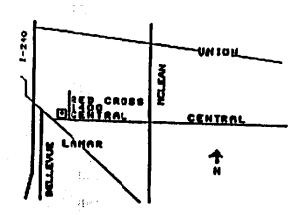
NOTICES

MEETING 7:00 P.M. Thursday, June 21st Red Cross Building 1400 Central Ave.

WORKSHOP 9:00 am - 12 noon Saturday, June 23rd To Be Announced

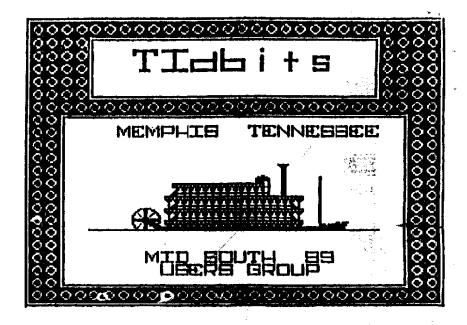


Mid-South 99 Users Group P. O. Box 38522 Gersantown, TN 38183-0522

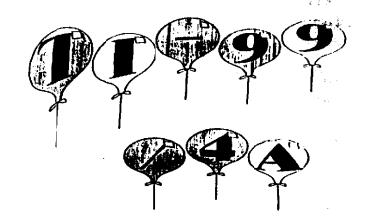


UG 2/86
DALLAS TI USER GROUP
P.O. BOX 29863
DALLAS, TX 75229

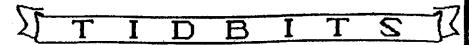
FIRST CLASS MAIL



June 1990 Issue



Newsletter for the HID-SOUTH 99 USERS GROUP Vol 8, 46 JUN 1996



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PRESIDENT'S BIT

By Gary W. Cox

At last months meeting we tried something new which turned out quite well and that was having smeck food and drinks at the meeting. We will be trying that again at this months meeting.

As a reminder note Pierre's BBS is still up and going strong. The number is (901) 386-1760. Give it a try!

I have mentioned before another group called the Home Computer Users Group supporting all computers in general but geared more toward IBM compatibles. However, the group is designed to support the home use of computers rather than business applications. The group meets at 6:30 the 4th Tuesday of each month at the new auditorium at State Tech. Check it out! This months meeting will be a presentation of Weather Forecasting using programs and weather services VIA your computer. The demonstration will be by yours truly...

Several people asked what happened to Bill Gaskill's article last month. I spoke with Bill for about an hour on the phone (at his expense!) and it appears that a monthly article has become more than he can do right now. Just collecting the information for his monthly article is a great time consuming task! However, he does plan on continuing an article or two every so often and will have many articles appearing in Micropendium. Plus he has sent us a few new articles for the newsletter for the next few months. Thanks Bill!!

C ye at the meeting...

PROGRAM BIT

Heating: 7:00pm, June 21, 1990 - Red Cross Building

6:30pm - Doors Open

7:00pm - General Discussion

7:30pm - Desonstration of ROS 8 Operating System for the Horizon Ras Disk. This is the latest operating system and will specifically take advantage of Rambo for the randisk! Desonstration by Jim Sassenes.

7:45pm - Demonstration of The Hissing Link. Demonstration by Jis Saemenes.

Plus Jis will give a pre-view (if ready) of a program he is working on called "Contents" which can be used to keep track of files, books, tapes or just anything that has a table of contents in it.

9:30pm - Clean Up Feriod

9:45pm - Late dinner at location to be announced at seeting.

Plus snack food and drinks will be available at the meeting.

IN THE NEWS

By Gary V. Cox

Version 3.0 of TI BASE is now available. Hany enhancements and time saving abilities have been added. Owners of previous versions any upgrade for \$14.94 plus \$3 shipping. Those who purchased TI BASE after Harch 31, 1990 can obtain a free upgrade (plus \$3 shipping). For the free upgrade be sure to include your sales receipt and both disks, other upgrades just return both disks...

Texaments has offered our group discounts effective until July 30th on many of their products. The products and prices are as follows: II BASE version 3.0 for \$19.95, TI Artist Plus for \$19.95, Artoons for \$10.95, The Missing Link for \$20.95, Guidelines for \$6.95 and \$2 off of any TI BASE application. The assings range up to \$5 per program plus with enough orders shipping charges are also lower! If interested in any of the discounts let me know at this months meeting.

Also new from Texamenta is Artoons, a huge 3 disk set, contains precision drawings of all your favorite cartoon characters...like The Simpsons, Peanuts Gang, scenes from The Par Side, and Huppet characters, to name a fev. There are over 50 cartoon drawings in this fun-filled package for TI Artist users. All drawings are stored in the popular instance format. \$12.95 plus \$2.50 shipping.

Also according to Texaments, shipment of all Myarc products has been delayed due to Myarc's inability to ship products on a timely basis. If you have not heard from Texaments after placing your order don't worry "as soon as Myarc ships us our order, we will immediately ship yours." It is recommend that you now call Texaments to find out the availability of Myarc products before placing your order.

For more information contact Texaments at 53 Center Street, Patchogue, NY 11772, phone (516) 475-3480 (voice), (516) 475-5463 (BBS).

New from Rave 99 of 112 Rambling Road, Vernon, CT 06066 is a new Expansion Chassis. The new chassis is designed to use the existing Ti or Geneve PEB cards and disk drives. A 200 watt power supply is provided for "sore than enough power for most applications". The new chassis has alots for 8 expansion cards and contains a power switch, keylock, turbo switch, power LED,

Hard Disk LED, and Turbo LED. Model PE/2-A replaces the original TI PEB while model PE/2-B provides additional space to allow the TI motherboard to be installed in the chassis. Estimated cost for the PE/2-A is \$275 and the PE/2-B is \$325 with \$12.50 shipping. For sore information call Rave 99 at (203) 871-7824.

