The SORGERER'S RPPRENTIGE

VOL.2

PAGE 7

NO.2

JUNE 1980

IN THIS ISSUE-

News from Exidy- Software Books Readypage	7
Users club notice- meeting June 19page	7
Staley Software Reviewspage	8
President's Corner- Random Thoughtspage	9
Smart Terminal program- mini-reviewpage	10
System 2 by System Software- mini-reviewpage	11
Print Q- simulate this BASIC statementpage	12
Software Exchangepage	14
Mystery Programpage	17

NEWS FROM EXIDY- During a phone conversation with Ray Burchard of the Exidy Marketing Department he read to me the following press releases which were made at the NCC show last week.

Press Release Number One-

()

Exidy and Recortec Inc., Mountainview, CA have reached an agreement in principle to the spin off and merger of the Data Products Division (i.e. Sorcerer) to Recortec's wholly owned subsidiary Personal Microcomputer Inc. Dr.Lester Lee, president Recortec Inc. pledged to provide the 15,000 Sorcerer owners with product support. Personal Microcomputer presently produces TRS-80 add-on products, provides cassette software duplication service, and will market a \$500 imported personal computer with features comparable to the TRS-80.

Although, at the time I am writing this, the deal is not final; plans are being made for the move of the Sorcerer operation to Mountainview, California.

Press Release Number Two-A five volume set of programs selected from entries to the Exidy Software Contest are available from Exidy for \$140. This set of books contains listings and documentation of over 100 programs.

Vol.1= Small Business Programs Vol.2= Educational and Scientific Programs Vol.3= Fun and Games- Part One Vol.4= Fun and Games- Part Two Vol.5= Home and Economics Programs

(CONTINUED ON PAGE 8)

The SORCERER'S APPRENTICE USERS CLUB next meeting will be June 19 at the
 Computer Mart, 560 West 14 Mile Road, Clawson, Michigan. Informal meeting
 starts at 6:30 pm; formal meeting starts at 7:15 pm. We hope to have a
 speaker. Everyone is welcome.
 If you are one of the users we lost contact with during the switch of
 newsletter editors try to make it to this meeting. We would like to make
 plans for goals and projects for our next season which will start in
 September.

(CONTINUED FROM PAGE 7) At this time the books are not being sold separately; only as a complete set. A cassette will be available in the future at additional cost.

The Sorcerer's Apprentice hopes to obtain a set of books in time to provide a review for the next issue.

Other Exidy Items-A 308K byte floppy disk which will plug in to the 50 pin buss will be available about the end of July. The DP6400 unit with a CPM package will sell for \$1150. For additional drives a DP6401 unit will sell for \$795.

The project to provide extended BASIC on cassette has been delayed and probably won't be available this year. No plans are being made to provide a ROM PAC version. No other new languages i.e.PASCAL are being developed.

Staley's Sorcerer Softwarereviews by Steven Guralnick

I have several programs to review from Staley's Sorcerer Software (22 Stayman Court, Lafayette, IN, 47905). I am very much impressed with the quality of these programs, especially the painstaking effort which has been spent on the documentation and the instructions to the user. Each costs \$9.95, postpaid. (overseas add \$1.00 for airmail delivery).

FLIP- This is Staley's answer to "Othello". I have a confession to make. I turned this program on without the slightest interest in it. After all, who wants to sit and look at a screen full of disks flipping back and forth on a 8x8 grid? Nevertheless, I gave it a try. I have come to two conclusions: first, if you think you can beat the computer at this, good luck. Second, if you think you can avoid getting addicted to this game, you probably also believe in the Tooth Fairy.

This elegant game uses full Sorcerer graphics. You can play against the computer or against another player. Each move is printed on the screen and full scorekeeping is furnished. I got so intrigued, I bought the board game for my son's birthday and I am polishing up my strategy playing it with him. I cannot recommend this program highly enough.

