Volume 9- No. 8

September, 1990

# Next Meeting

# 7:00pm Monday, September 10, 1990 Nevada Power Meeting Room 6226 West Sahara, Las Vegas, Nevado



September already! Summer is almost over, and the kids are back in school. Perhaps, just perhaps 1-11 get back and do something on the computer. Just a hope. I heard that the Rugust meeting was lightly attended, but went well. At least when I'm writing this I expect to be at the September meeting 12 am scheduled to be out of town the latter part of the week of the meeting but included in this release. The program is called MAL, and is not on the Monday. So I won't have to hear about the meeting being written by Alexander Hulpke of Germany. 1 will be running from someone else.

I did hear that the people at the meeting were informed that the especially since it operates with a mouse. power company's meeting room has been designated a no-smoking area. This was according to one of the guards who came through 3. SNUG that received announcements of two upcoming all fairs. the area. Since smoking is allowed in the hallway adjoining the meeting room SNU6 will abide by the power company's rules. We don't want to lose the meeting room, especially since it is FREET So I want to ask the cooperation of all the smokers in SNUE to follow the rule and step out to the hallway for your RER. If it is necessary we will insert a few swoke breaks into the meeting.

I don't have much information to pass along this month, mainly due to my lack of time to cover much in depth. I skimmed a bunch of newsletters, the latest MICROpendium, and the latest Yulcan's Computer Monthly (formerly Yulcan's Computer Buyer's Buide.) Yulcan's is carrying Barry Traver's column covering Ti equipment and happenings. The one item that Barry mentioned was that Bigit was going to discontinue making their 80-column card. That was the first I have heard that Perhaps Digit didn't want to compete with Asgard's marketing of the Mechatronic 80-column device that is to be relesed in the near competion in the hardware area. Since some software seems to be see so I'll see you at the meeting. appearing for the machines that are equipped with the 9938

video device, it's unfortunate for the remaining users that the hardware sources are reducing in number. Of course this sort of follows the reduction in support that some of the larger dealers in TI equipment have demonstrated recently by reduction in number of catalogs and ads. We remaing users have to keep our profile up for those new and non-club members to notice.

Cindy will cover the plans for the next meeting in her columns but I will note in mine that I am going to demo a release of a drawing program which demonstrates some of the capabilities of the 9938 Video unit at the September meeting. This is not a final release as there are many capabilities that have not been it on a Geneve but the program will run on a 4A which has a 9938 type 80-column card. The program is interesting and funda-

First is the "Columbia Northwest 11-99/48, 1990 Computer Fair" to be held in Vancouver, Washington, October 26-28, 1990. Vancouver is just across the Columbia River from Portland Oregon The second is the "5th International II-Meeting" in ... Wiesbaden, Germany, September 29, 1990. Time is a little tight on the second one but I doubt that any of our members would be making a special trip there. Unly if your plans are to be in the area does it make sense to go that way. If you need information on either of these events give me a call or see me at the meeting.

l also have information on signing up on Belphi, which is the information service where a number of the batter recognized names in the II world spend some time. Typical rates are \$7.20 per hour with some special rates for special plans. This are information is also available by asking

Well, I'm out of time as it is late in the evening and George future. I guess the II market is getting too small to support would enjoy seeing this before the weekend passes any further -

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Ny corner is cluttered, I can't find a thing. The computer's always on, the phone constantly rings. There's chips and disks and wires around, the cats play with my toys so not a thing can be found! Magazines and papers and fliers galore, \*footprints on printouts that are spread on the floor. And with all of this mess you expect me to white, all the day long and into the night? The honks drive me crazy, what a hellatious sound, if I had any sense I'd burn this place down! So do me a favor and give me a break, . If this article stinks, PLEASE tell me its great...

And now the news: Chris Bobbitt of Asgard has announced that Alexander Hulpke of Germany has finished YAPP (Yet Another - Paint Program) and it will probably be available this month. YAPP combines features of Ti-Artist and Myart, and will work with the Geneve or 4R's with 80 column display devices. Asgard has purchased the rights to the Mechatronic 80 column card and : - will warket it after adding a 9959 video chip and composite wideo output. Their MIDI interface is also nearing completion as is a bare-bones terminal emulator which was designed with console-only users in mind. Chris also said that at least three new 90 column programs will be offered very soon.

Bud Mills and Ron Walters have their ears to the wind for indications that II community would like to see a 48 specific MEMBX card. The demand would have to be great enough to ensure tenthal they would recover RAD costs: Timing problems on the 2 MEG. zero wait state MEMEX continue to plague BMS. (and me too...) Bud described the timing in this way: "It's like trying to shoot a bullet through the windows of two cars traveling in opposite directions at sixty-five miles an hour." I haven't done much freeway shooting but it sounds tough!

DELFAI has announced new lower rates so now is the time to sign upas(Do mention my name so I can get some free board time!) Bud Miles has just signed up so it must be good. I will upload a file to the BBS that tells how to sign on as a new user. I have subscribed to the big three and DELPHI is by far the best even sif their rates WERE as high as CIS or GEnie.