A mesorial disk of Bill Knecht's susic is being made available. It contains 63 songs of Religious, Christmas and Popular songs with Graphics. It will be formatted to suit your system (DS/DD, DS/SD, SS/SD). Price is \$10 per complete program and proceeds will be used to purchase hymnals for the church where Bill was a member. Hail donations (\$10) to his father, Henry Knecht, 3309 Flamborough, Pasadena, TX 77503 (713) 473-8870.

As for what went on at the Lina TI faire here is a message downloaded from Genie from Barry Travler giving a brief summary of the event.

Well, I'm back from the Line Faire (first TI faire I've been able to attend since Tucson), and I'm glad to report that things are alive and well with the TI-99/4A and Nyarc 9640, and the Faire was a resounding success.

Speakers (in alphabetical order) included Chris Bobbitt, Gary Bowser, Charles Good, Bruce Harrison, Jim Horn, Irwin Hott, Harold Hoyt, Bill Hudson, Beery Miller, Bud Hills, Jim Peterson, Karl Romstedt, Paul Scheldemantle, Gary Taylor, and ayself. (By the way, user groups — not individuals, please! — may order the three videotapes — including at least 16 hours of presentations — from Charles Good at cost by sending him either \$15 or three new blank tapes plus \$3 for shipping; him address is Dr. Charles Good, Box 647, Venedocia, OH 45894.)

I don't have a list of the vendors (and didn't have much of an opportunity to travel around, since I had a table myself), but it seemed like most major vendors were represented (which the list of speakers appears to confirs). In addition, a surprisingly large number of user groups had tables (more than last year, I believs), which is certainly an encouraging sign as to our continued survival as a TI community. (For example, one user group that I was glad to get to know better who had a table at Lima was the Kawartha 99ers User Group from Peterborough, Ontario, Canada.)

Here's some of the news relating to the Line Faire: []

Chris Pratt of ESD (Electronic Systems Development Corp.) announced plans to release a hard and floppy disk controller. According to ESD, the card will have "a new revolutionary design using surface mount parts." Reportedly, its "unique design eliminates heat problems on the card." Horeover, the card "features an EEPROH which allows future DSR upgrades to be loaded by disk," and "set-up information stored in the EEPROH eliminates dip switches on the board." (Modestly, ESD claims that the card is "designed by an electronics and computer corporation which supports its users." We'll sec....)

At the show, Charles Good (at whose home I stayed while at Line)

thanks, Charles, for the kind hospitality, and thanks to Ohio State University Lima Campus for their hosting of the "T.I. Computer Hulti User Group Conference" on May 26, 1990!) introduced version 4.3 of Funnelweb, which has some nice new features (especially for those who have 30-column cards).

Jim Peterson released many Tigercub Software programs (with exception of the Nuts Bolts disks) for FREE DISTRIBUTION, providing that no price or copying fee is charged. (This is brand-new news) the new Tigercub programs are _not_ included in the latest TI-PD catalog uploaded to this network. If you want more information, send \$1.00 to Jim Peterson, Tigercub Software, 156 Collingwood Avenue, Columbus, OH 43213, requesting his latest TI-PD catalog, _including_ supplement 48.)

Harrison Software has a great new disk of music out, "Mozart Serenade," which includes "Bine Kleine Nachtausik" (K. 525), 2 piano sonatas (K. 311 and K. 331, the latter containing "Rondo alla Turca"), and 12 variations on "Ah! vous dirai-je, masan" ("Twinkle, Twinkle, Little Star") (K. 265). (If you want a copy, send \$6.00 to Harrison Software, 5705 40th Place, Hyattsville, ND 20781, specifying whether you want it in DSSD or on a SSS D "flippy.")

William A. Shores, 5737 Glendale Brive, Pockport, NY 14094 introduced an Extended BASIC Module Expander, which gives you XB and 5 other cartridge selections all in one, with the hardware kit being available for \$25 plus \$3 shipping (although there is an important limitation; only modules with 16-pin gross can be used with the B/B Module Expander). (Before buying, you should also check out the module expander available from Gary Bowser, Oasis Pensive Abacutors, 432 Jarvis Street, Saite 502, Toronto, Ontario, Canada M4Y 2H3.)

Lots of other new stuff was there as well (e.g., Brad Snyder's The Animator, sveilable from Asgard Software, P.O. Box 10306, Rockville, MD 20849), but I think I've said enough to show that there's lots of action going on, so keep on cosputIn'!

The following edited from the May 1990 Micropendium:

Donaldson Software of Buckingham, Quebec, Canada has coased operations according to Floyd Donaldson of the company. Donaldson Software produced sainly cassette based software for the TI99/4a.

LGMA Products has relocated to 5618 AppleButter Hill Rd., Cooperaburg, PA 18036, according to Al Beard of the company. LGMA products include 99 Fortran and 9640 Fortran...

Asgerd Software has released two new adventures for the Adventure module. Castle Darkholm and Retilesnake Bend. Both adventures are available on cassette or disk for a suggested retail price of \$8.95 each.

Also now being sold is Spell It! described as compatible with any word processor which can store a file in D/V 80 format. Spell It! would seem to be quite a comprehensive spell chacker and a big

step upward from previous spelling checkers! The three disk SS/SD version of 25,000 words sells for \$24.95, DS/DD version of 25,000 words for \$19.95 and the HDFC version of more than 250,000 words for \$34.95 plus shipping of \$2.50. We should have a review of it in our newsletter soon and a demonstration of it at this month or next months meeting. For more information about Spell It! contact Asgard Software at P.O. Box 10306, Rockville, ND 20849 or call (703) 255-3085.

