



## PRODUCT ANNOUNCEMENT

TIGERCUB SOFTWARE  
156 Collingwood Ave.  
Columbus, OH 43213  
(614) 235-3545

Tigercub Software has released Nuts & Bolts Disk #3, containing another 140 subprograms in MERGE format. Contents include 19 screen character fonts, etc.; 17 screen display routines; 6 screen formatting, 8 plotting, 6 joystick and keyboard, 32 math, 4 time and date, 10 input and accept, 9 string handling, 15 file handling, and 9 miscellaneous routines. The 11 pages of documentation contain a programming example to demonstrate the use of each routine.

The three Nuts & Bolts Disks now provide a total of 348 subprograms which even a beginning programmer can merge into his own programs and use, almost like having another 348 CALLs available in Extended Basic. The price of all three of these disks has been reduced to \$15 each, postpaid.

The four Tips From The Tigercub disks, and the 18 Tigercub Collection disks, have been reduced to \$10 each, postpaid. The 130 individual Tigercub programs have been reduced to \$2 each, plus \$1.50 per order for cassette or disk and postage (minimum order \$10). Cassette orders will only be filled until stocks of blank cassettes have been exhausted. Tigercub catalogs are available for \$1, deductible from first order, until stocks are exhausted.

## POWER SUPPLIES

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BJ Mathis - Southwest Ninety Niners, Tucson, AZ - Apr '87. In February, Steve Lisonbee of SLAVE 99ers in Utah visited us. He noticed our constant problem with lock-ups on our main console. He mentioned the power supply from Radio Shack had solved that problem for many members of his users group. We put new power supplies in both our consoles. Lock-ups caused by what we thought was dirty contacts on our modules, or by Extended Basic have been eliminated. The only lock-ups now are programming errors. One of the consoles we took to the February meeting lost its color, we thought the video processor had gone out. On a chance of fixing it (can't hurt) Jack put in a new power supply, the color came back!

We replaced several power supplies for various members of the group at the General Users Workshop in March. We found the +5 volt line on many old power supplies was putting out around +5.25 to +5.40 volts. On the new power supply we adjusted the +5 volt line to approx. +5 volts. Members who thought they needed new Extended Basic cartridges found their XBasic no longer caused them any problem.

Some of the power supplies we obtained from Radio Shack (Cat.#277-1016) had a unsteady 12 volt line, jumping between 9.5 and 11.5 volts. We were able to return them and found those with incorrect 12 volt lines had a part number on the board (above the serial number) of 1053214-2 the good ones had a part number of 1053201. All the good power supplies had LEDs, so Jack put a neat hole in our white consoles. Now we have a power indicator light, too.

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BUGS!!!

=====

Chick De Marti - LA 99ers, CA - Mar '87. Barry Traver is the publisher of the  
GENIAL TRAVELER Disk-a-zine and author of ARCHIVER, a popular program used to pack a  
number of files into one big package, in order to maintain integrity when  
uploading/downloading to BBS's. In the latest issue of G-T, he announced a minor bug  
in the display of file sizes. This bug did not affect the operation of the program,  
but simply gave some "interesting numbers". Change line 635 to:

635 KK=(Z-1)\*(100\*INT((KK-1)/50)+1)+2-Z

Mike Dodd - LA 99ers, CA - Mar '87. DM1000 has an annoying little bug if you  
happen to own a CorComp disk controller. When DM1000 formats disks in double  
density, it puts 16 sectors/track on the header, even though it formats 18  
sector/track. Which is fine if you keep it on a CorComp controller, because the  
CorComp controller never even heard of 16 sectors, so it doesn't care what the header  
says. HOWEVER, if you send the disk to someone who has a MYARC disk controller, the  
MYARC controller looks at the header and sees "16 sectors per track". It reads the  
disk based on that information. But it's 18 sectors per track! The MYARC card  
reports a blank disk. After having several people complain about my "blank" disks, I  
found a fix for DM1000. For V3.5, edit the first sector of the MGR1 file. At byte  
216, you should see (in hex) 10 00 02 D0 00 5A. Change the 10 to 12. Write the  
sector back out to disk, and never worry about it again. If you are using another  
version of DM1000 that has the same problem (I don't know if any others do), search  
for 10 00 02 D0 00 5A. It should be very close to the beginning.

