

OCTOBER 1993 ISSUE #97

FOR THE RECORD (AUG) by Frank N. Zic

Mickey started the August meeting late, oops, what am I saying, she started the meeting early at 7110 PM. Sorry, force of habit to pick on Mickey. If you think the start of the meeting was strange, it was just a prelude of things to come. In brief the theme of the evening was "It's Robbie's Fault". I'll explain a little later. Then, too, let's not forget the ever present Coke vs Pepsi war. Boy, what a night, you had to be there to really enjoy it all. She started off by giving appreciation to myself for some of the minor things I do and a well deserved thanks to Joe and Robbie Ekl for their many years of father-son participation. You see, Robbie started with us when he was just eleven years old and now he is ready to go away to college. We all wish him great success in college and in all his later endeavors. He's a fine lad and it was nice to see his mother come in to be a proud part of the festivities. Proud joy to parents are always a The theme of, 58e. It's Robbies Fault" was hung on him because he was so young and

unassuming. He took it all

very calmly, even when we kidded him on the BBS. The theme was emphasized by a large poster made by Mickey for this special occasion. I know this report may be a little longer than usual, but (What the hay) it's my interpretation of the The always present events. conflict goes on with the battle of the soft drinks. In the front of the room there was a poster of the flying Pepsi man sub-titled Mickey's Mantle. This was brought in by Jack Whelan. A large banner of a flying Pepsi girl was made by Paul Brock. Countering all this was a large Teddy bear dressed in Coca Cola print attire. Art had this set up in the rear of the room as his defense. The closeness of this club is really enjoyable.

I'd better get on with the meeting notes. Favorable reports were given by Lynn, Bob and Paul on their respective areas. An inventory of club equipment was turned in by Faul, John, Norm and Ohi. Each picked a unique way of reporting on their areas. What nice gestures. When everyone pitches in the meetings become more enjoyable. Yes, we owe much of the interest generated to the ever striving leader-ship of our president Mickey. I gave a brief report on the BBS and Mickey gave her re-

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grets to all those she used to hassle while using the board. She is unable to join in now because of the long distance charges. Mickey is now receiving all of the other clubs Newsletters and is enjoying their contents, even the hardware articles. Heaven help us if she comes up with yet more ideas, she's tuff to keep up with now. She asks that we continue to bring in examples of, "Things we use our TI's to accomplish". Let's have as many members attend the October meeting as possible because Joe Ekl will bring in a special camera for a family portrait of our club members. The theme of the September meeting is "Swap or Sell". This can only be a success if we each bring in something to show or demo, sell or swap or raffle. Remember John Willforths tremendous offering? Everyone give it some thought and participate. Norm gave us highlights of the July MICROpendium to look into, seems he enjoys the entire publication by | all the articles he selects. Yes, this our only TI dedicated magazine. Let's keep supporting it for the really nice articles we are treated to. If you don't think they are valuable, just try writing a few articles on your own that can be published. It's a real bargain even at the new rate.

Norm mentioned; p3 Harrison's XB Compiler, p8 Regena's Telling Time, p12 Comparing PC to TI assembly, p16 rotating TI-Artist Instances, p19 buying floppy disk drives, p20 SCSI report and Chicago fair, p21 RichGKXB, p24 FNLWB 5.40 OCTOBER 1993

Charles Good, p25 Collecting cartridges, p27 System of the month and p29 Regulator jumpina. Next we had a nice demo of the latest computer system that Rob and his dad completed. It is a real show piece and will be written-up sometime soon. The trials and tribulation of doing the project is highlighted by contributions from John Willforth, the beautiful and useful end product and most importantly, the bonding of a Father and Son. A very nice success story. This evening we also welcomed one of our groups latest member, Jim Cerini. Paul gave a demo on the Page Pro Formatter for column two printing. The raffle was held with seven small – prizes offered. A nice social gathering capped the evening with all enjoying a piece of cake decorated with a nicely made picture of a TI computer and of course the wording, "It's Robbies Fault" Finally- May the good 4's be with you.

FOR THE RECORD (SEPT) by Frank N. Zic

Mickey started the September meeting at 7:15 PM. Her thanks went to all who participated kick-off party for in the "young Rob" as this is how we wi11 always remember him. Talked with his Mother the day after the meeting and she said However, he is doing fine. she said Rob and she both had some adjustments to make. Joe brought in a very nice group picture of the event. And why shouldn't it be nice, we were all on it, Ya. Sorry about the mix-up on not having the minutes in the August NL. We

