

CC99'ER

Corpus Christi TI-99/4A Users Group
* MEMBERSHIP \$15.00 FOR 12 MONTHS FOR INDIVIDUAL -OR- FAMILY *

* NEXT MEETING *
* WEDNESDAY, OCTOBER 26, 1988 *
* KEDTV (CH16) IN THE COMMERCE *
* ONE BUSINESS PLAZA 4455 SPID *
* MEETING STARTS AT 7:00PM. *

VOL. VI-NO. 10

OCTOBER 1988

C.C., TEX..

FROM THE PRES

NEW MEETING DAY AND TIME

The meeting day and time has been changed, starting with the October meeting. This change was made due to a new policy by Channel 16, no weekend meetings. Terrel Cass (channel 16 director) stated the station was having security problems.

The new dates are Wednesday 10/26 and 11/30/88 at 7PM. The Christmas party will still be Friday, 12/16/88 at 6:30PM.

We will have to make a decision wether to continue weekday evening meetings in '89, or find somewhere else to meet.

NEW DISK DRIVES FOR YOUR TI

If you have been thinking about upgrading your system, you might check out the 3 1/2 inch floppy disk drives that fellow club members have been getting lately. A number of us jumped on the Radio Shack clearance sale on their external 3 1/2 inch DS/DD drives for \$99.95 with a case (TEAC). You can buy these drives mail order for around \$89 (bare drive) to \$129 (w/ kit to mount as a half hight 5 1/4" drive).

They will run double side/single density on a TI disk controller, DS/DD on a Corcomp, and DS/QD (720K) on a MYARC with 90 track rom.

For external use, the TI console power supply fits in the Radio Shack case.

TI-CARE HOTLINE STILL UP!

The TI-CARES (1-800-842-2737) is still in operation, with help for most of your 99/4A problems, four and a half years after Texas Instruments pulled out of the home computer market.

Some other TI numbers that may be of use:

1-806-747-1882 General Info
1-806-741-2663 Tech Info
1-806-741-2265 Repair parts and 2268 for the 99.

Note that these are not 800 numbers.

MYARC - NEW ADDRESS

MYARC has moved from Basking Ridge, NJ to Martinsville, NJ. The new phone number is 1-201-805-0006.

MYARC also has a customer service office: MYARC INC, 2624 Rainer Dr. N.E., Birmingham, Al 35125, phone 205-854-5843. Jack Riley can be reached at this number.

THE TIGERCUB - HANGING TOUGH

Jim Peterson has changed his mind, for the time being, about getting out of the TI 99 business. States he will give it another year. Jim has written some of the best Basic and XBasic programs for the 99-4/A, not to mention his TIPS FROM THE TIGERCUB, and tons of other exceptional articles for our home computer.

Jim is selling his programs at a greatly reduced price and has supplied the user group with his current catalog on disk (some printed copies available at the user group meeting). Check it out!

FUNNELWEB 4.1 NOW AVAILABLE

FW 4.1 is now available. Good things just keep getting better. When you think Tony and Will have done it all, they find something else to improve. The setup program which had been a pain to work with is now fun to use. The directory (SD) function now works from any menu. Numerous other things have been cleaned up and fixed. Available on the buletin board or at the meeting.

WHAT, ANOTHER WORD PROCESSOR?

Yep, but what a word processor. PRESS, written by the author of TELCO will be available November 1, '88 from Asgard Software, \$59.95.

Everything you would expect from a WP, plus:

- pull down windows or command line control.
- user defined macros, text and commands.
- multiple columns, page and column width up to 255 characters.
- 120,000 word integrated spell checker.
- automatically reformats as you type.
- plus many more features.

THINGS ARE LOOKING GOOD FOR THE HOME COMPUTER THAT TEXAS INSTRUMENTS ABANDONED ALMOST FIVE YEARS AGO.....

Bobby Parr

CLUB OFFICIALS - 1988

PRESIDENT: Bobby Parr.....852-4874
VICE-PRESIDENT: Wayne McNabb....853-5677
SECRETARY: Bill Walters....643-5616
TREASURER: Daniel Zapata...851-8133
NEWSLETTER EDITOR: Bobby Parr.....852-4874
LIBRARIANS: REFERENCE: Jim Bures.....853-1887
PUBLIC DOMAIN SOFTWARE: Bill Walters....643-5616
FREWARE SOFTWARE: Bobby Parr.....852-4874

<<< MEETINGS SCHEDULE >>>

*OM-Officers' (tentative)
*MM-Members' Meeting
*CP-Christmas Party

Calendar for OCTOBER showing days of the week (S M T W T F S) and dates with meeting markers (*OM, *MM) for various dates.

Calendar for NOVEMBER showing days of the week (S M T W T F S) and dates with meeting markers (*OM, *MM) for various dates.

Calendar for DECEMBER showing days of the week (S M T W T F S) and dates with meeting markers (*OM, *CP, *MM) for various dates.