That's the news for this month!

FOR SALE

Thomson 4120 color monitor. Monitor accepts RGB analog, RGBI and composit video signals and thus will work with the Ti99/4s, any IBM compatible using CGA and is perfect for the Geneve 9640. Monitor provides and 80 column display when used with the Geneve or compatible video card. Asking \$150 (plus shipping if shipped out of town). If interested contact Gary Cox at (901) 358-0667.

THE MISSING LINK

A New Operating Environment for XB Users

Review by 3111 Gaskill

The Missing Link (THL), which was written by EZ-KEYS author Harry Wilhelm, is an asseably language program that gives Extended Basic users and programmers access to the 99/4%'s bit-mapped graphics display mode. Programmers with the ability to work in assembly gained access to this mode when TI brought out Editor/Assembler, but it has never been directly accessible to Extended Basic programmers. TML has changed all that. You can now write programs in Extended Basic that display the same kind of stunning detail and graphics that appear in programs like Parsec or Munchlan. Even if you are not a programmer, you can still benefit from TML through applications that are written in the TML environment.

THE PRODUCT:

The \$24.95 (plus \$2.50 S/H) package comes with a SS/SD diskette and a laser-printed, 30-plus page sanual. There is no specific loader provided, just RUN "DSK#.TMI" is all that's required. You must have a 32K memory expansion card or unit, and either TI's Extended Basic V110 or the Triton/HG Super Extended Basic module. At least one SS/SD disk drive is required.

SUPPORT:

The Missing Link is warranted for a 90 period from date of purchase, with a \$5.00 replacement fee required after the 90 day warranty has expired. No upgrade policy on the program has been announced to my knowledge. The usual Texaments upgrade policy offers upgrades at 40% of the original purchase price with the return of the original diskette. Free support after the sale is offered by Texaments via queries that are addressed to the author, through Texaments.

OVERVIEW:

The Missing Link is a programming environment that supports the creation of peripheral applications in such the same way that TI-Base does through its command file programming language. The "platform", in this case TML, provides the environment and the appropriate commands to access that environment, then you provide the custom:code by writing your programs using TML supported statements. With the introduction of TML the Extended Basic programmer has a powerful new tool for professional application development, with high-res graphics, and the Extended Basic user has the ability to access those applications, from nothing sore than the Extended Basic module (and 32K semory of course).

A program called PaperSaver, that comes on the TML disk, will give you a superb idea of what I mean when I use the term "professional application development". PaperSaver is a sulti-window, multi-font program that displays a "preview page" of a formatted TI-Writer document. Along with the display of the page, which shows exactly how the document will look when printed, two other windows on the same screen allow you to edit the contents of the page or just read it if you like. Of course you can print it too. This is ALL done with an Extended Basic program. If you buy the \$3.00 demo of The Missing Link you get to see PaperSaver in action too, though it is not the full-bore program.

PEATURES:

THL is feature-laden, but not intimidating. It supports windows, sultiple colors, sultiple fonts, varying text formats, Cartesian Graphics (lines, circles, boxes stc.), TI LOGO-like turtle graphics, Sprite Graphics, it both loads and saves TI-Artist pictures and it even has a single-density screen dusp feature that you can see in use in the Mutual Fund Performance program that accompanies this article. While you will have to learn how to "tweek" The Hissing Link to make your XB programs fit it's environment, you BON'T have to learn a new programming language to take advantage of all of the powerful features that it offers. The list below gives you an idea of the command structure required.

CALL LINK("CLS")-clears the screen.
CALL LINK("COLOR", 16,5)-sakes the screen blue with white text.
CALL LINK("PE")-sets the status of the pen (that you draw with) to pen erase.

CALL LINK"("WINDOW"r1,c1,r2,c2)-defines the upper left then lower right corners of a window.

CALL LINK("PRINT",row,column,string, number or string variable)-displays text or numbers on the screen.

CALL LINK("INPUT",row,column,string,number variable,length,prospt string)-accepts input from the screen, with input parameters for length and suggested responses)

As you can see, there is not a lot of mystery to the commands. Except where features unique to The Hissing Link are called, like CALL LINK("PIXEL", row, column, FG color, BG color), the CALLS are much like mest of the 4D Column display packages available for the 99/4A. Creating the commands with that kind of familiar structure is a credit to Harry Wilhelm's foresight, and it makes the package that such friendlier to the first-time or novice user.

PROGRAM OPERATION:

You don't have to be a wiserd to figure out how to use The Missing Link, or even how to set it up if you want to change some of the default parameters. That which isn't clearly explained, or already obvious on the screen displays, is covered well in the manual when it comes to the mechanics of getting the program up to speed. After typing in OLD "DSKI.THL" and RUN or just RUN "DSKI.THL" you are prompted to choose between Myarc or TI controller cards (because it makes a difference on how samy files you can have open at the same time) and then whether you want to use the 16 color mode or the two color mode. That's about it. If you want to change default fonts or other parameters the screen displays are again functional and the manual answered any questions that I came up with.

PERFORMANCE:

The Hissing Link proved to be a flawless performer, with no crashes or lockups or any other unwanted surprises. Speed is on par with what an Extended Basic program without IHL can produce. I saw no indication that beeps, honks or any CALL SOUNDs are supported by The Hissing Link.