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will have it added to this months' NL. Lynn and Bob gave their reports. Paul mentioned a defragmentor article in one of the NL we received, see him if interested. Mickey made up a list, using TI-Base, of 50 clubs that we exchange NL's with. Since Paul and Evelyn will be moving soon, Paul will retain the current 6 months of NL's and bring them to the meetings as usual and John Whelan will store all the old ones. Jim Peters will bring in the back-up TI system to the meetings each week. Dick Ohi has the Video' library circulating each month and Norm does the same with the module library. I gave a report on the BBS and downloaded a Halloween picture for our disk library. See Bob for this one. An interesting nationwide TI game contest is being offered by the V.A.S.T. newsletter group. The idea is to try and beat the high scores their club has posted. Hum, might have to look into this challange. Come on folks give it a try. We'll post your conquering score in our newsletter. Who knows, maybe a small gift will be forthcoming. As though national recognition wouldn't be enough. Norm suggests reading the MICROpendium from cover to cover with highlights on: p11 (Assembly), p14 (TLM), p16 (Printers), p19 (Biorhýthms), p22 (HFDC), p23(Time Calc), p25 (Myarc RS232), p26 (Program Recorders); p27 (Page Form), p28 (Both Sides) and p29 (TI and PC).

Now down to some really serious business, nomination of officers for next year. Don't be bashful, jump in and get WEST PENN 99 ERS

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your feet wet. We can progress successfully only if interested members participate. Sometimes the shoulders of those carrying the load for a long time start to droop a bit. New faces and new ideas are always welcome and you will receive all the backup to get you started down the right Please be ready at the road. November meeting to place your name in the running. Who knows, you may even win. Our first Swap and Sale night didn't really do too well. I guess everyone still wants to keep their really good TI stuff. I may have a very nice offering at a future meeting. This special equipment is spoken for right now, but that could change. More on this Three nice prizes were later. offered in the monthly raffle. Lynn Gardener showed us a very nice Genealogy program that she has researched on her side of the family. Art's family side is next. It will be nice to see who has the most skeletons in their closet, persons such as pirates. famous personalities or even royalty, Na. Joe Eki also has been interested in this area. Well I quess that's it for this report. May the good 4's be with you.

EDITOR'S NOTE

Due to the BBS having problem about the time Frank uploaded the minutes to the board there was no notice of any mail for me when I looged on. I did not check with Frank figuring he WAS ON vacation or maybe not feeling 👘 I know now to up to par. contact him if no mail on the BBS within a week.

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No. 9601 * Trading Post * On: 09/16/93 9:28pm By: HARRY TRENTES 45 (BRIDGEVILLE PA) To: ALL Sb: DISK CONTROLLER FOR TI994

Hi, I am looking for a ti disk controller card for a p-box if you have one for sale leave me a note. Also, I have recently picked up a lot ti 99 hardware and software. Will post items i wish to sell in the near future. Thanks, Harry

Words of Wisdom from The Cactus Patch...

Any fool can start arguments; the honourable thing is to stay out of them.

BBS DATE ERROR

Today's date: 10/09/93 but you will be confused by the dates of these messages now on the board. No. 9612 * General Interest # On: 10/06/93 3:47pm looks OK but No. 9614 * General Interest # On: 10/10/93 1:21pm (Revd 10/14/93), No. 9615 * General Interest * On: 10/13/93 6 50pm (Revd 10/14 /93), 9616 # General Interest * On: 10/14/93 12:37pm, No. 9617 # General Interest # On: 10/14/93 12:57pm and No. 9618 *'General Interest # On: 10/14 /93 1:00pm are in the future. If you want tomorrow's news today log on to the BBS. We can blame the error on a gremlin or maybe someone else is burning the midnight oil too. At the meeting. I was told an article was put in twice last month. Anyone know how to shut off the midnight oil? Editor

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FOR SALE

Green monitor (APPLE) TI 99/4A Black & silver Speech synthesizer and all books. \$50.00 Joe Slager (412) 478-2940 General Delivery North Apollo PA 15675

APPLE II GS computer (2 disk drives) APPLE II C computer with lots of software Mary Ann DeGrange (412) 929-2842

Let your APPLE friends know or maybe your second machine is a fruit. EDITOR

NEWSLETTER/MEMBERSHIP RENEWAL

To renew your membership or newsletter subscription here is where to send it.

LYNN GARDNER 642 LOIS DRIVE PITTSBURGH PA 15236-2436

RENEW YOUR MEMBERSHIP DUES! \$15.00 PER YEAR FOR INDIVIDUAL/FAMILY \$10.00 PER YEAR FOR ONLY OUR NEWSLETTER

EDITOR RALPH J VASKO 1 VIRGINIA DR DONORA PA 15033-1607 (412) 379-8762 PUG BBS #32

Articles are accepted as hard copy, ASCII text files on the PUG BBS, MS-DOS Word Perfect V4.2, V5.0 or MS-DOS ASCII text files on disk. Deadline is the Sunday after the meeting. My TI systems are not set up. PAGE PRO articles

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like PAUL'S PAGE will have to be photo ready.