= 1 9 8 8 =

MEETING SUBJECT CALENDAR

Table with columns: DATE, TOPIC/PRESENTR, SUBJECT. Lists meeting topics like 'Spread Sheets: More on MULTIPLAN', 'Multi-Sort Utility', 'PRBASE Data Base', etc.

* If there is any change in *
* your address, phone number,*
* etc... please pass the in-*
* formation to: *
* Bill Walters *
* 109 Granby St. *
* Portland, Tex 78374 *
* ph. 512/643/5616 *

* ==MEMBERSHIP INFORMATION== *
* Membership in the Corpus *
* Christi 99'ers User Group *
* will entitle you to the *
* following benefits: *
* -A monthly newsletter. *
* -Access to the CC99'ers *
* software library of pub- *
* lic domain and FAIRWARE *
* programs. *
* -Full access to the CC99'ER *
* bulletin board. *
* -Full access to the CC99'ER *
* reference library. *
* -Access to and help from *
* knowledgable fellow *
* TII99/4A users. *
* -And a number of other *
* benefits. *

* WELCOME NEW MEMBERS!!!! *
* Garner and Bobbie Farrier *
* 633 S. 13th St. *
* Aransas Pass, Tex 78336 *
* David Cave *
* 220 Poesta Dr. *
* Portland, Texas 78374 *

XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
% CC99ER'S %
% BULETIN BOARD %
% "SOUTH TEXAS BBS" %
% (512) 853-3837 %
% 24 HOURS %
% 300--1200 BAUD %
% SYSOP: %
% Wayne McNabb %
% TI and PC Compatable %
XXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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CORPUS CHRISTI 99ERS USERS
GROUP OFFICERS' MEETING,
SEPTEMBER 12, 1988

The meeting was called to order at 7:00 PM by President Bobby Parr. Those present were Bobby Parr, Wayne McNab, Daniel Zapata and Bill Walters.

The program for the next meeting was discussed and the following will be attempted:

1. Barbara Farrier presentation of PLATO educational software.
2. Bobby with "something."
3. Bill on CATLIB.

Meeting adjourned at 7:40 PM.

Bill Walters
=====

CORPUS CHRISTI 99ERS USERS'
GROUP MEMBERSHIP MEETING,
SEPT 24, 1988, MINUTES

The meeting was called to order at 10:45 AM by President Bobby Parr with nine members present.

Barbara Farrier gave a presentation on PLATO educational software. She explained that it requires a PLATO interpreter module, 32K memory expansion and a disk system. The series was developed by Control Data and contains disks on mathematics, science, language arts, social studies and foreign languages. The interpreter module lists for \$49.95 and the individual lessons are \$43.95, except mathematics at \$59.95 and science at \$43.95 (These are TENEX catalog prices.)

Included in the package with the module are a student survey disk to illustrate weaknesses and a chart for entering the results of the individual lessons to show progress being made. The math subjects covered (not all on one disk) include basic arithmetic, Algebra, Plane Geometry and linear equations.

The questions are mostly of the true-false type and on a wrong answer, the program will give information to show why the answer given was incorrect. Each disk is a single lesson and includes

pamphlets for instructions and evaluation of the results of tests included on the disk.

Barbara has used these for her son and they have been responsible for his moving from a failing grade to a good grade. Her husband has also made use of the math lessons for math review (returning to school at CCSU).

Bill Walters then gave a description of CATLIB and CATLIB/COM. The first is a disk cataloger to make a catalog of each disk and a summary list of all programs on all disks as a printed listing in alphabetical order. The output is similar to the MASTERDISK program used to catalog the Public Domain Library. The second is a companion program to add information to the individual files by permitting the addition of remarks and a systematic subject area. This information is added to the files compiled by CATLIB.

Daniel reported a treasury balance of \$240.82.

Bobby advised that Jim Petterson of TIGERCLUB fame has not quit the business as he had previously announced. He will be around for at least another year.

Bobby also brought up that due to security problems on weekends, Channel 16 has notified us that we will no longer be permitted to meet in the building on Saturdays or Sundays. Our first alternate choice is Friday nights, but Bobby will have to get with Channel 16 to schedule our meetings after this date.

Wayne then demonstrated a program downloaded from GENIE that allows transferring the speech programming from a module to disk and playing it back again from the disk. No documentation came with it.

The meeting adjourned at 12:15 PM.

Bill Walters
=====

CORPUS CHRISTI 99ERS USERS
GROUP OFFICERS' MEETING,
OCTOBER 3, 1988 MINUTES

The meeting was called to order at 7:00 PM by President Bobby Parr with the following members present: Bobby Parr,

Wayne McNab, Daniel Zapata and Bill Walters.

The following dates in October and November were given to Bobby by Elizabeth King of Channel 16 for us to select our meeting dates:

WED. 10/26/88 (LAST WED.)
MON. 10/31/88
TUES. 11/22/88
WED. 11/23/88
MON. 11/28/88
WED. 11/30/88 (LAST WED.)

