

September's Newsletter

The Winnipeg 99/4 User Group is a non-profit organization formed by computer hobbyists for users of the Texas Instruments 99/44 Home Computer and compatables. The content of this publication does not necessarily represent the view of the Winnipeg 99/4 User Group.

Next General Meeting - Date : October 2nd, 1986 (tentative)
Time : 7:00 P.M.
Place: Winnipeg Centennial Library
Ist Floor, Assembly RoomExective 1996:President:Jim BainardS34-5987Treasure::Bill Quinn.Newsletter Editor, and
and Book Librarian:Mile Swiridenko956-1793Contributing Editor:Faul DegnerS86-6889

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NEWSLETTEF EDITOF WINNIPEG 99/4 USERS GROUP P.O.B. 1715 WINNIPEG, MANITOBA CANADA, RSC 226

Gordon Richards 668-4804

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<u>BES:</u> 9900BDARD <u>EH#:</u> 889-1432 <u>HOURS:</u> Mon-Fri 4 p.m.- 8 a.m., Wknds 24hrs. <u>PARAMETERS:</u> 300-1200 baud, 8 bits, no parity, 1 stop bit.

EDITORIAL COMMENTS:

Hello, and welcome back to another edition of 'As the Disk-Drive Turns'. I have had a pretty good summer and

Hello, and velcome back to another edition of 'As the Disk-Drive Turns'. I have had a pretty good summer and hope that everyone else has too. Hello to Steve Zabarylo in Saskatoon. Hope you and your family have settled into your new home ok. Steve one of the Winnipeg group's hardware gurus left us at the end of July. Steve can be contacted through the ENVOY 100 service, userid SEZABARYLO. Rumors of the new Myarc computer code named 'Geneve' fill most of the TI newsletters and the various TI supporting publications. Most say that this marvelous machine will be bigger and faster than the good 'ol /4A, as well as being compatable with 90-95% of the existing TI99 software. Some of the features include a better video display generator (ie. better graphics), a faster clock cycle, and a larger RAM memory capacity. The 'Geneve' is said to be slated for sale this fall.

Included in our newsletter this month is an original program called 'Select-a-Team'. This program was written by Brian Lesko. Brian attended the summer programming sessions which I held last year, and it makes me happy to see that he put to use some of what I showed him. Other programs include a day of week and lines demo written in c93, as well as a few short subroutines written in TMS9300 assembly language. Also in this issue is a review by Rick Lumsder, of his BRAM-CARD, Rick, a regular contributor to our newsletter and an active member of our group, has reviewed the SKETCH-MATE for us in the past. Check Miscellania for news about the old Smorgas Board and the very important news concerning the the continuation of our club's meetings.

If you have a review, user hints, or helpful programming tips, get them to me for the next newsletter. The deadline that I have set for submissions is one week before the date of the group's meeting. Thanks go out to all who have submitted items for this issue of our newsletter.

MISCELLANIA:

Hiscellaneous news and reminders.

Cartridges can be rented from our module librarian, Peter Gould. A deposit of \$5 is asked, and \$2 is the rental fee.

