

MCCC NEWS

Mid-Cities Commodore Club
September 1984 Issue 18

Membership

The MID-CITIES COMMODORE CLUB is a non-profit organization devoted to the collection and dissemination of computer knowledge, to the encouragement of computer education and to the use of Commodore computers in the home, at school and in business. Appropriate and legal use of all types of software shall be encouraged by this club.

The MCCC is not connected with Commodore Business Machines Ltd. or Commodore Inc. Commodore and Commodore product names (PET, CBM, VIC and C-64) are registered trademarks of Commodore Inc.

Our meetings are open to all. Yearly membership dues are \$20.00 and entitle the member to a monthly mailed copy of MCCC NEWS, the club newsletter, and library copying privileges. Dues are paid on a calendar year basis and newmembers who join after March 31st of each year pay prorated dues for the months remaining in the year.

Dues may be paid at any chapter or club meeting or by sending them to Bruce Nelson, Treasurer, P.O. Box 1578, Bedford, TX 76021.

DUES FOR THE REMAINDER OF 1984
ARE \$8.00.

QUARTERLY MEETING → OCTOBER 20
HURST RECREATION CENTER 1:30 PM

1600% Growth

Donald Holloway is our 500th member. And we're still growing!

In February of 1983, thirty people got together to share information about their computers. Thanks to Garry Wordelman and that handful of Commodore owners the Mid-Cities Commodore Club was born. In the past 18 months, the club has seen an incredible growth causing the formation of four area chapters.

Keeping a club of this size running smoothly is not an easy job. Next time you see a club or chapter officer, be sure to thank him or her for all the unseen hours of work. We've reached the 500 mark due to the dedication of all those who have volunteered time and service. Spread the word. We're proud of our club and we're especially proud of the people who have contributed to its success.

NEWSLETTER GETS BETTER

Keeping pace with the growth of the club has made it necessary to update the format of your newsletter. Many of you have requested a return to the larger format. We have now made arrangements with the printer to keep the cost of this improvement equal to the cost of previous issues. Thank you for your praise and criticism of the newsletter. We are constantly striving to meet your needs and improve the quality of our publication.



Coming Up

SEPTEMBER

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

OCTOBER

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

MEETINGS

- Sept. 15 HEB Chapter 1:30 PM
Hurst Recreation Center
- Sept. 17 Ft. Worth Chapter 7 PM
Precinct Garage, Room 2
- Sept. 18 Grand Prairie Chapter 6 PM
Grand Prairie Public Library
- Sept. 22 Ft. Worth Chapter 1:30 PM
GDRA Room 3
- Oct. 1 Newsletter Deadline
- Oct. 13 Arlington Chapter 10:30 PM
Arlington Public Library
- Oct. 20 MCCC Quarterly Mtg. 1:30 PM
Hurst Recreation Center
- Oct. 22 Ft. Worth Chapter Mtg. 7 PM
Precinct Garage, Room 2
- Oct. 23 Grand Prairie Chapter 6 PM
Grand Prairie Public Library

CLUB OFFICERS

PRESIDENT	Diane Dews	485-4747
VICE-PRESIDENT	Ken Widner	924-8948
TREASURER	Bruce Nelson	498-0899
SECRETARY	Dana Taylor	457-9070
LIBRARIAN	Leonard Parker	292-1090
LIBRARIAN	Jesse Carden	838-9530
EDITORS	Barbara and Michael Cramer	284-3565
EDUCATION CHRNM.	Joe Kent	281-7506
PAST PRESIDENT	Garry Wordelman	281-7457

The MCCC NEWS is the official publication of the Mid-Cities Commodore Club (Dallas/Ft. Worth, TX). Editorial contributions are welcome from anyone anywhere in the world of Commodore. We welcome readers' comments, especially regarding any significant errors or omissions, and we will attempt to publish any corrections in later issues.

Material printed in the MCCC NEWS is not copyrighted and may be reprinted or copied by other user groups or individuals who find it helpful. We only ask that you give credit to the author and mention the MCCC NEWS as the source.

The MCCC NEWS accepts advertising from both members of the club and from commercial establishments. This is an opportunity to reach over 500 members of Commodore computers.

