

1985

MEETING SCHEDULE

FIRST SUNDAY OF EVERY MONTH (2nd Sunday if 1st Sunday is on a holliday weekend)

HUG TIBBS - (713) 699-2073 24-hour BULLETIN BOARD

SET "A"
SET "A"

5/0 F. Lumpkin

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Houston Texas

713-469-5089

AT THE NEXT MEETING

SUNDAY, MARCH 3, 1985 2:00 P.M. SHARP

St. John's School - 2401 Clairemont

The HUG meeting program this month will feature a Mini-Tutorial on how to type, load, and run a previously written program in the Bas/Ext-Bas, Assembly, Forth or Pascal languages. (see page 2)

IN THIS ISSUE

NEXT MEETING KEYBOARD REVIEWS PRESIDENT'S REPORT
INTERRUPT SWITCH
LIBRARY UPDATE

BUSINESS USE MINUTES & MORE

1985 HUG OFFICERS

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MARCH HUG MEETING

by Sandor Karpathy

VP/Programs

When was the last time that you opened up a magazine and found a good program that would do just what you wanted it to do, only to find that it was in Assembly Code? Now what do you do? You have the Editor/Assembler (which you haven't even opened), but how do you type in the program and make it run? This is the question that we will try to answer.

This months' HU6 program will deal not only with Assembly programs but also Bas/Ext-Bas, Forth, and Pascal programing. Four Mini-turorials will be given in the basic method of loading programs that you have not written yourself but have found in magazines, copied from BBS systems, or obtained from the HU6 Library. We will try to provide in each of the above four areas a demonstration on how a program can be typed, loaded, and run. Possibly, even a short section will be provided on what major items should be looked for if the program does not run.

In addition to the tutorial, handouts with detailed step-by-step procedures will be provided. Our four EXPERTS, who will conduct the meeting are:

Tony Johnson - Ed/Assy
David Mather - Bas/Ext-Basic
Larry Pipkin - Forth
Paul Hutmaker - Pascal

So, if you have basic questions in any of the above areas, bring them along and come and learn. After the meeting you will be able to contact our librarian "Mr. Bill", and get some programs out that you once thought were beyond your capabilities.

TI KEYBOARD

The following program listing will give the ASCII codes for any key depressed on the keyboard of your TI 99/4A. The only exception to this is the QUIT (FCTN =) and in order to help in debugging I have placed an exclamation point in line 100. This enables the CLEAR (FCTN 4). The ! acts as a REM and should be removed and the program SAVEd before RUNning.

There are things about these code numbers which have been going around for quite some time, but this program will give information that many, myself included, did not know. An example of this is that some keys when depressed will a different ASCII code if BOTH CTRL and FCTN are pressed at the same time.

If you are one of us which enjoy learning new things this program may very likely become a treasure in your personal library.

You will also notice that there is no consistancy in the PRINT statements in this program. That is bad programming practice but it will help you learn that there are many different ways to do the same thing. The program is written in BASIC, but will also run in EXTENDED BASIC.

310 ON K GOSUB 330,350,370,3 1 !SAVE DSK1.KEYBOARD 90,410,430,450,470,490,510,5 100 !ON BREAK NEXT 30,550,570,590,610 110 CALL SCREEN(11) **32**0 6**010** 230 120 CALL CLEAR 130 PRINT "THIS PROGRAM RETU 330 PRINT "(AID)"; K RNS ASCII": "CODES FOR MOST 0 340 RETURN F THE KEYS": "ON THE KEYBOARD! 350 PRINT "(CLEAR)"; K 360 RETURN 370 PRINT "(DELETE)"; K 140 PRINT : : "EXAMPLE:": : 380 RETURN "THE ENTER KEY IS PRESSED": " 390 PRINT "(INSERT)"; K AND ASCII CODE 13 APPEARS" 150 PRINT : : "THIS ALSO GIVE | 400 RETURN S CODES FOR": "FCTN & CTRL CH (410 PRINT "(NOTHING.....)"; K 420 RETURN ARACTERS." 160 PRINT : : "SOME KEYS RETU | 430 PRINT "(REDO)"; K RN A DIFFERENTASCII CODE WHE 440 RETURN N FCTN & CTRL ARE PRESSED AT | 450 PRINT "(ERASE)"; K THE SAME TIME" 460 RETURN 170 PRINT : : "PRESS PROC'D | 470 PRINT "(S LEFT)"; K TO BEGIN. " 480 RETURN 490 PRINT "(D RIGHT)";K 180 CALL KEY(0,K,S) 190 IF K=12 THEN 200 ELSE 18 | 500 RETURN 510 PRINT "(X DOWN)";K 200 Call Clear 520 RETURN 210 PRINT TAB(9); "PROGRAM B | 530 PRINT "(E UP)"; K Y: ": :TAB(8); "BERNARD FALKIN | 540 RETURN 550 PRINT "(PROC'D)";K 220 PRINT : : : : : : : : 560 RETURN 230 CALL KEY(0,K,S) 570 PRINT "ENTER"; K 240 IF SK1 THEN 230 580 RETURN 250 IF K()32 THEN 280 590 PRINT "(BEGIN)";K 260 PRINT "(SPACE BAR) 32" **600 RETURN** 270 60TO 230 4 610 PRINT "(BACK)";K 280 IF K<16 THEN 310 620 RETURN 290 PRINT CHR\$(K);K **630 END** 300 60TO 230