fee. The Smorgas Board BBS is back up, it is now called the '9900BDARD'. The number is the same but the hours have changed. It is now open from 4 p.m to 8 a.w weekdays and 24hrs on weekends. Parameters are 300-1200 baud, 8 bits, no parity, and 1 stop-bit. The number is: 889-1432. Mark Gibson, sysop of the Grand Forks TI BBS, wishes to remind everyone that the bbs has a new phone number and hours: 1-701-772-1503, Friday, Saturday, and Sunday, noon to midnight. This meeting we will review a video tape of last spring's Ottawa TI-FEST. This TI-FEST was quite successful as many products were displayed and many TI User's Group this meeting. As regular supporters of our club know our membership has been declining, and we just haven't been getting enough active participation by those who do attend our public meetings. Questions to be raised at this discussion concern wether we should continue our Public meetings of wether we should meet on a less formal basis. The general concernsus has been that the club should continue no matter what but that because of the declining attendance at our regular meetings it might be better if we held our meetings in the informal setting of member's homes. Our club originally started as a few guys getting together around a computer in a basement. Soon the membership grew and the club had to find a larger meeting place. The Public Library was selected and the group began to hold formal meetings. The meetings included discussion by the executive members, a guestion and answer period, and was often followed by programming tutorials or hardware The Public Library was selected and the group began to hold formal meetings. The meetings included discussion by the executive members, a question and answer period, and was often followed by programming tutorials or hardware presentations. Gradually the club ran out of things to discuss, members began to loose interest, and soon the number of members attending meetings began to decline. We are currently at the point were membership participation in the current formal meetings is almost NON-EXISTANT... There are basically not enough things going on to make our public meetings worth while. This brings up the question of wether we should continue meeting formally or wether we should go back to the more productive basement meetings. This is what the Executive, YOUR executive are concerned about and want to discuss with YOU this meeting. The only way you can make our group worth-while is by contributing your ideas, projects, and interest. Be and active member and participate!

READER RESPONSE:

From HCM volume 5.5 1985 comes the following advertisement which may be of interest to the high tech music buffs in the TI crowd.

New World Class MIDI Software For 39/4A

World Class Software unveils TEX-SEQ, a MIDI (Musical Instrument Digital Interface) sequencer package for the TI-99/4A computer. TEX-SEG comes compleat with MIDI cable interface and software. The package allows note-by-note entry of musical compositions, which will play on any MIDI synthesizer. Software provides four play tracks and supports several different time signatures. TEX-SEC requires 32K memory expansion, Extended BASIC, and a disk drive. Retail price is \$49.95.

> World Class Software 1500 Valley River Dr., Suite 250 Eugene, DR 97401 (503) 485-8796

(ed. - It might be a good idea to call first to find out if this firm is still in business.)

What is a MIDI?

A MIDI is basically a "hardware standard for physically connecting musical devices, plus a software communications protocol that governs data transmission over the interfaces". Simply put, it is a hi-speed serial port connection that allows computers to control and be controlled by special models of synthesizers. For more information read the relevent articles from the Ian B5 and JAN/86 issues of COMPUTE! magazine. Thanks goes out to Brian Lesko for bringing the mentioned COMFUE: articles to my attention.

REVIEWS:

This column presents reviews of materials that may be of interest to the user. The views expressed are the opinions of the reviewers, exclusively.

SOFTWARE:

SUBMARINE COMMANDER: Reviewed by Mike Swiridenko

What I would call a simulation type game Submarine Commander stands out, in my opinion, from the rest of the shoot-them-up, chase-them-or-be-chased games. What makes this game different from the rest is its successful representation of a real life situation.

The scenario is the Mediteranean sea. You are the commander of a lone war submarine. Your mission: Destroy the enem, conveys travelling in your area. You have Fuel and Torpedoes, Sonar, Hydrophones, Compass, and a Satellite radar map of the enemy fleet. If you run out of fuel, oxygen, or torpedoes, or the hull of your sub is damaged beyond repair you have failed at your mission. If you sink all of the enemy convoys you achieve a rating according to time, fuel and torpedoes left, and the tonnage of enemy ships sunk.

to time, fuel and torpedoes left, and the tonnage of enemy ships suck. Action is superb, visual displays and effects are excellent and sound effects are used quite realistically. Three seperate visual displays are presented in the middle of the Submarine's instrument display. Each of the displays is selected by a key press; 9 displays the satellite radar map, 0 displays the sonar map, and = displays the periscope view.

the periscope view. C' the three displays the periscope view is the most exciting. It is from this display that you follow the enemy ships and fire upon them with your torpedoes. When the enemy is close enough to spot you the muzzle flashes of the enemy's guns can be seen as they fire upon you. If you are at torpedo depth you will see you torpedos as you fire them and hopefully sink your enemy, ship. A direct hit to your craft results in the sound of an explosion and the disruption of your display from the shock of the impact. Damage is assessed accordingly. In turn a direct hit by your torped: upon an enemy ship is seen as the initial impact followed by explosive flashes and the gradual disapearance of the enemy ship as it sinks.

