Vol.5 No. 2 FEBRUARY 1987

NEW Horizon

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225 S. Wheeling
Oregon, OH 43616
(419) 693-7934

Meeting: 13 FEB.'87 Fri
Oregon #2 Fire Station

(419) 385-7484
TICOMM BBS
>>> 24-HRS <<<
SYSOP
> MILLS - TURNER <

Don Turner
President, New Horizons
5533 Fleet Street
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(419) 537-1454

Meeting: 14 FEB.'87 Sat
Unity Church Secor Road

THE NEWSLETTER STAFF

Bill Tiep
Phil Bennis
Dave Burkette
Marilyn Schafstall
Kent Sheets
Roger Biddle
Earl Hoffsis

LOCAL CONTRIBUTIONS BY:

MARK LAMB
KENT SHEETS
JOHN CLULOW
DAVE ROMER
BILL SAGER
TIM TAYLOR
DON TURNER
PHIL BENNIS

You are now on our exchange list,

NORTHWEST OHIO

PAPER NEWS

WILLIAM L. SAGER
612 MEADOW SPRING
MAUMEE OHIO 43537

Edmonton 99'ers Computer Users
P.O. Box 11983
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NEW HORIZONS

by Don Turner

A month has gone by already and we are ready for February's meeting. New Horizons will be meeting at Unity Church 3535 Executive Pkwy on Saturday Feb 14 at 2:00 PM. The Basic S.I.G will meet there at 1:00 PM. I hope to see everyone there.

The new EPROM set for the 9900 CORCOMP disk controller that Craig Miller promised is now out. The EPROM chips are sent as a U-Replace item. Which is a very simple task. Fortunately the chips are in a socket so replacement is quick and easy. Carefully remove the old chips and insert the new ones as per the instructions given with the new chips. Some of the new commands include loading E/A utilities into low memory, load D/V 80 Assembly programs from a call. It will also run program image files like DM-1000. The cost of the EPROMS are $34.95. Also, Miller is offering a new utility disk for GRAM-CRACKER owners. It features TRACING to the printer instead of the screen, resequence a group of lines instead of the entire program and copy blocks of a program .

TI-ARTIST has unprotected its version 2.1 Now the owners can back up their copies or run it from a ramdisk. Thats good news to ramdisk owners who hesitated purchasing this software do to the protection features. Why the unprotection? Perhaps the software makers are realizing that most people are buying the software rather than copy it. Also with the advent of the track copiers wich copy almost anything and are getting better at it could be inhibiting the software makers from using copy protection.

Last month several people asked if a small workshop could be added to the monthly meetings. So we decided that a BASIC/EXTENDED BASIC S.I.G would meet at 1:00 PM until 2:00 PM. Steve Patterson agreed to help lead and answer any questions. I agreed to help Steve if he needed it. Everyone is welcome to meet with us if they wish to do so.

There were three prizes given away at the January meeting. Mike Christie donated MICROSOFT MULTIPLAN. There was also a printer and a game module available. Bill Tiep won the MULTIPLAN. Jim Wolfe won the printer. Paul Sneider won the Defender game.

Many thanks to Bill Sager for his splendid demonstration of Dave Rose's CSGD III software. Bill added a new twist to his demonstration by video taping his demo then played it back at the meeting. Mark Lamb also had an outstanding deomonstration of STAR software and also showed us some 3D drawings that can be done on the TI. Thank you both for your time and fine work.

Bill Tiep motioned that our organization purchase new software to demonstrate at our monthly meetings. Then have a member use the software , write an article for the newsletter and demonstrate the software at the meeting. The software would then be re-sold to recover the cost. There were several suggestions how the software could be re-sold.

This month Tim Taylor is going to demonstrate FAST-TERM and its many functions. FAST-TERM is a communications program that enables users to "talk" to other computers via phone lines. I am planning to demonstrate TI-KEYS as well.

The new club disks offered this month will be TI-KEYS/MASS TRANSFER also there is a disk cataloger program from the upstate NEW YORK users group. These are all freeware programs.

Phil Bennis regretfully resigned as Vice President so we will need to find a replacement. Anyone who wishes to take his place please see me at the meeting and let me know. Phil will still be on the newsletter staff and maintain his membership.

PRESIDENT'S CORNER

by BOB PETERS
OH-MI-TI

This month we should fill the offices of Vice-President and Directors. This will be the first order of business at the meeting. The presentations this month will be Roger Biddle showing us how he interfaces his 99/4A and his ham radio and I will show how a 64K printer buffer speeds up print times if the buffer arrives by then.

There are some new items on the market for our machine such as an 80-column card by Mechatronics and an IBM-XT clone using the 4A keyboard. Here is the press release for the Triton Turbo-XT. IBM Compatibility for the 4A

Technical Info:

1. Two part system. A Turbo XT and a small bridge box that connects to the side I/O port on your 4A.

2. The Turbo XT is an 8 Mhz, 4.77 Mhz (switchable) mother board, power supply, XT style case, CGA color graphics card (both RGB and Composite), Floppy Disk controller, 1 half high DS/DD disk drive, Parallel port and 256K of RAM on the mother board. The mother board has sockets for up to 640K of RAM. There are 8 expansion slots, two of which are used by the CGA card and the Floppy Disk controller.

3. The bridge box has inputs for 4A Video in, XT Video in and outputs for XT Keyboard out and Monitor out. It also contains the software for Keyboard switching between 4A mode and XT mode and the software to convert the 4A key strokes into XT keycodes. It also has a pass through so you can keep your P-Box or other Periphs hooked up.

4. Mode switching from 4A to XT can be done through Basic or X-Basic with CALL XT or by holding down FCTN CTRL ENTER on power up of the 4A.