NEWSLETTER EXCHANGE

Exchange newsletters are to be sent to; WEST PENN 99'ERS C/O MICKEY CENDROWSKI RD 1 BOX 133 RUSSELLTON PA 15076 WEST PENN 99'ERS

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HOME OF THE PEPSI--COKE WARS!!

NEXT MEETING OCTOBER 19, 1993

CALL THE PUG BBS 300/1200/2400 (412) 885-3483 24 Hours a Day

PEPSI----COKE !!!

Public Notice:

Bodenmiller Computers has just released a new game called Who 6 Benind the Mexican UFO's. This new game requires The Missing Link (from Texasents). DS/SD disk system, X5, and 32k. The game is a text/graphics adventure, and you select the way the story goes by multiple choice. No more will you have to type in a simple sentence five times until the computer understands, just press a key.

The game has high quality, full color, full screen graphics, and the story is displayed in text windows. Because the game uses The Missing Link, it has Bit-mapped graphics, giving you stunning graphics on your TL. The game is on two DS/SD disks, and even allows you to save your game using the "Bookmark" to save your place. Order Who's Behind the Mexican UFDs now for only \$12.95.

Bodenailler Computers also has two other games out currently, Astro-Mania and War on the Sea. War on the Sea is an XB game requiring a disk sys, XB, 32k, joysticks, and an optional Speech Synthemizer. It is a shooting gallery type of game, where you must aim your crosshairsto hit enemy whips. On the submarine attack levels, you must carefully time your release of depth charges to hit the enemy subs. You get promoted in rank as you play, and you can even win medals for your scores.

Each minerion's location is shown on the World map screen, along with a brief description. If you like action, this may be the game for you. Order now for only \$7.95.

Astro-Mania is my first game, a space game where you must defeat the aliens invading you twin worlds to shut off the nuge force fields they have placed around your planets. If you can destroy all the ensay ships, and the two forcefield generators, you must fight with their Mother Ship. The Frizoids are waiting. Can you save your Norlas? This game requires 32k, disk system. XC, and a loystick. Order now for only \$7,95.

The Mexican UFUs, as well as Astro-Mania and War or the Sea, are being sanufactured and distributed by RamCharged Computers. Write RamCharged Computers now at:

> Rancharged Computers P.O. Box 81532 Cleveland, Ohio 44181

or call them after 6 om EST at: Local number: 243-1244 or. But of town: 1-868-669-1214

> Mexican UFO's.....\$12.95 - 47083 War on the Sea.....\$7.95 - 47082 Astro-Mania.....\$7.95 - 47081

If you would like to contact me, write:

Tigothy C. Bodensiller Bodensiller Computers 43 Nonroe Street Berea, Ohio 44017

Sincerely,

Tigothy Christopher Bodenmiller

WEST PENN 99'ERS CLUB INFORMATION

NEXT MEETING DATE:	OCTOBER 19 1993		
MEETING LOCATION:	PENNS WOODS CIVIC ASSOCIATION		
. · ·	JUST OFF ROUTE 30		
	N. HUNTINGDON, PA		
TIME OF MEETING:	7:00 P.M.		

LIST OF WEST PENN OFFICERS FOR 1993

PRESIDENT:	MICKEY	412-265-5201
VICE PRESIDENT:	NORM	614-264-6442
TREASURER :	LYNN	412-835-4304
RECORDING SEC:	FRANK	412-751-6065
CORRESPONDING SEC:	PAUL	412-478-2754
LIBRARIAN:	BOB	412-863-5672
NEWSLETTER EDITOR:	RALPH	412-379-8762

GENERAL ITINERARY OF THE CLUB'S MEETING

6:45 P.M.	DOORS OPEN
7:00 P.M.	GENERAL MEETING
7:45 P.M.	DEMOS AND NEW INFO
9:45 P.M.	ONE ON ONE HELP
9:45 P.M.	SOCIALIZING
11:00 P.M.	DOORS CLOSE

MEETING HIGHLIGHTS FOR THIS MONTH

LATEST T.I. NEWS AND SOFTWARE DISCOUNTS "NEW SOFTWARE" FROM MS EXPRESS SOFTWARE "RATTLESNAKE BEND" - DEMO BY MICKEY "ADVENTURE DATA BASE" - DEMO BY MICKEY NOTUNG'S "TI CASINO" - DEMO BY MICKEY "WHO'S BEHIND THE MEXICAN UFO'S" - DEMO

RENEW YOUR MEMBERSHIP DUES!