· Alleger Ildbit time! Bid you ever say to yourself: "self, I wish those idiots would guit using slashes in filenames!"? MDOS despises the "/" character since it is a reserved symbol, and refuses to play ball with any file that has a slash in its name. On occasion, I like to read BYSO files from MUOS so I wrote a little batch file to display them in TYPE/N (page) format, I call the batch file "SHOW" and it goes like this:

ECHO DEF CLS

IF NOT "%1"=="" GOTO WORK

ECHO FORMAT IS: SHOW [drive] [filename]

ECHB

ECHO [drive] IS OPTIONAL IF [filename] IS ON DEFRULT DRIVE

ECHD

**GOTO END** 

: UDRK

IF "42"=="" GOTO CURRENT

ECHO SHOWING [ %1:%2 ]

**ECHB** 

TYPE 41: "42"/N

ECHO

**60TO END** 

CURRENT

ECHO SHOWENS [ %1 ]

WILT. SNUS

## LIBRARIAN'S COLUMN

🗆 🏻 by George Campbell

WELL- IN GUESS WE ALL FOUND OUT HOW MUCH WE MISS THE BBS WHEN IT ISN'T THERE. ABSENCE MAKES THE HEART GROW FUNDER ETC.

I HAVE BEEN WORKING THE LIBRARY OVER THIS MONTH, TRYING TO MAKE SOME MORE ROOM, FOR NEW

MATERIAL THAT KEEPS SHOWING UP. I HAVE A NEW DISK BOX (60) AND WILL USE IT FOR GRAPHICS , AND THE PROGRAMS THAT USE THEM. THAT MAKES THE MAIN LIBRARY TWO BOXES NOW INSTEAD OF ONE AND PROVIDES SOME ROOM FOR GROWING.

AND HOW FOR THE DEPARTMENT OF GOOD HOUSEKEEPING. 1 GUESS SEVERYDNE WITH HORE THAN SIX OR EIGHT DISKS HAS LOOKED HISH AND LOW FOR A FILE THEY KNOW IS IN THAT STACK SOMEWHERE, BUT CAN'T FIND IT. IN THE UTILITYS SECTION OF THE LIBRARY ARE SEVERAL TEPROGRAMS DESIGNED TO KEEP TRACK OF THOSE ELUSIVE FILES. THE TIFOLLOWING PROGRAMS WORK BEST FOR ME AT PRESENT.

OF PRIMARY IMPORTANCE IS A CATALOG OF EACH DISK, PRINTED OR HAND NRITTEN, AND PLACED IN EACH JACKET WITH THE BISK. YOU CANT KEEP TRACK WITHOUT THAT TABLE OF CONTENTS. THERE ARE SEVERAL PROGRAMS THAT DO THIS CHORE AND "FUCAT" IS THE ONE I USE THE HOST. 12 SECTORS AND FAST, IT WILL PRINT OUT ALL FILES ON THE DISK IN 1-2 OR THREE COLUMNS AND IDENTIFY MOST FILE TYPES, INDICATE FRACTURED FILES, AND # OF FILES ON THE DISK. A SCRATCH PAD OF PROPER SIZE (AVAILABLE FROM STATIONARY STORES) SAVES THE SCISSORS CHORE. OI CAN PRINT A CATALOG DE MOST DISKS IN LESS THAN A MINUTE.

REXTENDS TIPPORTANT IS A LISTING DE RECEVOUR DISKS IN A DIRECTORY. WITH ONE KEPT REASONABLY UP TO DATE, LOCATING FILES IS NUCH EASIER. THERE ARE SEVERAL GOOD TO EXCELLENT PROGRAMS IN THE LIBRARY THAT DO THIS, AND THE ONE I USE NOW IS "SUPERDISK". A 60 SECTOR FAIRWARE FILE, THE LIBRARY COPY HAS AN EXCELLENT TUTORIAL BY BOB BIEBER AND IS EASY TO USE. ONE DRAWBACK IS THAT IT MUST BE RUN FROM E/A 3. BUT IT IS FAST AND CAN BE PRINTED, OR SHOWN ON THE SCREEN.

WITH ADEQUATE DISK BOX SPACE, AND LABELING, THESE TWO PROGRAMS WILL MAKE HOUSEKEEPING MORE FUN AND LESS HASSLE. A THIRR PROGRAM, BARRY BOOMES ARCHIVER 3.03 IS MOST USEFUL IN CREATING YOUR BACKUP BOX . IT AMAZES HE HOW MUCH CAN BE SQUEEZED INTO A DISK, AND HOW EASY IT IS DONE. SEVERAL (OR A HUNDRED) FILES CAN BE ARCHIVED INTO ONE FILE. MOST FILES CAN BE SHRUNK 30 TO 70 %. THIS PROGRAM IS FAIRWARE ALSO AND THE BEST BARGAIN IN THE ENTIRE COMPUTER WORLD.

THERE IS A GOOD CHANCE THAT A PROGRAM TO DO WHAT YOU WANT HAS ALREADY BEEN WRITTEN. CHECK THE LIBRARY FIRST.

SEE YOU AT THE MEETING --

GED. CAMPBELL

- -

9640 CORNER ... continued

TYPE "%1"/M

ECHO

END

Lines three through nine can be omitted if you can remember the syntax. "SHOW A DOG" would type out the file DOG on drive A:. "SHOW BOG/BONE" would ignore the slash in the filename and type out the file if it were found on the current working directors. I should mention that I keep this batch file in my PATH so that it is available at all times. If anyone is interested in seeing more batch files in this column, leave a message on the BBS and I will start including them. If not, don't leave a message,

## MY-ART EILE FORMATS by J. Peter Hoddle

From BCS, TI-994R Newsletter, May 1990 --

Thanks to Rudy Johnson)

Recently I received a request from an individual about # 11tem added changed or adjusted 1 the MY-Art file format. Since this information is not # -----entirely-obvious/fand-is-not widely-available (but-was-- once published on Compuserve) I am providing the - \* FIXED ANNUAL EXPENDITURES

There are two different NY-Art file types: low-restand. \* hi-res. Both files save in nearly the same format - a - + form of run length encoding. The first two bytes of the - \* file are a flag indicating whether or not the file is \* on thirtes of charges and These are not always accurate an office Earlier versions of MY-Art sometimes saved them wincorrectly. In an ideal worlds the first word is \*\* YOFFF to indicate hi-res and the first word is -- to "">FF00% towindicate lo-res.

