

CLEVELAND AREA 99-4A USERS GROUPS NEWSLETTER

FEBRUARY, 1986

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BULLETIN BOARD	----- (24 HOURS) (944-1072)			

EDITORIAL COMMENTS

The response to the first issue of our newsletter was so overwhelming, last month's co-editors have taken permanent responsibility for producing future issues. To make this a "group" effort, we are requesting representatives be appointed from each of the four clubs. The newsletter editors will meet the fourth Saturday of the month at the home of Tom Nellis in Garfield Heights, who is centrally located. At that time copies of all of the newsletters received in exchange the previous month will be available to each of the clubs along with a disk of the last newsletter published for the clubs' libraries.

Executive notes from the 4 group presidents should be received by Deanna Sheridan on Wednesday prior to that meeting so that, if necessary, she can get them typed and formatted to be blocked out at the meeting. Any articles for the current issue should be received by that time also. Deanna will accept handwritten and typed articles, but would prefer that long or technical articles be submitted on disk. Your disk can be returned to your club representative at the meeting and he/she can return it to you at your next meeting.

Anytime you have something you think would be interesting, jot it down and send it to Deanna at 20311 Lake Road, Rocky River, OH 44116. Ideas can be turned into articles, if you are concerned about spelling, grammar, etc., we will be sure those things are edited before publication. Your ideas, thoughts, suggestions, etc., are much more important than any concern about presentation.

Perhaps writing a review of a software or hardware item scares you. How about using the word "comments" instead of review. If you will reread Chuck Mareno's "review" of HBMprint last month, you will find that he said nothing

differently than if he had been standing and talking with you in person about a piece of software he liked. We would welcome not only comments about commercial software, hardware and freeware, but also about programs from the groups' libraries can and should be spotlighted.

Again, an interesting and informative newsletter will only be possible with YOUR input. In the last issue we requested feedback and with 1 exception (a call from one of the other editors who said "good job" and he had some of the software we were looking for), all of the other calls were "how to we get copies of these freeware items". No one commented on the new format, the fact that if they missed an issue they could now get it on disk, the double-column printing which we used in compressed print, but which just as easily can be used with regular print. Evidently no one noticed that the Solon Executive Notes were printed with more than 80 columns. Wasn't anyone curious as to where we got the program to print out the little "Screen Aids" program? This month we are going to use multiple-column printing in some of the articles. Does anyone care how this is accomplished...we will see...

Look inside for...printing 132 columns with your TI-Writer for lists, catalogues, etc. This is an exciting article written by Martin Smoley of NorthCoast and all the documentation and examples are "ON DISK" and available for the groups' libraries as are ALL articles in this issue. Also, from NorthCoast are several Hardware Hints from Ken Gladyszewski, an updated list of additional freeware findings, an article on computer languages that should give you a chuckle or two, reviews of Merge File Editor, and c99 (the C Compiler for the TI), plus hints and news.

FEBRUARY

Our January meeting was held once again at Quinn's in Solon, with 14 present, including 4 spouses. After a time of social exchange, we conducted the business portion of the afternoon over lunch. The 1986 slate of officers was elected at this time. They are as follows: Steve Weinkamer, President; Walt Ryder, Vice President; Frank Jenkins, Treasurer; Russ Ogden, Secretary. Ladd Fata has volunteered to help Kim Jones with the tape and book library this year. We all had a time of good conversation, company, and food. Thanks to all who attended and to those who will be helping out in the coming year.

One of the areas of concern, that I have shared with you in the past, has been in getting help with setting up the monthly presentations. After much discussion, it was decided by a unanimous vote, that we will ask two members each month to be responsible for that month's presentation. Since the roster contains 24 members at this time, this should work out O.K. The present arrangement is to start at the top and go alphabetically through the membership. As a suggestion, you may want to work together on a combined program, or you may want to each put together a 15 to 20 minute presentation separately, or if one person can't be present, the other can do the entire thing. I will contact those members when it is their turn. From time to time, we may have a special presentation or meeting planned, so we may skip a month here and there. Please read your newsletter to see if your turn is approaching. It will be your responsibility to contact your partner and prepare your presentation. If you need help or can't attend the meeting, please let me know as soon in advance as possible so other arrangements can be made. I will also mention each month in this column who is scheduled for the upcoming month. Those who are slated for this month's meeting are Frank Jenkins and Elaine Hurt.

Frank Jenkins gave the annual treasurers report, which I will outline briefly:

OPENING BALANCE 1/12/85 \$377.98
INCOME (dues, interest) \$354.72
TOTAL BALANCE INCOME \$732.70

EXPENSES
ADMIN POSTAGE \$ 66.03
NEWSLETTER \$134.00
EQUIPMENT \$354.72
LIBRARY \$ 6.65
HOSPITALITY \$ 26.00
NEWSLETTER SUBS \$ 15.66
TOTAL \$601.70

ENDING BAL 1/12/86 \$131.00

As a point of interest, here is how the entire Cleveland Area membership is broken down:

Solon ___ 24 memberships
G.C. ___ 19 memberships
Chips ___ 46 memberships
N.Coast ___ 56 memberships
Total ___ 145

Skimming the pages of MICROPENDIUM and various other publications and news sources, I am very encouraged to see that there are lots of new products entering the market for our computer. There is also lots of quality "freeware" and user written software showing up these days. From time to time we will review the market and report what is available. I am looking forward to the coming year with great enthusiasm and expectations for the 99 /4A.

See you on February 8, Solon Public Library.
10:30 help session; 11:30 meeting. Come and bring a friend!