RABBIT HUNT- This is one of those ideas that originally popped up in Martin Gardner's column in Scientific American. Utilizing full Sorcerer graphics, a network comes on the screen. In one of the squares is the rabbit and in each of three other squares appears a dog. To give the rabbit a break, the dogs can move up, down or to the right. The rabbit can move in any direction. The idea is to trap the rabbit in the far right square. The rabbit tries to go to the far left square, at which point the rabbit wins since the dogs cannot follow.

If you think this sounds trivial, it isn't. It is a superb game; the kind of thing that will get you started at the beginning of an evening and get you to bed quite late. I recommend it highly.

ATOM- This is a variation of a submarine hunt, except that the atoms do not move. Depending on the response the computer gives you, you must determine where the hidden atoms are by the reaction you get when you shoot "x-rays" at them. It is probably the beat example of the care which has been given to the instructions by Staley. There is a complete instructions format at the beginning, including graphic illustrations of the various reactions you get, depending on the proximity of the atom to the x-rays. This is a lot of fun and it can go on for hours, depending on how sharp you are in the inductive reasoning department.

ĺ,

THE SORCERER'S APPRENTICE, VOL 2, NO.2, PAGE 9

This newsletter is published eight times a year by:

The Sorcerer's Apprentice Users Group Larry Kobylarz, Editor 3322 Gentry Howell, MI 48843

Phone (517) 546 3764

1

The newsletter is available without charge in the USA if self addressed stamped envelopes are furnished. Because some issues might exceed the one ounce limit for 15 cent postage, affix one stamp to the envelope and include extra stamps or contributions to help defray the publishing costs. The Users Group will maintain this policy unless it becomes a burden financially.

Back issues Vol.1,Nos.1 through 7 are available at \$.75 each.

Foreign subscriptions are \$8.00 for six months.

Advertising rates per issue are:\$30 for a full page, \$18 for a half page, \$10 for a quarter page. Classified ads are \$1.00 per line. Copy for ads or newsworthy items that can be submitted on Word Processing PAC tapes will expedite editting of the newsletter. Cassettes will be returned if requested.

SORCERER'S APPRENTICE--RUNNING THOUGHTS by Ed Heussner, President, The Sorcerer's Apprentice Users Group The Sorcerer's Apprentice is really taking shape now. I am continually amazed at the level and diversity of skills amongst us. I was talking with someone the other day about the talent in this group. We suspect it has something to do with the process of selecting a <u>Sorcerer</u>. Put another way, those that selected the Sorcerer wanted something special (because they are extra special?)

We have some very exciting long and short term goals and objectives in the offing. Immediately, there is enough interest to hold meetings throughout the summer, so we will. All of our meetings are designed to optimize the exchange of information including program demonstrations, feature speakers, product demonstrations, etc. We are looking for your input as well.

One of our first priorities will be to set up an assembly language programming course. This is the Sorcerer's "operating system" and future expansion (like interfacing with a printer) is dependent upon understanding the inner workings of the $\underline{Z-80}$. Also, wherever possible we will computerize our operations (eg. electronic news, automatic mailing...).

The exchange of ideas and information is the primary reason a group of this type forms. A good example of this is our library. Plans include maintaining a file of computer related books collectively owned by the members (with a "rating" on each to identify relative merits); as books become available, a book loan library; a file accumulating <u>all</u> existing information about the Sorcerer (including suggestions, routines...you name it...all computer accessible); an SBBS or Sorcerer's Bulletin Board Service; and reviews of products and books. It could be called a one stop Sorcerer's information center. We are always looking for ways to use our computer to its fullest and your contributions are definitely welcome. GET SMART- a mini-review of the SMART TERMINAL program from Quality Software review by Larry Stempnik

The first version of this program that I received from Quality Software could not be used for downloading BASIC programs from a timesharing computer into the Sorcerer. When I called Quality Software they informed me their latest version took care of this problem and they sent me a new tape.