It was decided that Bobby would contact Ms King to reserve the last Wednesdays, October 26 and November 30.

The December 16th date for the Xmas party is still valid. It was decided that the main program for the October 26th meeting would be a presentation on the PILOT language by Bobby.

The meeting adjourned at 7:50 PM.

Bill Walters
=====

I'VE GOT IT!..

...HAVE YOU?

J. B. B. '81

**HARDWARE MANUAL
FOR THE
TI 99/4A**

IT DESCRIBES:

- CONSOLE DESIGN
- CUSTOM CHIP OPERATION
- TMS 9900 H/W ORGANIZATION
- TMS 9900 INSTRUCTION SET
- INTERFACING PITFALLS
- CONSOLE SCHEMATICS
- PEB CARD DESCRIPTION
- GROM SIMULATOR DESIGN
- EXTENDED BASIC MODULE DESCRIPTION & SCHEMATICS

WEEKEND HARDWARE SEMINAR
(INFORMATION AVAILABLE ON REQUEST)

Send \$19.95 Check or Money Order To:
CANADA & FOREIGN SEND \$23.00 U.S. FUNDS
(VOLUME RATES AVAILABLE - ON REQUEST)

THE BUNYARD GROUP
PO BOX 53171, LUBBOCK, TX 79453

then merged.

After an array has been sorted, my program will also let you change any value in any part of the array, and then let you watch the array being resorted. From this, you will learn that a sorting routine which is very fast for a completely random array may be very slow for an array which is already almost in sequence!

In fact, to add just one additional value to a sorted array, the fastest method is the simple "shoehorn" - just set up an empty box at the end of the row, and move each value down by one box until you come to the proper place for the new value.

A sorting routine can be either numeric or alphabetic depending on whether the variable names used are numeric or string. A numeric sort will be in strict numeric sequence and an alphabetic sort will be in ASCII sequence. That means that if all your strings are composed of upper case alphabetic characters, or all are lower case alphabetic characters, you will get an alphabetic sort - but if they are mixed, all of the upper case strings will come before any of the lower case strings, because the upper case ASCIIs are 65-90 and the lower case are 97-122. And if you have lower case words with capitalized initial letters...

For the same reason, if you perform an alphabet sort of strings containing numeric digits, you will not get a numeric sequence - 10000 will come before 2 because 1 has a lower ASCII code than 2. It would be extremely difficult to devise a sorting routine which could sort numeric digits numerically within strings. However, if all the numbers are the same length, such as ZIP codes, the ASCII sort will be numeric.

Sorting a multi-dimension array becomes a very complex task. If you swap values around without also swapping all the related values, you will end up with complete garbage. Swapping all the related values takes time, and a dimensioned temporary variable name is also required.

Another way around this is

to combine the data from an array into simple strings, or set it up originally as simple strings, and then perform a simple sort based on a specified segment of the string. For instance, you could use TI-Writer with tab settings to create a mailing list having first name at tab 1, second name at tab 15, address at tab 25, city at tab 45, state at tab 55 and zip code at tab 65. Then you could sort into last name alphabetic sequence by sorting on `SEG$(M$(J),10,255)`, or into zip code sequence by sorting on `VAL(SEG$(M$(J),70,5))`.

When using TI-Writer to set up such a file, be very sure to save it by PF with the C option, not by SF, and don't leave any blank lines at the end or elsewhere.

Alternatively, elements of data can be crammed into a string separated by control codes, and sorted by position of the code - `FOR J=1 TO 5 :: READ A$:: M$=M$&CHR$(J)&A$:: NEXT J` and then sort on element X by - `SEG$(M$(J),POS(M$(J),CHR$(X),1),255)`

 USING THE MYARC 128K CARD
 WITH A CORCOMP DISK
 CONTROLLER AND THE CORCOMP
 DISK MANAGER

by Bill Walters

If any of you are contemplating purchasing the above combination and attempt to use the RAM disk of the MYARC card with the CorComp disk controller card and disk manager, let me point out one big pitfall that may save you some time, frustration, and, more importantly, money.

The problem is that the CorComp Disk Manager will not recognize the emulated disk feature of the MYARC memory card. For example, if one wishes to load a program or file from a disk to the RAM disk of the MYARC card using the CorComp disk manager, it just won't work.

The usual procedure would be as follows:

1. While in BASIC or XBASIC, partition the MYARC Ram Disk by using the following call:

CALL PART(X,Y)

where "X" is the portion of the 96K that is to be assigned to the RAM disk; let us say all 96K, giving:

CALL PART(96,0)

2. While still in BASIC or XBASIC, set the emulation of the RAM disk for a specific disk drive, for example, drive 3:

CALL EMDK(3)

3. Next, using the CorComp Disk Manager, copy a file from a disk in drive 1, for instance, to the emulated drive 3. When this is attempted, an error message "NO DISK OR NO DISK DRIVE" appears on the screen. The disk manager has failed to recognize the CALL EMDK(3).