SORRY 'BOUT THAT

In the February newsletter SLEEVE program listing: in line 200 change the % to & in line 240 add quotation marks at the end of the line in line 360 add a space and a B so that the end of the line will read NEXT B

SCREEN DUMP

HU6 Library #1380

This program is an assembly language screen dump which will dump BASIC, Extended BASIC and COMMAND MODULE screens to your printer. It requires Memory Expansion and the XB-Module for XB screens and the E/A Basic for BASIC screens. For dumping Command Module screens, an interrupt switch is required (see article in this newsletter). The interrupt switch may also be used for dumping the other types of screens as well.

The program comprises 330 sectors of disk space and includes the source codes and 4 pages of printed documentation. It will dump either normal size, double size (6X8), rotation of 90 degrees, tab settings for spacing and inverted image. The documentation is easy to understand and gives you samples of CALL LINK statements to use to get the different types of printout. The program takes only about a minute to dump a complete screen to your printer.

The only drawbacks I see with this program is that it does not have shadowing (the colors are either black or white) and it will not print sprites (no screen dump will do that at this point). The program was written by Danny Michael of Florence, Alabama and I must congratulate him on such as great program. Anyone who has a printer capable of screen dumps should have this program in their library.

—Bill Knecht

BUILDING AN INTERRUPT SWITCH

An interrupt switch is used to stop the action of a program and go to another memory location, while not changing the screen display. This is handy when you are trying to do screen dumps to a printer. In order to do this, you need an interrupt switch. One can easily be built for less than \$2.00 and installed inside you speech synthesizer box.

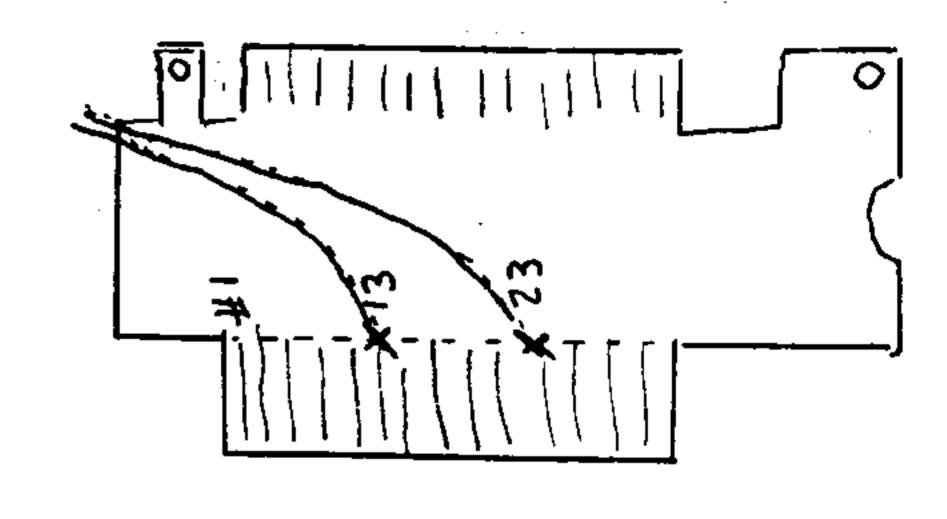
You will need a Subminiature Push Button Switch (Radio Shack No.275-1571), two pieces of insulated wire about 6 inches long (bell wire will do), a drill the size of the switch, a soidering iron and heat sink, and a small phillips-head screw driver.