Member rates are free for classified ads. These ads must be computer related and not of a commercial nature. A commercial ad is defined as one where you are running a business and are selling the same item or items to many people. Members submitting such ads will be charged commercial rates.

COMMERCIAL RATES are as follows: \$60.00 per full page ad; \$30.00 per half page ad; \$20.00 per quarter page ad; and \$10.00 per business card. Non-members will pay commercial rates.

The deadline for submissions to the MCCC NEWS will be the first day of each month. PAYMENT MUST ACCOMPANY AD COPY. Make all checks payable to 'Mid-Cities Commodore Club' and mail the ad copy along with your check to: Michael Cramer, 1353 Kathryn Court, Hurst, TX 76053.

President's Column

Diane Dews

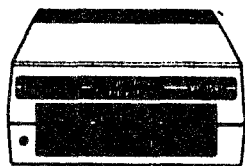
You may have noticed the newsletter looks a little different this month. This is due to the efforts of Barbara Cramer. Barbara is constantly improving the newsletter and we really appreciate the care and expertise she has brought to her job this year.

The club will be purchasing a Comal Primer and Handbook from T-PUG which will be made available for purchase to the members. A count will be taken at the chapter meetings of those members interested in purchasing a copy. We will have a few copies of the book at the October meeting for you to examine.

I have been pleased to note the continued co-operation between the MCCC and other user groups from Maine to California. Their willingness to share information has resulted in some excellent and interesting articles being printed in our own newsletter.

I want to encourage any member of the MCCC to submit articles to our editors for publication. Who knows...you may be published nationwide.

Don't forget our contest (See back page). Your participation will assure us of a successful event and add to our library.



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Comal 2.0

Colin Thompson

A letter from Colin Thompson

The future of the COMAL Cartridge is in your hands.

More than one hundred members of my group have seen my COMAL 2.0 cartridge. Every one was impressed. I know. They told me in glowing terms. They asked me two questions: "How much?" and "When will it be out?".

How would you feel if I told you that Commodore is not going to release the cartridge in the U.S. because they think it won't be popular? That's exactly what's happening. Commodore is selling the cartridges to a packed house in Europe, but withholding it here. It's not fair, but it is typical of Commodore. Tramiel is gone but his legacy of footdragging lives on.

There is one thing we can do. Please pay attention even if you haven't been seduced by COMAL.

WRITE A LETTER

The man responsible for the decision to release COMAL is PAUL GOHEEN. Mr. Goheen actually likes COMAL, but doesn't think the American public will appreciate a language that the Europeans use. (?) At the MARCA show in Hershey, PA he said he would release COMAL if he received 3,000 letters.

I think Mr. Goheen's mailbag needs to be filled. We all have word-processors. Let's put them to work. Everyone, please, even if you haven't seen the cartridge, write Mr. Goheen a letter, note or anything you like. Just put something on his desk that says,

"I WANT COMAL."

Mr. Paul Goheen
Director of Software Development
Commodore Business Machines
1200 Wilson Drive
West Chester, PA 19380

Easyscript & Tymac

Jay A. Peat

Reprinted from S C Cubed
Sacramento Commodore Computer Club

For those of you like myself who have a non-Commodore printer hooked up to your Commodore 64 or VIC 20 using a Tymac Connection interface and also happen to be using the Commodore Easyscript wordprocessor, you may have found that certain of the fancier printing options don't seem to work in the emulate mode. I have a NEC 8023A-C printer that I am controlling through the C-ITOH ROM so my examples will be more specific to this combination but hopefully general enough to apply to other combinations as well.

After much reading in the manuals which came with my interface and printer, I had figured out how to accomplish just about anything I wanted to do with the printer from within a program I had written myself. However, I just couldn't seem to get the same results from within the Easyscript word processor. The Easyscript manual just didn't seem to be talking the same language as the other two manuals.

After much searching and experimenting I finally came up with the following solutions on how to make Easyscript talk to the Tymac Connection interface and my printer.