The controls respond quickly when your ship is in good repair, less quickly as your damage accumulates. Damage is repaired over a period of time, and more quickly when traveling on the surface than beneath it. Options that are necessary in the midst of an enemy encounter are Fast-dive and Blow-ballast. The skillful use of the Map, Hydro-phone, Periscope, and Sonar enable you to track down and destroy the enemy fleet.

As the more difficult levels of play are chosen you recieve less torpedos and more enemy convoys to destroy. Each convoy consists of three ships: a Tanker, a Freighter, and a Destroyer. The destroyer is worth the least in points. With each level of difficulty the enemy becomes quicker and inflicts more damage per hit. The Destroyers in particular become more aggressive.

This is one of the most engrossing games that I have ever played. The action is demanding and the variety of operations, required to pilot the submarine, quickly demand all of your concentration. The only flaw I found was that the compass rotated counter-clockwise from the periscope view. If you are tired of the endless number of games where cute cartoon-like characters run through mazes evading monsters and would like to try a game with a more realistic theme then SUBMAFINE COMMAKE is the game I recommend highly. (P.S.- A very good account of a fictional submarine's Wall tour of duty is given in the book by Commander Edward L. Beach called 'RUN SILENT, RUN DEEP'.)

SUBMARINE COMMANDER is from Thorn EMI Video Limited, (C) 1983.



GRAN-CAPTE

A Review by Rick Lumsden

Just before our summer break I received my GRAM-CAPTE from Ryte Data in Haliburton Ontairo and brought it out to our final meeting for a demonstration. The demo was a little short and not too informative mainly because I hadn't had a chance to use the card much beforehand.

To start the GRAM-CAPTE is very similar in operation to the GRAM-Kracker from Miller's Graphics and Maximem from Guy Gournay in Guebec. Essentially all three peripherals allow you to unload modules into their respective memories and then to disk. The advantage is freedom from any more cartridge swapping and consequently less wear on the console. Once the cartridge is unloaded into the memory, the code can be accessed and modified to suit your own tastes and preferences. For example TE-II can be updated to 1200 baud and other older cartridges that cannot access the PIO port can be changed to do so.

The new GPL assemblers that are coming on the market use these devices for storage of GPL code and thus a whole new area of programming is opening for the TI user. Another feature is the ability to unload the BASIC operating system and make changes to the very personality of your computer or even load in an entirely different operating system such as FORTH or whatever you please. Just remember though that any major change like this requires more than just a little knowledge of assembly and the computer itself.

The GRAM-CARTE has the ability to save your basic program in module format so that you can access your own program from the menu screen with a single keypress. Also included is the memory editor which allows you to step through various memory addresses and make changes where you see fit. Before I purchased this unit I sent to all three manufacturers for pamphlets and information on each to try and decide

which unit best suited my needs(desires actually). All three as mentioned, have the ability to save modules to disk. If this is all that each was capable of none would be worth the price. The memory available is as follows. 1.6RAM-CARTE: 1281 to 512K

2.6RAM-Kracker 56k to 80K

3. Maximem 56F to BOE

Both the GRAM-Kracker and Maximum are battery backed which means they will retain the memory contents when the computer is shut down. This is one feature I dearly wish the GRAM-CARTE had. The GRAM-CARTE and GRAM-Kracker have the ability to unload the operating system but the GRAM-Kracker has the advantage of completely switching out the console GROMS whereas the

GRAM-CARIE does not. This may cause some problems but can be overcome with the proper knowledge. The GRAM-CARIE can be used as a RAM-disk but I am still having problems with this feature. The main reason is so far except for the first manual on basic operation, all the docs for the utility programs are in German'!! The translations are forthcoming but in the meantime I have no real report on the RAM-Disk portion. The major reason I chose the CARTE over the others were.