Disassemble your speech synthesizer to get to the population to board inside. Take the outer plastic case of the synthesizer and open the door. You will need to drill a hole in the right—hand corner to mount the switch (as close to the corner as you can get). It might be best to drill it from the inside. Before mounting the switch, soider the two wires to the terminals of the switch, using

a heatsink to prevent damage. Next soilder the other two ends of the wires to pin 13 and 23 of the pc board. Note: When counting pins, count 1,3,5,7,etc. (SEE DIAGRAM) Replace the metal cover over the pc board and place some tape at points where the wire passes thru. Secure the switch in place and install the plastic cover.

If the computer seems to lock up when you turn it on, you have something hooked up wrong or a short. If you have any questions about this, call Cecil, Larry or syself.

-Bill Knecht



PRESIDENT'S REPORT

I would like to say thanks to all of you who attended our last meeting. It seems like we keep filling the room beyond capacity. The board is looking into the fact that many people had to stand up and we hope to have a solution soon. If you missed the meeting, you missed a chance to meet one of the best ascembly languages programmers around. Gregg Wonderly, from Oklahoma, took time out to come down to speak to us. Additionally, he presented us with some fantastic programs for our library. We now have a data base program, a menu generating program, the digitizer program and several others. Be looking for the library numbers at the next meeting.

There are still quite a few of you who have not paid your dues for 1985. I personally cannot see why someone would not want to renew. The newsletter subscription is worth the \$15.00, let alone the access to the library, the meetings, the special interest groups and the fellowship. If you have not paid your dues, please do so immediately to keep from having to pay another initiation fee later.

This upcoming meeting looks to be something for everyone. If you type in programs from publications, get errors and don't know what to do, be at the meeting. If you have FORTH and don't know how to use it, be there. If you just want to get out and socialize, see you Sunday.

Bill Knecht

COPIER PROGRAMS

NIBBLER:

NIBBLER by STARSOFT has features that many copier programs do not have. It has an auto load feature in XB, works with single or multiple drives, single or double sided, single or double density and is capable of reading and writing from one selected sector to a complete disk full. It will also read at one address then write to the same or different address on the same or different disk or drive. No, you can't change information as with DISK FIXER, but Disk Fixer is not capable of writing more than one sector at a time as Nibbler can. So if you are in disk repair as I am you really need both.

Nibbler also keeps you informed of reading, writing, and current or last sector number in HEX. If you are using this program and a problem is incurred it will stall showing an error and the sector on which it stalled.

The version 1.2 had problems initializing above SSSD but version 2.0 seems to have overcome those problems.

By not letting it read the sector bit map you can make backups of nearly all your protected disks. (Quality 99 Software not included)

If my limitations were to have only one copier program, NIBBLER would definately be the one of all that I have seen. I consider this to be more of a utility than just a copier program ... so to the best of my knowledge it is in a class all its own.

Best buy? ... At a cost of less than twenty dollars the price is very reasonable compared to other copier prices.

QUICK COPYer II:

QUICK COPYER II by QUALITY 99 SOFTWARE may be loaded in XB or EA/5 and has at least two features which stand out to users of the program.

You are allowed to initialize (any format) then without copying, initialize again. The initializing policy appears to be stronger than any other that I have seen. At times with a disk which appears to have a bad but not destroyed sector in it I reinitialize with QC II and the bad sector becomes usable.

The other outstanding feature is that it extremely hard but not impossable to get a backup copy and most of us prefer to use the backup copy and store the origonal program to keep it from becoming destroyed. (this policy is

recommended by some software companies)

7% 1.1 259 ft 1 de 2

This is probably one of the easiest to use copiers on the market and is versitle in the fact that it will allow you to copy files or a complete disk.

As a copier my rating is 6000 ... but was man initializer, BEST I've seen yet. ... Cecil

(2) 大力のようでは、これのようでは、これの表現が課金

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TI 99/4A AND ENGINEERING

They may have sold it in K-Mart and Toys 'R' Us, but it definitely is not a toy. The TI 99/4A is fully capable of handling a wide range of problems found in the world of business, science and technology.

But a glance at our NUS Library Catalog shows that there aren't any programs available in science and engineering. We know that there are many problems in these fields which can be solved quickly and easily with the computer, eliminating tiresome manual iterations. Complete equations will yield error free results. The effects of changing one or more variables is a specific equation can be examined in just about the twinkling of an eye.

