

West Penn 99'ers

Supporting the TI-99/4A Home Computer

Established 1985

OCTOBER 1993 ISSUE #97

FOR THE RECORD (AUG) By Frank N. Zic

Mickey started the August immeting late, pops, what am I saying, she started the meeting early at 7:10 PM. Sorry, force of habit to pick on Mickey 2 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 Fepsi war. Boy, what 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 1 m 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 parents are always a joy to see. The theme of, 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 events. The always present conflict does on with the battle of the soft drinks. In the front of the room there a poster of the flying was 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 this was a11 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.

Td better get on with the meeting notes. Favorable reports were given by Lynn, Bob and Faul on their respective areas. An inventory of club equipment was turned in bγ 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; p5 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

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Charles Good, p25 Collecting cartridges, p27 System of the month and p29 Regulator jumping. Next we had a nice demo of the latest computer system that Rob and his dad complet-It is a real show piece ed. 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 two column 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 in the kick-off party for "young Rob" as this is how we will always remember him. Talked with his Mother the day after the meeting and she said he is doing fine. However, 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 as 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 (Biorhythms), 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

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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 road. Please be ready at the 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 I may have a very nice stuff. offering at a future meeting. This special equipment is spoken for right now, but that could change. More on this later. Three nice prizes were 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, Joe Ekl also has been in-Na. terested in this area. Well I guess that's it for this report. May the good 4's be with you.

EDITOR'S NOTE

Due to the BBS having a problem about the time Frank uploaded the minutes to the board there was no notice of any mail for me when I logged on. I did not check with Frank figuring he was on vacation or maybe not feeling up to par. I know now to 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 Anna States 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 (Rcvd 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

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> 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.Ø 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

OCTOBER 1993 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

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HOME OF THE PEPSI--COKE WARS!!

NEXT MEETING OCTOBER 19, 1993

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Public Notice:

Bogenmiller Lomputers has just released a new game called Who s bening the Mexican UFC's. This new gamerequires the Missing Link (from Texaments), DS/SD disk system. Xb. and J2k. The game is a text/graphics adventure, and you select the way the story does by sultiple choice, to sore will you have to type in a simple sentence five times until the computer understands, lust press a key.

Ine case has high quality, full color, full screen oraphics, and the story is displayed in text windows. Secause the came uses The Missing Link, it has Bit-mapped oraphics, giving you stunning graphics on your 11. The case 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 Nexican UFOs now for only \$12.95.

Bodenmiller 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 Synthesizer. It is a shooting callery type of case, where you sust ais your crosshairs to hit enery ships. On the subsarine attack levels, you aust 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 mission's location is shown on the World map ecreen, 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 by first case, a space case where you aust defeat the aliens invading you twin worlds to shut off the nude force fields they have placed around your planets. If you can destroy all the enemy ships, and the two forcefield generators, you must fight with their Nother Ship. The Frizoids are mailing. Can you save your

worlds? This game requires 32k, disk system. XE, and a lovstick. Groet now for only \$7.95.

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

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

or call them after 6 om EST at: Local number: 243-1244 or. Out of town: 1-800-669-1214

Mexican UFD's.....\$12.95 - \$7003 War on the Sea.....\$7.95 - \$7002 Astro-Mania.....\$7.95 - 17001

If you would like to contact me. write:

Tisothy C. Bodensiller Sodenmiller Computers 43 Honroe Street Berea. Ohio 44017

Sincerely.

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Timothy Christopher Bodenmiller

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Welcome to the Universe of Bodensiller Computers

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	Р. М.	DEMOS AND NEW INFO
9:45	P. M.	ONE ON ONE HELP
9:45	Р. М.	SOCIALIZING
11:00	Р. М.	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!

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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 large 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 past 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 TI-Artist pictures. As you can see, this adds up to quite 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 010 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 disk controller you have. Now enter 1 for the number of files. This is the equivalent of a CALL FILES(number) in XB. It tells them computer how many files can be open at one time. You usually want to enter 1, because it saves memory (more on this in a later article). Now you 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 LIKE 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 oring them right into your XB promame. Time to get out all those Fonts anc instances you have somewhere right.