If you are trying to send a command to the interface to get some special feature that it can provide, like 5 CPI print, you have to define the special ASCII characters somewhere near the top of your document as follows:

<F3> I=14 (for Hexidecimal E) which enables 5 CPI print. If you want to be able to turn 5 CPI printing off, you will also need, <F3> 2=15 (for a Hexidecimal F).

Once these special characters have been defined, they can be implemented by using <F1> 1 immediately proceeding the text

you want printed at 5 CPI and <F1> 2 when you want to change back to normal size print.

Up to ten special ASCII values can be defined and used in this way (0-9).

If, on the other hand, you are trying to send a command to the printer, you must temporarily force the interface out of the emulate mode so that it will let your control modes go on to the printer. The interface manual says you can do this by sending two escape codes in succession to the interface. However, there didn't seem to be any way to do this from within Easyscript.

So I decided to try another method for changing to the transparent mode while in Easyscript and then reverting back to the emulate mode when I was through with my fancy printing. Going into transparent mode was accomplished by sending the following secondary address in front of the decimal values representing the appropriate control code hexadecimal values:

<F3> sa6,27,33

F3 is the Easyscript key that signifies a formatting command. The SA6 signifies the secondary address used in an open or print command (i.e., open 4,4,6). This tells the Tymac Connection to go into the transparent mode. The decimal value 27 is equivalent to the hexidecimal value 18 (an ASCII escape code) which is the code that normally proceeds any commands to the printer. The decimal 33 is the equivalent of hexidecimal 21 which is an ASCII '?' and tells the NEC printer to print in the enhanced mode.

There was no need to tell the interface to revert back to emulate mode because Easyscript seems to automatically change back whether you are ready or not.

For those of you who are not familiar with converting hexidecimal values to their decimal equivalent, the following table may help.

Hex =	Decimal	Hex =	Decimal
1	= 1	10	= 16
2	= 2	20	= 32
3	= 3	30	= 48
4	= 4	40	= 64
5	= 5	50	= 80
6	= 6	60	= 96
7	= 7	70	= 112
8	= 8	80	= 128
9	= 9	90	= 144
A	= 10	A0	= 160
B	= 11	B0	= 176
C	= 12	C0	= 192
D	= 13	D0	= 208
E	= 14	E0	= 224
F	= 15	F0	= 240

As an example of how to use this table take an ASCII lower case 'a'. This has a hexadecimal value of 31. By splitting this value into parts we produce a 30 and a 1. Looking these up in our table we find decimal values of 48 and 1. Adding these back together we come up with a decimal value of 49 for a lower case 'a'.

HesModem II

A Review

Barbara Cramer

I had no idea owning a modem was so exciting until I began reviewing HESMODEM II. This auto modem and software package is the latest in telecommunications from HesWare (Human Engineered Software). The program is so effortless that reading the manual is almost unnecessary!

The main menu of HESTERM II gives you the option of modem, buffer, phonebook or disk operations as well as the option to change system presets. The phonebook allows 10 pieces of information, including parameters and password, on each of 20 entries. Disk and buffer operations are fairly standard, formatting, saving etc.

The modem operations are by far the most useful features of the package. You may auto dial using either the keyboard or the phone book. If no answer is received the program will continue to dial the number until an answer is received or you interrupt the process at the keyboard. When you are "on-line" the function keys provide you with 8 one stroke commands:

- F1 Toggles receive buffer on/off
- F2 Saves buffer to disk
- F3 Toggles between full and half duplex
- F4 Transmits pass word
- F5 Toggles left justify (format) on/off
- F6 Opens disk command channel
- F7 View buffer/Return to on-line
- F8 Print buffer/Return to on-line.

Need I say more? This package is super! HESMODEM II & HESTERM II (package)

HesWare
150 North Hill Drive
Brisbane, CA 94005
Retail Price: \$119.95

HESMODEM II & HESTERM II is available at Babbage's for \$101.95. I would like to thank Babbage's for providing this package for review. However, they will probably be thanking me when they find out I am purchasing it! It's outstanding.

PRINTERS Panasonic 1091

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Comal Update

Terry Creasy

Last month we took a look at the differences between OPEN and CLOSED procedures in COMAL. This time we'll study how parameters are passed to and from procedures, and why closed procedures are preferable to open ones.