- In hi-res mode the user can only access 16 colors, but can choose them from a palette of 256 colors. The \*\* Annual Dues Collection (estimated) . . . . . . . . 300.00 + # himres mode header includes this color information the F ...lowres header does not. The himres mode color header Thinformation hists the colors weach entry is one word -- +---to Long com The default color header is as follows (taken as 1 DANK STATEMENT BALANCE (as of 31 DULY 1990)

. BATA >3200, >0003, >0203, >3003

DATA >3203;>7204;>0700;>7007

- - DATA->7707;>0007;>0707;>7007

2012 DATA: 37707

- Als himres woderathe horizontal scan-line data then - \* --- - follows. It is encoded with the color code in the high. and the number of pixels in that color is stored. The count should not beigreater than 20200 (512 decimal) since that is the maximum number of bits on one horizontal line in hi-res mode. There are 212 horizontal lines in total. A blank and 512 bytes). .....\*

--- In lo-res mode, the horizontal scan line data is stored: in a similar format. In lo-res mode however, there are only 256 pixels across the screen and there are 256 colors to choose from. Therefore, the color is stored more in the high byte and the pixel count is stored in the Tow byte. The pixel count is one based, and the number 256 is stored as a zero (since it can't run into the next byte). Therefore, a blank line in this mode would appear as 200002. Again there are 212 horizontal lines.

Both of these file formats are stored as BIS/FIX 128 data. If the data does not completely fill a sector, the remaining space in the sector is ignored. There is no end-of-data wark. The picture data is considered to have ended when 212 horizontal scan lines have been

. If you are writing a program to import or display .... NY\_Art...pictures,...you...should.consider...totalling.the number of dots in each horizontal scan line to make sure they total 256 or 512 (depending on the mode you assure in)." If you find a line that goes over this you should alert the user to the error. This helps to avoid problems.

As noted above, sometimes the header work indicating whether the file is in hi-res or lo-res mode is incorrect. There is a way to determine nearly for certain what type the file is. Ignore the header word and assume that the file is hi-res modes. This means

\* SHUG TREASURER'S REPORT - 31 AUG 1990 + Convolution of 31 Rug 1990 bank statement) Ralph F. Guise - Treasurer

SNUGLETter (estimated cost per 100)		ŧ	اهد خد ما است مو
Publication Costs (\$10/mo x 12)	120.00	·	
Postage (\$25/mo x 12)	300.00	ž	
P. O. Box Rental (\$28 annually)	28.00	ŧ	
- Bank Account Service Charge (\$8/mo x 12)	<i>.∍∾.</i> 96.00		
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# ANNUAL BEFICIT (Estimated)

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from the flacflix source code). 

### COLLECTIONS - Rug 1990

Pierr	Membership - Regular (2 x \$18)	0
	Membership - Senior (? x \$12)	
<b>₹</b> ,	Membership - SNUGLETter only (1 x \$10)	3
	Disk of the Month	
¥	Library programs	0.
	Miscellaneous T1 Equipment raffle	
<b>\$</b> (1)	Miscellaneous II Equipment sale	) .

(sub-total) + 36.00 +

## EXPENDITURES - Aug 1990

 $\frac{1}{2} (1+\frac{1}{2} ($ # Postage Mar-Aug 90 by check (uncashed). . . 122.00 +

### FUNDS MANAGEMENT (as of 31 Aug 1990)

Adjusted Checking Account Balance . . . . . . . . 419.10 Pettu-Cash (undeposited funds). . . . . . . . . 0.00 +

SO TOTAL FUNDS AVAILABLE >>> 136 419.10 ... #

### MY-ART FILE FORMATS ... continued

that the data immediately following the header wordshould be a line of horizontal data. Start parsing the data (but not displaying it) and see if it totals 512 pixels of data, or it runs over. If the data you are parsing is hi-res data, then it will total 512 pixels. If it is lo-res you will be totalling the color data, which most certainly will not exactly equal 512 pixels. Adding this sort of test requires a little extra effort, but it spares your users the pain of trying to display files in the wrong way.

10-72-7

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14.

### Bu Bob Shërburnë

Several months ago I decided that more memory for my 9640 was a must since large chunks of RAM were being eaten alive by calling TIMODE or assigning an internal RAMDISK. In order to load and run certain memory intensive programs. I needed to construct "dummy" AUTOEXEC files which didn't configure anything in order thinking. Since the Myarc 512K card didn't seem to be working out I opted for the 504K MEMEX from Ron Walters and Bud Mills. After installing the card most of my imagined troubles were over. I could leave TIMDE and RAMDISK 360 in my boot AUTHEXEC low-heat soldering iron and extra rosin core solder or welding and run almost anything! But one insidious thought kept magging at my brain; "This is a two megabyte card, shouldn't all of those empty sockets be filled with those RAM things?" This strong skinny fingers for bending and breaking off pins - extra nagging thought turned to nagging obsession around the same zerwire or wire stretcher if you have several cards to do - swall time Horizon announced the completion of the Genmod upgrade. Off went the check to Horizon. The Devil swiled and marked me ana air forsa nervous breakdown.

After beta-testing was completed, a box arrived in the mail. Within that box were smaller boxes containing ting "things" of hundreds of pages of instructions written in some dead language of the ancients. With joy in my heart I ran to the phone to call John Martin. "He can read this stuff! He can put those "things" on my card and make it work! He's, a genius!" After hearing dozens of recorded messages, my delight turned to panic when I remembered John had left the night before on a two-week. vacation!