The new version is compatible with either the BASIC or Word Processor ROM PAC since it is loaded into high memory below the monitor stack. BASIC programs from another computer can be entered using a modem and stored as a full ASCII file in RAM. The file can be editted if need be and then downloaded into the ROM PAC-compatible-BASIC using a single command.

The program appears to be an excellent way to exchange programs or messages using modems. Also, it can be used for editting, merging, or printing programs. Testing will continue and further results will be reported in the next issue.

*	* * * * * * * * * * * * * * ADVERTISEMENT * * * * * * * * * * * * * * * * * * *		
* * * * * *	49130	* * * * * *	
* * *	NEW SORCERER SOFTWARE ANNOUNCEMENT	~ * * *	\bigcirc
* * *		* * *	
* * * * * * *	user to benefit from those features of a full-fledged word processor that are most useful for everyday letter writing, report writing, and general text work. At a price considerably below that of more powerful word processors, it offers those features most often used and most useful.	* * * * * * *	
* * * * * * * *	delimiters. The program is complete as delivered except for printer driver routines, which are very simple to insert. In view of large number of printers, both serial and parallel, that have been interfaced	* * * * * * * *	
* * * *	The price for this fine program is just \$20.00 plus \$1.00 postage and handling. Complete documentation is also provided.	* * * *	
* * * *	Master Charge and VISA orders welcomed. Please allow three weeks for delivery on personal checks.	* * * *	\bigcirc
	* * * SAY YOU SAW IT IN THE SORCERER'S APPRENTICE * * * * * * * * * * * *		

٤.

(0)

Mini-review of SYSTEM 2 by System Software (see ad in this issue) review by L.Kobylarz

1

I received a copy of SYSTEM 2 just before the deadline for this issue. I really haven't had a chance to work with it but I have received several inquiries about BASIC editors so I tried it out and these are my impressions.

Loading the program is more involved than normal but is not too complicated. You must key in an 8 byte machine language routine, move a block of memory, call the routine, and load the program. This is documented in well written instructions. Once in the machine the features start working for you right away. RUB does not need the SHIFT key held down; CLEAR does not produce a SN ERROR. How many times did you wish the machine worked that way?

Once you key in a BASIC program SYSTEM 2 really goes to work. If you needed to use RUB frequently you still get to use the full line length without a premature CR. Editting commands include REPLACE, INSERT, DELETE, RUB, CURSOR RIGHT, CURSOR LEFT. Hit a key and the program is renumbered. Want to see the listing? Type LIST and CLEAR (not CR); the screen is cleared and the listing starts on a new page'. To stop the listing hit RUNSTOP but now you don't have to hold it down. Hit any key and the listing continues.

I didn't have time to try out some of the other features but after experiencing the above they would be 'frosting on the cake'. This seems to be a well conceived, professionally done piece of software. It works as advertised.

ATTENTION EXIDY SORCERER USERS Upgrade the usability of your Word Processing Pac Arkay Engravers has custom keytops to fit the Sorcerer 16 key numeric pad INDENT This set of keys will make the Word Processing Pac commands easier to remember. HOME AVAILABLE IN RED", BLUE, BLACK, BEIGE & GREY EXPAND 5 Only \$9.50 per set (with arrows) 56.50 without arrows CURSOR Save C.O.D. shipping charges-enclose your check with order SCAN Other custom keytops are available for Exidy and other computers and terminals, engraved with whatever legends you desire. SOFT CLEAR DELETE EDIT/ COMM HYPHEN RUBOUTS TEXT Please call or write for details. ARKAY ENGRAVERS, INC. 2073 Newbridge Hoad P.O. Box 916, Bellmore, N.Y. 11710 [516] 781-9859 1121 - DEALER INQUIRIES INVITED -*RED is recommended for superior visability and contrast. 1888 🗌 1888 🗌 1888 🔲 1888 🔲 1888 🔲 1888 💭 1888 💭 1888 💭 1888 🗍 1888 🗍 1888 🗍 1888

Ł

PRINT@

A PROGRAM TO DESCRIBE AND DEMONSTRATE A WAY TO SIMULATE THE 'PRINT@' STATEMENT

from a description by Joseph R Power copyright (C) 1980 by Joseph R Power

The PRINT@ statement used in some forms of BASIC specifies where printing is to begin. The cursor moves to a point specified and will print there if programmed to do so. Because it is awkward to use the @ symbol the statement will hereafter be referred to as PRINT AT.