Now lets look at one more Il-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", "DSK1.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") 50 GOTO 60

By now you are probably ready to call it quits, but before you beat your brains out pushing Fetn =, 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.

dopefully, 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, doing graphice, and even loading in your own assembly routines. At least for now 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! !!



FROM THE SOAP-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 AMS switches 4K banks of memory and uses no DSR (Device Service Routine). Switching is done under software control provided with their special assembler.

Western Horizon Technologies' 4A MEMEI card is still not available, but it is said that it whii use the same system as RAMBO, 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

eatter, who cares? What we (the end user)really want to know 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 hardware 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&D, 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 market. 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 quest "speaker" on conferences held on electronic foruss such as GENIE has recently had all of his time monopolized by questions as to which memory 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 ALWAYS seeas 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 memory cards although I have not made specific plans to purchase one yet. No arguments from either side have particularly swayed me. I just looked 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 amount 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 Roquse

This appeared 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. FORTH: A go-cart.

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 Cadillac converible with automatic transmission, a two toned paint job, white wall tires, chrome exhaust pipes and furry dice hanging from the rear view mirror.

C: A black Firebird, the all-macho car. SNOBOL: An eighteen wheeler. Handles 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.

LOGO: A kiddie'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.

Comes with optional seat belts (lint) large things efficiently, but hard to and an optional fuzz buster (escape to shift. No seat belts, lots of shocks.

LOGO SUNNARY By John Bolda (and E Raguse) LOGO can be fun, but you need the LOGO SH module and the 32k memory expansion. Use the command RECALL to call up SC programs saved to disk. Here is a small SX portion of the available commands. PREDEFINED VARIABLES is [0 TO 31] :ALL is 0 : CLEAR is 1 \ Called by PLANE : TRUCK is 2 ! Make Shape · is]] KS : ROCKET :BALL is (! is 5/ :80X COLORS :BLACK is I :GREEN is 2 :LINE is 3 :BLUE is 4 is S :SXY :RED 15 6 is 7 : CYAN RUST is â is 9 :ORANGE :YELLOW is 10 is 11 : LEVON is 12 :OLIVE is 13 PUAPLE : GRAY is 14 is 15 :MNITE DIRECTIONS : NOR TH :EAST :SOUTH :VEST NOTION & WISC COMMANDS HOME Basic Position, Screen Center Show Turtle ST Hide Turtle ИT

\$\$ Back (Turtle or Sprite) Forward (Turtle or Sprite) FD IT Left (Turtle or Sprite) AT Right (Turtle or Sprite) Set Heading SH 90 (0-259) SS 33 (-127 - 127) SS Set Speed Set color SC : PURPLE Set X coordinate (-120 to 119) SY Set Y coordinte (-47 to 96) Set I and Y cordinates. SIY S٧ Set both X and Y velocity SXV Set X velocity SXV 120 SYV Set Y velocity SYV 13 FREEZE Stops all Notion THAW Starts Motion **XOTURILE** Exits Turtle mode Examples: LT 30 (left 30 degrees) RT 120 (right 120 degrees) TELL 1 HOME (see TELL) SH 90 (go East) SC STY (set sky color) DRAWING COMMANDS DOT(x y) Plots point at x y 20 Pen Down (Drew) pe Pen Erase (Undraw) pr Pen Reverse (Reverse Point) Pen Up (No Draw) ŶŰ RESSAGE SENDING TELL opens channel to specific object TELL TURTLE Alarts Turtla Alerts Sprite 0 TELL O TELL (1 3) Alerts Sprites 1 and 3 Alerts Sprites (0 to 31 TELL ALL TELL :X Alerts Object :X Alerts Background TELL BG TELL TILE 3 Alerts Tile #3 EACH ([command yn] (yn = Your Number) (commands for Each Sprite. Used with TELL ALL, tricky, vatch it)