With quaking hands I snatched up the monstrous fourteen-page instruction manual and began my journey into the mebulous land. of the chipheads. After reading the manual from front to back several hundred times I realized that FIVE of my P-box cards would need to be modified, including the 9640 card! When I awoke on the computer room floors distinctly remembering my blurring eyes, the tidal wave of nausea, and the blood rushing from my head. I concluded that this was not a job for the faint of heart. With iron-willed resolve and using reversed triage, I chose the first victim for my sorgical practice, the 256K Horizon bootram. After all, if the patient died, I could always boot from hard drive. After backing up the drive and enabling LUAD/SYS I removed the first organ from the P-box, promptly dropped it, fished it back out of the box and quit for the night. This was really going to be tough.

The next day after work I stopped by Radio Shack and picked up a Drand new 15/30 watt soldering iron since my others have .50 caliber tips. Sharp instruments are a must for this type of operation. I returned home, did some deep breathing exercises, announced "I'm starting now honey," and marched into the just shock her head. I plugged in the iron and gingerly touched the tip. Homm. Cold. After waiting an eternal nanosecond 1 touched it again. Hammonn, Still cold. This may take a while. Since it would probably take hours for the iron to heat, I decided to test my computer to see if it would boot from the hard drive and pressed the red rocker on my power strip. The hard drives whined, the modem blinked, the printer said hallo, the power light appeared on my monitor; but no Bird, just a dark screen! "OH! NO! NO!" I screamed! The Bird is always there! It has never NOT been there! A tiny chuckle from the living room was barely audible through the noise of the blood rushing through my brain. Panic stricken, I tore the top from the P-box and began shaking cards and cables like an angry wife trying to revive her drunken husband. I tried the switch again. NOTHING! "Oh Lord, why me? I haven't even started yet!" I whined in despair. Then, in the depths of total and complete depression,

I noticed the rocker switch on my P-box... It was in the MFF position! I pressed the switch and behold, my beloved Bird had returned to me! "Thank You God." I reverently uttered and blasted a sigh of relief from my formerly frozen lungs. The release of tension was so overwhelming I sagged forward onto the HOT soldering from! "Let the games begin..." I sighed.

: After finishing and testing the little Harizon L realized that monitowarm't am bad after all. My fingers are as nimble as a cow's hooves and my nervous condition had caused them to shake so are severely that it registered on the seismograph at Cal Tech, so to free up enough memory for execution. Bassackward to my way of am having the right tools for the job really helps. Here is a list of what you will need: Wire cutters or sharp teeth - wire strippers or sharp fingernails - magnifying glass or sharp eyes - to check connections - good lighting or starlight scope machine and rod for attaching wires - sharp knife or hatchet for 种质cutting traces = needle mose plyers and small screw driver or clamp or three hands's three hands or helper a telephone credit card or someone else's phone for calling Bud for help - Valium %ª For Ron Walters.

> After finishing and testing my second cardy an 000K Horizon er randisk. I found that I had done the same job in about half the time! took out Sanyo, I may go to work soldering for Magnavox! Here are a few tips which will save you several calls to Toledo. Dhiot

Except where the instructions tell you to cut off the BOTTOM half of the pins, break them off by bending them up and down when the instructions tell you to cut them off. This is easy to do! I've done it several times by accident when installing chips in their sockets.

Dhen running the two wires which attach to the back of the Horizon. I found it easy to drill a small hole in the blank spot just under U20 and run the wires through it. If you hold the card up to a light the spot stands out and can be marked. Do not mark the spot with hammer and chisal.

The diagram in the upper right corner of page 8 shows three wires on the 244 chip going to the edge connector. The written instructions tell you to attach the wires to different pins than the diagram shows. Bo it either way as it doesn't matter which goes where for the decode to work,

As you complete an instruction, cover it up with a brick or park you car on it before proceeding to the next instruction. This will keep you from cutting or bending the right pins on the wrong chip or vice versa.

On 800K Horizons the U20 socket has chips stacked and pins bent out. This causes overcrowding problems stacking and bending out pins on the 244 chip in U21. The easiest way to avoid this is to do the modification on the 244 chip in U22. Bon't worry. Bud says it's legal...

To avoid using your third hand when attaching wires to pins, put a little solder on the wire, put a dab on the pin, lay the wire on the pin and apply heat. Those suckers melt right together!

To keep solder from covering the entire edge connector pin when attaching the wires, turn the card upside down so solder runs towards the chips. Solder exidizes and will cause a bad connection. Try not to cover the chips with solder.

Continued next month...



Well, the record is still unbroken. I've never yet been able to take a vacation without the BBS crashing before I get back. The silly thing ran for a month straight before I left. I hadn't much more than gotten out the door before it started having problems, and by the time I got out of the state, it had died completely. and 

In the process of getting the board up and running REW in the TI section this months again, I had some more problems with the cables that connect the hard drive to the controller card. After getting that straightened out, I thought about how the drives had been acting ... It occured to me that the original 28 MFG drive had acted the same way when it died, so I decided to try it with the new cables, I was unable to access any data on it, but I did get a less different error message than i had remembered from before. Just for fun, I tried reformattting the drive. In the past, this had caused the computer to lock up, but this time IT WORKED!! The drive formatted and showed no bad sectors 1 backed up the main drive onto the It and cataloged it. Everything was there! I now have on the 20 MEG drive and one of the 10 MEG drives connected to the BBS: 441 suppose I could also connect the third drive (another 10 MEG) to the board, but I don't know what we would use it for.