Passing Parameters

Variable data is passed to a procedure or function in a parameter list. When the procedure is defined the parameters it will expect are listed in parenthesis:

```
proc example(first, second, ref text$)
```

This procedure will expect three parameters to be passed to it when it is called:

```
example (data, datab, string$)
```

If any of the values are missing, or should you try to pass more values than are in the list, an error will occur.

There are two ways to pass variables to a procedure or function; the first transfers values and strings to new variable names.

```
new
auto
0010 //program:
0020 value'one:=7
0030 value'two:= operation(value'one)
    // call Function
0040 zone 2 // set spacing for print:
0050 print value'one, value'two
0060 end
0070 // function
0080 func operation(number) closed
0090 number:=number*2 // double the
    number
0100 return number
0110 endfunc
0120 PRESS RETURN
```

```
run
7 14
```

end at line 0060

When the function OPERATION is executed, the variable NUMBER is set equal to VALUE'ONE, which in this case is seven. NUMBER is doubled and then RETURNed to the main program as variable VALUE'TWO. Notice that VALUE'ONE is unchanged. This can be illustrated as:

OUTSIDE PROC	INSIDE PROC
value'one	number

	set equal	
[7]	— on entry —>	[7]

value'two	number
-----------	--------

	set equal	
[14]	← on exit —	[14]

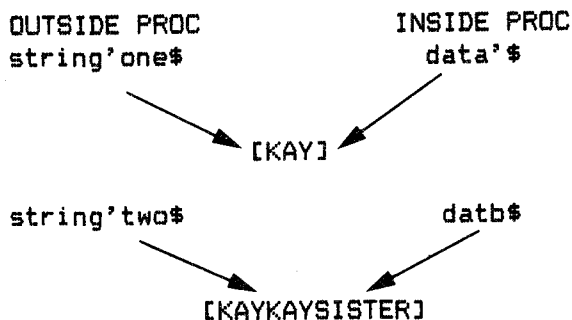
Each variable refers to its own memory location for storing its data. When the procedure is called, the new variable names are given space in memory and set equal to the variables outside of the procedure. In the case of functions, the numeric result is sent back to the calling statement by the RETURN (in line 100). Functions cannot return string data. You must either use a global string or use the reference option in the parameter list.

The reference option for passing variables works like this:

```
new
auto
0010 // program:
0020 dim string'one$ of 40, string'two
    of 40
0030 string'one$:="KAY"
0040 string'change(string'one$, string
    'two$)
0050 zone 2 // set spacing for print:
0060 print string'one$, string'two$
0070 end
0080 // procedure
0090 proc string'change(ref data'$',
    datb$) closed
0100 data'$: data'#+data'$
0110 datb$:= data'#+"SISTER"
0120 endproc
0130 PRESS RETURN
```

```
run
KAYKAY KAYKAYSISTER
```

In this case STRING'ONE\$ is changed to "KAYKAY" and STRING'TWO\$ becomes "KAYKAYSISTER" yet we didn't use an equate (:=) on these variables. The REF in the procedure definition sets the procedure to use the strings that are already dimensioned, or:



Both inside and outside of the procedure refer to the same memory locations, but with different names! The value of the variable is still accessible outside when the procedure is finished as long as the outside name is used.

Why Closed Procedures?

If we have to go through some effort to pass data to and from a closed procedure or function, why write closed procedures? Well, the main reason is that closed procedures save time and effort in writing new programs. Once you have written a procedure that works, you can save it (LIST "PROCEDURE.L") as a sequential file that can be merged (ENTER "PROCEDURE.L") with any program you write in the future. Since the procedure is closed you don't have to struggle with rewriting it to avoid conflicts with variable names. For example:

```
new
auto
0010 //program:
0020 value'one:=7
0030 value'two:=9
0040 dim string'a$ of 40, string'b$
      of 40
0050 string'a$:= "OUTSIDE A"
0060 string'b$:= "OUTSIDE B"
```

```
0070 closed'proc(value'one, string'a$)
0080 zone 2
0090 print value'one, value'two
0100 print string'a$, string'b$
0110 end
0120 // procedure:
0130 proc closed'proc(value'one,ref
      text$) closed
0140 value'one:+value'one //add to
      itself
0150 text$:="PROCEDURE EXEC'D"
0160 print value'one
0170 endproc
0180 PRESS RETURN
```

```
run
14
7 9
PROCEDURE EXEC'D OUTSIDE B
```

There is no conflict with the variable name VALUE'ONE, outside of the procedure; it is unchanged. In this case I wanted the string to be permanently changed by the procedure yet I didn't what name I might use for the string; so I used a REF designator in the parameter list. Finally, by closing the procedure, I have made it certain that no other variables in the main program are affected by the procedure.