Jack & BJ Mathis - SW 99ers, AZ - Apr '87. If you have the source code for  
DM1000, you can change it by finding SCT CNT in MGRPRT1, change >1000 to >1200.

THE THEORY OF DARK SUCKERS

by Paul Holgren  
Condensed by Rick Alston

(Reprinted from MADHUG Newsletter, Sept. 1986)

For years it was believed that light was emitted from an electric bulb, recent information has proven otherwise - dark is sucked into the bulb therefore, the bulb is a dark sucker. This theory also proves dark is heavier than light, and dark is faster than light. A few examples follow.

**ELECTRIC BULBS:** There is less dark near an electric bulb than at a distance of 100 feet when it is operating, therefore, it is sucking dark. The larger the electric bulb the more dark it is able to suck, this is easily proven. Also note that when an electric bulb becomes full of dark it ceases to suck dark

and is itself dark, indicating it is full of dark. This phenomenon can also be observed in fluorescent bulbs, the end of these bulbs indicate when they are becoming full of dark.

**CANDLES:** These are primitive dark suckers, the center core is a dark sucker protected by a soft insulator to extend its life expectancy and maintain rigidity. Proof of its dark sucking ability is relatively simple. Examine a new, unused candle. Notice that the center core is not dark. Ignite the center core and allow it to burn for 5 minutes. Notice the lack of dark around the candle! Now extinguish the candle and observe the center core. It is now dark, proving the candle has sucked dark. Moving a pencil through the flame further illustrates the dark sucking capacity of the candle. When this is done, the pencil blocks the flow of dark and dark is deposited on the pencil.

**DARK IS HEAVIER THAN LIGHT:** Dark always settles to the bottom of lakes and rivers. This can be proven by descending into a lake or river, the deeper you go the more dark there is! This phenomena can be observed when looking into deep holes where dark has fallen, proving dark is heavier than light.

**DARK IS FASTER THAN LIGHT:** If you were to open a drawer very slowly, you would notice light going into the drawer. (You can see this happen.) You cannot see the dark leave the drawer. Go into a closet, close the door and turn off the dark sucker. Now have a friend open the door about 1 inch, neither you or your friend will see any dark leave the closet. Now open the door until the closet is half dark. Since 2 objects cannot occupy the same space at the same time, you will not feel any change in pressure by compressing the dark. So it is logical to assume that dark is faster than light.

"There is a new piece of legislation that could screw up modem access by costing us much more to make a call with a modem. This legislation is called "COMPUTER INQUIRY III". Please write to the Honorable Mark Fowler, Chairman of the FCC, Washington D.C., 20554, and tell him in no uncertain terms that this regulation must not be enacted! Please put this message on every BBS you call and include the name and address. Everyone must write."



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MULTIPLAN  
an Electronic Spreadsheet  
by Tom Kennedy

ELECTRONIC SPREADSHEETS...CELLULAR ANALYSIS...FORMULAS...  
CELLULAR REFERENCING... WORKSHEETS...ABSOLUTE REFERENCING...

These are buzzwords of a form of Data Processing that on the surface appears to be incomprehensible to all but accountants and the bridge crew of the Star-Ship Enterprise. As Word Processing is to writing a letter, Data Processing is to using a multiplication table.

Many people have a hard time using spreadsheets, because working with data in this format is similar to learning a new language. But once you learn to use the commands, and the procedure of working with data in a two-dimensional row/column format instead of a one-dimensional equation, you'll find many ways in which Multiplan will allow you to "crunch numbers" faster and easier than using a calculator and notebook. More than that, Multiplan is flexible enough to be used anytime you want to display, or use, numbers or words in a row/column format. In fact, you could even adapt Multiplan to use it as a Word Processor!