5. Mode switching from XT to 4A is done by pressing FCTN CTRL ENTER.

6. The ONLY items shared by the two systems are the 4A keyboard and your current monitor or TV. Yes, you can get 80 columns out of a composite monitor, but it is easiest to read with the color turned off in 80 mode. The XT allows MODE 40 which also gives you 40 column mode. Graphics programs, such as games and drawing programs work fine in 80 column and most other software that doesn't combine weird foreground and background text colors are also quite readable.

7. By not sharing the disk drives it is possible to do concurrent processing on the XT. Example: Go into XT mode, start up your COMMUNICATIONS software, log onto a BBS and start a download. Now you can switch to the 4A and do whatever you would like in 4A mode while the XT is still downloading from the BBS.

8. We have tested this system on a number of 4A system configurations and have found it to be very compatible. Since it is an IBM clone it is also fully compatible with both IBM software and IBM hardware. Yes, you can add ANY IBM cards you would like to the system.

9. The minimum 4A system requirements: A TI 99/4A console and a monitor or a TV set with RF modulator.

The system is being marketed by Triton Products Company of San Francisco. The cost is $499 plus $19.90 for shipping plus $69.95 for the system support software. They have a toll free number for information. It is 1-800-227-6900.

The meeting is at Oregon #2 Firestation at 7 P.M. on February 13, 1987. See ya there.

the 13th

MARK'S WORLD

by MARK F. LAMB
OH-MI-TI & NEW HORIZONS

SIG

Come an hour early to the next New Horizon meeting. If you arrive at 1:00 we can try to organize a SIG for Basic/Extended Basic learning. Bring paper and pencil and your Basic &/or Extended Basic manuals. Even though nothing has been formalized as to goals we can be ready to start.

Orking

Those that bought the NH disk #42 with word/count; change line 420 by replacing the period between 128 and 183 with a comma. Hank Alvaro brought this to my attention. Don't know what he has against "orking."

DATA BASE 99 & DB 99 UTILITIES

An excellant data base program that allows 350 records on a SS/SD disk with as many as 28 fields allowing up to 28 characters per field not to exceed 245 characters per record. The instructions are fairly easy to understand especially by using the demo on the disk. Great for creating your own name and address file with personal comments or vital statistics. Or for cataloging hobby items or personal inventory.

One neat feature is the use of Subfiles. For example, say you are keeping track of your club's music library and during the four seasons you use music specifically for that season. You could have a field named "season" which, after cataloging the collection as a whole, you could then sort the records into the four seasons and file them seperately into subfiles. Now you would have the main record file with everything being listed alphabetically and four sets of subfiles where you may call up for example "Summer" and get just those selections you chose for that period.

It also has a catalog option in case you forget your file names and a repair option in case you accidently delete a record or wish to reinstate a previously deleted file. Priced at $35.

Add "DB 99 UTILITIES" and you can mathematically interact your numeric fields. Useful for statistics, such as bowling, baseball, and other game & sport record keeping. Or keep running totals on inventory or catalog file. Can only be used with the DATA BASE 99 program. Priced at $25 or you can buy both programs for $20. (You figure that one out - see the Fall '86 TENEX EVERYTHING BOOK.)

Now for the bad part, their replacement policy and I quote, "If, on arrival, the program fails to perform as specified herein, return it directly to us, wihin three days, along with proof of purchase, for a free replacement. After three days, you may obtain a replacement by returning the disk directly to us, along with $7, plus $3 for shipping and handling (total = $10).....

Disks obtained from QUALITY 99 SOFTWARE cannot be cataloged, duplicated, or written on.

Warning: Any modification to the disk will render it inoperable, an voids the Replacement Policy.

If you feel that it is essential to have a back-up disk on hand, we suggest that you purchase another one, just as you would do for a module." End of quote!

I would personally recommend the purchase of these two disks, especially, at the special rate - if still available. As far as not being able to back up - well - there were two things me Granddaddy taught me; never say never and nothing is impossible.

DV80 & 4A/TALK

When sending a DV80 file via the modem using "4A/TALK" do not use the "send DV80 or Data file" mode. Doing so will be the same as "print to the disk" and deletes all carriage returns and other control characters.

VCR MOVIE GUIDE

Best way to cover this excellant program is to examine the programs nine options.

Option one, load data file; you may save different files - so load the file you want.

Option two, review movie list; you have two scanning choices. auto & manual. If you choose auto you have two speeds - fast and slow. If you choose fast, be watching - it moves.

Option three, search by key word; you may use a key word or use the rating. The key word may be any string, i.e., key word "bet" will bring any title containing bet, betting, better, or even the word "between." The screen will show you a movie and ask if this is the movie you were looking for. If you tell it no it will give you another movie on the list and continue with all the movies containing the key word till you find the one you want and give it a yes response or until there are no more movies.

Option four, add new movies.

Option five, delete movies.

Option six, put data in order; this is a must before option seven.

Option seven, save data.

Option eight, print movie catalog.

Before I mention the next option it is important to note that there is complete documentation. Read the docs carefully or you could mess up and forget to put "ZZ" at the end of your file.

Option nine, end session; you know what this means? Yep - BYE.

B U L L E T I N

TURBO XT

Triton has just sent out mailers announcing their new system called Triton Turbo XT Personal Computer. Specs., Microprocessor: Intel 8088,8/4.77 MHz clock speed(software selectable); Operating system: MicroSoft Disk operating system (MS-DOS); memory: 256K RAM (expandable to 640K); Disk Drive: one 5 1/4" ds/dd, 360K thin-line mini-floppy, 48 tracks per inch; Video: RGB/composite color graphics display adapter; Internal expansion: 8 standard user-accessible IBM PC card slots; External connections: standard parallel Printer port,, composite viedeo, RGB, AC outlet.

Triton claims: True IBM compatibility; twice the speed of the IBM PC/XT; Use your present TI 99/4A keyboard.

Prices: Computer $499.00; MS-DOS support software $69.95; Shipping and handling $19.90.

Order or information number: 1-800-227-6900 or order by mail at: TRITON Products Company; Order Center; P.O. BOX 8123; San Francisco, CA 94128-9986.