\$15.00 PER YEAR FOR INDIVIDUAL / FAMILY \$10.00 PER YEAR FOR ONLY OUR NEWSLETTER

TRAVER SEEKING TALENT by Steve Burns Bluegrass 99'ers

Barry Traver, author of a wide variety of TI programs and utilities and frequent TI columnist for *Micropendium*, is seeking talent for his diskazine. The Genial Traveler. Recently having been diagnosed as having Carpal Tunnel Syndrome, Traver is now limited in his ability to use the computer. He has also lost a number of his regular contributors to marge software companies, moves to other computers, etc.

The diskazine is published on a sort of quarterly basis, depending on the amount of material that Traver has on hand. In past years it has been the showcase for well-known TI authors. such as Barry Boone, Mike Dodd, and many others. It introduced such things as ARCHIVER, BXB, ALSAVE, ARCHIE, XXB, and many other programs and utilities.

Traver is especially looking for material that is consistent with Genial Traveler's post format, which deals primarily with assembly links to Extended BASIC and programs that use them in innovative ways, but he is open to any unique programs or useful routines and utilities. He has also expressed an interest in Extended BASIC programs that make use of Missing Link or his own XB extension, XXB. This is not to say that contributions should be limited to just these areas. Genial Traveler has always been known to publish a very wide variety of things. As a matter of fact, the only criterion is that the contributions should be interesting and unique.

What's in it for you? Fame and fortune of course. Well, actually just fame---and even then only within the TI community. But as I mentioned above, G.T. has been the springboard for many TI programmers, as well as an outlet for

routines, demos, and subprograms. In addition, your programming efforts will benefit from wider distribution, and any routines or subprograms you contribute will be given an opportunity to be used by others and may be the basis for more software that will benefit the rest of the TI world. You will also receive Genial Traveler FREE! This will give you the opportunity to build on things YOU see in G.T.

You can reach Barry at 835 Green Valley Drive, Philadelphia, PA 19128, or by phone at (215) 483-1379.*

Using The Missing Link By Tim Chris Bodenmiller Article #1

The Missing Link, by Texaments, is a set of assembly language routines designed to greatly enhance the Extended Basic environment. These enhancements include utilizing the bit-mapped mode, "windows" for text and graphics, better input, screen dumps, and even the ability to use IF-Artist pictures. As you can see, this adds up to duite a lot.

The Missing Link is not really difficult to use, but you do need to have some things explained to you, and you need to learn a different way to think in terms of graphics. These articles will hopefully explain this unique, and very rewarding programming environment.

First, to use the Missing Link, insert the Missing Link disk into a drive and enter Extended Basic. The Missing Link does not auto-load, so now you need to type ULD DSK1.TML and then type RUN. If you wanted too. you could save this program to disk and name it LOAD if you get tired of always having to load it yourself. Once the program begins running, you are presented with several options. First, you must tell it which oisk controller you have. Now enter 1 for the number of files. This is the equivalent of a CALL FILES(number) in XB. It tells the computer how 1. You usually want to enter many files can be open at one time. because it saves memory (more on this in a later article). Now усц can push one for 16-color mode, of push 2 for the 2-color mode. The two color mode also saves memory, and is therefore suited to more text intensive programs. In this case, let's push 1 for the 16 color mode. The screen will change momentarily, and finally you are presented with a green screen and a prompt similar to XB's, with the exception of a cursor shaped like Texas.

Now that you are in the Missing Link, let's learn a little about this new programming environment. All the XB commands still work, except any statement that refers to graphics (Except for Call Screen). That's right, Print, Call CHAR, VCHAR, HCHAR, SPRITE, GCHAR, ACCEPT AT, DISPLAY AT, ECT. NO LONGER WORK IN YOUR PROGRAMS. All they will do is make garbage on the screen. BUT DON'T WORRY, the Missing Link has a whole bunch of MUCH BETTER, NEW GRAPHICS COMMANDS. All the other commands, like PI, FOR TO, ABS, CHR\$, GOTO, ASC, SUB, GOSUB, WORK JUST LIKF ALWAYS. ONLY THE COMMANDS THAT USE THE SCREEN CHANGE! And I'm sure that you will find the new commands to be quite an improvment.

All of the Missing Link's new commands must be accessed using CALL LINK. For example, the first command we will learn is CALL LINK("CLEAR"). Yep, you guessed it, this command clears the screen. Not a big feat since you haven't learned how to put anything on the screen yet, but that is coming soon.

Let's learn one of the most fun commands. CALL LINK("LOADP","DSK#.filename"). This command loads a TI-Artist picture. Put your TML (The Missing Link) disk in Drive one. and lets give it a try.

Enter this program. 10 CALL LINK("LOADP","DSK1.LOGO") 20 GOTO 20

This little program will load in a TI-Artist picture and display it on the screen until you push Function 4. Now you can design your own Title screens, menu screens, ect. using a drawing program, and ering them right into your XB promams. Time to get out all those fonce and Instances you have somewhs a right:

Now lets look at one more TI-Artist picture, change line 10 to read: 10 CALL LINK("LOADP","DSK1.PSSCRN")

Now when you run the program you will see a sample screen from the Paper Saver program that is included with TML.