1.Kemory size 2.PEB Card, not for the GROM port

3.Utility software is onboard an EPROM so you do not have to load any support files. 4.All features are software selectable not hardware switches.

If any of you own a Widget you will understand why the Card is desirable over something hanging out of the cartridge nort.

All three of these units are available from Ryte Data in Haliburton Ontario. The prices are: GRAM-CARTE \$325____

6RAM-Kracker \$275

Maximem \$199

maximem \$155 While on the subject, Ryte Data puts out an excellent newsletter for all you hardware hackers out there. I have been subscribing to it from its inception and have yet to regret it. There are many fine articles on programming and reviews. Recently Bill Grones of Disk-Fixer fame has started an Assembler series that deals with some things that even the E/A manual wor't tell you. They also handle a great deal of the new hardware and software that is being produced for the 4/A. Such things as an BO Colume card with a new 80 col. Multiplan and TI-Writer. A mouse, GPL Assembler and much more. At any rate I would highly recommend it to all members of the group because it contains something for everyone and at \$14(American) it is a bargain.

The address is: Ryte Data Bo: 210 Mountain St. Haliburton, Ontario KOM 150

(705) 457-2774

I have talked to Bruce Ryan the owner on three occasions by phone and have found him very knowledgable about the hardware he handles. I believe the business has moved to a new premisis to better handle the TI public but the posties will forward the mail accordingly. Bruce needs support for his newsletter so lets all get behind him because there are fewer and fewer quality publications on the old orphan and we must support the few we still have.



/* the following is a lines demo program which come from the Trois-Pivieres TI user's group, Quebec. comments acted by M. Swiridenko, WFS TI user's group. *****. #include ds.2.randcw;: #include ds.2.bitrtr main() /** variatles used */ int ax1, ay1, ax2, ay2, cnt ; int x1, y1, x2, y2, coir ; { /* /* select bitmap mode. */ bitmap(16, 2); /* main loop repeats line pictures */ for (jj) { bitclr() ; /* clear the screen for a lines picture, */ /1 assign random end points and end point velocities */ ax1 = rnd(11) - 5; ax: = rnd(1) - 5; ay: = rrd(1) - 5; ax: = rnd(1) - 5; x1 = rnd(226 + 15; x1 = rnd(226 + 15; y1 = rnd(162) + 15; y2 = rnd(162) + 15; /* draw a picture of 150 lines that have moving end points. */
 for (cnt=0; cnt(15); cnt++)
 (coir = rnd(14+ + 3; move the end points of the next line %/ /\$ move one end points of one next line */
 xi = xi + axi ;
 yi = y1 + ayi ;
 xi = x2 + axi ;
 yi = y2 + ayi ;
 reverse direction of motion if line touches edge of screen \$;
 if // / = 7; 1: if (x1 (= 7) /# waste some time before displaying next lines #/ for (cnt=0; cnt(32000; cnt++); }/% end of main locp #/) /* end of the lines demo program */