FAST TERM

by TIM TAYLOR
NEW HORIZONS

FAST-TERM is a fantastic piece of communications software which supports X-MODEM file transfers. Compared to Terminal Emulator II, it is at least twice as good on several counts. It offers baud rates at regular intervals from 110 to 19200! It offers the screen and characters colors in any combination you like. It has a printer spooler which works with either RS232 or PIO. All screen data automatically goes to your printer when you select printer spooler. Files may also be transfered by the T.E.2 protocol. Additionally, you can send and receive ASCII files. There is a screen freeze feature which lets you freeze incoming data. There is a window back feature which lets you view what has already *scrolled off the screen.* There is a timer which you can start and re-set at any time while on line which lets you know how long you have been on a bulletin board. Other features include the ability to change duplex between full and half width between 80 and 40 characters without clearing screen.

That summarizes some of FAST-TERM's features. My advice is: once you have acquired a copy of FAST-TERM, make yourself a back-up copy of it and store the original in a safe place. Them, on your back-up copy which you will use regularly, why not "customize" it to suit your individual needs. On my "working" copy, I have purposely left off the write-protect tab so that I can add programs I want to download and keep them there temporarily until I decide if I want to keep it and if so which disk I want to move it to. Also, I can use the same disk (FAST-TERM/customized) to conveniently store the SESSION data, which I am about to explain.

Insert your Extended Basic cartridge and select EXB. Do Not insert Fast-Term disk yet. Wait . . . . until the *READY* appears. Now insert Fast-Term disk and type: RUN "DSK1.DEFAULT". This need only be done (usually) once upon initial use. Answer all of the input prompts concerning your modem port, printer port, baud rate, bell chimes or beeps, screen colors, and a few other questions. At the end, all of your choices will be saved on your Fast-Term disk. Next, press <FCTN> QUIT and re-select Extended Basic again. In about 30 seconds, Fast-Term will be loaded. When it asks for file parameter DSK1. you enter the hostname you chose when setting up DEFAULT. Press <ENTER>. You are now ready to communicate with a bulletin board. Dial up TI-COMM (or other board).

If you are planning on saving all data received on the BBS you are about to call, hold <FCTN> and press 8. FAST-TERM now opens a file called SESSION. Into it will go eveything you do on the BBS you are about to call. It will be in a display/variable 80 file and may be read later by either Disk Manager 1000 or by TI-WRITER/FUNNEL WRITER or by FR1002 written by Steve Patterson. Next, dial the BBS phone number (385-7484). If at any time you do not want data to go into the SESSION file, simply press <FCTN> and . To re-open file while still on the board, press <FCTN> and . again.

To download and upload via X-MODEM, which is what TI-COMM uses,

select W on TI-COMM main menu. Let's deal with downloads first. Select D when given the choice. Read through list of programs and files. When listing is completed, press <FCTN> and N. You will see DSK1.SENDFILE. Move cursor over to the S on the word SENDFILE. Type in the name of the program you want from the download list as it appears on the list or whatever names suits you. Be sure it is a name different than any other name on your disk. Press <ENTER>. Press Y for CRC error checking. TI-COMM next asks you to type your choice of file exactly as listed on download list, with ALPHA LOCK DOWN. TI-COMM now tells you transfer will begin in 20 seconds. You must now press 3 keys all at once: <FCTN> <SHIFT> and X. Next press R for receive and <ENTER> to accept CRC error checking. The rest is automatic, unless there is a bad file or a noisy phone line.

Now, to upload. Insert disk with file you wish to upload. Press <FCTN> and N. Again, type the name of the file exactly as it is on your disk in place of the word SENDFILE. Press <ENTER>. Press U for upload. Press Y for CRC error checking. Enter the file name again as you have just typed it in place of SENDFILE. Press <ENTER>. Again, press 3 keys all at once: <FCTN> <SHIFT> and X. Press <ENTER> to accept the S (SEND). Then press <ENTER> to accept CRC error checking. Again, the rest is automatic until transfer is complete.

Fast-Term has lots of "goodies" to play with and is an exceptionally fine piece of software! It's author, Paul Charlton, is to be commended for writing such a fine terminal program!

Documentation files are on the disk with the program.

COMPUTERFEST

by Don Turner

This years computerfest will be held at the MASONIC GREAT HALL. 4645 Heatherdowns on **March 8 from 8:30 to 4:30**

Tables are a first come first serve basis. $10.00 per 8 ft table. There will be door prizes and refreshments. Parking is FREE.

256K Upgrade

by John Clulow
New Horizons

THANKS to the NEWSLETTER EDITOR for deciding to publish the article on how to add 64K to upgrade the Horizon RAMDISK to 256K. Edward Hallett certainly did an excellent job of explaining the project.

It's hard to believe that 64K can be added to the Horizon card so easily and for only $24 and that the revised card still easily fits in a single PE-Box slot. Having worked with Dale Foote in doing three such modifications -- one for Bill Sager -- I can strongly recommend it to all Horizon Ramdisk owners.

A new revised version of the John Johnson MENU DSR which works with the upgrade is available either through me or the clubs for those who decide to do this project.

PLEASE USE THE FOLLOWING FOR THE NEWS LETTER

```
.TL 35:14,27,69
.TL 126:38
.LM 0:RM 31:IN +0:NF:NA
# T I T L E
.TL 35:27,72,27,65,11
#
.CE 2
   by Arther Auther
   OH-MI-TI and/or NEW HORIZONS
.IL 35:35
.IN +2:FI:AD
```

AN OPEN LETTER TO THE MEMBERS OF NEW HORIZONS

by Phil Bennis
NEW HORIZONS

I was honored to have been elected to the position of First Vice President at the January meeting. This is a position that I view as important to maintaining continued growth of the club. It is not a duty to be taken lightly or without a full committment to doing the very best job that can possibly be done. When I accepted the position in January, I had every intention of doing just that. However, I now find that due to family and personal committments for the next few months, I will not be able to fulfill my job as I had intended. I have no other choice than to resign my office in favor of letting the Club find someone else who will be able to make that full committment. I am sorry for letting the club and the other officers down, but at this time, I have no other choice. I am sure that there are many well qualified people in our group than can step foreward and do an excellent job.