Now lets learn a new command. CALL LINK("COLOR", foreground, background). This command changes all the colors on the screen to a new foreground and background color. Lets change our program again. Type: NEW

Now lets enter the new program. Type: 10 CALL LINK("LOADP","DSKI.PSSCRN") 20 FOR L=1 TO 1000 :: NEXT L 30 CALL LINK("COLOR",15,5) 40 GOTO 40

Remember to press Foth 4 to stop it.

This program will demonstrate the COLOR command. Now lets clear the screen at the end. Type:

40 FOR L-1 TO 1000 :: NEXT L 50 CALL LINK("CLEAR") 60 GOTO 60

By now you are probably ready to call it quits, but before you beat your brains out pushing Fctn =, you should probably be told that it has been disabled. Don't panic, there is another way out, as uncommon as it is, try typing BYE. No more accidental program erasures.

Hopefully, from these humble beginnings, we will soon have you happily writing super, great, new programs. And before it's ail finished I'll show you all about manipulating text, using windows, coing graphics, and even loading in your own assembly routines. At least for new you can get a whole lot more on your XB screens. Next time we will learn about INPUT and PRINT (the new versions!).

Oh. and if you want to try Papersaver, start up the Missing Link the way it shows above, and then type. RUN "DSK1.PS"

HAPPY PROGRAMMING!!!



See Ron Morkus of:



RAMCHARGED COMPUTERS WE'S for The Missing Link and anything else you may need for your TI-98/4A.

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FROM THE SDAP-BOX by Steve Burns Bluegrass 99'ers

Although a large number of TI users may not know it, there is a great battle raging in the ranks of TI-dom. In TI history it will probably be known as the "Battle of the Nemory Cards". The two camps are Asgard and Western Horizon Technologies.

Asgard recently announced that they are now selling their Asgard Memory System. The ANS switches 4K banks of memory and uses no DSR (Device Service Routine). Switching is done under software control provided with their special assembler.

Nestern Horizon Technologies' 4A MENEI card is still not available, but it is said that it will use the same system as RAMBD, which has been on the market for more than a year now. This system uses 8K banks and is done mostly under DSR control.

Which system is better? Who knows? And, for that matter, who cares? What we (the end user)really want toknow is if anyone will support either of them with software and if the battle will continue to get in the way of progress in the TI world.

Fighting within the TI community basically stems from two problems. Software and bardware dealers have been accused of neglecting to pay royalties on products. Whether this is true or not, only the dealers know. Poor record keeping on the part of the dealers has contributed to this problem. The other cause is related to the small size of the TI market and the fact that it cannot really support competing products adequately. As in the case with 80-Col devices, one company or the other is bound to lose money on R&B, prototyping. etc. if the product "loses" the sales battle. In the TI world, the winner is not necessarily the best product but frequently the cheapest or the first to hit the earket. In the fight that is now brewing, the sides have been formed by a mixture of the two causes mentioned above. Some of the people involved have chosen to support a particular device because they are involved with its development while others have a grudge against the opposing company.

Aside from the obvous problem of having to decide which product he prefers, the end user is also affected in other ways. For example, the guest "speaker" on conferences held on electronic forums such as GENIE has recently had all of his time monopolized by questions as to which senory system he prefers. Attempts are usually made to convince him which is better and force him to say he will support one or he other. People with other types of questions for the quest are usually "pushed out" of the conversation, so the topic ALMAYS seems to gravitate back to the memory card issue. This is not only rude behavior but also costs people time and money. People interested in hearing what John Johnson or Alex Hulpke (two recent examples) have to say are forced to sit through arguments about the memory cards.

I DO have a preference of semory cards although I have not made specific plans to purchase one yet. No arguments from either side have particularly swayed me. I just locked at what each one could do and would be compatable with. I also looked at whether or not I could make use of them, not being an Assembly programmer. No, I am not going to choose sides here. I know what I would want out of a memory expansion, and so do you.

No abount of bickering is going to make a difference to any of the end users. The only thing we want is a device that is useful to us personally. The developers should realize this. If they haven't learned from past experience, then perhaps they will this time. The end users will decide what they want from their computer and then pick the card that makes it possible.

PROGRAMMING LANGUAGES By Earl Raguse

This copeared in the Brevard UG Newsletter, and was written by David Rosenthal and Daniel Salamar of the University of Waterloo, Waterloo. Ontario, Canada. Because there are so many programming languages available, learning about which one to use for a particular project, by reading the manuals, would be very time consumming, the authors have compared them to cars we all know.

ASSEMBLER: A Formula 1 race car. Very fast but difficult to drive, and expensive to maintain,

FORTRAN II: A model T Ford. Once it was king of the road.