******** REF KSCAN, GPLLNK, DSRLNK REF VMBW, VS5W, VMSR, VSBR, VWTP ****** * REY INPUT. ********************** KEYBRD COM >8374 STATUS EL >8370 PRESS DATA >2000 ***** * FILE ALLOCATION ******************** PABBUE EQU >1000 PAB EQU X0080 PAE EQU X0580 PNTE EQU X8356 PNAM DATA PAE+S PDATA DATA X0000,PABBUF,>5000,>0000,>000A TEXT 'R\$232/1.EC' CLOSE BYTE 201 READ BYTE 202 WRITE BYTE 203 ****** * END OF DECLS. ***************** # D/V80 FILE SUBROUTINES... LI RO,PAB LI R1,PDATA LI R2,220 BLWF QVMBW LI FOPEN OPEN THE RSD32. HOVE FD TO PAE. MOV OPNAM, OPNTR Blup odsrlvn DSF OPEN THE FILE DATA 6 F.T FREAD LI RO,PAB Move Great,ri Blwp Gvsbk READ A RECEPC. I/O OP=READ. MOV OPNAM, OPNTR BLWP ODSRLNK DATA 8 READ ONE RECORD. LI RO,FARTOF LI RI,MARTOG LI R2,5 BLWF @VMBR TRANSFER DATA FPOM VDP. FΤ \$ FWRITE LI RO,PAB+5 LI R1,>0500 BLWP @VSBW # BYTES TO WRITE. LI RO,PAB MOVB ENRITE,R1 BLWP EVSEW I/D=WRITE В **E**DSF. WRITE THE DATA FCLOSE LI RO, PAB MOVE CCOSE, RI BLWP CLOSE, RI CLOSE THE MODEK. I/0 = CLOSE.B EDSF CLOSE THE FILE. ********************** * END OF FILE ROUTINES.

5

/#DAY OF WEEK CALCULATION#/ /* From: 'Programming in C for the Microcomputer' by Robert J. Traister, (c) 1964, Prentice Hall Converted to 299 by Paul Degner, September 1986. Comments by M. Swiridenko. 1 #include_dsk2.stdia Baistr /* variables used for input values */ int m, d, yj char monthill, day121, year141; /1 variables used for day of week calculation #/ int aa, bb, cc, dd; int v1, v2, v3, v4; int xc, z, zz; /# main input loop #/ while/1 while the puts("INPUT THE MONTH(1-12)\n"); gets(month); m=acollachth ; 1f(m==0) break;] while:1. ſ puter"\n\nINFUT THE DAr(1-21:\n"): getsida;'; d=ato1(da;'; 1f(d'=0) break; 1 while(1) putsthin cINPUT THE YEARNet; getsiyear ; y=atol.year), ify.=0) break; } /* print four blash lines before printing the day \$/
 puts("\n\n\n\n"); /* calculate the day of the week (1-7) #/ aa=((6/10++1/2)); bb=y-aā; cc=m+(12%aa); dc=55/100; v1=dd/4; v2=dd; v3=((5*55)/4); v4=(13*(cz+1)/5); z=v4+v3-v2+,1+d-1; zz=z=(7#(z/7))+1; /# print the day of the Week #/ if'zz==1) puts("SUNDAY\n"); if(zz == 2)puts("MONDAY\n"); if(zz==3 puts("TUESDAY\n"); if(zz==4 puts("WEDNESDAY\n"); if(zz==5% puts("THURSDAY\r"); 1f(zz = = 6)puts("FRIDAY\n");
if(zz==7) puts("SATURDAY\n");

/* print 4 lines then wait for enter key before getting another date. \$7 puts("\n\n\n\n"); puts("PRESS (ENTER) TO INPUT NEW DATE \n"); while(1) xc=poll(0); if (kol=0) break;) puts(*\n\n\n\n"); 3 3 /# end of date to day main program. #/ /# atoi function called by the date to day program. n=atoi(s) - convert string to integer
\$/ atoi(s) char \$\$; (int sign,n; while(#s== ')++s; sigr=1; if(*s=='-') { sign=-1; ++s; } if(*s=='+') ++s; n=0; while((*s)='0')&(*s(='9')) n=10 * n + *(s++) - '0'; return(sign‡n); 3 * USEFULL SUBROUTINES... 1 CLEAF GETKEY HONK/BEEP EXIT \$ 1 CLEAR CLR RO CLEAR SCREEK. LI R1,>2000 BLWP 8V5Bk CL= INC RC CI RC,768 JLT CLP CLF **ELINE**CT CLF **ES**CRFDE RT LI RO,>0300 MOV RO,EMEYBRD BLWF ERSCAN GETNEY LI KEYB #3. KDLY MOVB @STATUS,R1 CDC @PRESS,R1 JEC KDLY KEY HELD? JEG KDLY PLHP @ISCAN "..? @STATUS,E1 CUC @PRESS,E1 JNE KLP KLP WAIT STATUS? CLR RI MCV QNEYBRD,R1 CLEAR R1 GET ASCII SWPE R1 ΕT 1 LI PC,10034 JMP TONE BEEF HON: TONE HK0 HONK CLR RD LIMI 2 HK1 LIMI 0 MOVE 0283CE, RO DONE? JNE HK1 RT Ť EXIT BL @RCLOSE CLOSE RS232. MOVE GZEROB, OSTATUS MOV GRTNADE, R11 LEAVE. RT. *********************** * END OF S/Rs. *******