This club is one of the best things that the TI community in Toledo has going for it. Support it, nuture it, and help it grow to the full potential of what can be accomplished.

COMPANION DISK FONTS TI-ARTIST

by Bill Sager
NEW HORIZONS

Owners of TI-Artist Ver 2.01 may experience problems when using several of the largest size font sets from the TI-Artist Companion disk. These are the fonts that are loaded by the Enhancement feature and not the built-in alpha/numeric entry.

The problem arises only when using the ending characters of the set. They either do not display or are incomplete. All fonts do work with Ver 2.0 of TI-Artist. Ver 2.01 uses some of the space that was used by certain large fonts.

If you do use any of the large fonts you may want to do an advance check to be sure that your entry will all be accepted.

HORIZON RAMDISK DEALERS

Horizon Computer Limited is pleased to announce that the Horizon Ramdisk is available for purchase from the following computer businesses. In the United States:

ARMADILLO BYTES
P.O. Box 900921
Dallas, TX 75218

DISK ONLY SOFTWARE
P.O. Box 244
Lorton, VA 22079

L.L. CONNER ENTERPRISES
1521 Ferry St.
Lafayette, IN 47904

MICROSTUPH
1456 Grandview
Columbus, OH 43212

MIDWEST ENGINEERING
203 Arcadia
Vernon Hills, IL 60061

QUALTECH, Inc.
116 Lomas N.W.
Albuquerque, NM 87104

RMJ HOME COMPUTER SALES
2982 Whileaway Circle W.
Colorado Springs, CO 80917

SUN SUFFICIENCY, Inc.
RD 1, Box 359-5
Kingston, NY 12401

Outside the United States:

COMPUTER DOWNLOAD
25 Ottawa St.
Arnprior, Ontario
Canada K7S 1W7

SOLID STATE HARDWARE
506 Dawes Rd. #105
Toronto, Ontario
Canada M4B 2G2

PETER BROOKS
96 Banbury
Oxford, England
OX2 6JT

ELEKTRONIK-SERVICE
Linning 37
4044 Kaarst 2
West Germany

NEWSLETTER WHAT?

by Bill Sager
NEW HORIZONS

As you have probably noticed, this newsletter has no one who is designated as the Editor. Instead, the Staff gets credit and they are listed on the front page.

Most other groups have an Editor for their newsletter. But not us! From the current Staff the closest we get to an Editor is Bill Tiep. Bill keeps saying he's not the Editor and really only puts the newsletter together from articles and information he gathers and that which is submitted by members. You know -- he assembles the newsletter.

Bill maintains that we are so desperate for material that he can't afford to "edit out" anything, so there is no need for the Editor title.

Be all of that as it may, what I think we have found in Bill is another Tiep of EDITOR/ASSEMBLER for the 99/4A.

QUIZ ANSWERS

by STAFF
OH-MI-TI & NEW HORIZONS

ANSWERS:

1. It comes down with a terminal illness.
2. Loss of memory.
3. "Anything you can do, I can do better!".
4. To a disk-o-tech.
5. Down memory lane.
6. Very cool answers.
7. A computer that jumps to conclusions.
8. CPU!
9. A chip off the old block.
10. Syntax ERROR.