It has been more than a year since I submitted a phone bill to SNUG for the BBS. I forget about it most of the times but about once a year, my wife brings it up. The NEW in the Geneve section this months bill for the second line runs approximately \$11.00 a wonth (I don't have a phone bill handy to get the exact figures but that's close). I thought that this years instead of submitting a bill and getting a check, that I would offer to trade the phone bill for the extra 10 ME6 hard drive. The way I figure it, the club will make ..... SHORT HOUS PROGRAM TO FIND THINGS FOR a little profit on the deal and I will get a new backup drive without the hassie of phone calls, letters, and procedu. ...... IMPROMPTU DELPHI CONFERENCE WITH PAUL waiting for delivery. This proposal will be brought up at the meeting for a vote. If anyone else is interested in buying this driver opportunity will be given to bid at the meeting.

Due to my variations I have not implemented any new features this month texcept the quick catalog that I mentioned in last months column). I have been working on expanding the message bases to at least 100 messages each. This has turned out to be a much more difficult project than I had anticipated. I could just create new message bases with as many possible messages as I wanted to, but they would be completely blank (all current messages would be lost) and they would start over at message 11. As a last resort, I will do this but in the meantime I have been learning a lot about the organization of the message bases and how they work. came very close to getting it to work right last week. , but there are still a couple of masty little bugs to work out before I put it on/lines. In the meantime, it is best to call at least once a week to be sure that you don't wise any messages. The current message bases have only 25 messages each; Each time a new message is left: the oldest message gets overwritten. This keeps

walta combactor in the control of the first file of the file of th

the massage base from growing too large for the storage davice. At the time I originally set up this particular message base, we were using floppy drives. We had had a failure of our disk controller and were forced to revert to SSSB to run the BBS. I had to make the message bases small enough to run from this format. Once we got our equipment back from repairs, we already had a full wessage base and I didn't want to start over (again) from scretch so I just left the 25 message limit in place: lately, our volume of messages has risen to the point that 25 messages simply isn't enough to do the job anymore. I expect to have both message bases expanded out to 100 or more within the next week.

And now, on to the new stuff:

!6E31.....E/A OPTS FAIRWARE ARCED GRAPHICS EDITOR FROM REJEAN FELTON ....

EDCON. 차 ..... DELPHI CONFERENCE WITH ED JOHNSON, AUTHOR OF 🖘 🧸 ... PAGE PRO, DV80

BUDCONTESS DELPHI CONFERENCE WITH BUD MILLS. DV80

WORLDMAP2.....THIS IS THE XB VERSION OF WORLD-MAP! 19254 FORMAT. SORRY.

THE OTHER VERSION WAS SAVED BY ADVANCED BASIC IN PROGRAMASS. FORNAT SO IT WOULD NOT LOAD INTO XB...

WORLD-MAP..... MAP OF THE WORLD. INPUT THO CITIES AND BISTANCE WILL BE DISPLAYED. ALSO INPUT LAT AND LONG AND ADD NEW CITY. RUNS FROM MAD WITH ADDITION OF CALL GRAPHICS()) IN LINE 95 ELSE XB.

MYND-V1/22..... HYNDRD VERSION 1.22 - SAW THAT IT WAS MISSING DEF OF THE BBS CO I PUT IT BACK.

YDU...

CHARLTON, RON WALTERS AND OTHERS. ARCED. DEARCS TO 90 SECTORS.

JN-SPELL.....INFORMATION ON A NEW SPELL CHECKER, DY80.

NEW in the Compter Graphics section this months

NACI......ASSORTED NAC PICTURES. ARCED. DEARCS TO 1440 SECTORS.

MACI-I......RE-UPLDAD BF MACI. DEARCS TO 1408 SECTORS.

!NAGEL1......MAC PICTURES BY PATRIC NAGEL. 10 FILES ARCHIVED. NACFLIX REQUIRED. .....

!NAGEL2.....NINE ARCIVED PATRIC NAGEL PICTURES, PART 2 OF The ABOVE. MACFLIX FORMAT, EL

INAGEL 2..... NINE ARCIVED PATRIC NAGEL PICTURES, PART 2 DF ABOVE. NACFLIX FORMAT.

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## Tales of a Power Supply

(May 8,1990 -- a Delphia download via 979 Newsletter offofhanks to John Martin )

as May Every noticed your PEB gets really hot? Wished for a sample supply I picked is a 200 wattosupply which I many hard drive mounted in the PEB but know your PEB power ... decided would have enough for my PEB with full \*\* \*\*\* supply can't handle it? Fired of your SENEYE and HFDC cards slowly turning brown around the power regulators?

The live been worried about it for quite some time. Tony destroying this PEB ) and removing the following from Lewis advised me's while ago that the PEB power supply wasn't really designed for all of these new cards and drives which are being mounted in them. After losing a power supply (and sending \$50.00 to 7 to get a new one) and decided that the way to go was to replaced the power supply totally with a new "switching" supply.

→ → → → TI: designed the power supply around the technology of and the time. The power supply is a filinear's supply as That the time. The power supply is actinear's supply and the market the wiring to the front power switch and to the second transformers with simple regulating circuits that is fuse (new model PEB's seem to have removed the fuse on the proposition of the pear of the pear

problems by switching the power on and off very quickly proposer supply. add add (this has caused some interesting problems in offices that contain a large amount of PC-based equipment). THE Switching supplies are very cheap due to their wide. applicability to PC's.

The Dresmistake (insterms that it has caused untold grief on the previous fant steunsoldered the 110/220VAC switch for board designers of the PEB) is that the Timlinear - on the power supply and soldered the wires together (topower supply is underpowered and generates too high a force 110VAC) and taped the wires to prevent a short. woltage for the cards on the PEB bus.