The power of procedural programming makes it easier to write new programs based on your earlier ones. You can use these structures to enhance the language in any way you desire. One of the best ways to learn about procedures is to study real procedures that perform useful operations. The COMAL disk has many programs from which you may learn.

```
*****
* If anyone is programming in COBOL *
* using Nevada COBOL and CPM on the *
* C-64, I would appreciate any info *
* and help that I might get in *
* creating a COBOL Operations Disk. *
* Glenn Fuqua, P.O. Box 161, Keller, *
* Texas 76248 Phone:(217) 431-2692 *
*****
```

Managing Disks

David Lovelock

Catalina Commodore Club

QUESTION: Not very long ago I had very few programs for the 64. Now I seem to have hundreds and I am beginning to lose track of what they do. I routinely get a printout of the directory of each disk, but the names of the programs are usually so concise that I can't remember what the programs do, without loading and running them. I am about to tidy up my disk collection - do you have any suggestions?

ANSWER: Yes, at least as far as BASIC programs are concerned. Next time you type in a program start with some REM statements which contain enough information to identify the program. For example, these might include a brief description of what the program does, when written, where typed from, where instructions can be found, who wrote it or who gave it to you. Then months later when you see a program with a title like PROPS on your disk, you can load and run the following little program. It will read the REM statements at the beginning of the program and print them on the screen. It is much faster than loading the entire program called PROPS.

```
100 REM THIS PROGRAM READS REM
    STATEMENTS
105 REM AT THE START OF A PROGRAM
110 INPUT "PROGRAM NAME?":N$
120 OPENB,8,8,N$ + ",P,R"
130 FOR I=1TO2 : GET#B,A# : NEXT
140 FOR I=1TO4 : GET#B,A# : NEXT
150 GET#B,A#
155 IFA*<>CHR$(143) THEN 999
160 GET#B,A# : A=ASC(A+CHR$(0))
170 IF A=0 THEN 140
180 PRINT A#;:GOTO 160
999 CLOSE B : END
```

```
*****
* NOTICE to FT. WORTH CHAPTER MEMBERS *
* *
* Due to scheduling conflicts this *
* month, please note that our regular *
* meeting time has been changed from *
* the third Saturday to the fourth *
* Saturday. Our September meeting *
* will be held on the 22nd at 1:30 PM *
* at the GDRA. *
* The evening meeting will be at the *
* usual time: Sept. 17th, 7 PM at the *
* Precinct Garage, Room 2. *
*****
```

Board Report

The Board of Directors meeting was held Sept. 1 at the Hurst Recreation Center.

TPUG has offered to provide a COMAL Primer and Manual at a reduced price of \$6.95 each. The Board elected to buy of the disk/manual packages. One of the manuals will be provided to each chapter so their members can examine the text at chapter meetings.

It was decided that contest judges will be selected by the chapters plus one from the executive board. Garry Wordelman will represent the executive committee making a total of five judges.

It was decided that a slate of nominees for the 1985 officers needs to be provided to the club members at the October quarterly meeting. Those interested in serving on the board should contact their chapter president. The board recommended that chapters take steps to insure their new officers are elected prior to the club's January quarterly meeting.

The board voted to pay for room expenses incurred by the Arlington chapter in order to provide an introductory training program for all club members. (See announcement on page 9.)

There being no further business, the meeting was adjourned.

HEB News

The August meeting of the HEB chapter was called to order on August 18 by chapter President, Roy Baker. The minutes of the last meeting were read and approved. The program was an excellent presentation of several musical programs for the C-64. A "question and answer" session followed.