NORTHWEST OHIO NEWS 1986

by Kent Sheets
OH-MI-TI

132 CHARACTERS PRINT		NWO	0410	1186		
132PRINT/DOC	SMOLEY	NWO	0403	0386	132PRINT	PRINTER
32K MEMORY INSIDE SPEECH		NWO	0405	0586	32K MEMORY	WILLFORTH
ADDING A SECOND RAM CHIP		NWO	0406	0686	SUPERCART	MCCULLOCH
ADDING TO YOUR SUPERCART 4/1/86		NWO	0405	0586	SUPERCART	MCCULLOCH
ADVENTURES IN BASIC 2.2		NWO	0403	0386	BASIC	
ADVENTURES IN BASIC 3.0		NWO	0404	0486		
ADVENTURES IN BASIC 4.0		NWO	0404	0486		
ADVENTURES IN BASIC 5.0		NWO	0403	0386	BASIC	
ADVENTURES IN BASIC PATTERSON		NWO	0401	0186	BASIC#2	
ADVENTURES IN BASIC PATTERSON		NWO	0401	0186	BASIC#1	
ANNIVERSARY	TIEP	NWO	0410	1186	NOVEMBER1983	BLACK FRIDA
ART LIBRARY	A. ANDREWS	NWO	0410	1186	RLE	
ARTICLE RELEASE	SHEETS	NWO	0410	1186	ALBRIGHT	BOOK
ASSEMBLY E/A3 TO E/A5		NWO	0403	0386	DIS/FIX80	PROGRAM
BEST OF STEVE PATTERSON		NWO	0401	0186	DISK	
BILL SAGER... SHOULD HE STAY		NWO	0403	0386	FROSTY	
BILL'S WORLD	TIEP	NWO	0412	1286	FLAP'S LAW	GALLOIS'S
BINARY SEARCH	ROMER	NWO	0402	0286	BINARY	SEARCH
BIZARRE PRODUCT UPDATE		NWO	0409	1086	NUCLEAR POWER	SUPPLY
BUILDING A HORIZONS RAMDISK		NWO	0403	0386	RAMDISK	BIDDLE
BUILDING A RAM-DISK TURNER		NWO	0404	0486	RAMDISK	
CABLE BOX	EDWARDS SFV	NWO	0408	0986	PEB CABLE	CABLE BOX
CASSETTE SYS TIPS#6	SCHMITT	NWO	0410	1186	TRICKS	TIDBITS
CHESS	SHEETS	NWO	0402	0286	CHESS	COMPUSERVE
CHICAGO TI FAIRE NOV 1		NWO	0409	1086	FAIRE	
CLUB NEWSLETTERS		NWO	0402	0286		
COMING COMPUTER EVENTS		NWO	0403	0386		
COOLING THE COOLING FAN TURNER		NWO	0410	1186	P-BOX	REPLACEMENT
CQ PACKET	BIDDLE	NWO	0412	1286	AMATEUR RADIO	
DIAL-A-WORD	LATIMER	NWO	0410	1186	PHONE WORD	HIDDEN WORD
DISK DRIVE SPECIFICATIONS 1.1		NWO	0409	1086	DISK SPECS	GULON
DISK SWEEPER	PATTERSON	NWO	0401	0186		
DISK SWEEPER2	PATTERSON	NWO	0409	1086	DISK SWEEPER2	
DON'T JUST SIT THERE, HOP TO		NWO	0401	0186		
ERROR CODE LISTING		NWO	0409	1086	ERROR CODE	
EXTEND THE USE OF TI-WRITER		NWO	0405	0586	TI-WRITER	GRAPH
FILE READER 1002	PATTERSON	NWO	0405	0586	FILE READER	
FOR SALE	HINDLEY	NWO	0403	0386		
FORTH TUTORIAL PT1		NWO	0401	0186	FORTH	
FORTUNATELY	SNEIDER	NWO	0409	1086		
FUNLWRITER 3.3 REVIEW		NWO	0407	0886	FUNLWRITER	NUVOLINI
GEMINI 10X CHIP	SHEETS	NWO	0403	0386	GEMINI 10X	LQ CHIP
GOING FORTH	KOTH	NWO	0401	0186	FORTH	
GOING FORTH PT2	KOTH	NWO	0402	0286	FORTH	
GRAPH PAPER PRINTER	BEHNKE/DODD	NWO	0412	1286	GRAPH PAPER	PRINTER
GRAPHSEET MAKER PGM	BEHNKE	NWO	0407	0886	GRAPHSHEET	
GRAPHX COMPANION	BURKETT	NWO	040	0186	GRAPHX	COMPANION
GROM CHIPS INSIDE TI CONSOLE		NWO	0406	0686	GROM CHIPS	UGORCAK
HAM FEST		NWO	0403	0386		
HARDWARE HINTS	GLADYSZEWSKI	NWO	0403	0386	DISKDRIVE	POWER
HIDDE CHARCATERS	PATTERSON	NWO	0409	1086		
HORIZON RAMDISK AD		NWO	0406	0686	RAMDISK	

HORIZON RAMDISK SOFTWARE UPDATE		NWO 0409 1086	RAMDISK	UPDATE
HORIZON RAMDISK STATUS REPORT		NWO 0402 0286	RAMDISK	ROMER
HORIZON RAMDISK, JOY OF HAVING		NWO 0402 0286	RAMDISK	REVIEW
IMMEDIATE MODE SAMPLES		NWO 0404 0486		
LATE NITE BBS	TURNER	NWO 0404 0486	BBS	
LAWS MAXIMS	TIEP	NWO 0403 0386		
LAWS MAXIMS	TIEP	NWO 0402 0286	LAWS	
LOADER PROGRAM	GREEN	NWO 0404 0486	LOADER	
LOADING FROM DISK		NWO 0405 0586	LOADING	FILE FORMAT
MARK WORLD	LAMB	NWO 0409 1086	RLE3	ARCHIVER
MARK'S WORLD	LAMB	NWO 0410 1186	TEXAS PICS	PIRATE
MARK'S WORLD	LAMB	NWO 0402 0286	CSGD	GRAPHIC
MARK'S WORLD	LAMB	NWO 0403 0386	CSGD DEMO	TEMPLATE
MARK'S WORLD	LAMB	NWO 0405 0586		
MASS TRANSFER	PATTERSON	NWO 0409 1086	MASS TRANSFER	
MERGE FILE EDITOR	AMUNDSEN	NWO 0401 0186	MERGE FILE	
MODERM: $21.14	SHEETS	NWO 0402 0286	MODEMS	
MODIFY EARLY MODULES		NWO 0402 0286	MODULES	PRINT
MS/LABELS	SMOLEY	NWO 0404 0486	MS/LABELS	
MS/LABELS DOCS	SMOLEY	NWO 0404 0486	MS/LABELS	
MULTIPLAN TIPS TRICKS		NWO 0407 0886	MULTIPLAN	ZIMMERMAN
MY RIVAL by JAN KNAPP		NWO 0408 0986	RIVAL	
NEW BBS FOR TI'S	TURNER	NWO 0403 0386	TECHIE	
NEW HORIZON NEWS	SAGER	NWO 0404 0486	MAXIMEM	TI-ARTIST
NEW HORIZON NEWS	SAGER	NWO 0410 1186		
NEW HORIZON NEWS	SAGER	NWO 0403 0386	FROSTY	
NEW HORIZON NEWS	SAGER	NWO 0407 0886	RLE	VIDEO TAPES
NEW HORIZON NEWS	SAGER	NWO 0409 1086		
NEW HORIZON NEWS	SAGER	NWO 0412 1286		
NEW HORIZON NEWS	SAGER	NWO 0405 0586		
NEW HORIZON NEWS	SAGER	NWO 0402 0286	CSGD	
NEW HORIZON NEWS	SAGER	NWO 0408 0986		
NEW HORIZON NEWS	SAGER	NWO 0406 0686	PR-BASE	
NEW HORIZON NEWS	SAGER	NWO 0401 0186	3RD ANNV.	
NEW HORIZONS GRAPHIC DRAWING		NWO 0408 0986	CONTEST	
NEW ROS	TIEP	NWO 0409 1086		
NEW SOFTWARE by ASGARD		NWO 0403 0386	RECIPE	QUICK DIAL
NEWSLETTER SETUP	STAFF	NWO 0410 1186	FORMAT	ARTICLES
NIGHT BEFORE CHRISTMAS HALLIDAY		NWO 0412 1286		
NUMBERS-INDUSTRIAL STRENGTH		NWO 0403 0386	LOTTO ODDS	
NUTRITION/DIET	WELDY	NWO 0403 0386	NUTRITION	