To simulate the PRINT AT statement in a BASIC program requires the following:

- 1. Add the subroutine in lines 1010-1070 somewhere in your program.
- Set X= to the line number the cursor should move to (1-29). NOTE: using line 30 scrolls the screen one line, so don't use line 30.
- 3. Set Y= to the position (0-63) on that line that the cursor should move to.
- 4. Call the subroutine.
- 5. Print the desired message.

If you examine the subroutine (lines 1010-1070) you will see the technique used to do this is:

- R\$ is defined as a 'cursor home' character followed by 29 'cursor down' characters.
- 2. C\$ is defined as 63 'cursor right' characters.
- 3. X & Y in the PRINT LEFT\$ statement modify these strings to position the cursor.
- NOTE: You must CLEAR at least 100 bytes to use this routine safely.

These are the non-destructive cursor moves used:

cursor home= CHR\$(17)
cursor down= CHR\$(26)
cursor right=CHR\$(19)

The following character codes can be used to produce different results:

cursor home, clear= CHR\$(12) line feed=CHR\$(10) space=CHR\$(32)

Two demonstration programs follow which show you ways this technique can be used.

An abbreviated demo can be achieved by typing lines 900 to 1070.

100 CLEAR 300 200 : REM- A program to describe and demonstrate a 202 : REM- way to simulate the 'PRINT AT' statement. 204 : REM-206 : REM- from a description by Joseph R Power 490 PRINT CHR\$(12); 495 PRINT "DEMO 1" 500 FOR I=1 TO 4 501 : REM- The next line is the one that sets up 502 : REM- and calls the PRINT AT subroutine. 503 READ X,Y: GOSUB 1000: PRINT "SORCERER'S" 504 NEXT 510 FOR I=1 TO 4: IF I=3 THEN 530 520 READ X,Y: GOSUB 1000: PRINT "APPRENTICE" 530 NEXT 532 : REM- Notice in the next line you can use this REM- routine with the INPUT function. 534 : 540 READ X,Y: GOSUB 1000 545 INPUT "DO IT AGAIN";Q\$ 550 IF LEFT\$(Q\$,1)="N" THEN 610 552 RESTORE: GOTO 490 560 PRINT CHR\$(12): FOR I=1 TO 5: PRINT: NEXT 570 PRINT "To start the program again type 'RUN' & RETURN" 575 PRINT: PRINT: PRINT 580 STOP 590 DATA 28,30,14,5,1,30,14,50,28,30,15,5,15,50 600 DATA 29,5 610 PRINT CHR\$(12); 615 ER\$=CHR\$(32): FOR J=1 TO 63: LET FR\$=FR\$+ER\$: NEXT 620 INPUT "DEMO 2- Type in a short message, like your name";N\$ 621 GOTO 630 625 PRINT "Print your message in another position. To quit "; 626 PRINT "enter 0 for line" 630 INPUT "PRINT AT which line (1-29)";X 632 IF X=0 THEN 560 635 INPUT "Which position (0-63)";Y 640 GOSUB 1000: PRINT N\$ 643 PRINT CHR\$(17); 644 PRINT FR\$: PRINT FR\$: PRINT FR\$: PRINT CHR\$(17); 650 GOTO 625 660 STOP 900 CLEAR 200 905 PRINT CHR\$(12) 910 INPUT "MESSAGE";M\$ 920 INPUT "LINE";X 930 INPUT "POSITION";Y 940 GOSUB 1000: PRINT M\$ 945 STOP REM- SUBROUTINE TO SIMULATE 'PRINT AT' 1000:1010 FF\$=CHR\$(17): LF\$=CHR\$(10): SP\$=CHR\$(19) 1020 R\$="": C\$="" 1030 FOR J=1 TO 29: LET R\$=R\$+LF\$: NEXT 1040 LET R\$=FF\$+R\$ 1050 FOR J=1 TO 63: LET C\$=C\$+SP\$: NEXT 1060 PRINT LEFT\$(R\$,X); LEFT\$(C\$,Y); 1070 RETURN READY