For This is what the TI-PEB manual says the voltages going to the PEB bus should be out of the power supply:

FREEN - +8V BLACK - GROUND

Per the II design, the cards that you plug into the PEB must drop these voltages to something they can tolerate

> THEFT FOR TOPS to THISY \*\*\*\*-16V or drops to :-12V and +8V drops to +5V

This isn't too bad, but the actual voltages I measured coming out of the TI supply were even higher than listed (I measure +20V instead of +16V, etc.). The drop in voltage means the cards must get rid of the

Also, the power going to the floppy drive(s) is inadequate for two full height drives, or even one 5 1/4" hard drive. I wanted to mount a 5 1/4" drive along side a 1/2 height floppy drive for a complete self-contained machine.

: A New Supply

, Browsing at the Trenton Computer Fair (in pouring rain) I found a Highlandbrand new power supply for \$50.00. Not a bargain, but I didn't want to trust this project to a used supply or one without a guarantee. The supply I picked up came mounted in a metal case ready to drop

into an IBM AT compatible. Because it was mounted in a metal case, it came with a few extra goodies, like a new power connector for the back of the REB and a / low-voltage (and quieter) fan.

-- complement of cards.

the left hand power section of the PEB:

- a. Power Transformer (remove four nuts)
- b. Terminal Strip (remove two nuts)
- was trafover Connector (unscrew two screws)
- 20 30 d. Power Supply fremove two screws and To die rower burning transport bus)
- remove four nuts)

the front power switch and soldered the 1200 VAC-power The switching supply avoids the huge transformer and heat me connections to the power plug which goes to the name

> Working on the new power supply, I unscrewed the low voltage fan and mounted it to the back of the PER Caftar cleaning everything in the PEBs amazing how dirty it gets after six gears) using the four nuts which held

Beciding how to mount the new power supply took much of my time. I finally decided to use the plastic vertical mounting unit from the old TI PEB power supplyseand drill a couple of holes and mount the new power supply board to it. The new power supply then mountd vertically in the same manner as the old power supply.

on the Lag Fortunately: the new power supply came with several disk drive connectors (four to be exact). I removed one of the disk drive cables (cut it off).

with their circuits to the connectors which are The intended to plug into an IBM PC Compatible motherboard. - - - - - I-also cut these off and removed all of the mires except 

> -124 +57

> > ground

excess energy somehous and that means HEAT.

+12Y went to BROWN -124 went to YELLOW +57 went to GREEN ground went to BLACK

(Warning: If you decide to try this yourself, try and make sure that the cables going to the drive connectors are long enough to run behind the cards in the PEB. Nine were a bit short but were still usable).

Next came the hard drive: [4] just mounted@a hard drive and a floppy drive side by side in the PEB and ran the . cables out of the box before putting the whole thing ... continued on page 7 ... back together.

Tales of a Power Supply ... continued Card Modifications 

ن يولوه (5 و ) الرواقة بينائية في ما في من الأعماد دورة . Here is the hasty part of the power supply changeout. Appril every scard that you plug into the PEB will resulte a. modification and the card with the modification cannot be plugged into a standard PEB without blowing out the: card (time for a nice big caution sticker on the card).

The modification is quite simple, and is because the cards no longer need to do their own power regulation. the power on the bus (+12Y, -12Y, and +5Y) is the right power that the cards need to run. The modification involves jumpering out all power regulators on the - hoarder-

One way to do this is to remove all power regulators and then jumper across the contacts. I choose a simpler way which lets me remove the modification in the future if I so desire (remember also, at this point-I wasn't quite sure this was all going to work!)

The pour regulators have three prongs connected to a square body, and are usually located near the bottom of the card (usually one or two right next to the LED which graphics functions capable of plotting circles, lines; sticks out the front):

terminals T I jumper across these two

The middle connection is ground, and should be left alone. I made up small jumpers for the outer two connections, and soldered all of them on the PC-side of the boardannia

Results was

I modified the GENEYE card, held my breath, and turned on the power. Relief followed as the normal GENEVE Swan Screen appeared. I then modified my HFDC card and a ploged in the hard drive. The system booted normally (so far so good). I then modified my TI disk Controller: (It was a bit hard to get the case spart) and plugged into the floppy drive. The floppy checked out fine. we The last card I modified was a MYRRC R\$232, everything → OK.

have several more cards to modify and try, including Ron Walters fabulous MEMEX 2-megabyte memory expansion card and a speech synthesizer card (somewhat useless in A the SENEVE until the next MDDS rellesse). (I'm going to check with Ron on the memory expansion card).

Summary:

Was it worth the trouble? Total project time was three evenings of about six hours total. My PEB runs cool and quiet (and my cards are no longer turning brown). 1 have the peace of mind of a totally integrated computer ... E within the PEB with a hard drivel

It was worth the trouble for we, and gave me a little respite from a long haul in programming

Of curse, I wouldn't try this yourself unless you have a pretty good knowledge of computer hardware and power 🚉 supplies. In any case, you are on your own. 🐭

The second secon

a.l.beard

# Secretary's



MINUTES for Honday August 13,1990....

Vice President Gordon Leonard opened the meeting at 7:00 PM. Ten (10) members were present.