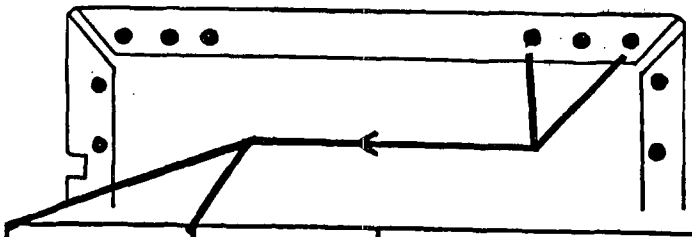
Will you be my valentine..

A QUICKIE QUIZ FROM THE NORTH JERSEY TI USERS GROUP

ANSWERS ARE TO BE FOUND ELSEWHERE IN THIS NEWSLETTER

1. How does a computer die?
2. What's a sure sign of old age in a computer?
3. What did the computer say to the Adding Machine?
4. Where do computers go dancing?
5. Where do computers like to stroll when they have a class reunion?
6. What do you get when you cross a computer with a refrigerator?
7. What do you get when you cross a computer with a rabbit?
8. What did everyone say when the science teacher crossed a computer with a skunk?
9. What did the big computer call the little computer?
10. What is a mistake on a burglar's income tax form?

IDENTIFICATION OF 5¼" DISKS



SEAL	COMPANY	COMMENTS
● ● ●	MAXELL	
COMPLETE SEAL	MEMOREX	ALSO ALBINAA (BEST Co)
● ●	VERBATIM	
● ●	NASHUA	6 dots down each side
■ ■	BASF	
▪▪▪▪▪▪▪▪▪▪▪▪	ELEPHANT	
▬▬▬▬	3M	2 bars down EACH SIDE
▪▪▪▪ ▪▪▪▪	WABASH	6 SETS OF 8 sqs. PER SIDE
▪▪▪▪▪	FUJI	
▪ ▪ ▪	CONTROL DATA	STORAGE MASTER
▬▬▬▬	SYNCOM	3 bars down EACH SIDE
● ●	CERTRON	8 dots down EACH SIDE
● ●	BONUS	
▬ ▬		

THIS CHART SHOWS THE NAME OF THE MANUFACTURER WHO MAY HAVE PRODUCED THAT DISKETTE YOU NOW HAVE IN YOUR DISKETTE DRIVE. I WOULD LIKE TO THANK THE N.O.V.A. USERS GROUP OF VANCOUVER, WA. FOR THIS CHART PRINTED IN THEIR NOV. ISSUE.

```
100 REM **A GLIMPSE OF REALITY
        FOR COMPUTER ADDICTS**
120 CALL CLEAR
130 CALL CHAR(96,"1818[illegible]3C7E3C18")
140 CALL CHAR(112,"FFFFFFFFFFFFFFFF")
150 CALL CHAR(120,"FFFFFFFFFFFFFFFF")
160 CALL CHAR(121,"[illegible]")
170 CALL CHAR(122,"[illegible]")
180 CALL CHAR(128,"0000[illegible]25438FF5D")
190 H=22
200 CALL COLOR(9,16,1)
210 CALL COLOR(11,2,2)
220 CALL COLOR(12,13,1)
230 CALL COLOR(13,14,1)
240 CALL VCHAR(4,16,112,3)
250 CALL HCHAR(4,17,112,3)
260 CALL VCHAR(4,20,112,18)
270 CALL HCHAR(22,1,120,96)
280 CALL HCHAR(3,18,112)
290 CALL HCHAR(2,17,112,3)
300 G=0
310 H=H-1
320 FOR Z=7 TO H-1
330 CALL VCHAR(Z,16,96)
340 CALL VCHAR(Z,16,32)
350 NEXT Z
360 G=G+1
370 CALL SOUND(15,(H*150),2)
380 CALL HCHAR(H,G,121)
390 IF G=32 THEN 300
400 IF H=7 THEN 410 ELSE 320
410 FOR F=3 TO 30 STEP 3
420 CALL HCHAR(7,F,128)
430 CALL VCHAR(8,F,122,14)
440 CALL SOUND(30,(F*200),2)
450 NEXT F
460 PRINT "NOW DO SOMETHING ABOUT IT!!"
470 GOTO 470
```

EPROMS

by Arther Auther
OH-MI-TI & NEW HORIZONS

Ryte Data is offering a pair of EPROMS for the Disk Controller Card that will allow up to QUAD density. The cost is $45.00.

THE FOLLOWING PROGRAM WILL DEMONSTRATE A MOST AMAZING THING THAT IS ONE OF THE MANY FEATURES THAT EXIST IN TI BASIC (EXTENDED), EVEN IF TI ACCIDENTLY PUT THEM IN OR NOT. ED BITTNER ALSO DUG THIS OUT OF AN OLD NEWSLETTER, BUT AT THE TIME I TYPE THIS I CANNOT GIVE CREDIT TO THE AUTHOR OR THE NEWSLETTER. PLEASE FORGIVE ME.

```
100 CALL CLEAR :: PRINT "HERE I GO" :::
110 GOSUB 200 DELAY_ROUTINE :: PRINT "HELLO ! I'M BACK"
120 END
200 FOR D=1 to 400 :: NEXT D
210 RETURN
```

IF YOU DON'T DO A LOT OF PROGRAMMING, YOU MAY NOT SEE THE THE SUBTLE BEAUTY OF WHAT IS DEMONSTRATED HERE. THE LINE 110 TELLS THE COMPUTER TO GOTO A SUBROUTINE AT LINE 200 IN THE PROGRAM, AFTER WHICH IT WILL RETURN TO THE NEXT COMMAND, OR LINE STATEMENT, WHICH WILL BE ..... WELL YOU MAY THINK THAT " DELAY_ROUTINE " WAS A TYPO ON MY PART. IT WASN'T. YOU ARE ABLE TO **INSERT REMARKS** IN **GOSUB** AND **GOTO** STATEMENTS WHICH ARE PART OF MULTI-STATEMENT LINES **OTHER THAN AT THE END OF THE LINE!** THIS FEATURE, ALTHOUGH DEMONSTRATED BY THIS SHORT PROGRAM, COULD BE EVEN MORE HIGHLY APPRECIATED, IN A 5 ROW EXTENDED BASIC LINE, TO DIRECTLY POINT TO WHAT YOU ARE GOING TO DO WHEN YOU GET THERE, TYPE OF THING.