 \bigcap

L

Dear Larry,

Received your letter and was happy to hear that the Software Exchange is still in business. Yes, I have been receiving a pretty good response from the members, however the offering of new programs from members has been very slim. We sure could use a new influx of programs for the library. You might mention in the next newsletter, the members should not feel that their programs are not good enough to submit, as everything is welcome, as long as it is documented in REM or PRINT statements in the program.

Res resards,

Ralph G. Ruh

THE SORCERER'S SOFTWARE EXCHANGE BY RGR SOFTWARE COMPANY

TERMS:

STATEMENTS WITHIN THE PROGRAM.

MAKE ALL CHECKS AND M.O.PAYABLE TO RGR SOFTWARE CO. CHECKS MAY DELAY SHIFMENT BY 3 WEEKS.

CATALOG

NUMBER	NAME	AUTHOR	DESCRIPTION
S001 S0023 S00056 S0005 S00067 S00067 S0010 S00123 S0014 S00145 S00120 S00145 S00120 S00120 S00145 S00120 S0022120 S0022120 S002220 S002220 S00220 S00223 S00223 S00223 S0025 S005 S00	EXPENSES BILLIARDS ALIEN WAMPUS HORSERACE JOUST LUNAR GET CRAPS DBASE DATA MMIND AMORT CHECKING PATTERN RENUMBER MERGE HEXD EDIT GSSR RGRS SERCH BLACKBOX	R.RUH R.RUH R.RUH R.RUH R.RUH R.RUH B.BACHMAN B.BACHMAN B.BACHMAN D.BRISTOR D.BRISTOR D.BRISTOR T.BASSETT E.BRISTOR T.BASSETT J.PALEVICH D.TRUSSELL T.BASSETT	DEDUCTIVE REASONING SAME
S027 S028	CLUE LABEL	C.C	MURDER GAME MAILING LABEL PHUGRAM

THE SORCERER'S APPRENTICE, VOL 2, NO.2, PAGE 15

Centronics Printer Problem- A microprocessor problem in Centronics model 730 miniprinter was reported in an article in the May 1980 issue of Mini-Micro Systems magazine. Centronics had to shut down their assembly line for six weeks starting in mid-January to correct a runaway microprocessor problem attributed to static electricity. Centronics does not plan to recall the 15,000 printers they shipped nor do they intend to notify customers. If you bought or intend to buy a Centronics 730 I can send you a copy of this article.

ſ

Word Processor PAC for sale- Ralph Ruh, 623 Medill Ave., Lancaster, OH, 43130 has an extra (one) WP PAC for sale at \$199.