Steve Weinkamer, President

EXECUTIVE NOTES
GOLDEN CRESCENT

Mark your calendars now! The next meeting of the Golden Crescent Users Group will be held on Thursday, February 20, 1986, at RAM Enterprises, Vermilion, Ohio. We will start at 7:30 p.m. Phone 967-1317

We will have demo's of several new software programs and plan on a disk copying session for our members attending. We have received many new programs over the past several months....so here's a chance to update your personal software collection.

Due to the fact our membership has declined over the past

year and the increased cost of the newsletter mailings, we are forced to raise the price of membership in our group. Starting April 1, dues will be raised to \$15.00 per year. Present members can pay in advance to beat the price increase.

We are asking all present members to attend the next meeting to bring along a TI friend and show him/her what a users group can do for anyone interested in our fine computer. We have a lot to offer, including an excellent newsletter. So join in on the fun, and at the same time, increase your knowledge of our excellent machine.

CHUCK MARENO

EXECUTIVE NOTES
TI-CHIPS

I'm sure everyone will agree that January's meeting was a really interesting one. Terry Vacha gave a very informative presentation on the Knowledge Index Information Data Base. This appears to be a very useful service for a minimum cost. Ed Kennelly gave a presentation on the Personal Record Keeping program. Tom Thalner of Edu-Coop showed us the game "Entrapment", and Daryl Saylor explained "Setting Up Files" to us. Thanks to Terry, Ed, Tom and Daryl for a very interesting and informative meeting.

Our library is going to be getting a large number of new programs. We will have a total of about 200 disks in our library. Due to this large quantity, we will be unable to have a leading library of disks. If you want a particular disk of programs, bring an empty disk to the meeting, and we will copy it for you. For those without disk drives, also make a list of what programs you want copied, and bring a cassette.

Here are the results of our election:

President	Rich Polivka
Vice Pres	Russ Shimandle
Treasurer	Dan Keller
Secretary	Jan Fedor
Librarian	Mark McCauley

Congratulations to the new officers. Remember, they all need help. We would really like each member to volunteer to help in some way..copying programs, making phone calls, distributing posters advertising our club, helping to plan

social activities, making program presentations at meeting, helping with the newsletter, etc. Here's a little poem by an unknown author. Make sure it doesn't apply to you during the upcoming year:

WHO ARE YOU?

Are you an active member, the kind that would be missed, or are you just contented that your name is on the list?

Do you attend the meetings, and mingle with the flock, or do you stay away, and criticize and knock?

Do you take an active part, to help the work along? or are you satisfied to be the kind that just belongs?

Do you ever work on committees to see there is no trick, or leave the work to just a few and then talk about the clique?

So come to meetings often, and help with hand and heart, don't be just a member, but take an active part.

Think this over carefully, you'll know right from wrong: ARE you an active member or do you just belong?

Next month promises to be another great meeting. We're going to have presentations on TI-Writer and Adventure Editor. We're going to have a magazine sale and a raffle for a gift certificate for computerware and Valentine candy. Also, please bring your unwanted computerware to this February meeting. We'll have a swap meet.

See you all on February 15 at the North Royalton Public Library at 10:00a.m.

JAN FEDOR, SECRETARY

EXECUTIVE NOTES - NORTHCOAST

Our last meeting held January 18th went well, with a large crowd of people. We had four new members sign up and, 6 guests. This shows our group is strong and is still growing.

We had a very excellent demonstration by Larry Prekockis of Techie 4.01 and the board worked well this time. Make note though that, the new version can only READ when using TE II. To read, write and download you must use Fast Term or other XMODEM program.

Also shown was Trend Line Analysis II. Jim Meekeel showed us the numerous uses and features including bar graphs and print-outs making this a quality program. It was then raffled off.

This year we will establish several new committees. They would take very little of your time but would make things easier for all of us. Please consider doing some small part. We need some one to coordinate an education committee. You

wouldn't have to teach yourself.

Howard Winkler is now working on the SUPER-SUPER CARTRIDGE. It contains TI WRITER, TE II, and Disk Manager II. A selector switch and a reset switch allow it to work like a Widgeit. Thanks to the tremendous effort by Deanna Sheridan we now have over 2000 programs in our library and, the catalog IS UP TO DATE. Since over 80 disks were purchased by the group, members of other groups must obtain copies from their own Libraries. It is up to that group librarian to buy master copies. The catalog is on disk. Seven sides. We will be having a survey of hardware with the specific equipment you have and, also the programming knowledge you may have.

At our next meeting on February 15, we will have a demonstration by Tom Thalner from Edu-Coop of the GramKraker from Millers Graphics. He has all his game cartridges on a few disks (DS/DD). See you there.

RON MINADEO (943-2791)

132PRINT/DOC

"132PRINT" was designed mainly to read two(2) Column-Type files and print them side by side on either 8 1/2" paper in condensed form or on 15 1/2" paper in standard form. By Column-type I am referring to "Part Lists", "Catalog Lists", or "Spread Sheet" type material.

Instructions for program use are as follows.

- (1) Using TWRITER Text Editor create the first column type file up to 79 columns in width.
- (2) Do not save it but print it to disk.
EXAMPLE: FCTM-9, F (ENTER), PF (ENTER),
At PF, enter device name type: DSK1.FILEONE
- (3) Now back to TI-WRITER and create the second or right hand file for the printout.
NOTE: Subtract the length of the longest line in FILEONE from 132 and the balance is the amount left for the width of the second file. [132 - 79 = 53]
- (4) After entering the second file follow steps one and two to save it using another name such as FILETWO etc.
- (5) To complete the process run the program 132 PRINT and follow the prompts as you go.

NOTE: This page was made up from FOUR (4) separate files using 132PRINT .

If you are interested in this type of program, or file handling I will try to improve on this program or create new programs and submit them for publication as often as time will allow.