All is not lost, however. As the addendum to the MYARC card manual points out, it can be used with the TI Disk Manager module. After completing steps (1) and (2) above, switch over to the TI Disk Manager module and use it to copy files from drive 1 to drive 3. It works like a charm.

Now go back to BASIC or XBASIC and use the following call:

CALL RDDIR

The directory of the emulated disk 3 (RD) will appear on the screen. The directory will show that the files loaded using the TI Disk Manager are, in fact, in the RAM disk file.

Whether-or-not CorComp will modify their disk manager program to be compatible with the MYARC card is not known... probably not. Eventhough one has to use the TI Disk Manager rather than the CorComp, the extra time required is not too bad, especially if one has a cartridge expander.

An attempt was made to use the DM1000 disk manager with different but still unsuccessful results. I tried first partitioning the RAM disk and then emulating disk 1, but was then unable to load DM1000 since it apparently looks on disk 1 for the first command. All I could get was the title

(continued on page 6)

5 TIPS FROM THE TIGERCUB

#45

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TIGERCUB SOFTWARE
156 Collingwood Ave.
Columbus, OH 43213

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Over 130 original programs in Basic and Extended Basic, available on cassette or disk, now reduced to just \$2.00 each, plus \$1.50 per order for cassette or disk and P&M. Cassette programs will not be available after my present stock of blanks is exhausted.

Descriptive catalogs, while they last, \$1.00 which is deductible from your first order.

Tigercub Full Disk Collections, reduced to \$10 postpaid. Each of these contains either 5 or 6 of my regular \$2 catalog programs, and the remaining disk space has been filled with some of the best public domain programs of the same category. I am NOT selling public domain programs - they are a free bonus!

TIGERCUB'S BEST, PROGRAMMING TUTOR, PROGRAMMER'S UTILITIES, BRAIN GAMES, BRAIN TEASERS, BRAIN BUSTERS!, MANEUVERING GAMES, ACTION REFLEX AND CONCENTRATION, TWO-PLAYER GAMES, KID'S GAMES, MORE GAMES, WORD GAMES, ELEMENTARY MATH, MIDDLE/HIGH SCHOOL MATH, VOCABULARY AND READING, MUSICAL EDUCATION, KALEIDOSCOPIES AND DISPLAYS

NUTS & BOLTS (No. 1), a full disk of 100 Extended Basic utility subprograms in merge format, ready to merge into your own programs. Plus the Tigercub Menuloader, a tutorial on using subprograms, and 5 pages of documentation with an example of the use of each subprogram. Reduced to \$15.00 postpaid.

NUTS & BOLTS NO. 2, another full disk of 100 utility subprograms in merge format, all new and fully compatible with the last, and with 10 pages of documentation and examples. Also \$15 postpaid.

* NUTS & BOLTS #3 is now *
* ready, another full disk *
* of 140 new merge-format *
* utility subprograms, all *
* compatible with the pre- *
* vious. With 11 pages of *
* documentation, \$15 ppd. *

TIPS FROM THE TIGERCUB, a full disk containing the complete contents of this newsletter Nos. 1 through 14, 50 original programs and files, reduced to \$10 ppd.

TIPS FROM THE TIGERCUB VOL. 2, another diskfull, complete contents of Nos. 15 through 24, over 60 files and programs, also just \$10

TIPS FROM THE TIGERCUB VOL. 3, another 62 programs, tips and routines from Nos. 25 through 32, \$10 postpaid.

TIPS FROM THE TIGERCUB VOL. 4, another 48 programs and files from issues 33 through 41, also \$10 postpaid.

Here is a versatile printer utility which will accept all printer control codes, print in 1 to 5 columns with choice of column separation and margin width, allow alternate margins and pause at end of page to turn paper over, and will load and print a diskfull of

files one after another. It is set up for the Gemini 10X and may require modification for other printers.

100 DIM M\$(400),F\$(50)
110 GOTO 150
120 K,ST,SET,S,P\$,P,CL,DW\$,S
S\$,I\$,D\$,E\$,NC,CW,TC,TA,TX,A
V,CS,S\$,LT,A\$,LSP,LP,RM,OK\$,
QQ\$,X,F\$(),SL,F,IP,M\$(),T\$,F
LAG,J,PP,LT\$

130 CALL CLEAR :: CALL KEY :
: CALL COLOR :: CALL SCREEN
:: CALL SOUND

140 !@P-

150 CALL CLEAR :: CALL KEY(3
,K,ST):: ON WARNING NEXT

160 FOR SET=0 TO 14 :: CALL
COLOR(SET,2,8):: NEXT SET ::
CALL SCREEN(5)

170 DISPLAY AT(3,6):"TIGERCU
B PRINTALL": :TAB(7);"Copyri
ght 1987":TAB(6);"Tigercub S
oftware" !programmed by Jim
Peterson

180 DISPLAY AT(12,1):"May be
distributed without":"restr
iction providing that":"no p
rice or copying fee is":"cha
rged."