What is a spreadsheet? In business, you often hear reference to "our books". The "books" that the businessmen, and you & I, keep are a pen & paper record showing the Debits and Credits of various bills paid and assets gained, plotted against a scale of time. Each intersection of row and column contains an entry for a value. The last column and/or last row contain a summation of all previous columns or rows. In an electronic spreadsheet, you recreate the printed form with the addition that each "cell" (a row/column intersection) can also contain a mathematical equation, or "formula", that automatically acts upon pre-defined cells and displays the result accordingly. If any value in any cell is changed, the formula instantly updates displayed results. This self-maintenance ability is what pays off in using an electronic spreadsheet, such as Multiplan.

To operate the Multiplan software on the TI, you must have 32K memory expansion, and at least one disk drive. An RS232 card and a printer are also handy, but not mandatory because unlike word processing, where the end result is a printed piece of paper, the end result with a spreadsheet is useful data, which may be used many ways. Most worksheets are well over 80 characters in width, (up to 2016!) and this requires a cut-and-paste job, so a wide-carriage printer is preferable.

To load Multiplan, you insert the cartridge and program disk, select Multiplan from the menu, and press <ENTER> to load. Before pressing <ENTER> you can select one of eight screen color combinations by pressing the space bar.

The first thing you will see is a grid across the top and left side of the screen. These numbers are the row and column locations in the top left, or "HOME" position. There are 255 possible rows and 63 possible columns, with the screen framing a small section. Each "CELL" is referred to by its row/column location, such as: R1C1, R10C22, etc. In R1C1, the HOME position, there is a solid rectangle, as large as the width of the cell. This is your cursor, or "CELL POINTER", which is where any entry will appear. Below the cell grid is the COMMAND LINE, which shows the primary commands you will use. There are a number of sub-commands related to each of these, but you must type the first letter of the primary command first, or place the cursor over the command and hit <ENTER>. Below the command line is the MESSAGE LINE, which prompts you for further information when needed. In the bottom left corner is the current cell pointer location, and to the right of that is the contents of the current cell. Lastly, in the bottom right corner is the available memory space remaining.

Appendix A is a list of the twenty commands shown in the Command Line, with the forty sub-commands that apply to each.

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*****
ALPHA The first command given before entering text into the current
      cell location. All alpha-numerics can be used, but numbers will be
      treated as text, and can't be used as values for calculations.

BLANK Used to erase the contents of a specified cell or range of
      cells. Blanked cells retain their location and format.

COPY  Allows you to duplicate any cell or cells in any number, including
      both cell format and content.

DELETE Completely erases a row or column.

EDIT  Allows you to edit the contents of a cell, or the formula in that
      cell, without re-entering the data. Requires careful use of the
      EDIT keys.

FORMAT Defines all of the various parameters of cell width, content, and
      display of data.

GOTO  Moves your cell pointer immediately to any cell, by giving the
      row/column or pre-defined name. Also used to move from one window
      to another.

HELP  Calls up a detailed Helpfile (from disk) that covers the whole
      Multiplan software, including a command summary.

INSERT Inserts a blank row or column, formatted to DEFAULT settings.

LOCK  Protects the cell, or formula, from accidental overwrite.

MOVE  Moves a cell, or group of cells, to specified row/column, deleting
      the original.

NAME  Allows you to give a name to a cell to aid in future references to
      that cell. "Total" or "Sales" are examples.

OPTIONS Covers global options such as RECALC, MUTE, & ITERATION. The most
      important of which is canceling RECALC, to avoid waiting for each
      entry to recalculate the entire worksheet.

PRINT Used to print the worksheet. Before printing, you must first
      define the extent of the field to be printed with MARGINS and
      OPTIONS, then select PRINTLK to start output. PRINT FILE outputs
      to disk instead of the printer to be included into a Word
      Processor file, or other cases where you need the worksheet stored
      in ASCII format.

QUIT  Self explanatory, provides a "safe" exit.

SORT  Sorts entries in cells in a specified column, in either ascending
      or descending order.

TRANSFER Includes six sub-commands which are used: to LOAD, SAVE, RENAME,
      or CLEAR an active worksheet. Also, to DELETE a file from a disk,
      and an OPTIONS command to define disk filename and format.