**** GOOD LUCK **** MS ****

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100 ! **** 132PRINT **** By: Martin A. Sooley **** For EPSON Printer ****
105 ! **** NorthCoast 99'ers US ****
110 ! PROGRAM TO READ TWO FILES OF COMBINED DATA LENGTH EQUALING LESS THEN 132
115 ! AND COMBINE THEM INTO ONE PRINTOUT. **** USING TI-WRITER AND IBASIC ****
120 LINEFEED$=CHR$(13): CHR$(13) = "CR"
125 LINE_END=0
140 CALL CLEAR :: CALL SCREEN(6)
150 PRINT " Printer setting is:" : " PIO, VARIABLE 132": :
160 PRINT " Enter File One (All Caps)": : " Example: DSK1.FILE_NAME1": :
170 INPUT " " : " :D1$
175 PRINT
180 PRINT " Enter File Two (All Caps)": : " Example: DSK1.FILE_NAME2": :
190 INPUT " " : " :D2$
195 PRINT :: PRINT " Checking Line Lengths" :: ! <= -----
200 OPEN #1:D1$,INPUT : | Lines 195 through 220 :
205 LINPUT #1:FIRST$ :: IF EOF(1)THEN 220 ! | are used to find the |
210 IF LEN(FIRST$)>LINE_END THEN LINE_END=LEN(FIRST$)! | length of the longest |
215 GOTO 205 ! | line in FILE_NAME-1 |
220 CLOSE #1 ! <= -----
230 PRINT
240 INPUT " IS YOUR PAPER 15in. Y/N ":WIDTH15$
245 PRINT
250 INPUT " IS THE PRINTER READY Y/N ":Y$
255 PRINT
260 IF Y$="N" OR Y$="n" THEN 140 ELSE 300
300 OPEN #9:"PIO",VARIABLE 132
320 IF WIDTH15$="N" OR WIDTH15$="n" THEN PRINT #9:CHR$(15);! CONDENSED PRINT ON
350 OPEN #1:D1$,INPUT
400 OPEN #2:D2$,INPUT
490 LINPUT #1:FIRST$ ! READ A STRING FROM FILE ONE
500 LINELENGTH=POS(FIRST$,LINEFEED$,1)! FIND LINE LENGTH
510 FIRST$=SEG$(FIRST$,1,LINELENGTH-1)! CHOP OFF "CR"
550 LINPUT #2:SECONDS$ ! READ A STRING FROM FILE TWO
560 PRINT #9:FIRST$;
565 PRINT #9:TAB(LINE_END);
570 PRINT #9:SECONDS$
580 IF EOF(1)OR EOF(2)THEN 585 ELSE GOTO 490
585 PRINT #9:CHR$(18);! CONDENSED PRINT OFF
590 CLOSE #1 :: CLOSE #2 :: CLOSE #9
600 INPUT " WANT ANOTHER COPY Y/N ":Y$
650 IF Y$="N" OR Y$="n" THEN STOP ELSE GOTO 250

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"FILEONE"

132PRINT-BEND

CATALOG

"FILETWO"

Line: No. Date	Customer Number	M	NUMBER	DESCRIPTION	Shipping Date	Parts Shipped	Price Each	Total Price	Total Price	D No.
1--	01/12/86	JM 46278	Y	TM 7045	1 1/2"x 90deg. Aircraft Fitting	01/13/86	- 125 -	142.87	17,858.75	N --1
2--	01/14/86	JM 46276	Y	TM 8904	50 ft. NO. 27 Aircraft Tubing	01/14/86	50 ft.	12.4/f	-- 620.00	N --2

NEW FAIRWARE RELEASES

Due to the poor response of users of FREEMARE, some clubs are changing the name to FAIRWARE in hope that more of you will pay the small amounts requested for the use of some very professional software you have been obtaining and using through users groups for FREE. The following new items were gleaned from the December issue of of the LA Topics and January issue of MICROpendium:

TEATH - Ken Carruthers 3537 Faberge Way, Sacramento, CA 94826 has a terminal emulator written in FORTH.

EASYSprite - Tom Freeman, 515 Alma Real Drive, Pacific Palisades, CA 90272 has A fast Extended Basic program with assembly routines to create graphics.

DISK FILE CATALOGER - By Jim Williams, 5217 122 PL SE, Bellevue, WA 67115 - A disk cataloger program.

MASS-TRANSFER - Stuart Olson, 25322 W. Wayside Place, Lake Villa, IL 60046. Assembly Language terminal emulator capable of multiple transfers at once, in other words, an entire disk.

CHECKBOOK BUDGET MANAGER - John Taylor, 2170 Estaline Drive, Florence, AL 35630. Efficient program for checks and budget maintenance. Send \$10.00 plus disk and stamped mailer. John Taylor's name should sound familiar as the author of SpriteBuilder.

PRBASE - Two diskettes, IBASIC, E/A, MM or TI-Writer, expansion memory required, printer, second disk drive recommended. Fast-access data management system. Data sorts in seconds. William Warren, 2373 Ironton St., Aurora, CO 80010.

42 PROGRAMS - 10 IBASIC graphics programs of transformer toys, 7 miscellaneous graphics, 10 IBASIC games, 3 BASIC games, 11 utility and 1 education. Send \$2.00, blank diskette and stamped, return mailer. Steve Paterson, 2351 Ragan Woods, Toledo, OH 43614

UNIVERSAL DISASSEMBLER - Offers capability to analyze diskettes and disassemble files directly from the diskette as well as from memory. Also offered is a 2-diskette configuration of TI-Forth to run on 1 or 2 drive systems. Rene LeBlanc, 8719 E. San Lucas Dr., Scottsdale, AZ 85258.