So, come on, all you NUG engineers and scientists. If you have or can think of public domain programs, whether in electronics, structures, mathematics, heat transfer, fluic mechanics or chemical processes, ect., don't think they will not be of interest to our members. SHARE them. Write them, with enough "REN" statements or other documentation to allow someone to pick up the listings and understand how to use them. Then submit them to Blll Rister, our librarian. You'll be glad you did. Because you will help another fellow engineer, scientist or technician in his work. And you'll get four free programs to boot from the library for each program accepted.

Finally, our computer will be on its way to filling a need which as yet has been unrealized, as a scientific and engineering tool for the future.

Sandy Herman Advanced to the second s

Approximation of the second

EDITORS NOTE:

At the last HUG meeting Sandy gave me this article and gave Bill Rister five programs which are in this months LIBRARY UPDATE. THANKS and a note of APPRECIATION from me personally and as HOUSTON USERS EROUP editor to Sandy for his participation. ... Cecil

BUSINESS USE OF THE 99/4A

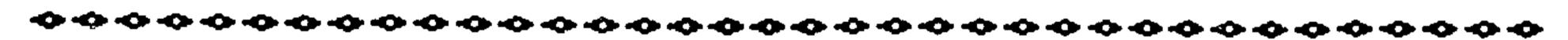
I have been using the II-99/4A for serious business purposes for over three years and have found it to be very capable and reliable. My wife and I own and operate a bookkeeping and tax business and we place extremely heavy usage on our computers. We have found that the 99/4A, with the proper software, naturally, is a real workhorse. We have had to replace three disk drives and, until several months ago, were exchanging a computer at the II exchange center about once each five months or so. The computer exchanges were required primarily due to wear on the contacts in the cartridge slot by numerous cartridge changes each day. After a period of time, no amount of cleaning will correct the problem of screen freeze-ups. The only thing for most of us non-technical types to do is to exchange the computer for another one. If you stop and think about it, we really have it a lot easier than the users of most other computers since we can get a "new" computer within a couple of hours or so and be back in business.

Oh yes, I have been using cartridge extenders for the last eight or ten months and they have more than doubled the useful life of my computers before "maintenance exchange" is required. I highly recommend these useful devices for those of you who switch cartridges frequently and who to not tend to swing your arms wildly. You do have to be pretty careful not to bump or hit the cartridge extender or the vertical cartridges in it. I have found that the little care necessary is well worth the effort. I like this device.

I am using two full 99/4A systems, each with two single-sided, single-density disk drives. During 1984, we also added two Compaq computer systems to our office inventory. This was necessary because some of the work we are doing requires more memory than is available with the 99/4A. I mention this because I want to make the point that this only makes me realize just how capable a machine the 99/4A is. It was ahead of its time and poorly marketed by II, but I am still impressed by it, even when comparing it with newer and more expensive computers. I am presently using the II's for about seventy percent of my computer work and the Compaq's for about thirty percent. I am sure that these percentages will vary in the future but the point I want to make is that the 99/4A holds its own in the world of small business.

For those of you who might have been wondering if you could use your 99/4A in serious business applications, let me say a very enthusiastic "YES". The spreadsheets, word processing programs, utility programs and other available software could help make it very feasible for you to make better use of your computer. I started out with the original TI-99/A and a tape recorder which I chose, after such deliberation, over an Apple II. I have never been sorry about my choice and have had the opportunity to expand my system to be a serious business tool.

WAYNE WRIGHT



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4 1

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NAVARONE DATA BASE MANAGEMENT \$54.95	*******************
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ATTENTION TI-GENEALOGISTS

The Micro-Genealogy group, which meets the second Friday each month (7 p.m. at the Church of Jesus Christ of Latter Day Saints, 5531 Beechnut at Mullins) presents good programs. Computer genealogy is coming of age and of this generic, only 2 or 3 folk have TI-99/4As, so, if you were looking for such a group, come join us. Agnes McCabe and I are looking into organizing a SIG within TI-MUG, so if you are interested contact Agnes at 667-0235 or me at 668-4500. There are many very sophisticated genealogy programs written for IBM, TRS-80, Apple, TI-Pro, and Commodore 64. Unfortunately, the ones we have been able to locate for TI-99/4A are sad by comparison. However, we are seeking a programmer to convert one to ours. If there is anyone out there interested, in doing the conversion, or just joining us, give us a call. CHIA GREER

MINUTES TI-HUS Feb. 3, 1985

President Bill Knecht welcomed another standing room only group. Program Vice President, Sandor Karpathy introduced the guest speaker, Gregg Monderly, an Oklahoma State University Computer Science Senior who two years ago became interested in the TI-99/4A. He presented considerable information concerning this computer, explaining in non-technical language the GPL, the GROM, and various aspects and capabilities of the computer. He has written and provided for the Library a number of useful programs which will soon be available in our catalog.

