=MID$(Z$,J+LEN(W$(M)),1)
2110 IF A$=" " OR A$=";" THEN 2150
2120 IF A$=",," OR A$=";" THEN 2150
2130 IF A$=".;" OR A$=":" THEN 2150
2140 NEXT M : GOTO 2160
```

Register finding a word:

```
2150 P(M)=1 : Z=Z+1 : IF Z > Q THEN RETURN
2160 NEXT J
```

and, if this is used as a subroutine, line 2170 RETURN is added at this point.

.....

An international group of professionals offering ready-to-use software for beginners, professional or schools to allow you to operate your own SPACE CENTRE and SATELLITE TRACKING SITE. The package includes cassette tape, information on how to obtain and use orbital parameters available from NASA, and complete operating instructions. Programs available are in BASIC. FORTRAN is available on request.

- STI-11-E Generates satalite RA/DEC or LAT/LONG/HT for any time. \$12.95
- STI-21-L Generates azimuth/elevation/time for visual sight-ing. \$15.95
- STI-30-A Updates current satalite parameters from obser-vation time for future calculations. \$12.95
- STI-900 All three on one medium. \$29.95

For information write to Sat Trak International, C/O Compuland of Colorado Springs, 4543 Templeton Gap Road, Colorado Springs, CO, 80909.

.....

I would like to subscribe to the SOURCE. I understand that I will receive all the back issues of this volume as well as all the remaining issues, for a total of ten issues. Payment of \$15. is enclosed (or charge my MC/VISA card). No billing!

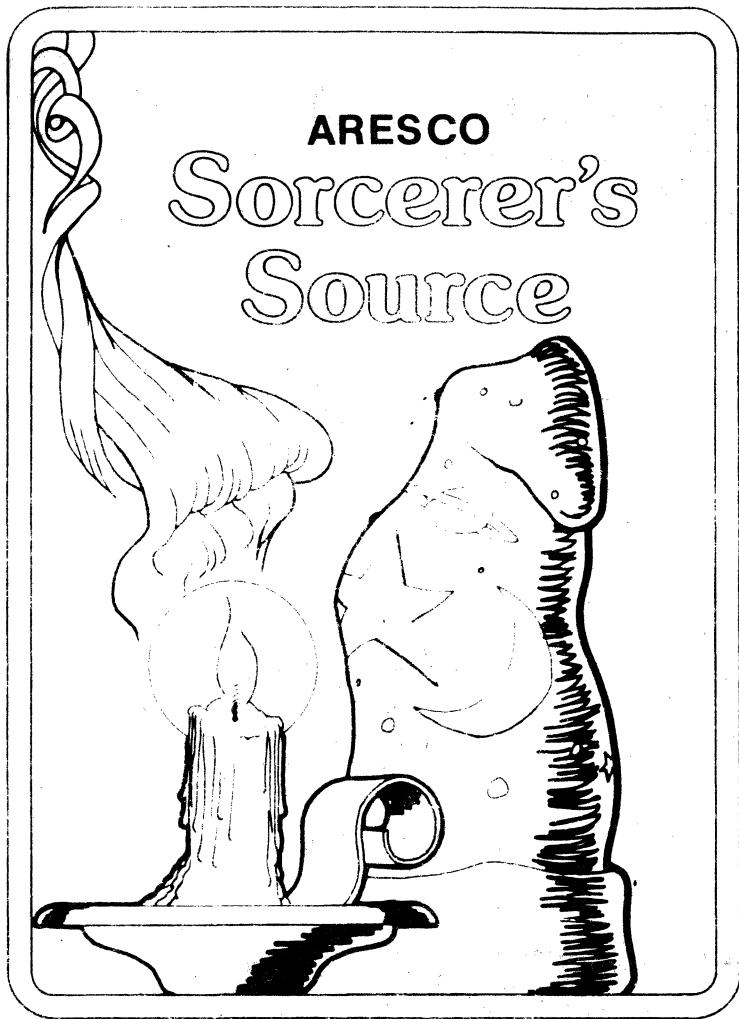
NAME _____ Credit card # _____

ADDRESS _____ Expiration date _____

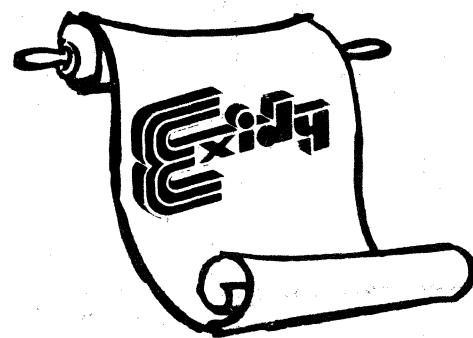
CITY, STATE, ZIP _____ IB# (MC) _____

If outside USA, add \$10 for air-mail postage if desired.

Mail this form, with payment, to ARESCO, INC., Box 1142, Co-lumbia MD 21044. Back issues sent UPS, please give street address rather than post office box number for quick service.



ARESCO
Sorcerer's
Source



ARESCO

P.O. Box 1142
Columbia, MD 21044

THE PAPER VIPER RAINBOW SOURCE

SOURCE