RAPID SCROLL - 100% assembly program reads D/V80 files and allows user to rapily window left or right 1 character at a time, or up and down one line at a time. Allows previewing of formatting from TI-Writer without printing and eliminates 20-column "hop" of TI-Writer windowing. Send stamped return mailer and \$3-\$5 to Jurgen Switalski, 21B Lake St., Northville, MI 48167.

TAXMASTER - Tax calculating and printing program to aid in preparation of this year's federal income taxes. IBASIC, memory expansion and disk system. Printer helpful. Prints final tax return on government's own form. Send \$5 for disk postage and handling. Howard Arnold, 210 Beech Valley Rd., Lewisville, NC 27023.

SEARCH OF XYLOSE - IBASIC, memory expansion and disk system required. Adventure game, first in 2-part series. Find Xylose by defeating partner in 5 events. Bave Dalton, 920 Hillview Drive., Marion, IA 52302.

Suggestion: Don't wait for your user group to pick these up for you!

STEVE PATERSON PROGRAMS

In reading through newsletters from other groups, I came upon an offer by Steve Paterson of Toledo to obtain a disk he had prepared "The Best of Steve Patterson". Steve requested the huge sum of \$2.00 plus postage for his disk, or if you sent in a disk of programs to him, he would send you his in return.

This was prior to Christmas, so I pulled together some Christmas songs and sent off by disk. The middle of January I received his and it was really a disk and a half because he sent back a "flippy" with the backside about half full also. There are several games, a couple of utilities; but where Steve really shines is in his graphic presentations. The first one I happened to play was "Alien" which starts out with a quiet day over Toledo, when suddenly disaster strikes. We see the alien ship destroy the city, then the battle to destroy the alien, and finally calm has returned. You don't have to do anything but watch, and it is a delight.

If that wasn't enough, any of you who have sons in the 6 to 10 yr range, will find graphics of your favorite

TRANSFORMER and GEBOT characters. My son's eyes almost popped out of his head when he saw them. Also, there is a graphic of the US Capital, which is gradually erased and replaced by a waving flag, with a display of fireworks, and such such more

Since Steve has placed his programs in public domain, they could probably be put in the club's library without any problem. However, then YOU would not have to make contact with him and let him know you know about his programs. Since he will never get rich from \$2.00 per disk, perhaps if you sent a disk of your favorite public domain programs, it would help him enrich his personal library and also let him know there are people out there who appreciate his sharing his efforts with others.

His address is : Steve Paterson, 2351 Ragan Woods, Toledo, OH 43614.

DEANNA SHERIDAN

SOFTWARE FOR CASSETTES

If you have only the TI basic system with possibly Extended Basic and tape recorder, do you feel the world is passing you by?

In glancing through the software catalogs, there are still many programs available in that medium. For instance, the Navarone PAINT 'N PRINT, CONSOLE WRITER, a module-based word processor which will download to cassette and does not need memory expansion. Extended Software has TYPWRITER and SUPER-SKETCH uses cassette storage.

ALL of the Scott Adams Adventure games are available on cassette, even the newest releases which feature popular comic-book characters. There are 2 full pages of disk OR cassette-based games in the latest TRITON catalog. The TENEX winter catalog features all of the books published by SAMS at special prices of \$6.95 apiece or 4 for \$19.95 with the programs from the book pre-recorded on cassettes as part of the price. The titles of these books range from basic games to a trivia data base, a spreadsheet program, tricks for developing program skills, etc. They also have 2 pages of educational programs from KIDWARE and MicroEd in cassette format.

Almost all of the books published by COMPUTE! include provisions for cassette storage if the program contains files. Two of the books (which can still be obtained from Compute! Publications) that contain handy home or business applications are: Compute!'s Guide to Extended Basic Home Applications on the TI-994/A and Compute!'s TI Collection Volume One. The former has chapters on creating and using data files for both disk and cassette storage. Some of the programs included are a spreadsheet, bar charts, a tape card file, and an appointment calendar. The latter includes a mailing list, another spreadsheet, a program to figure interest, mortgage payments, and other financial interests, a mini-data base system, several games and a chapter on

creating sound and graphics.

Another book which features cassette storage is the TI-994/A IN BITS & BYTES, published by Remo A. Loreto, P.O. Box 14781, Cincinnati, OH 45201. A major portion of the book is devoted to games, but there is also a bill filing system, loan calculating program, household inventory, home plant care library, birthday song with graphics, and mail and phone list.

The Steve Davis Book, Programs For The Home Computer also has many utilities for cassette users. Rather than file storage, most of the programs in this book use data statements. There are a few games, but also, a cassette program finder with printer option, airline guide, trip planner, video tape finder, a data base to store magazine articles, books etc., with search features.

A book entitled "BASIC TIPS" by Aelist, 4542 Memorial Drive, Suite 202, Atlanta, GA 30032 is a "how to" book on programming that shows you how to get the most out of a basic system with cassette. ALL of the programs in this book are cassette based. Some of the utilities are a budget program, bowling stats, baseball stats, memory jogger, money planner, and golf handicapper.

Did anyone notice that the FREEMARE program SpriteBuilder can be used with a cassette? Between 80 and 90 per cent of the programs in the groups' libraries can be used with cassette. Data-based programs can be changed by changing file parameters, or by using the base program with data statements. None up on your programming skills by adapting these programs to your system. There are many in this category. If those who have the cassette-based systems will let it be known the type of articles they would like to see, the editors will do their best to include them in the newsletter.

NEW ADDITIONS TO NORTHCOAST'S LIBRARY, ETC.

NorthCoast has made available to the librarians of the sister user-groups in this area, their entire library of approximately 2,000 programs, plus FAIRWARE.