One of the things that you are advised of right up front with THL is how much of the VDP RAM (Stack) is taken up in gaining access to that Bit-Happed Graphics mode through Extended Basic. It's a lot. Enough so, that you will have to watch your use of string variables in progras design. There just isn't a whole lot of reom left for large arrays and such. So sloppy or indescriminate use of string variables won't cut it.

EASE OF USE:

With the exception of a couple of programming things that I couldn't find in the manual, I found THL pretty psinless to use. One of the biggest reasons for that is the fact that I already program in Extended Basic, so I am not really learning a new language. I am simply taking advantage of the enhancements to

Extended Basic that The Hissing Link has given me. TML scores high in ease of use because Harry Wilhelm has opted to make wirtually all of the power of the program available through the familiar CALL LINKs and CALL LOADs that I grew up with.

DOCUMENTATION:

Despite that fact that The Missing Link comes with 31 pages of detailed instructions, there were still some questions that [couldn't find the enswers to. The biggest one was how to convert the Row and Column positioning that I am used to using in the XB Graphics sode, to the dot-row/dot-column designations required for TML screen display and input. Harry Wilhelm provided the answer to this by explaining that I needed only multiply the graphics row or column number times B and then subtract 7 to come up with the equivalent bit-map position. In other words, the formula is the same as that used in determing Sprite positions. This applies only to the default 8 X 8 font though. The other fonts require some experimentation on your part.

I also found experimentation necessary when designing and then using windows. I discovered that a window must be called before it can be used, and it is called by redrawing it. So I discovered that routines to draw and use windows are best placed as CALL SUBs at the end of your XB program or at least as subroutines that are accessed with a GOSUB and RETURN, because they are accessed often. Other experimentation revealed at least a workable way to do inverse video. I couldn't find instructions on that in the manual either, though the manual does make reference to the fact that it can be done.

Overall, the manual covers a lot of ground, but it skims overs some of the material too quickly. It ignores some areas all together and proved to be a frustration to me at first. From an appearance aspect, the manual is on par with some of the best produced in the Ti community. From a content point of view I rate the documentation as average for the most part and inadequate in a few areas. The manual is not TML's strong point.

CONCLUSION

The Missing Link is a VENY impressive programming environment, that cries out for some innovative applications along the line of the PaperSaver program that comes with the package. Though TML sports a self-professed limitation in the amount of stack space available for string use, the author shows us how that limitation can largely be overcome through the judicious use of DATA statements and recurring use of variables. With nothing more time familiar Extended Basic-like programming statements, anyone can create superb graphics or convert existing XB programs to the TML environment. I took the Mutual Fund Performance program that appeared in the December 1988 MICROpendium and converted it to the TML environment in less than an hour, and that was while I was still learning the ins and outs of TML.

While I can't honestly may that The Missing Link has the same

impact on the TI community as the introduction of the Editor/Assembler package did back in 1981, I think it comes close. The Missing Link has a much broader audience. I would guess that acst every 99/4h still in use has the Extended Basic module plugged in most of the time. If this statement fits in your case, then The Missing Link is for you. It is an excellent application that is sure to find a place in your software library.

REPORT CARD:

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BERLIN TI'ERS!

By Martin Zeddies

EDITORS NOTE: This article comes to us from our group member in West Germany, Martin Zeddies. Article has been edited for proper English translation.

The regional TI99/4A meeting in Berlin.

Not only in the the United states do users of the TI 99/4A computer system exist but many Ti'ers are also living in other countries around the globe and you can find some of these computer freaks in Germany too! One german computer group has a base in Berlin and meet once a year for a regonial meeting.

This article talks about the meeting of the 19th and 28th of April 1990 in Berlin, Germany.

The meeting started in the evening of a Saturday in a little pub near the "Kurfuerstendamm", the biggest shopping street in the town. Last year I met 15 people at the meeting but Mr. Franz Neudert, commented to me before that he thinks that this year more people would like to come to the meeting. So I was very curious as I entered the pub this time.

As I walked in this Saturday I sav more than 40 people in the room! Some are well known and others I never have seen before and some people were there from EAST-Germany because the political changesof November 9th 1989 made that possible.

This evening I stayed from 8pm to 12pm in the pub and talking with sany users about programming, new software and other TI related subjects. Many WEST users expressed interest in the handeling of the TI 99/4s in EAST-Germany. We heard stories about sauggling a TI-console to the East. I heard that many people in East-Germany only 'work' with just a TI99/4a console. Most all EAST-german users were looking for modules like TI-EXTENDED BASIC. One

East-user even built a copy of an Expansion Box at home after he got the plans and the IC's from the West and he showed the working box during the second day of the meeting.

The last few people left the meeting at 12pm to go to their hotels because the next point of the meeting was a city sightseeing tour.

This tour started on Sunday at 8am and went over 2 hours through some interested points of EAST and WEST-Berlin. All participants were drives -in small groups - in their private car's. One well known speaker was on board each of the cars. This year many WEST-Germans, which drove hundreds of miles to visit the regional Berlin meeting, made for a lot of fun at this very special kind of might seeing tour.

The sightseeing tour ended at 10sm and the TI-freaks began to set up there computer systems at the meeting point.

The 2nd day of the regional T199/4A meeting began with a short speech of the leader of the T1 99/4A User group in which he thanked all-the people that came to the meeting. Very cordial was the receptions of the EAST-German users. Hany WEST-TI freaks gave the EAST many tips where they can get software. Some of the others had presents for the new EAST friends including books and modules.