FORTRAN IV: A model A Ford.

FORTRAN 77: A six cylinder Ford Fairlane with standard transmission and no seat belts.

COBOL: A delivery van, bulky and ugly, but it does work.

BASIC: A second hand Rambler with a rebuilt engine and patched upholstery. Your dad bought it for you to learn to drive. You will ditch the car as soon as you can afford a new one.

PL/I: A Cadilloc converible with automatic transmission, a two toned paint job, white wall tires, chrame exhaust pipes and furry dice hanging from the rear view mirror.

C: A black Firebird, the all-macho car. Comes with optional seat belts (lint) and an optional fuzz buster (escape to Assembler). ALGOL 60: An Austin mini. Boy what a small car.

PASCAL: A Volkswagon beatle. Its small but sturdy. Was once popular with intellectuals.

MODULLA II: A Volkwagon Rabbit with a trailer hitch. (get it?)

ALGOL 68: An Aston Martin. An impressive car, but not just anyone can drive it.

LISP: An electric car. Its simple but slow. Seat belts are not available.

PROLOG/LUCID: Prototype conceptual cars.

MAPLE/MAXSYMA: All-terain vehicles.

FORTH: A go-cart,

LOGO: A kiddle's replica of a Rolls Royce. Comes with a real engine, and a working horn.

APL: A double-decker bus. It takes rows and columns of passengers to the same place all the time, but it drives only in reverse, and is instrumented in Greek.

ADA: An Army-green Meredes-Bentz staff car. Power steering and power brakes are all standard. No other colors or options are available. If its good enough for generals, its good enough for you. Manufacturing delays caused by difficulty in reading the design specifications are starting to clear up.

SNOBOL: An eighteen wheeler. Handles large things efficiently, but hard to shift. No seat belts, lots of shocks.

Page

	LOGO SUMWARY	SK Back (Turtle or Sprite)	Example: TELL ALL EACH (SXY 50 SC 3)
	By John Bolds	FD Forward (Turtle or Sprite)	
	(and E Ragusa)	LT Left (Turtle or Sprite)	SHAPE and COLOR
		RT Right (Turtle or Sprite)	
	e fun, but you need the LC		SC Sat Color
	the 32k memory expansion		
	meand RECALL to call		Example: SC :RED
	red to disk. Here is a sma		
portion of	the evailable commands.	SY Set Y coordinte (-47 to 98)	SC (3 8) Set FG/8G of object
		SXY Get X and Y cordinates.	
PREDEFINED	TARIABLES	SV Set both X and Y velocity	CARRY Carry Shape +CARRY 5 (Box) LOOKLIKE (Same as CARRY)
	in [0 10 11)	SXY Set X velocity SXY 120	-
:ALL	is (0 TO 31) is 0	SYV Set Y velocity SYV 13 FREEZE Stops all Notion	BIG Wate Shape Big (32:32) SWALL Wate Shape Small (18:18)
CLEAR		-	NC Wate Character in Tite Hode
PLANE	is 1 \ Called by	THAW Starts Notion	
: TRUCK	is 2 ¦ Neke Shape is 3 ¦ NS	XOTURILE Exits Turtle mode	NS – Make Sprite († Skape) PT – Put Tile # x y
ROCKET		Franklass	CS Clear Screen
: BALL	S 4	Examples:	
: \$QX	is 5/	17 70 (3.6) 70 (C8 Color Sectground
COLORS		LT 30 (left 30 degrees) RT 120 (right 120 degrees)	Examples:
LALANS		TELL 1 HOME (see TELL)	CB 1 - Color Background black
SLACK	is 1	SH 90 (go East)	CB :0LIVE Color background Olive
:GREEN	is 2	SC SEY (set sky color)	NC 32 (any aumber 0 to 255)
:LINE	is 3	ae ari (art ari cului)	WS 6 {Any number 0-25}
:BLUE	13 3 is 4	DRAWING COMMANDS	PT 19 30 29 (Put Tile #19, x=30, y=29
SKY	is 5	Auxerse Communa	FE 19 30 28 (FAC LITE #13, X=30,)+23
:RED	15 5	DOT(x y) Plots point at x y	PROGRAM WANASEMENT
:CYAN	is 7	PD Pen Deum (Draw)	LUAARVE EVANOLETAI
RUST	ia 8	PE Pen Erzse (Undraw)	YOURNUNBER YN, Outputs current Sprit
ORANGE	is 9	PR Pen Reverse (Reverse Point)	THO Outputs current graphics object
:YELLOW	is 10	PU Pen Up (No Draw) .	WHERE Outputs turtla's x y and heading
: LENON	is 11		XCOR Outgets X coordinate
:OLIYE	is 12	NESSAGE SENDING	YCOR Outputs Y coordinate
PUAPLE	is 12		IVEL Outputs I velocity
: GRAY	is 14	TELL opens channel to specific object	YVEL Outputs Y velocity
:BRITE	is 15	TELL TURTLE Alerts Turtle	SIZE Outputs 16 if SMALL, 32 if BIG
		TELL 0 Alerta Sprite 0	SHAPE Outputs active Sprite or Shape
DIRECTIONS		TELL (1 3) Alerts Sprites 1 and 3	SPEED Outputs speed of current Sprite
		TELL ALL Alerts Sprites (0 to 31	COLOR Outputs the color of active Til
:NORTH		TELL :X Alerts Object :X	
FAST		TELL B& Alerts Background	FILE MANAGEMENT
SOUTH		TELL TILE 3 Alerts Tile #3	
:TEST			ERASE (Aase)
		EACH ({command ya}	SAVE Saves info to disk or cassette
NOTION & WISC COMMANDS		(ya = Your Number) (commands for Each	RECALL Recalls saved files one a time
		Sprite. Used with TELL ALL, tricky,	PO PRINTOUT Frints All procedures
HOME Basic	Position, Screen Center	watch it)	PA Prints All procedures and names
	Turtle		PH Prints All currently definerd name
	Turtle	a (the) a (the) a (the) a	PP Prints title line of All procedure