Because of the large volume of programs involved, it is necessary that members of each of the groups in the area contact their own librarian for access to these programs. At the recent Mark McCauley of TI-Chips has provided us with 200 disks which are in the process of being duplicated. These programs come sorted by categories and cataloged on 7 disks.

It should also be noted that we have on disk the entire FORTH manual (5) disks and have added several more FAIRWARE

programs, as well as regular library disks. New FAIRWARE programs include: Weather Forecaster, Mass Transfer, and the game Lannower. Other programs are a graphic and music demonstration of a space shuttle flight, a program for archiving disks (double-density required), a load interrupt allowing Tax RecordKeeping module to print to a parallel printer, and Disk IV/BASIC Games, 3B Home/Financial, 6M Utilities.

Your help is still needed in obtaining new and interesting programs for the library. Please remember that you can use the library as an enormous encyclopedia when writing your own programs. There are routines which cover almost any situation and are a great programming tool.

MERGE FILE EDITOR Makes Programming Easier

By Michael C. Aundson
New Horizons, January 1986

TI EDITOR IS GOOD, BUT

In the time I have spent writing TI BASIC and XBASIC programs, I have come to appreciate the TI Line Editor built into the console. If all the home computers, TI's Line Editor is about the best I've worked with. Few computers offer the easy editing of a single line (typing NUM XXX or EDIT XXX and using arrow keys, etc.) or the global resequencing of program lines (great when you have to insert a line later) that the TI Line Editor has. In fact, in many machines, you need to use a word-processor to generate your original textfile for the basic programs (goodbye automatic line-numbers!).

There are some times when I could use some more flexibility than the current TI editor offers, though. There are four editing actions that I often need, but are not allowed by the built-in console editor. They are: 1) delete a series of lines (say a whole subroutine); 2) copy a series of lines to another file for use in other programs; 3) move a series of lines to another area in the same program (for example, move all data statements to the end of the program); and 4) delete only the REM lines to save memory space once the program is completed.

To meet my needs for a more flexible editor (and my need to continue to write programs!), I wrote a program called MFE (Merge File Editor) that allows the editing actions I described above. This program works only on XBASIC's MERGE Format files and requires a disk drive, expansion Memory and, of course, the XB cartridge. Below is a run-down of the capabilities of this small, but powerful programming aid.

WHAT THE MFE CAN DO

The MFE is great for doing little "spot-editing" in your programs. It allows you to copy or delete any line or

sequence of lines in your program, delete only the comment lines, and resequence any line or group of lines including moving a group of lines from one part of the program to another. All these functions can be done on any BASIC or XBASIC program as long as it has been SAVED in XBASIC's MERGE format.

DELETE-ing Lines

If you suddenly realize that the subroutine you just wrote is a duplicate of some other lines in your program, you could use the built-in editor to erase each line, one at a time (and sit and wait around!) or you could use the MFE to do it all at once.

MFE asks you what the starting and ending lines to delete are and then creates a new program file with the offending lines removed.

COPY-ing Lines

I often discover that the subroutine I need has already been written in some other program. Instead of getting the printout and sitting at the console typing the thing in again, I just use the MFE to copy the desired lines from the original program into another file for use in my new project. This saves time, effort and reduces the chance of typing errors in transferring the routine.

Deleting REM Lines

I tend to write a lot of comments in my programs as I am designing them. It helps me remember where I am headed when I come back to the project later on. But these comments use up precious memory and need to be removed to improve the speed of the program. I use the MFE to delete all 'REM' and '!' comment lines from my completed programs.

RESEQUENCING Lines

This is by far the most handy of the MFE functions. It allows me to outline a specific set of lines (say 1050-2015) and to resequence them using any starting line number (say 3000).

This may not seem handy at first, but I have come to love this feature of MFE. Below are some examples of the use of resequencing to help improve programs:

1 - KEEPING THINGS NEAT

I like to keep things easy to read and edit when I write a program. I try

to start all major routines with similar line numbers like 1000, 2000, 3000, etc. and I try to keep all line numbers in increments of 10.

When I am de-bugging, however, things get a bit messed up, discovering the need to add an extra line can mess up the line numbers, and using the TI editor to resequence can botch up my 1000, 2000, 3000 sections too!

I can use MFE to fix this, though. I can tell MFE to resequence lines 1000-1135 in increments of 10 (or 5, 20, etc.) starting at 1000. No other lines will be affected and every jump-reference (GOTO, GOSUB, etc.) will be adjusted if needed. Handy, eh?

2 - MOVING THINGS AROUND

The MFE can also move entire sections of code from one part of the program to another. How many times have you discovered you have just written some program code underneath an XBASIC Subprogram? The program won't run because all Subprograms must be at the end of the program code! How about when you wish you had put that subroutine at the end of the file instead of the middle? Or how about wanting to put all your DATA statements in one section instead of scattered throughout your program? Do you delete the code and write it all again in the proper place? Not if you have MFE.

With MFE you can move any line of code by just changing the starting address of the resequencing. For example, say I wanted to move the DATA statements now at lines 350-460 down to the end of the file at around 1500. All I need to do is tell MFE to resequence starting at 350 and ending at 460 and start the new line numbering at 1500 in increments of 10. MFE does the rest!

MFE DISK AVAILABLE

MFE has become a standard tool in my programming arsenal, and I highly recommend it for anyone who does a lot of BASIC and XBASIC programming.

A program disk including on-line instructions is available for \$5 by contacting:

Michael Aundson c/o SubFile99
POB 533, Bowling Green, OH 43402
CIS: 71706,625 STC: T15361

HARDWARE HINTS

HALF HEIGHT DRIVE INSTALLATION

By Ken Gladyszewski

When installing a pair of half height floppy disk drives in the peripheral box, extra connectors for both the interface and power cables are required for the second drive. The interface cable can be handled by adding a 34-pin card edge connector (Radio Shack 276-1564) to the existing ribbon cable (the cable is just barely long enough), or by removing all the connectors from the existing cable and re-installing on longer cable. (Orientation to colored stripe is important. Improper installation causes drive to improperly run continuously, but with no apparent damage.)