Membership Vice President Don Lewis advised that the total registered (new and renewals) totals 85 with 124 renewals outstanding. Anyone not renewed by the end of February will be dropped; (to rejoin will be obliged to pay as a new member).

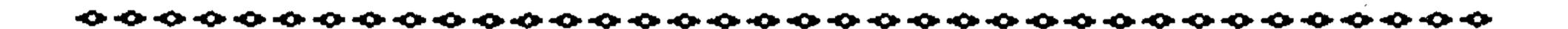
Treasurer David Mather reported total income received for the period as \$1624.00, with expenditures in amount of \$547.05. A copy of the complete report will be filed in the Minute Book.

Because of limited time the reading of the January Minutes was postponed, and it was agreed to include them in the Newsletter with the February Minutes. Librarian Bill Rister asked that everyone pick up the current catalogue from S.I.G. V.P. Larry Pipkin, announcing that the addendum will start with the March Newsletter.

New programs, modules and other software was shown by Mike Matula, M and S Computer Systems.

An ad hoc committee was suggested to study and propose By-Laws and a Constitution toward non-profit structuring.

Respectfully submitted, Lucia C. (Chia) Sreer



M I N U T E B TI-HUG Jan. 6, 1985

The first meeting of the new year was called to order at 2:00 p.m. by President Bill Knecht. Reports by Vice Presidents were presented, Membership, Don Lewis, Special Interest Groups, Larry Pipkin and Programs, Sandor Karpathy, followed by ammending then approval of the December meeting minutes, and Treasurer David Mather's report. Sysop Stephen Foster, announced the BBS was expanded to include 17 file areas on 7 levels with 1574 calls received since December. Jon Jay, Exec. Ass't. congratulated the meeting noting the standing room only attendance.

Program panelists were Don Lewis, discussing good programming practices (with a hand-out) including a string editor and subroutine. William Shields, a high school senior provided information on Pascal, Mark Crump, a high school computer math teacher presented another aspect of utilization of the TI 99/4A and Gary Curry, pastor of an area church, related his background experience in computers.

A MOTION was introduced by Larry Pipkin, seconded by Kent Purdy that Stephen Foster be reimbursed for his personal expenditure in amount of \$159.17 for the purchase of a Card for the Bulletin Board. MOTION PASSED.