>

T2 TH Show Turtle Hide Turtle

.



PP Prints titls line of All procedure

SUPPLIERS OF T199/4A COMPATIBLE PRODUCTS February 1993 -- List compiled by Gary W. Cox

The following is a list of vendors of products for the TI99/45 and Geneve 9640 computers. The list is not complete as there are more suppliers than what is listed but this covers a good portion of them. Those listed with as asterisk (*) beside the name indicate that it has been a while since last contact with that company. Listings are in no. particular order and information listed is correct to be best of my knowledge.

TH Direct Product Marketing 1650 Broadway Redwood City, CA 94063 1-800-336-9966

Tencono

P O Box 33804 Granede Hills, CA 91344 (810) 365-6631

Joy Electronics P.O. Rox 542526 Dallas, TI 75354-2526 (214) 243-5371 (100) 442-3392 Texas (100) 527-7138 Outside Texas

Bud Bills Services 146 Dertmouth Drive Toledo, OE (3614 (419) 385-5146

L.L. Commer Enterprise 1521 Ferry Street Lafeyette, 1F 47901 (317) 742-8146

Rave 99 112 Rambling Rd. Vernon, CT 06066 (203) 071-7024

Assard Software 1473 Flegnhip Drive Voodbridge, FA 22192 (703) 491-1257 7-10pm EST (716) 778-9194 11am-7pm EST

Tisercub Software 154 Collingwood Ave. Columbus, OH 43213 (614) 235-3515

Texaments 53 Center Street Petchogue, NY 11772 (S16) 475-3410 (S16) 475-6413 24hr BBS

Harrison Software 5705 40th Plece Hysttsville, MD 20781 (301) 277-3467

Competition Computer Products 2219 S. Nuekego Ave. Nileukee. VIS 52215 (800) 662-9253 (bationel) (800) 242-9702 (vis) (411) 672-1600

Runter Electronics 4 N. 370 Pins Grove Bensenville, IL 60106 (312) 766-9503 Comprodine Software 1949 Evergroom Are Fullerton, CA 92535 (714) 990-4577

Arcade Action Software = 4122 X Glesway Vauwatosa, VI 53222

Crystal Software 635 Mackinew Calumet City, II 60409-4014 (700) 191-2315

Rancharged Computers 6467 E Vancy Dr. Brookpark, OR 44142 (800) 669-1214 (2161 243-1244

Electronic Sys Development = P.O. Bot 23805 ' Vashington DC 20006 (301) 322-6150

J.P. Soltware 2390 El Canino Real \$107 Palo Alio. CA \$4306 (415) 328-0085

Vestern Horizon Technologies Dom O'Neil 10225 Jean Ellem Dr. Gilroy, CA 95020 (408) 8(8-5947

Jin Lesher 722 Huntley Dollas, TI 75216 (214) 821-9276

The Pensard Group P.O. Box 62323 Colo Springs, CO 80962-2323 (719) 488-2572

caDD Electromics 81 Presscort Road Reymond, MS 03077

(103) 895-0119

Albors Compter/Suppliers

6298 Hamilton Rd. 36 Main Street Village Columbum, Gé 31909 (404) 327-4100

Breatzs Computer Services 719 E. Byrd St. Appleton, WI 54911 (414) 731-378 (order line) (414) 731-4228 (after 6 tm)

McCann Software 4411 North 13rd St. Onebs, NE 64134

Notung Software 7617 BcGroarty St. Tunyunga, CA 91042 (818) 951-2718

024 437 Jarvis St. Ste. 502 Tomoto, Ostario 1447 283 Catedo 446: 960-0925

IGIA Products 5618 Applabutter Eill Rd Coopersburg, FA 18036

D. Wright Stuff 2201 185 Rorth Pest Road Indianepolis. IN 46219 (317: 895-1765

Modie Verw Softwarw 2141 NV 64th Ave Suite 15 Suncime, FL 33313-3951 (305) 749-4690

NS Express Software P.O. Box 498 Richwood, ON 43944-0491 (511) 282-5617

S&T BBS Software/Tim Teach 3804 North 75th St. Milveukes, WI 53216

.