KEYBOARD REPLACEMENT TIP

By Ken Gladyszewski

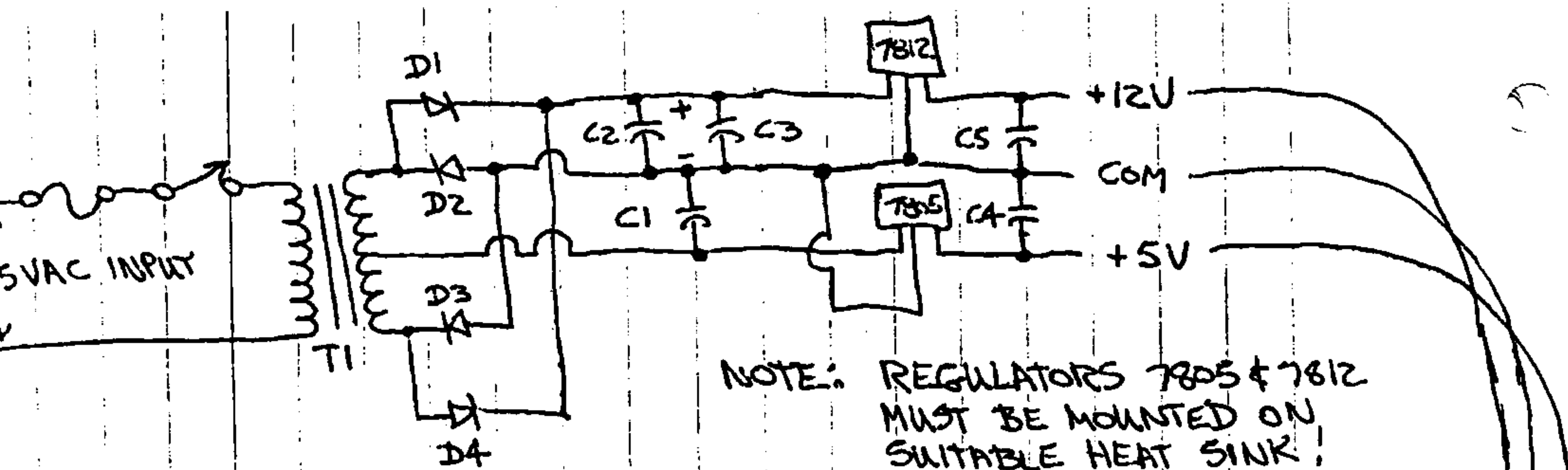
When a beige keyboard is installed in a black and silver console, great care must be used to center the keyboard to eliminate binding of the outer keys. Ron Minadeo has

discovered that the overlay strip above the number keys is held in a plastic extrusion which is fastened to the computer with double sticky tape. It can be repositioned higher for more key clearance by filing or sanding the upper corners of this extrusion and refastening it.

EXTERNAL DISK DRIVE POWER SUPPLY

By Ken Gladyszewski

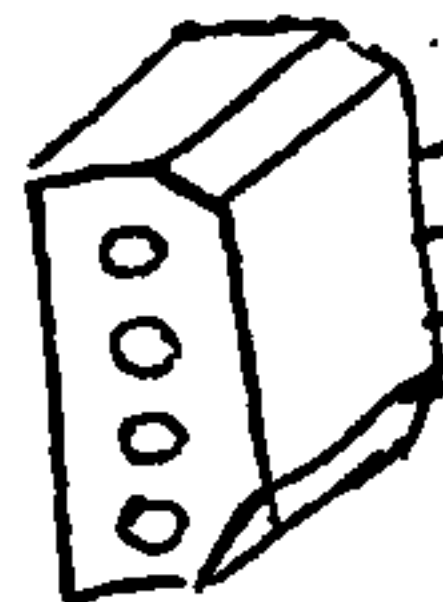
When I bought a case and power supply for an external disk drive, I was amazed at how simple and uncomplicated the power supply was. I present the circuit and parts list here for those wanting to build their own, because they already have most of the parts. These parts are expensive and total \$21 (without a recommended on-off switch and fuse). Better and less expensive complete power supplies or these same parts can be purchased from a surplus house by mail. Sheet metal enclosures can be obtained similarly. Any power supply with 12 volts DC @.5 AMPS min, and 5 volts DC @1.0 AMPS min. should power most any single full height drive.



NOTE: REGULATORS 7805 & 7812 MUST BE MOUNTED ON SUITABLE HEAT SINK!

QTY	DESCRIP.	PART NO.	COST
1	TRANSFORMER 16V CT @ 2.0A	273-1515	\$6.99
3	CAPACITOR 2200 µF @ 35V	272-1020	\$2.49 EA.
2	CAPACITOR 100 µF @ 35V	272-1016	.79 EA.
4	3 AMP BARREL DIODE IN540Z	276-1143	2/89¢
1	5V FIXED REGULATOR 7805	276-1770	\$1.59
1	12V FIXED REGULATOR 7812	276-1771	\$1.59

+12
COM
COM
+5



K. GLADYSZEWSKI
12-31-85

OH_ SAY CAN YOU C

By Edgar Bohmann
Johnson Space Center (JUG)
December, 1985

AT LAST!!! Thanks to Clint Pulley of Burlington, Ontario, Canada, we now have a REAL high-level language compiler for the TI-994/A at an affordable price.