Then some TI-FREAKS gave an introduction of very new TI-99 software which was programmed in Germany. The greatest hits was a XB-Compiler which translated XB-Programme into E/A programme which can then be run with the Editor Assembler module. The author of the XB compiler said that he has had some problems with some special not so ofen used XB-functions though. But in my eyes his XB-Compiler looks very good and it took only 3 months for the programmer to write his compiler.

Another great software product called MEMORY MANAGER was programmed by Christopher Winter who wrote C-COPY some time before. My feeling is that with MEMORY MANGER you can handle nearly all functions on a TI 99/4A computer system. This program is a MUST for each full time TI 99/4A computer freak.

The last great software product was the newest version of the YAPP graphic program which is programed by Alexander Hulpks. The actual version number is now 0.47 and the program will operate using a CORCONP Disk controller. In the older versions of YAPP errors existed which made the use of the Corcomp controller a problem.

The biggest news on the TI 99/4% user meeting in Berlin was the introduction of the new Floppy disk controller of the SYSTEM 99 USER GROUP through Michael Becker. This controller can handle diskettes in DSDD format very quickly and many were sold at the meeting for only 350 DM (WEST-mark). However, on the GENEVE the controller may not work correctly. On our tests at the meeting the new SYS99-Disk controller had no problems with access after running iO minutes with the GENEVE. One function that you notice about the card is that depending on if the card is reading or writing the LED on the card will turn either GREEN or RED. The

overall construction of the hardware the SYS99-Disk controller made a very good impression. Plus many of the chips on the card can be changed without a soldering iron since sockets are used to plug them in:

Thats all that I like to write about the 2nd regional TI 99/4A User meeting in Berlin. I hope that you have anjoyed this article in the TIDbits newsletter. Your member Martin Zeddiez !

TI-BASE V. 3.0

IT WILL LEAVE YOU BREATHLESS

(C) 1990 by Bill Gankill

The introduction of TI-Base V3.0 caught me by surprise. Recently, I had been musing about how the limitations of V2.03 were beginning to stifle my creative afforts, when suddenly an offer to beta test a copy of V3.0 came my way. A conversation with Steve Lamberti from Texaments a couple months back had mort of warned me that there was a version 3.0 in the works, but I had no indication of how far along it was. Then, about a month ago, I received a call from FI-Base author Dennis Faherty asking if I would be interested in beta testing TI-Base V3.0. Needless to say I jumped at the opportunity. When the postman delivered V3.0 I cranked up my system and put the new release through the paces. What I found in this nevest version of TI-Base left me breathless; when V3.0 is released in May or June, it will leave you breathless too.

After having spent about 100 hours on the program it is my opinion that TI-Base V3.0 is indisputably the single most flexible data base management tool in the 99/4% or 9640 world. It is arguably also one of the best overall productivity tools ever written for our computer, and with the enhancements made to V3.0, now deserves to be considered on par with TI-Vriter and Multiplan as part of the "big three" in productivity software.

From an outward appearance, V3.0 looks no different than version 2.0 or any of the maintenance releases that followed V2.0 (V2.01, 2.02, 2.03 and 2.04). But inside, the program is incredibly enhanced, and so feature-packed that it appears Inscebet Inc. was able to add most if not all user-suggested improvements, and then they threw in some more of their own.

Right eway you will notice that the program disk is virtually full, where previous versions had somewhere around 300 sectors of programming code and support files. The OVRLAY/P file, which contains the program segments like CATALOG, COLOR, LIST and the like, is some 30 sectors larger itself. Nothing was given up in the new version to make reom for the enhancements though, so you still have the familiar Ti-Base tools at your disposal, along with over 20 MAJOR additions or enhancements to the package.

Despite the larger programs, loading times have not suffered. In testing V2.03 versus V3.0, I found that the hard disk load time actually dropped some 27 percent from V2.03 to V3.0, while floppy disk load times increased slightly. Figure 1 lists the comparisons, using the most common loaders that TI-Base supports.

Floppy Disk E/A5 loader: 55.18 62.00 (Floppy Disk E/A5 loader: 55.18 62.00 (Floppy Disk E/A5)			
Hard Disk E/A5 loader 10.25 7.46 Floppy Disk NB loader 68.53 76.00 Floppy Disk E/A5 loader 55.18 62.00 Floppy Disk E/A5 loader 68.50 62.00	1	LOADING TIMES COMPARISON	_
	!	Hard Disk E/A5 loader : 10.25 7.46 Floppy Disk E/A5 loader : 68.53 76.00 Floppy Disk E/A5 loader: 55.18 62.00	1 1 1

Figure 1.

WHAT'S NEW:

What's new? Plenty! If my thirteen year old were writing this article he would call V3.0 "sweet". It is truly a superb blend of the old and the new that is painless to upgrade t, since no compatibility is lost in comeand or data file structures, and it is more flexible, powerful, fault tolerant and feature packed than ever before. Writing command files still requires knowledge of the TIBCFPL (TI-Base Command File Programing Language), but there are SO many more tools to work with that it is a custom application programmer's dream. But it is a users dream too, since so much more can now be accomplished directly from the dot prompt. That means that the non-programmers who want a powerful data base can also take advantage of TI-Base more than ever

NEW OR ENHANCED FEATURES:

*	
NEW FEATURES/ENHANCEMENTS	•
; ; ("Contains" directive) ! APPEND TO/FRON ! AVERAGE	
COMMAND FILE EDITOR enhancement CR/LF ON or OFF	1 1 1 1
DISPLAY of printed output enhancement ERASE LINE (Fctn 3) FORMAT (in reports/displays) GO directive	!
INSERT LINE (Pctn 4) INSTALL INVERSE ON or OFF LEN	:
LITERAL print or display capability thacko feature added	

MODIFY STRUCTURE enhancement
READCHAR emulates CALL KEY
REPEAT feature for display, print, write
1 KEPORT
SCOPE added to DELETE and RECALL
SUBSTR
SUM FOR/SUM TO enhancement
+

Figure 2.