190 DISPLAY AT(18,7):"TURN P
RINTER ON!"

200 DISPLAY AT(20,8):"PRESS
ANY KEY" :: DISPLAY AT(20,8)
:"press any key" :: CALL KEY
(0,K,S):: IF S=0 THEN 200 EL
SE CALL CLEAR

210 DISPLAY AT(12,1):"PRINTE
R DESIGNATION?" :: ACCEPT AT
(14,1)BEEP:P\$:: IF POS(P\$,"
.LF".1)=0 THEN P\$=P\$&" LF"

220 ON ERROR 230 :: OPEN #1:
P\$,VARIABLE 255 :: ON ERROR
STOP :: PRINT #1:CHR\$(27);"@
" :: CALL CLEAR :: GOTO 240

230 DISPLAY AT(20,1):"CANNOT
OPEN PRINTER!" :: RETURN 21
0

240 DISPLAY AT(12,1):"PRINT
SIZE?": : (1) PICA": (2)
ELITE": (3) CONDENSED"

250 ACCEPT AT(12,13)VALIDATE
("123")SIZE(1):P :: PRINT #1
:CHR\$(27);"B":CHR\$(P):

260 !The values 80, 96 and 1
36 in the next line are the
maximum number of pica, elit
e and condensed characters p
er line on Gemini 10X

```

270 !Change as necessary for
your printer!
280 CL=(P-1)*80+(P-2)*96+(P-
3)*136 :: CL=ABS(CL)
290 DISPLAY AT(12,1)ERASE AL
L:"DOUBLE-WIDTH? (Y/N) N" ::
ACCEPT AT(12,21)SIZE(-1)VAL
IDATE("YN")BEEP:DW$ :: IF DW
$="Y" THEN PRINT #1:CHR$(27)
;"W";CHR$(1);:: CL=CL/2
300 DISPLAY AT(12,1)ERASE AL
L:"SUPERSCRIPT? (Y/N) N" ::
ACCEPT AT(12,20)SIZE(-1)VALI
DATE("YN")BEEP:SS$ :: IF SS$
="Y" THEN PRINT #1:CHR$(27);
"S";CHR$(0);
310 DISPLAY AT(12,1)ERASE AL
L:"ITALICS? (Y/N) N" :: ACCE
PT AT(12,16)VALIDATE("YN")SI
ZE(-1)BEEP:I$ :: IF I$="Y" T
HEN PRINT #1:CHR$(27);"4";
320 DISPLAY AT(12,1)ERASE AL
L:"DOUBLE-STRIKE? (Y/N) Y" :
ACCEPT AT(12,22)VALIDATE("
YN")SIZE(-1)BEEP:D$ :: IF D$
="Y" THEN PRINT #1:CHR$(27);
"G";
330 IF P<>3 AND P<>4 THEN DI
SPLAY AT(12,1):"EMPHASIZED?
(Y/N) Y" :: ACCEPT AT(12,19)
VALIDATE("YN")SIZE(-1)BEEP:E
$ :: IF E$="Y" THEN PRINT #1
:CHR$(27);"E";
340 DISPLAY AT(12,1)ERASE AL
L:"NUMBER OF COLUMNS? (1-5)"
:: ACCEPT AT(12,26)VALIDATE
("12345")SIZE(1)BEEP:NC
350 DISPLAY AT(12,1):"COLUMN
WIDTH (NUMBER OF": "CHARAC
TERS?" :: ACCEPT AT(14,13)VA
LIDATE(DIGIT)BEEP:CW
360 TC=NC*CW :: TA=CL-TC ::
TX=TC+NC*2-2
370 IF TX<=CL THEN 390 :: DI
SPLAY AT(18,1):STR$(NC)&" co
lumn of "&STR$(CW)&" charac
ters": "plus 2-column spacing
equals"
380 DISPLAY AT(20,1):STR$(TC
)&" characters; maximum": "av
ailable in print size": "sele
cted is "&STR$(CL)&".": "****
Please reselect****" :: GOTO
240
390 IF NC=1 THEN 410 :: AV=I
NT(TA/(NC-1)):: DISPLAY AT(1
2,1)ERASE ALL:"COLUMN SEPARA
TION?": "MINIMUM 2": "MAXIMUM
"&STR$(AV)&" AVAILABLE ": "2"
400 ACCEPT AT(15,1)VALIDATE(
DIGIT)SIZE(-2)BEEP:CS :: IF
CS<2 OR CS>AV THEN 400 ELSE
S$=RPT$(" ",CS)
410 TA=TA-CS*(NC-1):: IF TA<
2 THEN 450
420 DISPLAY AT(12,1)ERASE AL
L:"LEFT MARGIN WIDTH?": "MA
XIMUM "&STR$(TA)&" AVAILABLE
" :: ACCEPT AT(12,20)VALIDAT
E(DIGIT)BEEP:LT :: IF LT>TA
THEN 420
430 DISPLAY AT(12,1):"ALTERN
ATING LEFT/RIGHT": "MARGIN?