Clint has developed a C compiler which he calls c99. This compiler is actually a subset of C and is based on the concepts and descriptions of Small-c. While it is a subset of C, it is a true compiler in that it generates TMS9900 machine code from source files written in C language.

I put C in the same category of languages as Fortran and Pascal. Basic was designed to be an interpretive language and even compilers written for Basic suffer somewhat because the language was not originally designed to be compiled. FORTH and p-code languages approach machine code execution speed but because they generate code for a pseudo-machine, generally run a factor of 2 slower than assembly language programs.

Up until now, the only way to get machine code execution speed out of the /4A was to write your programs in assembly language (or buy an expensive Basic compiler and live with a unique version of Basic). Now, for the modest sum of \$20.00, you can obtain a c99 compiler from:

Clint Pulley
38 Townsend Avenue
Burlington, Ontario
Canada L7T 1Y6

Clint has actually placed the c99 compiler into public domain for FREEMARE distribution. He encourages people to use and distribute the compiler, libraries, and associated software

and documentation provided on the distribution disk. Other than the \$20.00 contribution, he only asks for a complimentary copy of any useful applications programs developed with his compiler.

While \$20.00 is more than most FREEMARE authors are asking, I think this one is well worth the price. From experience, I can tell you that developing a compiler is significantly more work than most other FREEMARE (and many commercial) authors have put into their programs. Furthermore, Clint's offering opens up a whole new realm of programming possibilities for us.

The distribution disk includes a 10-page manual which can be printed with Ti-Writer or the Editor/Assembler. This manual explains how to use the compiler and libraries. If you need a C reference manual, there are a number available. Both SAMS and McGraw-Hill have published excellent C Primers, Prentice Hall has a good C Programming Language reference book, and Prentice Hall has also published The Small-c Handbook by James Hendrix.

If you are already familiar with high level languages like Fortran or Pascal, I would recommend the book by Hendrix. If you are trying to step up from Basic to a more formal high-level language, then I would recommend one of the primers on C.

Clint has released a second disk containing an optimizer for the c99 compiler and some sample application programs. One is a breakout type of arcade game which provides a quite impressive demonstration of this compiler's power.

Clint also promises to place everyone who sends him \$20.00 on a mailing list to receive notices of new releases. I strongly recommend supporting Clint in his efforts. His contribution to the TI-994/A community is outstanding.

MORE C

The C Compiler and its potential for the TI are featured in the February issue of "Computer Shopper"'s Randy's Ravings column. Randy feels that this software will do as much or more than FORTH in helping keep the TI alive and well for the serious computerist. The exciting feature of this compiler is that it generates assembly source (object code when assembled) and that this version will allow a wide variety of C programs written for other machines to be ported to our TI. He plans an in-depth review and analysis for his next column.

GENINI 10X OWNERS - From Suncoast Dealer 12/85

There is a new product from Germany that has the Genini printer owners quite excited. It is a plug-in chip that produces LETTER QUALITY print on the 10X. It seems that you have to sacrifice the ITALIC print, but it may be worth it if you need LETTER QUALITY. It's better than spending \$200+ for a new 86-10. You can contact:

E.S.P. Corporation (813-333-6797)
7900 North Tamiami Trail
Sarasota, FL 34243

SOME UNUSUAL COMPUTER LANGUAGES . . .

Copy provided by Rod Cook, Newark OH - Member OH-MI-TI

Languages NOT included in the Commercial Language SIG or the Languages and Tools SIG

By Doug Bohrer, Bohrer and Company, Near Chicago and

Ted A. Bear, MCA Corporation, In the Heart of Silicon Valley and

A Usually Reliable Source, Digital Equipment Corporation, Somewhere in New England.

APL, BASIC, COBOL, FORTRAN, PASCAL, RPG...these programming languages are well known and (more or less) loved throughout the computer industry. There are numerous other languages, however, that are less well known yet still have ardent devotees. In fact, these little known languages, generally have the most fanatic admirers. For those who wish to know more about these obscure languages--and why they are obscure--we present the following catalogue.

C-

This language is named for the grade received by its creator when he submitted it as a class project in a graduate programming class. C- is best described as a "low level" programming language. In general, the language requires more C- statements than machine code instructions to execute a given task. In this respect it is very similar to COBOL.

BOGO

Developed at MIT (Massachusetts Institute of Obedience Training). BOGO heralds a new era of computer literate pets. BOGO commands include SIT, HEEL, STAY, PLAY_DEAD and ROLL_OVER. An innovative feature of BOGO is "puppy graphics", a small cocker spaniel that occasionally leaves deposits as it travels across the screen.

FIFTH

FIFTH is a precise mathematical language in which the data types refer to quantities. The data types range from CC, BUMCE, SHOT and JIGGER to FIFTH (hence the name of the language), LITER, MAGNUM and BLOTTO. Commands refer to ingredients such as CHABLIS, CABERNET, GIN, VERMOUTH, VODKA, SCOTCH, BOURBON, CANADIAN, COORS, BUD, EVER-CLEAR and WHAT_EVERS_AROUND.

The many versions of the FIFTH language reflect the sophistication and financial status of its user. Commands in the ELITE dialect include VBOP, LAFITE and WAITERS_RECOMMENDATION. The GUTTER dialect commands include THUNDERBIRD, RIPPLE and HOUSE_RED. The GUTTER dialect is a particular favorite of frustrated FORTH programmers who end up using this language.

LAIBACK

This language was developed at the Marin County Center for T'ai Chi.

Mellowness and computer programming (now defunct), as an alternative to the more intense atmosphere in nearby Silicon Valley.

The center was ideal for programmers who liked to soak in hot tubs while they worked. Unfortunately few programmers could survive there because the center outlawed Pizza and Coca-Cola in favor of Tofu and Perrier.