Respectfully submitted, Lucia C. Greer, Secretary

HUG LIBRARY CATALOG ADDENDUM

March 1985

- 147 CONFUTER COMPSESSE, 32K & Disk Rqd., Speech & TI-Writer Opt. Copyright 1983 by Ramsoft Enterprises. Permission granted HUG. Screen instructions or print with TI-Writer with DSKn.INSTRUCT. Do not cover the write notch. Place disk in drive 1 and place your bets....GREAT GAME! SSSD Disk Required
- 148 SAIL HESSITI-D You must visit 3 islands in your sloop. Educational game teaches navigation. 15 sectors
- 149 GMLAXYLAMBOSIB Written in Extended Basic by John Benke, this program allows you to try your hand at landing on any of the planets in our solar system. Use keyboard arrows to maneuver. 36 sectors
- 150 ICMLINEOUSE Another of John Benke's programs, this one allows from 1 to 4 players to try their skills at bowling. Using the E and X arrow keys, you can find the pocket for a perfect strike. 15 sectors
- 151 15-PUZZLESSTI-B Runs in either basic or x-basic to play the game we all remember of trying to line up the 15 numbers in a 4 x 4 grid sequentially. 10 sectors
- 152 REPTH CHARGE SAXB Written by Todd Kaplin, this game pits your destroyer against the submarines below. Use the ENTER key to fire your depth charges, but watch the time! 27 sectors
- 153 SKY RESCREPAND Joysticks Rod. This game lets you fly a plane with the joystick to rescue prisoners below, but watch out for the quided missiles! 19 sectors
- 154 STUMYNOEKERS, 32K & Disk Rqd. This well written story game creates a custom made story by entering nouns, verbs, etc. on prompts. 59 sectors
- 737 CHRISTIMS CARBOATI-B Novel cartoon graphic by John Sewell. 13 sectors
- 780 PERCENDENTI-D Punlover's Christmas card by John Sewell prints a pun on the screen. & sectors
- 933 MAIL LAMELSETI-B, Printer Rod. Prints standard size mailing labels from your files. 7 sectors
- 734 HERER LISTERII-B, Disk & Printer Rod. Search, add, & delete files and print roster list. 18 sectors
- 935 AIR/TEMP/VILLEE EFFECTRATI-D This heating & air conditioning utility calculates change in volume (cfm) required for change in room temperature. 3 sectors
- 936 PIPELINE PRESSURE EMOPSETI-B, Printer Opt. Calculates pressure drop in new steel or cast iron pipelines. 9 sectors
- 937 NEAT INVESTERENTI-8 Calculates the heat transfer coefficient for water cooling and heating systems. 4 sectors
- 938 PIPELINE FLEMENTI-8 Calculates pipeline velocity in ft/sec and minimum butterfly valve closing time in seconds using known flow rates and inside pipe diameter. 4 sectors
- 939 VESSEL BRAIN TIMESSTI-B Calculates drain time in minutes and seconds of known size vessel, liquid height, and oriface size. 5 sectors
- 1125 SIMILARITY STITE Given the measures of the corresponding sides of a triangle, this program by Matthew Cowan determines whether the triangles are similar. 3 sectors
- 1126 PERIMETERSSTI-B Given the measures of the sides of a triangle, this program by Matthew Cowan finds the perimeter of the triangle. 2 sectors
- 1127 PRESIDENT. ACTIVITIES STITE, TE-II & Speech Opt. This is one of the first programs written by John Hoeller for his preschooler to provide some interaction with the computer. Written in basic with TE-II and Speech optional, it guides a child through number guessing, color matching and beginning typing skills on the computer. 22 sectors
- 1128 SPELLING PROGRAMBIAND, 32K, Disk & Speech Rqd. Menu driven program compiled by Cliff Donahoo teaches spelling and builds vocabulary. 255 sectors
- 1328 NIMITER STATE This program will calculate and display an approximate set of maximum usuable frequencies for communication from one point to another point on the globe. Input needed is the location of each point by latitude and longitude, the date of desired communication, and the sunspot number for that date. 29 sectors
- 1387 LANG MACEMENTI-B, Disk & Printer Rqd. Catalog disk & print to gummed labels. Similar to program 1373 but with standard size type. 10 sectors
- 1390 JUNSTICK TESTERERS. Joysticks Rqd. Run this short utility to perform a complete checkup of your joysticks. Be sure to release the ALPHALOCK key. 5 sectors
- 1391 MATERIAL STATERARY, 32K, Disk & Printer Rqd. This well written program by Kike Krall keeps statistics on your favorite team. Read the REMarks in lines 1 through 9 for instructions to tailor the program to your team. 46 sectors

CERRECTION

The listing in your 1985 catalog for program 1385 should read as follows:

1385 EAN NEADERSTI-D This program calculates and displays Maximum Usable Frequency (MLF) for each hour of a given day for a specified path between two points on the earth. 20 sectors

M & S COMPUTER SY	STE	EMS	PUALITY 99 SOFTWARE
MIKE & SHERRIE MATULA	_		PANE '& PLOT (EICELLENT GRAPHICS PKG.) (DISK. 32% 10 RESS.) 439.95 432.00
15918 CAVENDISH BRIVE			SATA BASE 491700 RECORDS BS. 350 RECORDS BS BIBK; BISK, 32K, 191 39.95 27.60
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			THE LIBORALAN (ALPHANETIZED CAT. OF YOUR DISKS) (18, PRINTER) 19,95 17.06
STAR NICRONICS		Z 44,7.	3 13-FORTH (LOADS 11-FORTH #/8 E/A) (BSK, 32K, ID) 19.95 17.00
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FREATIN VEREL BISKETTES, \$500(BY OF 10)		15.47	
FERBATIR BATALIFE DISKETTES, SSBB(DI OF 10)		17.47	COPY-CAT (DISK COPIER) (BSK, 32K, IB) 19,95 13.95
SSOD(DI OF 10) N/ PLASTIC CASE		20.50	
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DSBB(BI OF 16) W/ PLASTIC CASE		24.54	EL SOFTHARE
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" # " BI OF 1	•	21,00	DES-PRINTINGESIDENT SCREEN PRINT WILLITY: SUMPS MODULE SCREENS, 29.95 24.95
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LIP 'N FILE/15		-	-
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