(for pages to be": "later re
produced on both": "sides) (Y
/N) N"
440 ACCEPT AT(16,14)VALIDATE
("YN")SIZE(-1):A$
450 LSP=12 :: DISPLAY AT(10,
1):" ":" ":"LINES PER PAGE?
60": " ":" ":" " " " :: ACCEP
T AT(12,17)VALIDATE(DIGIT)SI
ZE(-3):LP :: IF LP<70 THEN 4
90
460 DISPLAY AT(12,1):"LINE S
PACING - 72 INCH" :: DISPLAY
AT(11,16):"_" :: ACCEPT AT
(10,16)VALIDATE(DIGIT)BEEP:L
SP
470 IF LP/(INT(72/LSP))>11.5
THEN DISPLAY AT(20,1):"WON'
T FIT!" :: GOTO 450
480 PRINT #1:CHR$(27);"A";CH
R$(LSP);
490 RM=TA-LT
500 DISPLAY AT(12,1)ERASE AL
L:STR$(NC)&" columns of":STR
$(CW)&"-character width": "le
ft margin of "&STR$(LT)&" sp
aces"
510 DISPLAY AT(15,1):STR$(LP
)&" lines per page": "with "&
STR$(LSP)&"/72 line spacing"
520 DISPLAY AT(17,1):STR$(CS
)&" spaces between columns":
"right margin of "&STR$(RM)&
" spaces": "OK? (Y/N) Y"
530 ACCEPT AT(20,11)VALIDATE
("YN")SIZE(-1)BEEP:OK$ :: IF
OK$="N" THEN 240
540 DISPLAY AT(12,1)ERASE AL
L:"PAUSE AT END OF PAGE? N"
:: ACCEPT AT(12,23)VALIDATE(
"YN")SIZE(-1):QQ$
550 DISPLAY AT(1,1)ERASE ALL
:"INPUT FILENAMES TO BE": "PR
INTED.": "PRESS ENTER WHEN DO
NE"
560 X=X+1 :: DISPLAY AT(X+3,
1):"FILENAME? DSK" :: ACCEPT
AT(X+3,14)SIZE(-12)BEEP:F$(
X)
570 IF F$(X)-"" THEN X=X-1 :
GOTO 600 ELSE F$(X)="DSK"&
F$(X)
580 ON ERROR 590 :: OPEN #2:
F$(X):: CLOSE #2 :: GOTO 560
590 ON ERROR STOP :: CALL SO
UND(1000,110,0,-4,0):: DISPL
AY AT(20,1):"CANNOT OPEN "&F
$(X):: X=X-1 :: RETURN 560
600 SL=1
610 F=F+1 :: IF F>X THEN 700
:: ON ERROR 620 :: OPEN #2:
F$(F),INPUT :: DISPLAY AT(22
,1):"READING ";F$(F):: ON ER
ROR STOP :: GOTO 630
620 CALL SOUND(1000,110,0,-4
,0):: DISPLAY AT(20,1):"COUL
D NOT OPEN "&F$(F):: STOP
630 FOR IP=SL TO LP*NC :: LI
NPUT #2:M$(IP):: IF LEN(M$(I
P))=0 THEN 670 :: IF NC>1 AN
D POS(M$(IP),CHR$(13),1)<>0
THEN M$(IP)=SEG$(M$(IP),1,LE
N(M$(IP))-1)
640 IF ASC(M$(IP))>126 OR AS
C(M$(IP))<32 THEN IP=IP-1 ::
GOTO 680
650 IF LEN(M$(IP))<=CW THEN
670 :: T$=SEG$(M$(IP),1,CW):
CALL SOUND(1000,110,0,-4,0
):: DISPLAY AT(12,1):M$(IP);
" OVER";CW;"CHARACTERS": "TRU
NCATED TO ";T$:"OK?"
660 CALL KEY(3,K,S):: IF S=0
THEN 660 ELSE IF K<>89 THEN
STOP ELSE M$(IP)=T$
670 M$(IP)=M$(IP)&RPT$(" ",C
W-LEN(M$(IP)))
680 IF EOF(2)=1 THEN CLOSE #
2 :: SL=IP+1 :: GOTO 610
690 NEXT IP :: IF EOF(2)=1 T
HEN CLOSE #2 :: GOTO 720 ELS
E GOTO 720
700 ON ERROR 710 :: FLAG=1 :
FOR J=IP+1 TO NC*LP :: M$(
J)="" :: NEXT J :: GOTO 720
710 STOP
720 PP=PP+1 :: IF PP/2=INT(P
P/2)AND A$="Y" THEN LT$=RPT$
(" ",RM)ELSE LT$=RPT$(" ",LT
)
730 FOR J=1 TO LP :: ON NC G
OSUR 750,760,770,780,790 ::
NEXT J :: PRINT #1:CHR$(12):
SL=1 :: IF F>X THEN STOP E
LSE IF QQ$="N" THEN 630
740 DISPLAY AT(24,1)BEEP:"PR
ESS ANY KEY TO CONTINUE" ::