(414) 464-4946 (roice) (414) 464-1978 (885)

TI/GENEVE SUPPORTIVE PUBLICATIONS

Hicropudius Hagezine P.O. Row 1143 Round Rock. TX 71600-1343 (512) 255-1512 \$25 year (U.S.)

Gunial TRAVelER Diskerine 835 Grame Valley Drive Philadelphis, På 19128 (215) (83-1379 (cm disk)

9640 News (General owners) P.O. Box 752465 Nemphis, TN 30175-2465 (901) 360-0112 (HPS)

For repairs contect

Texas Istransts Inc Atta 974a Repair Center 2305 Borth University Ave. Lubbeck, TE 79408 (400) TI-CARES (806) 717-1882

(Repair of Corrosp products) 99 computer Repair c/o Devid Lynch 2101 ¥ Cresent Ave Uni* A Anabois, CA 92801 (714) 59-4814

Vesters Horizon Technologies Don O'Neil 10225 Jean Ellem Dr Gilroy, CA 95020 (408) 0(8-5947

(authorized Myarc repair) Cocure Electronics South 81 Vest 18878 Apollo Dr. P O Box 132 Huskego, VI 53150 (414) 679-4343 (414) 529-2173 PAUL 'S PAGE

WEST

PENN 99 mms

20D

I gave you an artical about disk drives and disks last month, and I don't know if I was of any help. I had a lot of problems in the past, and I am trying to find more about these monsters. Every time I take a disk from the P-Box it stops working.

22-07-04

1000

1988, In September John Wilforth wrote about disk drives in a serries of articals. This was before I had a disk system. The articals ran untill June 1989. These articals I still have in my personal library, I am not sure if the club still has them, if anyone is interested let me know at the meeting or get hold of Mickey, Ŧ still use these articals as an Afterwards reference. John starteds services of articals on printers. I think that all this information is still valuable today.

I have the opportunity to read The articels the Newsletters. that I come across I find very useful and I pass that information to you back through our You may ask why I <u>Newsletter</u>. re-type the artical. I say , because I need the practice. Mostly some of the articals are split and have blotches or have words that have to be magnifying glass to make them out. So if I make a typo or leave a word out it is totally my mistake!!

I came across a TWO-COLUMN formatter for PagePro99 in Extended Basic, writen **Bill** by Gaskill in the June issue of MIcropendum. I typed it in and found that it was just what I I seem to be rushed for needed. time, and I need all the timesavers I can get. Those of you that use PagePro99 and want two column Know what I meant about getting a

Document ready for two columns. With this formatter- one step does it all. Sometimes I can spend a get the few hours trying to TI-Writer and two columns to work I found this .PagePro right, formatter just what I needed. Guess what, you just type the program in. THANKS BILL ...

Other things that I found was the artical about YOU DON 'T HAVE TO HAVE IT ALL by Jim Peterson. He has some good hints for those that think that they want things that they don't really need. Ŧ didn't Re-Write the artical, because it was in almost everv Newsletter,

In the Dallas 99 Interface May 1993, there is an artical on repair your disk drive by Greg Hudson, I found the artical iust before I started to write this artical, Maybe Mickey can be a hardware person after all !!!

Also in the Delles 99 Inverface > April 1993 another artical from Bill Gaskill titled QUICK ACCESS. This is an easy way to keep track of all your hardware and software > With TI-Writer and Extended Basic. Another type in program, this is enother program worth typing in.

HUMOR

My wife and I were shopping when I noticed a Laser Printer on display. I relized that I would like to purchase it for my TI.

"When are you going to stop that expensive buying wife."and stuff", complained the like President stop thinking Clenton",

that 1. BIB "The day

PAUL'S PAGE

inaugurated", I replied.

I was writing an artical with TI-Writer, when I had finished I decided to Fax it to Ralph and I started to read the instructions, they were in or just like Assembly Language, my tie got stuck in the FAX machine and the next thing I knew I was in <u>Austrlia</u>. C F



WEST PENN 99'ERS

C/O MICKEY CENDROWSKI R.D. 1 BOX 133 RUSSELLTON, PA 15076

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Atie Robie Lawer !

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