VALUE Used to enter a numerical value or formula into a cell. This must
      be used for numbers that will be used in calculations.

WINDOW A window is used to overlay one or more portions of a worksheet
      with another. As an example, to hold the titles of columns fixed
      while the data scrolls underneath. The sub-commands define how the
      windows are opened, closed, or linked together. A border can be
      defined to offset it from the worksheet.

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(more)

eXTERNAL Allows related worksheets on disk to be linked as a source of data for the active sheet. Any range of cells can be drawn up for reuse. Multiple worksheets can be linked relative to each other so as to work together.

Appendix B is a list of the Key Functions used in the TI Multiplan version. Most functions have two optional keystrokes choices. This is to allow flexibility as to how you prefer to access them.

#### CELL POINTER CONTROL KEYS:

F-E  
F-X Typical cursor keys, scroll the sheet up, down, left, & right. As in BASIC.  
F-S  
F-D

C-E  
C-X Page scroll. Similar to cursor scroll, except moves in one screen-width or -height blocks.  
C-S  
C-D

C-6 (C-W) Moves cursor to the next window as defined with the WINDOW command

C-3 (C-F) Jumps to the next unlocked, unblank cell to the right, skipping over cells protected with the LOCK command.

C-1 (C-Q) Jumps to the "HOME" position, ROW 1/COLUMN 1, which is the view seen when first starting up Multiplan.

F-1 (C-2) Opposite of C-1 ("HOME"), except stops at the lower right corner boundary of the area you are working on.

#### ACTION KEYS:

<SPACE> In Command mode, (when command choices are displayed) skips through the commands, highlighting each with the cursor. Hitting <ENTER> selects the highlighted command. In the command menu tabs through each response field.

C-H (F-9) (When not editing) Backspaces through the response field, opposite of <SPACE>, to make selections of options.

C-A (C-I TAB key. Tabs over a response field to the next selection. & C-2)

C-C (C-#) Cancels current operation. A failsafe "escape" to abort command selection.

F-4 (When printing file) Aborts printing operation.

<ENTER> Activates a menu selection or command.

F-7 (F-I) Activates and displays the helpfile, which must be on the default disk drive (see TRANSFER OPTIONS)

F-8 Recalculates the entire worksheet when the RECALC feature has been cancelled with the OPTIONS command.

<-, +, & 0-9> Invokes the VALUE option of data entry, as opposed to ALPHA, for text entry.

#### EDIT KEYS:

C-H (F-9) Backspaces through data entry for editing

F-0 (C-Y) Single-character delete.

C-4 (C-L) Skips to the next character right (like "F-D" in BASIC)

F-4 (C-K) Skips to the next character left (like "F-S" in BASIC)

C-5 (C-P) Skips to the next word right.

F-5 (C-O) Skips to the next word left.

C-7 Changes all relative references to cell locations (I.E. R+1C+2) to absolute references. (I.E. R2C5)

Upon selecting a command, a command menu appears with a number of response fields shown. In each response field is a proposed response, which is the default selection unless you change it. To use a command, type it's key letter and fill in the response fields. To move through the fields, use the tab key until the cursor is highlighting the correct area. Type in your response, and either tab to the next field or hit <ENTER> to activate the command.

When the necessary response is a row/column cell reference, there are two ways to respond: Absolute and Relative. Absolute referencing is a numerical definition of the cell location, such as R5C10 (the intersection of ROW 5 and COLUMN 10). A group of cells, a RANGE, is called by giving the boundary intersections separated by a colon(:), such as: R2C1:R4C10 defines a 3-by-10 cell grid consisting of columns 1 through 10 on rows 2 through 4.

Relative referencing involves identifying the desired cell by displacement from another cell, usually the one the cell pointer is currently on. As an example, if you are on row 5, column 10, (R5C10) and you wish to refer to a cell two rows up and three columns over, (R3C13) you could type in R-2C+3 or use the cursor keys to move the cursor over R3C13.