```

```

CALL KEY(0,K,S):: IF S=0 THE
N 740 ELSE DISPLAY AT(24,1):
"" :: GOTO 630
750 PRINT #1:LT&M$(J)&CHR$(
10):: RETURN
760 PRINT #1:LT&M$(J)&S&M$(
J+LP)&CHR$(10):: RETURN
770 PRINT #1:LT&M$(J)&S&M$(
(J+LP)&S&M$(J+LP*2)&CHR$(10
):: RETURN
780 PRINT #1:LT&M$(J)&S&M$(
(J+LP)&S&M$(J+LP*2)&S&M$(J
+LP*3)&CHR$(10):: RETURN
790 PRINT #1:LT&M$(J)&S&M$(
(J+LP)&S&M$(J+LP*2)&S&M$(J
+LP*3)&S&M$(J+LP*4)&CHR$(10
):: RETURN

```

This is an improved version of the math program in Tips #36.

```

100 CALL CLEAR :: RANDOMIZE
110 B=INT(5*RND+2):: IF B=B2
THEN 110 ELSE B2=B
120 F=INT(5*RND+2):: IF F=F2
THEN 120 ELSE F2=F
130 D=INT(5*RND+2):: IF D=D2
THEN 130 ELSE D2=D
140 X=F*B*D
150 BB=INT(5*RND+2):: IF BB=
BB2 OR BB=B THEN 150 ELSE BB
2=BB
160 DD=INT(5*RND+2):: IF DD=
DD2 OR DD=D THEN 160 ELSE DD
2=DD
170 F=F*BB*DD
180 DISPLAY AT(3,1)ERASE ALL
:"IF";B;"BOYS CAN CATCH";X;"
FROGS IN";D;"DAYS,"
190 DISPLAY AT(6,1):"HOW MAN
Y FROGS CAN",BB,"BOYS","CATC
H IN";DD;"DAYS?"
210 ACCEPT AT(7,19):Q
220 IF Q=F THEN DISPLAY AT(9
,1):"THAT'S RIGHT!" :: GOTO
110
230 DISPLAY AT(9,1):"NO, THA
T'S WRONG."
240 DISPLAY AT(11,1):"IF";B;
"BOYS CAN CATCH";X;"FROGS IN
";D;"DAYS"
250 DISPLAY AT(13,1):"THEN O
NE BOY CAN CATCH";X/B;"FROGS
IN";D;"DAYS"
260 DISPLAY AT(15,1):"AND ON
E BOY CAN CATCH";X/B/D;"FROG
S IN ONE DAY."
270 DISPLAY AT(17,1):"SO, IF
ONE BOY CAN CATCH";X/B/D;"F

```

```

ROGS IN ONE DAY,"
280 DISPLAY AT(19,1):"THEN";
BB;"BOYS CAN CATCH";X/B/D*BB
;"FROGS IN ONE DAY"
290 DISPLAY AT(21,1):"AND";B
B;"BOYS CAN CATCH";X/B/D*BB*
DD;"FROGS IN";DD;"DAYS."
300 DISPLAY AT(24,1):"PRESS
ANY KEY" :: CALL KEY(0,K,S):
: IF S=0 THEN 300 ELSE 110

```

Here's an idea for an unusual title screen -

```

100 CALL CLEAR :: FOR SET=1
TO 8 :: CALL COLOR(SET,1,1):
: NEXT SET :: CALL CHAR(100,
"0",101,"0")
110 X$(0)="4043241818244202"
:: X$(1)="4021261818648402"
:: X$(2)="2020131C38C80404"
:: X$(3)="1010101FF8080808"
:: X$(4)="081010907E111020"
120 X$(5)="080808F81F101010"
:: X$(6)="0404C8381C132020"
:: X$(7)="0284641818262140"
130 A$=RPT$(CHR$(100)&CHR$(1
01),13):: FOR R=1 TO 24 :: C
-C+1+(C-2)*2 :: DISPLAY AT(R
,C):A$ :: NEXT R
140 CALL VCHAR(1,29,1,168)
150 CALL SCREEN(2):: CALL CO
LOR(9,5,16):: FOR S=1 TO 8 :
: CALL COLOR(S,16,2):: NEXT
S
160 DISPLAY AT(5,5):"TIGERC
UB SOFTWARE ";; DISPLAY AT(
8,6):"SQUIRMY SCREEN "
170 FOR J=0 TO 7 :: CALL CHA
R(100,X$(J)):: CALL CHAR(101
,X$(7-J)):: NEXT J
180 CALL KEY(0,K,S):: IF S=0
THEN 170

```

MEMORY FULL

Jim Peterson

Myarc 128k Card -cont from p.5

screen.