EXAMPLE: TELL ALL EACH (SIV 90 SC 3) SHAPE and COLOR SC Set Calor Example: SC :RED SC 1 SC (3 8) Set FG/8G of object CARRY Carry Shape CARRY 5 (Box) LOOKLIKE (Same as CARRY) BIG Hate Shape big (32132) SMALL Make Shape Small (18116) Wate Character in Tile Mode МĈ Make Sprite († Shape) 21 ₽ĩ Put lile # I Y Clear Screen CS Ĉŝ Color fact; rouad Examples: CB 1 Color Background black CB :OLIVE Color background Olive MC 32 (any pumber 0 to 255) HS 6 (Any number 0-25) PT 19 30 29 (Put Tile #19, x=30, y=29 PROGRAM MANAGEMENT YOURNUMBER YN, Outputs current Sprit Outputs current graphics object ано WHERE Outputs turtle's x y and headin XCOR Outputs X coordinate YCOR Outputs Y coordinate IVEL Outputs I velocity YVEL Outputs Y velocity SIZE OUTputs 16 if STALL, 32 If BIG SHAPE Outputs active Sprite or Shape SPEED Outputs speed of current Sprite COLOR Outputs the color of active Til FILE MANAGEMENT

ERASE (name) SAVE Saves info to disk or cassette RECALL Recalls saved files one a time PO PRINTOUT Prints All procedures PA Prints All procedures and names PM Prints All currently definerd name PP Prints title lime of All procedure