-iPPEND TO/FROM; allows you to merge two like files with assembly language speed instead of having to write a command file to do it. This is a tremendous feature! Earlier this month I wrote a MERGE program for Dino Fioramenti in Dallas, so that he could merge his commercial mailing lists. It took some 70 lines of CFPL code to get the job done, and because the program is interpreted, it does not exactly operate at lightning-quick speed. With V3.0 the job can be done in one-tenth the time, and with only two dot prompt commands;

USE (FILE) APPEND FROM (ANOTHER FILE)

-An AVERAGE command has been added that includes SCOPE capabilities so that one could determine the average of a specific set of numeric values. For example, in a data base that included fields named PAIDOUT and ACCT; AVERAGE PAIDOUT FOR (ACCT-100)

would give you the average dollar amount paidout (in the PAIDOUT field) for those expenditures made in budget account 100.

-GO; allows you to GO directly to a record, such as GO 5 to go to the 5th record in a file.

-Davice file names and pathing for different davices can now be up to 29 characters long, where previous versions supported a maximum of 19 characters. This is especially useful for owners of Hyard's Hard and Floppy Disk Controller card. Hard disk owners will benefit from it the most though, as directories can now be created that are sore descriptive of their contents. For example, I have a directory on my hard drive called NAMESINDEX. Before V3.0, I had to limit my TI-Base directories to shorter, more cryptic names in order to fit the 19 character limitation.

-In most circumstances, a variable can now be used in place of an absolute number, which means you can now program TI-Base to accept a value from the screen and then have that value interpreted and used in the program. For example, you can now go directly to any record in the file from a screen-entered variable by inclusion of only a few lines in a command file. The Movrec command file below shows how.

* sovrec CLEAR LOCAL HR N 4 0 USE YOURFILE TOP SORT OFF WRITE 12,02 "READ WHICH RECORD?"
READ 12,20 MR
HOVE MR
DISPLAY
RETURN

Prior to V3.0 TI-Base would error out when the MOVE MR line was read, because the command file interpreter would not be able to determine the value of the MR variable.

-The CLOSE directive has been modified so that if nothing has been changed in a file, nothing is written back to the data disk. This allows write protect tabs to be used on data disks where data is to be used for information only, such as in the MICROdex Libraries from Texaments, that contain reference information dasigned for READ/PRINT only access. It also speeds up overall program operation time by eliminating an unnecessary step.

-String access and manipulation has been enhanced tremendously? You can now search anywhere in a text string, for a partial word, a word or an entire phrase. In all previous versions of TI-Base, string data searches always had to begin at the left-most character in a field, and the item being searched for was pretty much limited to the number of characters contained in a pre-defined LOCAL when used in a CFPL environment. With V3.0 you now have the power to begin the search anywhere in a string, and the length of the item to be found is no longer dependant upon a pre-defined LOCAL. For example, assume that your data base has a field named SUBJECT. Assume also that in the SUBJECT field there is a record that reads;

"THIS IS ONLY A TEST RECORD"

You can sow search for the phrase "ONLY A TEST" with the following command;

DISPLAY :FOR "ONLY A TEST" \$SUBJECT

The dollar sign is the equivalent of the "contains" concept used in many IBN type data base managers. Thus the above command would be interpreted as reading;

"DISPLAY (all field data in every field) where "ONLY A TEST" is contained anywhere in the data found in any SUBJECT field entry."

This is truly a significant addition to TI-Base, and one that I have been waiting for since V1.0.

A LENgth directive has been added to V3.0 that will return the actual length of any string just like the LEN command in Extended Basic. Also, a new SUBSTR directive has been added to V3.0. It is basically the equivilant of Extended Basic's SEG\$ command, so you can now perform global replacements and the like anywhere in a string. For example, using the "THIS IS ONLY A TEST" string from above, you could change ONLY to JUST with the following command:

REPLACE SUBJECT WITH SUBSTR("JUST", 9.4)

SUBSTR syntax is SUBSTR(variable, start position, length)

In the above example, the command would be interpreted as reading;

"Look at the SUBJECT field in the data base, locate the text that starts 9 positions from the left and replace whatever is in positions 9-12 with "JUST".

-The SCOPE option has been added to the DELETE and RECALL directives. This means that a global delete of all records in a file could be performed with a simple;

DELETE RECORD ; FOR 1-1, or

you could delete all records where ZIPCOBE="12345" etc.

V3.0 now gives you a nice screen display of the number of records deleted or recalled at the end of the operation too.

-The CATALOG directive has been improved to provide automatic paging of output so that when a screen fills with program or file names the display halts and prompts the user to press a key to continue. In previous versions the user was required to halt the display with the space bar.

"The command file editor now displays the name of the command file being edited and even tells you the line number the cursor is positioned at. Believe it or not, this feature does not exist in some of the most expensive and sophisticated IBM-type data base managers.

-A very welcome READCHAR directive has been added that executes at the end of a keypress, much like Extended Basic's CALL KEY command. This means that menus can now be built that let the user saks a selection with a single keypress. READCHAR is not case mensitive either, so the alpha lock key can be up or down and READCHAR still operates correctly.