*	* * * * * * * * * * * * * * ADVERTISEMENT * * * * * * * * * * * * * * * * * * *	*						
* * *	SYSTEM 2 for SORCERER	* * * *						
~ * * * *	SYSTEM 2 by Richard Swannell, loads into the top of available RAM and becomes an integral part of the BASIC language. All commands are single keystroke. SYSTEM 2 is about 1K long and provides the following features;	~ * * * *						
* * * *	SCREEN EDITOR. Use the editor to insert, replace, delete or rubout characters in your BASIC program. Watch the line change on the screen! Gone are the days of typing in a whole line to change one character!	* * * *						
* * * * *	FUNCTION KEYS. SYSTEM 2 allows 12 keys to be programmed to represent one or more characters or up to several lines of text each! This feature is handy for lenghty and/or often used commands and may include multiple statements.	* * * * *						
*	RENUMBERING ROUTINE. With a single keystroke your program is renumbered.	* * *						
* * *	REVIVAL ROUTINE. If NEW or CLOAD is typed, or RESET is hit by mistake, your program may be recovered. This is a safety device.							
* * * * * * * *	 OTHER FEATURES. RUNSTOP stops execution until another key is hit. CLEAR clears screen then sends a (CR). Hit CLEAR to start on 'new page'. RUB doesnt require the SHIFT key to be depressed. This quickens editting. Includes a Real Time Random Number Generator. Returns automatically to BASIC after TAPE CRC ERROR while CLOADing Generates a (CR) when BASIC buffer is full. This prevents BASIC from crashing if the BASIC buffer overflows. 							
*	SYSTEM SOFTWARE	*						
* * *		* * *						
· * * * *	32K, or 48K) APPRENTICE readers	* * * * *						
~ * *	* SORCERER is a trade mark of EXIDY INC. \$2 for postage	× * *						
*	* * * * * * SAY THAT YOU SAW IT IN THE SORCERER'S APPRENTICE * * * * * *							

STEVEN GURALNICK 15 Southgate Avenue Daly City, California 94015

THE WORD PROCESSING CORNER

(#6)

Ĩ.

Here I am again. Missed an issue when the reins of power switched from Dave Bristor to Larry Kobylarz. Incidentally, it was a pleasure to chat with some of you who call in response to this column. My home phone number is (415) 991-0155, here in Daly City. Rates are cheaper at night and if any of you are having a problem, ring up and I'll try to be of help.

This time out, I want to address the issue of salvaging what seems to be lost text. Obviously, if someone pulls the plug before you can write your text to tape, it's tough luck. But, there are two other possibilities where it may seem like the text is lost and it really isn't.

The first is when the computer resets itself, as though you had punched the two power-on reset keys. This happens occasionally and for no apparent reason, especially when you know the power hasn't failed. Anyway, there you are, looking at a fresh power-on logo and then a blank screen with the edit cursor blinking at you. Do not despair.Go to the COMMAND mode and then exit to the monitor by pressing "X" (CR). When the monitor prompt comes on, key in the following MOVE instruction:

MO 800 8C0 801

You will then get another prompt. Type "PP" (CR) and control will be transferred back to the Word Processor. At this point you should be looking at the text again, minus about the first two lines and maybe with a little garbage in it. Try this a few times when you don't have to and if this emergency does come up, you will know what to do. Incidentally, this resuscitation will not restore any text which was sitting in the holding buffer.

The other scenario is when you accidentally zap the computer electrically (maybe by turning off the printer in mid-print or some other type of electrical surge is created). The first thing you will probably notice is that the cursor (either one) will freeze. As you sit there in mute horror, the screen starts to fill with garbage, resembling a Star Trek game gone mad. Again, do not despair. Quickly, press the escape key and hold it down firmly. Then, with the escape key still down, press both power-on reset buttons, once, and firmly. Hang on to the escape key for dear life until the program restores you back to the top of text and then, and only then, let go of the escape key. I have had this work when the screen was totally filled with garbage. The trick is to be patient after you press the reset buttons and not to let go of the escape key until you have control of the text. Depending on what went wrong in the first place and how much text there is, this can take a half-minute. Incidently, you can punch the reset buttons more than once if you're getting nervous, just don't let go of the escape key.

I have had a lot of comments on the data manager material that was published recently. We are still using it for our timekeeping in the office and it works very well.

If any of you would like back copies of what I have written in this corner, send $(\bigcirc$ a 9x12 self-addressed, stamped envelope.