THE ONLY STIPULATION IS THAT THE STRING IS CONTINUOUS (NO SPACES), THAT IS WHY THE "_" EXISTS. TRY IT, THIS MAY PUT A NEW TI WEAPON IN YOUR ALREADY **GREAT** TI PROGRAMMING ARSENAL.

THE POWER OF "CALL KEY"

The CALL KEY command in Basic and Extended Basic is one whose complete power may not be appreciated by many programmers. This article and list of examples is an attempt to explain some of the "hidden" capabilities of the CALL KEY statement so that you can get the most out of it in your own programs.

The information in this article was collected from several sources including : an excellent summary of the CALL KEY options, written by Joyce Corker of Waltham, Mass. (the examples that make up the second half of this article are completely hers) which has appeared in several other newsletters recently; and an article by Glenn Davis in the January 1985 edition of the MSP 99 Newsletter.

CALL KEY, as implemented on the TI 99/4A has six possible modes in which to operate. These modes are summarized below.

CALL KEY(0,KEY,STATUS)

When the mode specified is "0", the keyboard is scanned in the same mode it was in previously. (The normal Basic mode is Mode 5 --see below-- so when a CALL KEY(0,K,S) statement is used in Basic or Extended Basic, we are really telling the computer to scan using Mode 5 "just like you were doing before".)

CALL KEY(1,KEY,STATUS)

Mode 1 scans the left side of the keyboard only.

CALL KEY(2,KEY,STATUS)

Mode 2 scans the right side of the keyboard only.

CALL KEY(3,KEY,STATUS)

Mode 3 is the "99/4" mode. In this mode values for upper case letters are returned in "KEY" even if a lower case letter is pressed. (In other words, in this mode it doesn't matter whether the ALPHA LOCK key is up or down, all you get is upper case letters.)

This mode is particularly useful where upper case letters are important. For example, it is recommended that disk file names be in all upper case letters. By putting a CALL KEY(3,K,S) statement before the INPUT or ACCEPT statement, the name typed in by the user will be all in upper case letters. (TI Writer uses this mode when accepting file names.)

CALL KEY(4,KEY,STATUS)

Mode 4 (Pascal Mode) allows upper and lower case letters and all control and function keys. However, some of the "codes" are different than in Basic. For example, FCTN 4 will not "break" a program on an INPUT or ACCEPT statement, FCTN S will not backspace, etc. This is because these combinations of key strokes generate different codes in this mode than in Basic. (See the appendix in the User's Reference Guide.)

CALL KEY(5,KEY,STATUS)

Mode 5 is normal Basic mode and allows for both upper and lower case letters.

EXAMPLES

Below are several examples of how some of the modes described can be put to use.

Yes or no answers using CALL KEY 0

```
100 CALL CLEAR
110 PRINT "Y OR N?"
120 CALL KEY(0,K,S)
130 IF K=78 THEN 170
140 IF K<>89 THEN 120
150 PRINT "YES"
160 GOTO 180
170 PRINT "NO"
180 END
```

Space bar or ENTER answers using CALL KEY 5

```
100 DISPLAY AT(3,3)ERASE ALL:"PRESS SPACE BAR TO
    CONTINUE" : "PRESS ENTER TO PRINT"
110 FOR DELAY=1 TO 600 :: NEXT DELAY
120 CALL KEY(5,K,S)
130 IF K=32 THEN PRINT "SPACE BAR PRESSED" ::
    GOTO 150 ELSE IF K<>13 THEN 120
140 PRINT "ENTER WAS PRESSED"
150 END
```

Alphabet answers that are forgiving of wrong case using CALL KEY 3

```
100 DISPLAY AT(3,3)ERASE ALL:"PRESS R TO REPEAT" :
    "PRESS P TO PRINT"
110 FOR DELAY=1 TO 600 :: NEXT DELAY
120 CALL KEY(3,K,S)
130 IF K=82 THEN PRINT "HERE YOU WOULD GO TO YOUR
    REPEAT SUBPROGRAM" :: GOTO 150 ELSE IF K<>80
    THEN 120
140 PRINT "HERE YOU WOULD GO TO YOUR PRINT SUB"
150 END
```

Accessing Function and Control Keys using CALL KEY 5

```
100 DISPLAY AT(3,3)ERASE ALL: "PRESS CONTROL KEY
    AND COMMA"
110 FOR DELAY=1 TO 600 :: NEXT DELAY
120 CALL KEY(5,K,S)
130 IF K=128 THEN PRINT "CONTROL AND COMMA
    PRESSED" ELSE 120
140 END
```

or

```
100 DISPLAY AT(3,3)ERASE ALL: "PRESS FUNCTION 8"
110 FOR DELAY=1 TO 600 :: NEXT DELAY
120 CALL KEY(5,K,S)
130 IF K=6 THEN PRINT "FUNCTION 8 PRESSED" ::
    GOTO 140 ELSE 120
140 END
```

As you can see, the CALL KEY command gives you a great deal of control over the input you are accepting. If you develop other ways to use these modes, bring them to the next meeting and share them with all of us.