-The SUM directive has been enhanced. SUM can now direct its output to a variable. In V2.0 the caret symbol contained the value of a SUM and that had to be inserted into a LOCAL with the REPLACE directive in order to use it in your program. Now you can simply direct the results of a SWM command right from a statement or command file by using;

SUH AMOUNT TO TOTAL

where AMOUNT is a field in your data base and TOTAL is a predefined LOCAL. You can also sow display or print the value of SUM by DISPLAYing or PRINTing TOTAL, something that previous versions did not support.

SUM also supports the SCOPE feature too.

SUH A ; FOR (CHECKNUM>1034)

would total field "A" for only those records where the CHECKNUM field contained record data greater than 1034. Lastly, both

AVERAGE and SUM results can be suppressed with the SET TALK OFF statement so that the screen display is not affected by their operation. Previous versions automatically displayed the esults of a SUM.

Thanks to the changes in SUM you can now also determine the value or contents of a any LOCAL by typing in:

DISPLAY (or PRINT) (NAME)

where same is the name of the LOCAL.

-Here's one I REALLY like. You can now "print" data to the screen by setting the PRINTER-DISPLAY. This means that you can give the user the choice of screen or printer output in a single statement rather than having to use double statements (DISPLAY or PRINT) as in earlier versions.

-Carriage returns and line feeds can now be suppressed in data files printed to disk for inclusion in TI-Writer files or reports. Previous versions always double-spaced the output and forced the user to edit the file to remove the unwanted spaces or blank lines. No more. Simply type in SET CR/LF ON or OFF depending upon whether you want them or not.

-PRINT, DISPLAY and WRITE now have REPEAT capabilities similar to Extended Basic's RPT\$ command. For example, you could repeat a series of characters across the screen or across the page with statements like;

DISPLAY (20°)
PRINT (80-)
WRITE 12,1 (30-)

The DISPLAY example would scroll a line of 20 asteriaks up from the bottom of the screen, the PRINT example would print 80 dashes on a piece of paper and the VRITE example would display 30 equal signs beginning at row 12, column 1 on the screen.

-ERASE LINE and INSERT LINE capabilities are now available from the dot prompt. You can now press fctn 3 to erase a command or Fctn 4 to repent it, thus maving a lot of re-typing time. It would be nice to see these same capabilities available from within the APPEND and EDIT modes, but they are not, at least in the beta version.

-A brand new REPORT function has been added that allows tot 1 control and placement of printed output. This means that you can now design a report that can create forms, tables or labels and the format can be saved to disk. You can even do a SET FORMAT-(name) directive that will set a particular report format as the default one to use within your command file or from the dot prompt. Invoking the default is simply a matter of using in asterisk with the DISPLAY or PRINT command such as DISPLAY to display your data in the default format named or PRINT * to print the data in the default format.

This is an exciting enhancement that will challenge even the

Navarone Data Base Manager's Report Writer in output, but not in ease of use. The Navarone Report Writer uses a true Cut and Paste method to design a report, while TI-Base V3.0's Report Writer requires conceptualization on the part of the user. But the output possibilities are almost limitless in TI-Base, where the Navarone product limits the report design screen to 80 columns, and it performs only SUMming of data. The TI-Base Report Writer will support virtually any function within a report that can be designed in a command file, including calculations and accessing of multiple data files for information to be included in one report. How's that for POWER?

-I've saved what I consider the best for the last. A major enhancement of the MODIFY STRUCTURE command has been provided in V3.0 that allows existing data to be recovered after you change a file's structure. All previous versions of TI-Base caused existing data to be lost forever when you went in to change the structure of an existing data base. No more. Once a file's structure has been modified, an operator selection mean allows options to:

- * Use Old Date
- * Restore Into New Structure
- * Destroy Data
- * Abort

If you only change field names in the MODIFY STRUCTURE, no manipulation or restructuring of existing data is required. It is only when actual field lengths and types are altered in data that a restructure is offered or required.

-Dennis Faherty has also given us access the resident inverse video character set that TI-Base uses, so that we can now program our own inverse video displays. To top that off, it can be done in two different methods. The first is via the command:

SET INVERSE ON/OFF

which is a toggle switch to turn inverse on or off. The second method allows individual characters to be set to inverse display by adding 128 to the ASCII value of the character and then punching that number in with the Control key down. For example, you could display an inverse video UPPER case A by holding down control and typing in the number 193 (65+128-193).

Another use for the Control key is instantaneous command retrieval at the dot prompt, for any of the fifty or so commands TI-Base supports. For example, if you wished to DELETE data in the current data base you could press Ctrl D and TI-Base would display the DELETE directive at the dot prompt, with the cursor automatically positioned at the second space to the right of the directive to accept the rest of your statement. If you wanted DISPLAY instead of DELETE, you would simply press Ctrl D again to toggle the options available in the "D" area until DISPLAY appeared. A nice, professional feature.

Finally, V3.0 has an INSTALL feature that allows command files to be loaded into memory so they are RUN from memory rather than

disk, which allows them to execute much faster. Up to 2500 bytes are available, which translates into about three or four sizeable command files stuffed in VDP RAM. How that kind of space was tweeked out of VDP RAM I'll never know. INSTALL options include;

- 4 ADB
- ' REMOVE
- 4 LOAD
- SAVE
- ' CATALOG

A spin-off of the new INSTALL feature is that command files which exist in the INSTALL area of semony can now be executed from the dot prompt without having to use the DO directive. Instead, you would just type in the name of the command file. For example, if you had a command file named MENU1 that you wished to execute, and it was loaded using INSTALL, you would staply type in MENU1 from the dot prompt instead of DO MENU1 as in previous versions of TI-Base.