THE SORCERER'S APPRENTICE, VOL 2, NO.2, PAGE 17

MYSTERY PROGRAM- This machine language program was taken from the S.P.E.C. Newsletter, Formby nr. Liverpool, England. It was written by Paul Grimshaw. I present it to you as a mystery program for you to type in and run for entertainment. It is simple but cleverly done with good graphics. The program requires your participation; so when you run it be ready to go. Use the Numeric Pad Keys 1-9.

Į

If you are a new owner or haven't entered machine language code; try it!
 type- BYE (CR)
 type- EN 1010 (CR) --monitor shows 1010:- key in each hex code with a space after each. To make it look like the
 listing (not necessary but easier to follow) after the 16th entry, hit
 (CR). The monitor will show 1020: Continue with listing. After the last
 code type / (CR).
 type- G0 1010 (CR) --to run--

You can use the RUB key to make corrections; however if you want to correct something further back in the listing hit / (CR) to stop listing. EN XXXX(CR) -(address where correction is to be made). Monitor shows XXXX:; make correction; hit / (CR); use EN YYYY (CR) to get back to where you left off. If you happen to delete a code you must go back to that point and retype everything from there.

ADDR	0	1	2	3	4	5	6	7	8	9	A	В	С	D	Ε	F
1010: 1020: 1030: 1040: 1050: 1060: 1070: 1080: 1080: 1080: 1080: 10C0: 10C0: 10C0: 10F0: 1100:	21 79 00 C6 CD F7 C0 00 37 23 06 D1 11 68 C2	00 E6 10 53 0C E8 11 19 3C 17 7E 10 E1 73 C0 1A	FE F0 82 26 87 10 CD 87 23 CD 36 12 FD 10	06 0F 83 10 00 3E FF F8 F1 10 66 FA 20 21 36 C3	08 57 1E D 07 36 36 11 FC 6F 11 19 90 81	36 0F 00 53 07 11 80 3A 2E 5 3A 53 6 F3 06 E9	FF 0F 07 43 23 02 0A 20 20 20 20 20 20 20 20 20 20 20 20 20	5F 28 10 07 12 36 36 10 36 10 506	10 0F 21 6F 21 89 80 80 84 50 84 19 0D E1 36	FB 32 1F D5 29 DE 19 22 07 21 E1 20 65 CD 20	CD 01 CB 12 22 F3 06 08 47 53 36 38 7E 13 30 19	56 10 1B CD 06 CD 14 10 07 12 B1 0B E1 21 E0 36	11 79 CD 77 10 36 CD 07 19 E5 78 FE 23 24	CD E6 6B 11 CD 11 CD 5F 5E D5 B1 20 12 FB CD	77 0F 13 79 56 21 23 11 AF 23 20 28 FD 50	11 32 57 2 F 11 46 01 46 56 F 2 56 54 E 34 E 3 4 E 3 4 E 3 4 E
ADDR	0	1	2	3	4	5	6	7	8	9	А	В	С	D	Ε	F
1110: 1120: 1130: 1140: 1150: 1160: 1170: 1180: 1190: 1180: 1180: 1180: 1100: 1100: 11F0: 1200:	111 C3 00 E1 47 E2 8C 13 07 1A 24 00 29 23 08 20	BF FF 10 7D 03 21 CD EB 07 13 0D 10 10 10 06	0E 2D B4 C3 B0 45 E1 07 77 20 21 EB F6 FA	19 03 F2 21 92 22 E0 28 06 23 E0 23 E1 13 11 32	3E 19 39 17 10 CD 10 F2 04 10 F1 F1 0E D5 0B 10	03 06 11 00 BA F9 07 FA 07 FA 08 11 78 FE	11 03 25 28 CD E1 C9 00 CB F1 3A C3 1A 81 18	E5 1A 11 F5 01 11 06 00 20	12 36 09 3A E9 06 CD FE 10 47 10 E5 08 19 F8 21	CD 20 22 00 1B A 30 FB 2F 21 11 36 D1 C9 A0	9D 10 00 CD E1 D8 13 C6 AE 80 20 C5 12	11 FB 10 E6 00 D2 CD FE 18 41 F1 F9 07 20 3A ED	CD 0D E5 0F 23A 85 CD 30 29 58	5D 20 CD 07 1B 06 E1 30 F5 6F C8 6F 02 02	13 F5 B6 O7 CD OB CD E8 4F 30 111 29 36 01 FE 10	11 2A 11 07 02 57 07 47 01 3A 20 00 F7 06