5. CREATE/S -
Change "DATA >BB00" to "DATA >FB00" at LABEL LINK1.
Change "DATA >BD00" to "DATA >FD00" at LABEL LINK2.
Change "DATA >BF00" to "DATA >FF00" at LABEL LINK3.
Change "PARTA_03" to "PARTA246" in the TEXT LINE after LABEL PDATA.
Change "PARTB_02 to "PART B256" in the TEXT LINE after LABEL LDATA.

6. FILL/S - Change "LI R5,93" to "LI R5,125" (one LINE before LABEL FLOOP1).

7. LOADER/S -
Change "DATA >BB00" to "DATA >FB00" at LABEL LINK.
Change "BYTE >BB" to "BYTE >FB" at LABEL MXL1.
Change "BYTE >BD" to BYTE ">FB" at LABEL MXL2.
Change "BYTE >BF" to "BYTE >FF" at LABEL MXL3.

8. PARTA -
Change "DATA 720" to "DATA 976" at LABEL MAXSEC.
Change "DATA 720" to "DATA 976" at LABEL FORSEC.
Change "DATA >BB00" to "DATA >FB00" at LABEL LINK1.
Change "DATA >BD00" to "DATA >FD00" at LABEL LINK2.
Change "DATA >BF00" to "DATA >FF00" at LABEL LINK3.
Add the LINES "C R8@MAXSEC" and "JEQ FFDONE" after the LINE "INC R8" (fourth LINE after LABEL FMTLP1.
Add the LINE "FFDONE MOV 48,R3" after the LINE "JNE FMTLP0" (sixth LINE after LABEL FMTLP1.

9. SVXB/S - Change "LI R1,>BF00" to "LI R1,>FF00" (fourth LINE after LABEL SVXB.

10. VERSION/S -
Change "DATA >BB00" to "DATA >FB00" at LABEL LINK1.
Change "DATA >BD00" to "DATA >FD00" at LABEL LINK2.
Change "DATA >BF00" to "DATA >FF00" at LABEL LINK3.
Change "PARTA_03" to "PARTA256" in the TEXT LINE after LABEL PDATA.
Change "PARTB_03" to "PARTB256" in the TEXT LINE after LABEL LDATA.

11. XB/S - Change "CI R2,1441" to "CI R2,977" at LABEL MAX02.

REASSEMBLE these FILES to create the NEW OBJECT FILES. Then REASSEMBLE the FILE "TEST/S" which ASSEMBLES the DSR FILES PARTA thru PARTE. Call this FILE "DSR256". ASSEMBLE the ORIGINAL FILES "CHAR/S" and "DOWNLD/S" from the HORIZON SOURCE DISK.

Next RUN the "LOADER" program assembled from "LOADER/S" to LOAD the following:

"DSR256" into BLOCK 1.
"CALL" from the assembled FILE "CALL/S" into BLOCK 2.
"CHAR" from the assembled FILE "CHAR/S" into BLOCK 3.
"DOWNLD" from the assembled FILE "DOWNLD/S" into BLOCK 3.

Now run this BASIC PROGRAM:

```
100 CALL INIT
110 CALL LOAD("DSK1.XB")
120 CALL LOAD("DSK1.SVXB")
130 CALL LINK("SVXB")
140 END
```

NOTE: the RAMDISK MUST be set at CRU 1000 for the SVXB program to work as it does NOT search for the HORIZON CARD CRU like the other programs do. If you have another CARD at CRU 1000 (like the MYARC 128K or 512K CARD), you can change the sixth LINE of the "SVXB/S" FILE from "LI R12,1000" to "LI R12,(CRU of your HORIZON CARD)".

The modified DSR CODE, CALL SUBPROGRAMS ETC. are now LOADED in their NEW locations in RACKS 122 THRU 124. Next RUN the program "CREATE" from the assembled FILE "CREATE/S" (PROGRAM NAME "IMAGE")) This will create the FILES "PARTA246" and "PARTB256" on DSK1 for use with the VER 256 LOADER from the assembled file "VERSION/S".

The SOURCE CODE for the program "UTIL1" (the multiple RAMDISK LOADER) was not provided on the HORIZON SOURCE CODE DISK. It can be modified by DISSASSEMBLING it with "MILLERS GRAPHICS DISkASSEMBLER", finding the four words >02D0, >BB00, >BD00, and >BF00, changing them to9 >03D0, >FB00, >FD00, >FF00, changing "PARTA_03" and "PARTB_03" to "PARTA256" and "PARTB256", REASSEMBLING the program, and then RUNning the SAVE UTILITY from the EDITOR/ASSEMBLER to change it back to PROGRAM IMAGE FORMAT.

This completes the DSR modifications. All functions of the HORIZON RAMDISK will function as they did originally, but now being able to UTILIZE 976 Sectors (256K).

When formatting the 976 SECTOR RAMDISK, select DSDD format. The DISKMANAGER will show "974 SECTORS FREE" and "466 SECTORS USED". This is because the DISKMANAGER is trying to format 1440 SECTORS and reads 466 USED during SECTOR VERIFICATION. This does not affect RAMDISK OPERATION in any way, but it can be corrected to show "974 SECTORS FREE " and "2 SECTORS USED" by changing BYTES 10 and 11 of SECTOR 0 from >05A0 to >03D0. The following program is used to correct the SECTORS FORMATTED number.

```
        DEF START
SECTOR  DATA >03D0
START   LI   R12,>1200 CRU OF YOUR CARD
        LI   R1,7
        SWPB R1
        LDCR R1,8
        MOV  SECTOR, @>580A
        SBZ  0
        RT
        END  START
```

This completes the HORIZON RAMDISK 256K EXPANSION PROJECT. Questions concerning this project should be sent to: EDWARD A. HALLETT, 5600 S. COUNTRYCLUB #64, TUCSON, AZ 85706. Phone (602)889-6930.

CONTINUED FROM JANUARY 1987