The first order of business was a reminder to make your reservations for the FEST-WEST this coming February as accommodations are limited... Also discussed was the renewing of the Vengert Room for our meetings for another year. Unce again Mondays seemed to win out.

lance Wilson demonstrated "THE NISSING LINK" by Texaments. THE MISSING LINK consists of 30 assembly subroutines to use with Extended Basic Lance showed man a a #demon program that was mincluded builth the mpackages that showed what the Ti Was really capable of. The Subroutines: Consist bof whigh resolution bit-mapped: and boxes on the screen and much more. The sprite routine lets you use up to 32 moving sprites at the same time. With the windowing routines you can display windows of any size. The text funtions allows vertical or horizontal placement of text, also the text size can be changed and different sized text can be displayed simultaneously. The paper saver is a utility that displays a TI Writer text file a page at a time showing underlining and overstrike. THE MISSING LINK can also display and save II ARTIST pictures. This review does not do the programme justice. THE NISSING LINK is a must afor programmers. from beginners to the expert

Ralph Guise demond another MUST BET program "CHAINLINK" by Walte However CHAINLINK Wis as solitaine is a game where the cards are displayed face up-in the tableau and the cards are played suit to suit one at well is a time either up or down in sequences Accs are: played up as in normal solitaire and the cards from the co the tableau-are played up. Ralph played from severalpre-saved games and gave quite an extensive we wan demonstration: CHAINLINK is an assembly language program with animated moving cards. The graphics are excellent. This is Definitely an addictive gamer asked Relph.

At the September meeting Bob Bieber will demo FI: SURT. If anyone has some data-to be sorted bring in .... your disk. Rudy Johnson will demonstrate MRL, a drawing program for the Geneve. With summer being over hopefully we will see more members at the monthly meeting.



## THE TIGERCUB NUTS & BOLTS DISKS (Thanks to John Hartin)

of 100 or more subprograms in merge formationeady to them? merge into your own programs.

And what does that mean? Well, 71-99/48 Extended Basic allows the use of user-written subprograms. And what are subprograms? You know them well, CALL COLOR, CALL SOUND, CALL HCHAR — those are all subprograms which are built into the Basic language. You can write your own subprograms, to do banything that Extended Basic is capable of, and tack them onto the end of your program to be CALLed whenever you need

To put it another way, using a subprogram is almost GEOMETRIC SHAPES graphically illustrates many like running one program from another except that geometric shapes, labels the dimensions, displays you can access it much faster, you can pass along any corresponding formulas, and calculates volume. valuesyou want to, and you can return to where you perimeter, area, or circumference. It is a fine calleft the first program.

Grandles) with a disk drive you can save programs in MERGE. Some of the geometric shapes you may select include format and then HERGE them into a program in memory. square, rectangle, triangle, trapezoid, circle, providing that the line numbers are different, the sphere, cylinder, cone, rectangular prism, and program which you NERGE in wild be added to the rectangular pyramid. program in memory.

The variables used in a subprogram are entirely separate from those used on the main program. therefore libraries of utility subprograms can be developed in MERGE format, and MERGED into any program without conflict.

5-14 1854. coThe Nuts & Bolts Bisks are libraries of such subprograms. The first disk contains 100 subprograms, plus a tutorial on using them. Disk No.22 contains 108, and Disk No. 3 contains 140 more in 114 files. Nothing like them has ever been offered by anyone else year for the II-99/4A computer, was not approximate the approximate the approximate the second secon

These 348 subprograms have been consecutively lime-numbered with high line numbers so that they will not overwrite your program line numbers, and so that any number of them may be MERGEd into a program without overwriting each other.

4 Advanced programming techniques have been used to make these routines as compact as possible, averaging hardly more than 3 sectors each, so that a hundred or more could be crammed onto a disk and so that they would add very little to the length of a program. If you are learning to program, you might learn a great deal by studying these subprograms.

Fach disk is accompanied by several pages of printed documentation, explaining the use of each subprogram and listing a short demo routine which you can key in. run, and experiment with.

Many of these subprograms can be used by persons with almost no programming knowledge, to modify existing programs. For instance, a program written in Basic, which crashes with BAB YALUE when run in XBasic, will run with a simple CALL BXB, and CALL KILLOUIT will on The SNUG BBS number is 702-648-1247. We are on-line disable the infernal QUIT key. Many different screen character styes are available, as well as colorful wipes to replace CALL CLEAR.

However, it is the programmer who will find these disks truly invaluable. Even if you have the skill and ingenuity to develop these routines for yourself, ...

What are they? The Nuts & Bolts Bisks are collections wouldn't you rather just pay five cents apiece for

The Huts & Bolts Disks originally sold for \$19.95 each, later reduced to \$15 each. They are now available for just \$5 each, postpaid. However, if supplies of printed documentation are exhausted, it will be supplied on disk. Urder from Tigercub Software, 156 Collingwood Ave.: Columbus DH 43213.

GEDMETRIC SHAPES AND FORMULAS -- TI-PD 793.1 excerpts from the docs of a \$1.50 Tigercub Fairware ...goodie by Marty Kroll --

- ----- teaching aid, making learning enjoyable.

### RUNNING THE PROGRAM

After a colorful, motion-filled title screen, the main menu is displayed. Bne has 15 options from which to choose, selecting one of the geometric shape and -formula combinations.

- Et

3-15-22

\_\_\_\_\_\_

After entering your choice, the screen clears. The shape is then drawn, with sides, length dradius, \_\_etc.^labeled.

The 'formula(s)' is(are) then displayed; oafter "Which inputs for the dimensions are required. Affter these are entered, the caluculation is made, and the answer displayed.

One then has the choice of entering new dimensions for the same problem, or of picking another shape by greturning to the main menu.

E This excellent program has been around since 1985. I got it recently as one of five-six additions to a list of programs I knew I wanted. So far, Ilwouldn't trade any of the "add-ons" for my top choices on the preferred" list. 6eo 1.]

### 📖 BBS.Report . ... .continued.from page 5

The new oploads weren to quite as numerous this month, but what do you expect from a month where the board was down for better than two weeks. By the time you read this. I expect that there will be a number of new programs added beyond the ones listed here. The only way to know for sure and to keep up with the new stuff is to call the board regularly.