Next, I tried to load DM1000 first, hoping that I could drop out of DM1000 to do the partitioning and emulation calls with the RAM disk. No such luck. Nothing that I could do would get me out of DM1000 short of turning off the console which dumped the DM1000 program.

Next I tried to use the OLD and SAVE commands with DM1000 in drive 2 in an attempt to load DM1000 into RAM disk. Again no luck. An I/O ERROR 50 came up on my attempt to SAVE. However, I was able to use DM1000 if I emulated any disk other than number 1, which I was unable to do using the CorComp Disk Manager. If it is satisfactory to emulate other than disk 1, the DM1000 will do the job.



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Requires: 32k memory, disk drive(s), TI Editor Assembler package, Printer/RS-232 recommended.

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with Bill Gronos on assembly!

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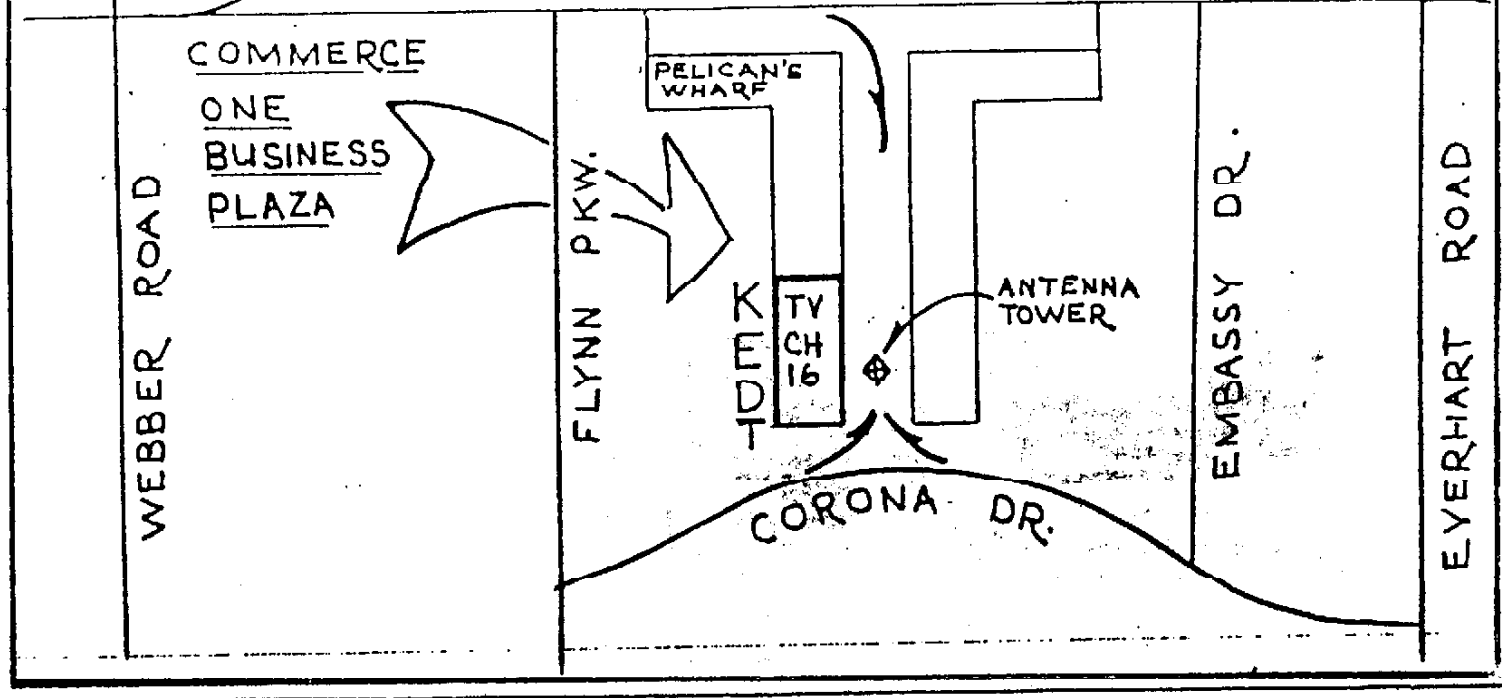
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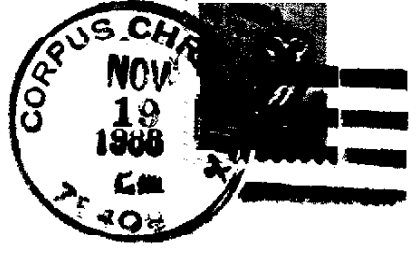
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