Dallas. TX 75354-2526 P.O. Por 542526 Granada Bills Redemond City, CA 94063 Marketing my knowledge. correct to be best of particular order and riegings are in no with an asterisk (*) [819] 365-5631 IN Direct Product information listed is that company. been a while since them. Those listed a good portion of 9966-956-008-1650 Broadway indicate that it has beside the name suppliers than what is as there are more CHOOK ON THE last contact with T199/4a and Geneva O Box 33804 isted but this covers 9640 computers. The products for the list of vendors of The following is a list is not complete February 1993 -- List compiled by Gory W. COMPATIBLE SUPPLIERS OF PRODUCTS V*/6611 Cox CA 91344 Barrison Software S705 40th Place Bysttsville, MD 20781 (301) 277-3457 1423 Flagship Drive Boodhridge, VA 22192 (703) 491-1267 7-10pm EST (716) 778-9104 11aa-7pm 112 Reading Rd. Vernam, CJ 06066 (203) 871-7824 Bud Mills Services 166 Dartacuth Drive Toledo, OB 43614 (419) 385-5946 4 N. 370 Pine Grove Bensenville, IL 60106 Nunter Electronics Patchogue, NY 11772 (516) 475-3480 (516) 475-6463 24hr (312) 766-9503 (8008) 156 Collingwood Awe Columbus: OH 43213 (614) 235-3545 (214) 243-5371 (800) 442-3892 (800) 527-7438 (414) 672-1600 11eeukee, VIS 53215 800) 662-9253 (national) 800) 242-7902 (#18) E JUNCTAL Computition Computer 53 Center Street Ingercub Software Aspard Software Rawn 99 Lafayette, TM 47901 (317) 742-8146 I.I. Conter Interprise Tera na 代理るいののと思 1521 Ferry Street 219 S. 442-3892 Texas 527--7438 Outsids ave oceveni E Dem O'Neil 10225 Jeen Ellem Gilroy. CA 95020 (408) 848-5947 91 Presscort Road Rayacad, NY 03077 call Electronics Cold Springs, CO 80962-P.O. Box 62323 Dallas TT 75214 (214) 821-9274 2390 EL Camino Resal 2107 Palo Alto, CA 94306 (415) 328-0885 (719) 488-2572 the Bunyard Group lin Lashar Electronic Sys 122 Runtley Vashington P.O. Box 23805 (800) 663-1214 44142 actinal agres destern Bartzon (301) 322-4150 (216) 243-1244 6467 E Vancy Dr Rancharged Computers ŝ Calumet City. II 60409-Crystal Software (708) 891-2315 Fullerton, TA 92635 Comprodime Software 1949 Evergreen Ave 535 Markinav 1122 W. Glenway hreader Action Software ausatosa, VI 53222 (714) 990-4577 P Software 20006 ទ . 3804 North 75th St. Milweukeen, WI 53216 2141 NV 64th Ave Suite Sunrise, FL 33313-3950 (305)/749-4690 SAT BBS Software Tim Richmond, OE (3944-0498 (614) 282-5627 P.O. Bozz 498 2201 185 Morth Post Po Indionspolis, IN 46219 (317) 895-1765 (416) 960-0925 Tunjurga, CÅ 91042 (818) 951-2718 COCC D Express Software D Wright Staff 5618 Applebutter Bill Rd Coopersburg, PA 18036 437 Jarvis St. Ste. 507 Icronto, Ostario 147 283 McCanna Softwares 鶢 LGIA Products Not ung Softmann Omaha, NE 68134 719 E. Byrd St. Appleton, WI 54911 (414) 731-3478 (order adia Tare Software SD00a (414) 731-4320 (after 6 3G MAin Street Vil Columbus, G& 31909 (404) 327-4900 Albees Computer Suppliers Braalzs Computer Services 6298 Banilton Md (\$03) 895-0119 ល្ Village No.2d 9-09 6/8 Muskeyo, 81 53150 (414) 679-4343 (414) 529-2173 حرت David Lynch 2101 ¥ Cresent Ave 1 <u>Arabein</u>, CA 92801 (714) 539-4834 Labert IX 19(08 (800) TI-CARES (805) 747-1882 Gilroy CA 95020 P.O. Box 752465 Mersphis. TW 38175-2465 (901) 368-0112 (BBS) pollo Dr South 81, Vest 18878 scure Liectronics (authorized Myarc repair) (408) 848-5947 0 Mar 1 Bestern Errizon 99 computer Repair product a \$13# 835 Grown Valley Drive Philedelphia, PA 19128 (215) (83-1379 (cm disk) 2305 Borth University for repairs contact 9640 Mars (Canara Ganara) lochnolog) es ferras Instruments Inc. (414) 464-4946 (vo.co) O Box 132 Repair of Corronp Genial WAVelly Diskarine bund Reck. IX 78680-1343 (512) 255-1512 licropendiun Legazian PUBLICATIONS TI GENEVE SUPPORTIVE Ň þ year (U.S.) Bar 1343 99/4a Ropair Center 0n1*







PAUL'S PAGE

WESI PENN 99

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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.

In September 1988, 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. I still use these articals as an reference. Afterwards John starteds servies of articals on printers. I think that all this information is still valuable today.

I have the opportunity to read the <u>Newsletters</u>. The articals that I come across I find verv useful and I pass that information back to you through our Newsletter. You may ask why I re-type the artical. 1 Sav 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 Ι make a typo or leave a word out it is totally my mistake!!

came across a TWO-COLUMN T formatter PagePro99 for in Extended Basic, writen by Bill Gaskill in the June issue of MIcropendum. I typed it in and found that it was just what I needed. I seem to be rushed for 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 few hours trying to get the TI-Writer and two columns to work right. I found this PagePro formatter just what I needed. Guess what, you just type the program in. <u>THANKS BILL</u>.

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. I didn't Re-Write the artical, because it was in almost every Newsletter.

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

Also in the Dallas 99 Inrerface > 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 another 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 buying that expensive stuff", complained the wife, "and stop thinking like President Clenton".

"The day that I am

PAUL'S PAGE

inaugurated", I replied.

I was writing an artical with TI-Writer, when I had finished I Ι decided to Fax it to Ralph.

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 Austrlia.

VQQQU NOLLOWSEN Made in บ.ร.ศ.

and a second s WEST PENN 99 . C/O MICKEY CENDROWSKI R.D. 1 BOX 133 RUSSELLTON, PA 15076

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