The next meeting will be Sept. 15 at 1:30 PM at the Hurst Recreation Center.

NOTICE TO MEMBERS : We are planning a preview of the Jim Butterfield videotape very soon. The tape is directed to new Commodore owners as an introduction to their computer. If you are interested in viewing the tape or in taking part in an introductory class to follow, please contact one of the club officers.

NOTICE TO ALL MEMBERS

* The Arlington Chapter is sponsoring *
 * a short series of classes entitled *
 * "An Introduction to Your Commodore *
 * Computer". The classes will consist *
 * of 4 two-hour sessions and will be *
 * taught by Bill Raecke and Harold *
 * Williams. Students are being asked *
 * to bring their computers to provide *
 * a "hands-on" experience. All MCCC *
 * members are invited to attend. *
 * Plans have been made to begin the *
 * classes in September so if you are *
 * interested in attending call Bill *
 * at 465-2014 as soon as possible. *

Ft. Worth News

Thanks to Charles Hinkley for the program on genealogy which he gave at the August meeting. I know that it held the interest of even those who had previously had no dealings in genealogy. He shared with us his own experiences in tracing his family tree, and showed how available computer programs could simplify the job.

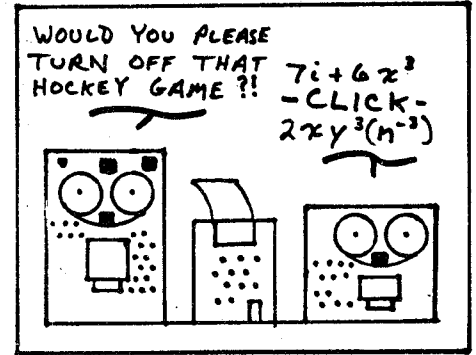
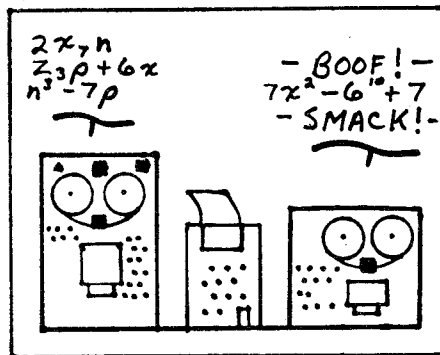
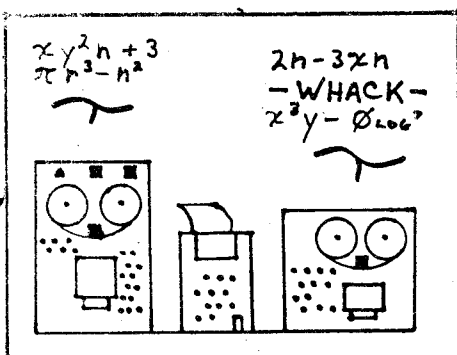
The subject of the September meeting will be music programs. Ray Montoro of the Arlington branch has agreed to give it, after being asked by Mary Louise Hagemeyer, who saw him give it at the Arlington meeting. Her comments on it were very favorable, so everyone should try to make it. The meeting, by the way, will be delayed one week due to a schedule conflict for the meeting room. It will be held as usual in meeting room 2 in the club house at General Dynamics Recreation Center, September 22, at 1:30. Also, there will be an evening meeting on the 17th, 7:00, at the Precinct 1 Garage.

Member Ads

FOR SALE - Info Designs software package for Commodore 64. Includes Acct. Rec./ Billing, General Ledger and Acct. Pay./ Check Writing. Never used. Original cost \$150.00. Will sell for \$75.00. Call (817) 498-3977.

SHORT CIRCUITS

BY PHIL RUFFIN



Hi-Resolution Screen Dump

Reg Knighton

FROM: COMMUNIQUE

Commodore 64 West User Group

One of the Commodore 64's most attractive assets is its powerful graphics. Sprites, high resolution and multicolor modes, programmable characters, etc. offer the C-64 programmer an inviting, expedient environment for generating high quality graphics software. As the software base for the C-64 matures, commercial developers, magazines like COMPUTE!, newsletters, and users groups, all provide a continuously increasing variety of applications, utilities, tools, and the like.