The relative address will automatically update as you move. When the cursor is in place, hit <ENTER> (or tab to the next field) and the reference is defined.

So far, I have covered what you see on the screen and in response to the various commands; what the commands and key functions are; and how to fill in response fields where needed. Before going on to building a worksheet, you'll need to know how to save what you're working on, and how to load it back in. Besides the fact that you'll want to take a break occasionally, it's nice to be able to experiment with the commands, "messing up" the worksheet, and then loading the "clean" version back in to continue.

The LOAD and SAVE commands are under the command TRANSFER (a lousy name). Hit "T" and the menu will be displayed. Since the first option is LOAD, hitting <ENTER> now will prompt for a filename. To select SAVE, (or another option) hit the first letter and <ENTER>, or tab through to the desired item and hit <ENTER>. When loading or saving, you'll be prompted for a filename the first time, which will become the default response.

Multiplan also incorporates an extensive helpfile contained on disk. When the command line is displayed, you select HELP with either the help action key (<AID> or "?") or by typing "H". The worksheet will be replaced by the beginning of the helpfile. If a command has been selected, hitting the help key will display the specific section of the helpfile that pertains to the command you are using. The help menu allows you to RESUME (return to command menu), START at the top of the helpfile, or move to NEXT or PREVIOUS page of information.

(more)



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 FORTH Source Code "B"  
 TI Graphics/Sound Demo  
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 DATA 2 ..... John Volk  
 DATA 3 ..... Clearing House  
 DATA 4 ..... " " "  
 DATA 5 ..... " " "  
 DATA 6 ..... " " "  
 DATA 7 ..... " " "  
 DATA 8 ..... " " "  
 DATA 9 ..... " " "  
 Doodles ..... Howie Rosenberg  
 Sonnets ..... Howie Rosenberg  
 XB Loader ..... Tom Freeman  
 System II ..... Gene Hitz  
 System A ..... Gene Thomas  
 System A Source.. Gene Thomas  
 Utility4th ..... Rich Bailey  
 Utility4th Source Rich Bailey  
 FORTH Manual ..... 5 Disks  
 FORTH TUTOR(1-6) George Smythe  
 FORTH TUTOR(7-12) George Smythe

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Pages

Beginning MSP 3  
 Customizing Edmonton 2  
 Disk Fixer Edmonton 1  
 Loops NewHorizon 1  
 Parameters Dimensions 1  
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 Arrays Milwaukee 3  
 DSDD Milwaukee 1  
 Autodecimal Milwaukee 1  
 Stack Use Kentucky 1  
 Floating Pt KY & VAST 5  
 Bit Map Kentucky 5  
 FORTH Glossary 9  
 Windowing Lehigh 3  
 4th-Riter Milwaukee 1  
 Grid-Plot C.A.F.I.G. 2  
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 System A documentation 5  
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 NOTEINDEX Documentation 1  
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 GPL Compiler/Decompiler ..... Ottawa UG  
 FORTHPLAN ..... H.H.Arnold  
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 DATA 2  
 Disassembler - XB->Forth - Life - Breakforth - Micro Jaws - Screen Dump  
 DATA 3  
 Disk Init - Fast Copy - Shoot'em Up - Number Race - Disk Fixer - DSR Peeker  
 DATA 4  
 Cosmic Conquest - Decompiler - File Transfer - Calendar - Slot Machine - Speech  
 DATA 5  
 Grid Plot - Talking Editor - Body Snatchers - 4th Riter - Sound Control  
 DATA 6  
 Disk Utilities - Windowing - Alpine Skiing - Sketcher - Music Routines  
 DATA 7  
 Terminal Emulator - DS/DD Alterations - Primes/Factors - Graphics - Bug Catcher  
 DATA 8  
 Fast XB Load - Lower Case - Balance Game - Screen Dump - Freq Synth - Fractals  
 DATA 9  
 Sector Dump - Reverse Video - Turtle Graphics Demo - DrawGrid - Pick & Roll  
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 DSR Peeker - Decompiler - Screen Dump - Auto Repeat Keys - Auto Decimal  
 System A  
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