Another by-product of INSTALL is a MACRO capability that allows you to create a function or series of functions that could be accessed by typing in one word. For example, you could create a MACRO that summed and then averaged the DEPOSIT field in your checking account data base, all with a simple command at the dot prompt like DEP, if that is what you named your secro. A macro can be as complex as a command file and as many macros can be defined as the 2500 byte area of INSTALL memory will hold.

CONCLUSION

I don't know if there are any further tricks or other features for TI-Base coming out of the minds of those wizards at Inscebot Inc. in Port Orange, Florids, but the ones that we have been given in TI-Base V3.0 ought to keep us busy for awhile. In the 10 plus years since the 99/4 line of computer has been in existence, there has never been a truly flexible and powerful data base manager to complisant our spreadsheet and word processing productivity tools. Hore then EVER before, TI-Base fills that void and it does so in a manner that would do credit to similar programs written for an IBM FC. The big difference is that TI-Base makes it all happen in a 48K environment, on a computer that was designed when people thought it impossible to ever write programs that would surpass DOS's 640K limit on an IBM.

If management of data is one of your needs, then you should seriously consider TI-Base V3.D. Speed-wise, it still can't compete against PR-Base or FirstBase in some areas, but in flexibility and overall power to the user, it simply has no competition to be compared against. If you already own TI-Base the upgrade to V3.O is a must. You will not want to be without the powerful features and enhancements that this upgrade offers. It is awasone!

For more information on T1-Base V3.0, contact;

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Inscebot, Inc. P.O. Box 291610 Patchogue, NY. 11772 516-345-2134

Port Orange, FL. 32029 904-767-3922

TECHNICAL INTERFACE

By Marshal Ellis

TECHNICAL INTERFACE: MID - SOUTH 99 USER GROUP

This pamphlet is a compilation of previously published articles of interest in the T.I. home computing world. I have been republishing these in order to keep our members abreest of things going on in the technical reals. Even though the very nature of this publication will eventually bring it to an end, some things are still happening:

A short while ago, I entered a contest. The sort of thing that I don't normally do. But this was a contest to submit a phrase or name (reverse acronym?) to go with with the initials "T" and "l". I had stumbled upon the last notice of Steve Mehr's T.I. name contest in the August issue of the L.A.TOPICS newsletter. His previous contest pitted all contestants against the initials "I", "B", and "H". This is fun stuff!

I had just come up with a name along this same line. In having just begun putting together the "Technical Interface" pamphlet, it seemed appropriate to submit this idea. Let's see what someone else thinks of this idea. So, off the latter went accompanied by one of my first cover sheets from the pamphlet.

The winner in the Name contest still needs to be announced, so here goes. And the winner is... Harshal H. Ellis

Marshal says that T.I. stands for "TECHNICAL INTERFACE"

Congratulations Harshal. Hany thanks go to Bill Harss for also entering the contest. Although Bill Harss won for most entries submitted, (see Bill, you DID win a contest!) I had to pick Harshal for the explanation of his entry. Harshal is a member of the Mid-South 99 User Group and he writes ...

"I am the keeper of the old newsletters. I hepe for the collection of publications to be informative to all members. Perhaps with a little ferethought, the re-publishing of articles, on a somewhat monthly basis, might be stimulating to most of the members ... I am including a copy of the cover sheet from my first pamphlet so that you can see (for yourself) what I mean ... This is the name I have chosen for the pamphlet which I put together ... This is the position of the TI-99/4A in respect to

bringing operators and programmers together. This orphaned computer is the Technical Interface!" Way to go Marshal!

As promised, all entries recieved are included following this article. Very nice work!

T.I. stands for . . .

*** TECHNICAL INTERFACE ***

Talking | anorancus Taken In Tarnished Image Trade In Torturous Involver Truely Isteresting The Imp The Itch Too Idyllic Torturing Instrument Totally ignorant Terrific Idea Terrible Ichor Technical Insans Totally incompatible Termendous Ingentous Taciturn Ichthyernia Tectical Invader Talented Invalid Tainted Intelligence Texas Injurer That Incuration Thinking Inducer Thoroughly Independent Temporarily Indesposed Tempering Imbecile Tantalizing Incubator Tender Intimidator Tickling Interrupter Tasty Interference Tettered Ichthyosaur Tangled Interlocutor Therapudic Intruder Thought Intensifier Teesing [dict Tedlous idlocy Tempermental Insentient Tempestuous Intervendor Temptress It Terminal Impairment Terribly Industrious Theoretical Influence They're Impeccable Testing infestation Thing Imperious Tigerish Isopod

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Visitors and potential members may receive 3 free issues of TiDbits while they decide if they wish to join (no obligation). On the top of your label is a code. A Y means you are a member, N means 3 free list, UG means user group and S means a business. Beside the Y is a date, one year from that date your dues are due. A dollar sign (\$) on the label will indicate that your dues are due. The library is open only to members. Library list is \$1. Mail order disk library access is \$2 for the first disk and \$1 for each additional disk - max of 5 disks per month. Order by disk number only. At meetings, library access is FREE if you exchange your disk for ours or \$1 per disk for our disks. Send all mail order library requests to librarian's address! Send dues and correspondence to group address.

CALENDAR

MEETINGS: June 21, July 19, August 16 (3rd Thursday!) WORKSHOPS: June 23, July 28, August 25 (4th Saturday!)

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The Midnight Hour BBS 300/1200/2400/9600 Hayes 501-735-9980 Diel 735-9980 from Hemphis area for toll free call.

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Mid-South 99 Users Group P.O. Box 38522 Germantown, In. 38183-0522

LIBRARY ADDRESS

David Ferguson 3377 Creighton Ave. Memphis, TN 38118

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