24 hours a day. 7 days a week except during user group meetings, RBS failures, and updates. We support 300, 1200, and 2400 band and provide full access to all callers from first sign on.

That's about it for this month. See ye at the . - John meeting!!

## HOTT NEWS (an idea whose time has come?) ...

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The following is an excerpt from a column by Irwin Hott and published in the "Spirit of 99" newsletter of the Columbus OH user's group (C.O.N.N.I.)

"In this article we'll discuss a proposal from the Lima Nulti-User conference...

During the officers meeting at the lima Multi-User conference, there was a considerable amount of discussion revolving around club newsletters. There was a discussion about a regional newsletter as well as the possibility of using a BBS as a "clearinghouse" for original material destined for club newsletters or possibly as a way to distribute newsletters.

He goes on to say that he was approached by Charles Good after the meeting to see if he would be interested in trying to set up such a clearinghouse. He agreed to look into it and detailed what he thought would be required as far as hardware/software to operate such a system.

Fig. After detailing the hardware requirements (he estimates approx \$500-600), he proposes possible fees to users to pay for the equipment and maintainence.

At the end of the article, he asks for ideas and correspondence (preferabley on disk since he is blind). I have some ideas that might be helpfuly so I have written to pass them along to him.

I apologise for the liberties I have taken in shortening up Irwin's article, but the newsletter deadline is, for all intents and purposes, already past and I didn't have time to re-type the whole thing. I will have a copy of it at the meeting for anyone who wants to read It. -----

have written to irwin Hott in response to the proposals and it is newsletters from other groups. I can forsee the that he mentioned in his article.

understand that this topic was discussed at the Lima.... Multi-User Group Conferences. Unfortunately, lawas not as and members, to the newsletter librarian. Once in the able to attend, nor have I seem a transcript or video library, they generally never see the light of day tape of the conference this year. I am writing this letter to you because you indicated that you would like to have some input.

I find the idea of having a central clearing house for newsletter exchange to be fascinating. There would certainly be many benefits including lower postage and copying fees, less redundancy, access to articles in word processor format so they can be formatted to fit in space available in your own newsletters and many : more: All in all. I'm surprised that someone hasn't Thank you, thought of it before.

I would like to suggest contacting the SYSOPs on the various networks (Compuserve: Senie, Belphi, etc) to see if a file transfer section could be set up for this also purpose. This would have many benefits over using and a decided namen dedicated RRS/201t would mean almost unlimited storage angles of some con-

then one usersat a time. This last item could become very important if a lot of groups and individuals start using the service.

In the interest of keeping on-line time to a minimum and to keep from downloading the same article several: times in different newsletters. I suggest limiting the newsletter uploads to original material. Not uploading your reprints of articles from other newsletters would ..... also help solve the problem that we currently see of not-crediting authors and newsletters correctly when--reprinting their articles in your newsletter. Only articles of general appeal should be included. How many people outside of your own group would be interested in your Treasurer's report for instance? For that matter how many people in your group would be interested in your treasurer's report (grin)? ... But I digress ...

If there are graphics that accompany an article, they should be in one of the formats that are easily converted to other formats. This is not so important as it used to be, but not everyone has TPA for MDDS or PAGE PRO For Instance. For the same reason, the text of an article should be in standard DV-80 format.

Archiving and compressing files would go a long way toward streamlining the process of uploading and downloading the newsletters. Here again, the emphasis is on keeping on-line time to a minimum.

I am very interested in this project and am willing to --support it in any way I can. I am on the newsletter committee for the SNUGLETter, the voice of the Southern Nevada User's Group (SNUG). I also run the SNUG RBS (702) 648-1247. As with most II groups, we have had a declining membership over the last few years. We have... done a number of things to cut costs including printing and a our own newsletters on a borrowed XERDX machine

If this idea works out, it could cut our operating to The following is an excerpt from a reply letter that it expenses even more with the added advantage of easier. setting up a directory on one of the BBS hard drives exclusively for exchange newsletters: This would give ---all members who are interested access to the latest I read with interest your recent article detailing newsletters immediately. Currently, the distribution plans to utilize a BBS for newsletter exchange. I of exchanges is painfully slow. It takes months for a newsletter to go from the wailbox through the officers again. On the bbs, they will at least be available in a more timely manners were --

> I am sure that by now all of these suggestions and ideas ---are old. You've probably heard them all again and ----again, but I am working in a vaccuum here and don't know 🤊 🦠 what has already been discussed. If you have any further information concerning this project, or if I can be of any help whatsoever, please contact me.

> > The second of th

1.40.425

John Nastin---Southern Hevada User's Group - PO box 26301 Las Vegas, NV 89126

SOUTHERN NEVADA USERS' GROUP The SNUGLETter is published monthly by the Southern Nevada Users' Group (SNUG). SNUG is a non-profit organization of individuals with an interest in all aspects of Texas Instruments' 99xx & 99xxx based computers including hardware and software by third party vendors. The GROUP meets 7:00 PM on the second Monday of the month - currently in the Newada Power Company: Wangert Community Meeting Room. 6776 West Sahara Avenue, Visitors and guests are welcome to attend the meetings. Information on membership is available. at the meeting. Articles may be copied from the SNUGLETter provided credit is given to both the author and the original source and that the article not be used for profit. (For-profit organizations wishing to use any articles from the SNUGLETter will need to make prior arrangements with the - Executive of the Southern Nevada Users' Group.)

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. Currently SNUG supports Texas Instrument's 99/4 and 99/4R computers, and Myarc's Ganeva 9648 computer.

## SNUGLETter

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