Many mourn the demise of LAIBACK because of its reputation as a gentle and non-threatening language since all error messages are in lower case. For example, LAIBACK responded to syntax errors with the message:

"I hate to bother you, but I just can't relate to that. Can you find the time to try it again?"

LITHP

This otherwise unremarkable language is distinguished by the absence of an "s" in its character set. Programmers and users must substitute "th". LITHP is said to be used prothething litht. This language was developed in San Francisco.

REAGAN

This language was also developed in California, but is now widely used in Washington, D.C. It is the current subset of the international bureaucratic language known as DOUBLESPEAK. Commands include REVENUE_ENHANCEMENT, STOCKMAN, CAP_NEINBERGER, MALCOMB_BALDRIDGE, CABINET, CHIP_WOOD, LAXALT and SCENARIO. MATT and BURFORD have been removed from the commands while there is a current effort to add NEESE.

The operating systems used is NEW_RIGHT and the designated memory is THE_RANCH. The compile SCENARIO is a compile with NANCY followed by a link with DONZO resulting in a SNOOZE. CONNIES (program bugs) are removed with the GRANADA command.

A REAGON program commences with LANDSLIDE and terminates with SENILITY.

RENE

Named after the famous French philosopher and mathematician Rene Descartes, RENE is a language used for artificial intelligence. The language is being developed at the Chicago Center of Machine Politics and Programming under a grant from the Jane Byrne Victory Fund. A spokesman described the language as "Just as great as dis (sic) great city of ours."

The center is very pleased with progress to date. They say

they have almost succeeded in getting a VAX to think. However, sources inside the organization say that each time the machine fails to think it ceases to exist.

SATRE

Named after the late existential philosopher, SATRE is an extremely unstructured language. Statements in SATRE have no purpose; they just are. Thus SATRE programs are left to define their own functions. SATRE programmers tend to be boring and depressing and are no fun at parties.

SIMPLE

SIMPLE is an acronym for Sheer Idiot's Monopurpose Programming Linguistic Environment. This language, developed at Hanover College for Technological Misfits, was designed to make it impossible to write code with errors in it. The statements are, therefore, confined to BEGIN, END and STOP. No matter how you arrange the statements, you can't make a syntax error.

SLOBOL

SLOBOL is best known for the speed, or lack of it, of the compiler. Although many compilers allow you to take a coffee break while they compile, the SLOBOL compiler allows you to travel to Columbia to pick the coffee. Forty-three programmers are known to have died of boredom sitting at their terminals while waiting for a SLOBOL program to compile.

VALGOL

From its modest beginnings in Southern California's San Fernando Valley, VALGOL is enjoying a dramatic surge of popularity across the industry.

VALGOL commands include REALLY, LIKE, WELL and YOKNOW. Variables are assigned with the =LIKE and =TOTALLY operators. Other operators include the California Booleans, AX and NBNAY. Repetitions of code are handled in FOR - SURE loops.

Here is a sample program:

```

LIKE, YOKNOW (I MEAN) START
IF PIZZA      =LIKE BITCHEN AND
GUY          =LIKE TUBULAR AND
VALLEY GIRL  =LIKE GRODY$MAX(FERSURE)82
THEN
FOR I =LIKE 1 TO ONMAYBE 100
    BOOMAH - (BITTY82)
    BARF(I) = TOTALLY GROSS(OUT)
SURE

LIKE DAG THIS PROGRAM
REALLY
LIKE TOTALLY (YOKNOW)
INSURE
GOTO THE HALL
  
```

VALGOL is characterized by its unfriendly error messages. For example, when the user makes a syntax error, the interpreter displays the message:

GAG ME WITH A SPOON!!

(This article first appeared in the APL SIG newsletter THE SPECIAL CHARACTER SET (D. DONNER, EDITOR) and has gained steam ever since.) We took it from the Northwest Ohio 79'er News, January, 1986.

TRY THESE WITH TI-WRITER "EDITOR" AND YOUR GEMINI-10X PRINTER"

- ```

#####
Enlarged Print --CTRL U SHIFT N CTRL U
Cancel Enlarged --CTRL U SHIFT T CTRL U
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Cancel Condensed --CTRL U SHIFT R CTRL U
Underline Mode --CTRL U FCTN R CTRL U SHIFT - CTRL U SHIFT A CTRL U
Cancel Underline --CTRL U FCTN R CTRL U SHIFT - CTRL U SHIFT O CTRL U
Doublestrike Mode --CTRL U FCTN R CTRL U SHIFT G
Cancel Doublestrike --CTRL U FCTN R CTRL U SHIFT H
Emphasized Mode --CTRL U FCTN R CTRL U SHIFT E
Cancel Emphasized --CTRL U FCTN R CTRL U SHIFT F
#####

```

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Send me a membership form for the following groups:

\_\_\_ Solon: \_\_\_ TI Chips: \_\_\_ Golden Crescent: \_\_\_ Northcoast.

When you put together the newsletter, you get to have the last word. I think it should be noted that we have utilized Martin Smoley's "132PRINT" three times in the preparation of this newsletter. It is going to be a very useful utility. By the way, he is already working on an improved version.

There will be more innovative and useful programs in future issues. A member of the Golden Crescent group has received his Ram Disk and promises to tell us how it works. A member from Solon will be helping you learn assembly language. Don't forget, our adventurer Dave Talan, has an article on winning at Tunnels of Doom.

Some of the users groups put out newsletters that rival a few of the commercial magazines, and we will be tracking those we receive to get most out of our exchange list. You are missing a great opportunity to not only help out the groups, but increase your personal knowledge, if you don't volunteer your services to the newsletter group or other committee.

DEANNA

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