THE SORCERER'S APPRENTICE, Vol 2, NO. 2 PAGE 18

Mystery	y Pı	ogr	am-	- cor	ntir	ued	l fr	om	page	e 17	7					
ADDR	0	1	2	3	4	5	6	7	8	9	А	В	С	D	Ε	F
1210: 1220: 1230: 1240: 1250: 1260: 1270: 1280: 1290: 1280: 1280: 1200: 1200: 12E0: 12F0: 1300:	08 37 11 FF 42 AC 0D 41 6F 39 29 6F 79	CB 3F 18 86 32 D1 41 20 22 20 3F 75	DD 81 F4 F7 4E 20 0E 4D 20 29 00	41 AC 47 20 10 20 6F 3F 0D 76	FE C ED 9F 00 20 97 20 F 42 66 00 48 577	20 10	53 04 20 F1 F0 9E A6 20 05 55 61 0A 72 6C	A6 210 9F 20 A6 20 40 20 74 53 4 6F 74	10 36 A5 FF AB A5	A5 AB 08 20 61 65 6C 74	F7 A5 91 97 0D 48 63	92 01 3F A5 AB 04 0D 6B 64 6E 20	E5 87 91 00 00 A6 20 97 0E 00 73 28 65 0D	2A 22 92 0D AE A6 91 AB 02 28 30 73 44	08 91 F4 F0 92 A2 0D 0A 31 2D 2D	10 10 86 FF C1 97 20 AC 08 4E 20 39 79 20
ADDR	0	1	2	3	4	5	6	7	8	9	A	В	С	D	Ε	F
1310: 1320: 1330: 1340: 1350: 1360: 1370:	61 6C 75 6F 67 EE 1B	67 61 72 75 61 11 C9	74 76 20 6D D1	69 69 6C 65 E1	6E 6F 76 69 3F C9 00	3F 6E 65 6B 00 CD 00	73 64 65 00 9D	0D 2D 21 20 FD 11	43 79 0D 61 E5 C3 00	6F 6F 57 6E E1 EE 00	75 61 6F	67 27 75 74 25 1F 00	76 68 E2 CB	65 C 64	72	73) 79

BASIC Editor Programs- "EDITOR FOR BASIC" along with other software items is available from Howard Arrington, 9522 Linstock, Boise, Idaho, 83704. Price is \$25. If anyone has used this program let me know what you think of it. "SYSTEM 2 FOR SORCERER" from System Software, Australia edits BASIC programs and provides other operating features. See review and ad in this issue. A BASIC editor scheme using the Word Processor PAC was promised in the latest edition of the Users of Australia newsletter. We have a reciprocal agreement with them and I will pass this information along as soon as it is published.

Selectric Printer for sale- Steve Guralnick has an IBM Selectric II typewriter with the Escon interface for sale. This printer was maintained by Escon and they will package and ship the unit. Call Steve in Daly City, California- home phone (415)991-0155.

CP/M Software Index- An index of 304 CP/M programs and 101 CP/M software vendors is available for \$1.00 from Small Systems Group, Box 5429, Santa Monica, CA, 90405

Exatron Stringy Floppy- A magnetic tape drive which uses a wafer for the recording media was featured in an article in Personal Computing magazine, June 1980 issue. This unit transfers data at a rate of 7200 baud and includes a controller to allow files to be accessed quickly. The unit including power supply and controller sells for \$302.50. Has anyone interfaced one of these units to a Sorcerer? If someone has, please send a review or information on how it was done.