With the capability that the C-64 offers through the software that is increasingly available, it is desirable to have some means of outputting graphic images to devices other than the CRT (i.e. printers, plotters, modems, etc.).

A program is offered here for use with the Gemini 10X dot-matrix printer. It has been tested successfully with the Cardco +G interface. However, using other interfaces (or even other printers) should require little or no modification.

It is supplied as a BASIC program with a machine code subroutine that carries out the bulk of the screen dump task. To use this routine, follow these steps:

1) Type in the listing at the end of this article just as it appears then IMMEDIATELY save to disk with SAVE"HIREZ DUMP.BAS",8 <RTRN>. This way, if it crashes due to a typing error, you have a copy you can edit rather than an entire listing to retype.

2) After SAVEing the program (step 1), type LOAD"HIREZ DUMP.BAS",8 <RTRN>

3) Pressing the first letter of an option on the menu will invoke that option:

Load: Prompts you for a filename then loads the file from the disk drive into the C-64 at 8000 (\$2000 hex), regardless of the file's normal address. This enables any program file to be LOADED and examined on the CRT as a bit-image and then, if desired, dumped to the Gemini 10X.

View: Switches from displaying the menu to displaying the bit-image of the file currently in the C-64. Pressing "V" returns you to the menu.

Margin: Prompts you for a value from 0 to 47. 25 centers the dump on the paper. Changing the Margin value moves the image left or right with respect to the paper. 0 is maximum left and 47 is maximum right.

Print: causes the printout to begin.

Reverse: Prints a reversed image. This is useful for digitized photographs that often appear "negative" with straight translation of pixel data.

One thing to be aware of: if you abort a printout and/or rerun the program, you must turn the Gemini off then back on to provide proper initialization. Otherwise, the first line printed out will be garbage.

The program is on diskette in the club library. Contact Mark Preston.

HI-REZ SCREEN DUMP

```

1 GOSUB7000
3 PRINT"[CD]INITIALIZING..."
5 FORC=0TO174:READD=POKE32768+C,D:NEXT:LM$="25"
100 POKES3265,PEEK(53265)AND239:PRINT"[CLR]"
101 PRINT"[HOME][CR]"
110 FORC=1TO7:PRINT"[CD]";:NEXT
120 A=6
130 PRINTTAB(A)"[RON]L[ROF]OAD FILE FROM DISK"
140 PRINTTAB(A)"[CD][RON]V[ROF]IEW BIT IMAGE OF FILE"
150 PRINTTAB(A)"[CD][RON]M[ROF]ARGIN:";
152 PRINTVAL(LM$);"[CL] COLUMNS FROM "
160 PRINTTAB(A+8)"LEFT EDGE OF PAGE
170 PRINTTAB(A)"[RON]P[ROF]RINT"
180 PRINTTAB(A)"[CD][RON]R[ROF]EVERSE PRINT"
186 IFF$=""THENF$=M$
190 PRINTTAB(A)"[2CD]CURRENT FILE: ";F$;" "
192 PRINT"[CD]";:FORBL=1TO39:PRINT" ";:NEXT
195 POKES3265,PEEK(53265)OR16
200 GETU$:IFU$=""THEN200
210 IFU$="L"THEN1000
220 IFU$="V"THEN2000
230 IFU$="M"THEN3000
240 IFU$="P"THENPOKE32844,234:POKE32845,234:GOTO4000
250 IFU$="R"THENPOKE32844,73:POKE32845,255:GOTO5000
300 GOTO200

```

```

008 REM **** LOAD FROM DISK ****
010 PRINT:PRINTTAB(A)"[CU][RON] ENTER FILENAME [ROF]"
1002 PRINTTAB(A+12);:INPUT"[3CU]";F$
1005 PRINT"[CLR]"
1010 GOSUB6000
1020 OPEN15,8,15
1030 OPEN8,8,8,"O:"+F$+",P,R"
1040 INPUT#15,N,M$
1050 IFNTHENF$=M$
1060 POKE185,0:POKE780,0:POKE781,0:POKE782,32
1070 SYS65493
1080 CLOSE15:CLOSE8
1090 GOSUB7000
1100 GOTO100

1998 REM **** VIEW BIT IMAGE ****
2000 GOSUB6000
2010 GETA$:IFA$=""THEN2010
2020 GOSUB7000
2040 GOTO100

2998 REM *** SET MARGIN ***
3000 PRINT"[HOME]";:FORC=1TO17:PRINT"[CD]";:NEXT
3010 PRINTTAB(A)"[2CD][RON] CHANGE FROM";
3015 PRINT PEEK(32775);"[CL] TO: [ROF][12 SPACES][CD]"
3020 INPUT"[6SPACES]";LM$:PRINT"[CU][25SPACES][CU]"
3030 IFVAL(LM$)<0THEN3500
3040 IFVAL(LM$)>47THEN3500
3500 POKE32775,VAL(LM$):GOTO101
3500 PRINT" 0-47 MAXIMUM PRINTABLE RANGE[CU]"
3510 FORC=0TO1800:NEXT
3520 PRINT"[34SPACES][2CU]"
3530 GOTO3000

3998 REM *** PRINT ***
4000 OPEN4,4,5:PRINT#4:CLOSE4
4010 GOSUB6000
4020 SYS32776
4030 GOSUB7000
4040 GOTO100

4998 REM **** REVERSE PRINT ****
5000 GOSUB6000
5010 SYS32776
5020 GOSUB7000

5030 GOTO100
6000 PRINT"[CLR]":POKE53272,PEEK(53272)OR8
6005 POKE53265,PEEK(53265)OR32
6010 RETURN
7000 POKE53272,PEEK(53272)AND247
7005 POKE53265,PEEK(53265)AND223
7010 RETURN

9998 REM *** MACHINE CODE ***
10000 DATA 27,64,27,65,8,27,77,25,169,4,170
10005 DATA 168,200,32,186,255,32,192,255,162
10020 DATA 4,32,201,255,162,255,232,189,0,128
10025 DATA 32,210,255,224,7,208,245,169,248
10030 DATA 133,251,72,169,61,133,252,72,169
10035 DATA 255,133,253,230,253,24,104,168,104
10040 DATA 105,8,133,251,72,152,105,0,133

```

```

10045 DATA 252,72,162,255,160,8,136,232,177,251
10050 DATA 234,234,157,175,128,152,208,244
10055 DATA 56,165,251,233,64,133,251,165,252
10060 DATA 233,1,133,252,224,199,208,225,162
10065 DATA 255,232,189,175,128,208,6,224,199
10070 DATA 208,246,240,38,169,27,32,210,255
10075 DATA 169,75,32,210,255,169,200,32,210
10080 DATA 255,169,0,32,210,255,162,255,232
10085 DATA 32,225,255,240,24,189,175,128,32
10090 DATA 210,255,224,199,208,240,169,10,32
10095 DATA 210,255,165,253,201,39,208,143,32
10100 DATA 204,255,169,4,32,195,255,104,104,96
10110 REM *** END MACHINE CODE DATA ***

```

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*****
* As of September 1st, the information *
* in our cover story is out of date. We *
* now have 550 members! *
*****
* Arrangements are being made to include *
* a column from the MCCC on STARTEXT. *
* Watch for it in the near future. *
*****
* Persons interested in purchasing an *
* M.S.D. Dual Drive may want to contact *
* Leonard Parker, our Club Co-Librarian *
* at 292-1090. Leonard is trying to get *
* a bulk purchase discount on this *
* popular drive. *
*****

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RULES

1. Your program must be original.
2. You must agree to make the program public domain.
3. You must be a member of the Mid-Cities Commodore Club.

To enter, submit your program on disk or cassette by Oct. 1st 1984 to any chapter president (Your disk or cassette will be returned to you after the final judging.) Prizes will be awarded at the Quarterly Meeting, October 21.

ENTRY FORM

To MCCC,

Please accept this original program as my entry in the "Home or Hobby" Program Contest. I understand that my entry will become public domain and that the decision of the judges is final.

NAME _____ PHONE _____

NAME OF PROGRAM _____

DISK _____ CASSETTE _____

SIGNATURE _____

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