A TI RETROSPECT by Paul Degner

Welcome back to another installment of my little monthly expose on the 4A' This summer seems to have been extremely bus, for our 4A even though we are working with seven year old technology believe it or not! There is alot to talk about so let get started'

Briefs:

A couple of members have built Horizon RAMdisks as of the last meeting. Sheldon Itscovich and myself have constructed RANdisha

I purchased the bare board version from Horizon Computing sometime ago. This summer I finally had some time to get it all together. The construction was a bit tricky as about a thousand connections had to be soldered but hopefully all that painful work paid off! I did have some initial trouble trying to boot the card but that was solved by Gil Tennant on Timeline saying it was related to a blown Germanium diode.

With the RAKGISk you can have a functioning DSSD drive at your disposal which is about three hundred percent faster than the standard TI disk drive. You also have access to various CALL statements from any BASIC such as CALL DK (a must) that will load DM 1000 in about three seconds and a whole bunch of other CALLs to play with.

I find the Horizon RAMdisk a excellent buy especially if you feel the need for speed'

Michel.A1401 posted the following on Timeline:

WHAT TO DO-WITH A RAM DISKO o DM1000 - almost instant access at any time to DM1000. No need to change disks or modules. That's something! o TK-WRITER - I use TK-WRITER daily, to write reports, letters, articles for TUG or newsletters, or messages. Nothing more frustrating than the long normal process needed to load the EDITOR, then load a large file, to correct it, to save it again, to quit, reload TK-WRITER, load the FORMATTER, then print...then we see other mistakes...you quit again, reload TF-writer, and so on for hours until you get mad'!! The RAM DISK doesn't prevent you from making mistakes but it sure makes access to EDITOR, FORMATTER AND FILES 10 times faster!!! o F/A - but in your RAM DISK useful programs such as FUNNEL WRITER 3.3 and. simply using the X-BASIC cartridge you can

access to EDITOR, FURDATION AND FILES TO times fastering o E/A - put in your RAM DISK useful programs such as FUNNEL WRITER 3.3 and, simply using the X-BASIC cartridge you can have access to E'A without having to change modules. Add FAST-TERM and that's it, you have or your RAM DISK a word processor, a communication program and E/A. Depending of your specific needs, add a DATABASE (IC-MAIL, MULTIPLAN). o FAST-TERM - using the FONT B (log file), you can durp to RAM DISK the contents of the buffer a lot quicker! o PREGRAMMING - mun, correct, save, run, correct, save... a lot faster! o SECOND DISK DRIVE - one RAM DISK easely replaces a second disk drive; so think about the RAM DISK before purchasing a second drive

second drive. o SECOND RAM DISK - for the maniads, use RAM DISK/1 for your programs and RAM DISK/2 (call it DSK6) for storage of large

files used daily. In my user's group, we bought PC BDAPIS, bargained for good prices on chips and were able to produce a "double sided" RAM DISM for around \$125 cdn. The construction is time consuming and I still have a bug with my first RAM DISM. BIB BOONE (BDE.A1482); 25 Ottawa Street; Arnprior, Ontario; Canada K78 1W7 sells them ready and tested for about \$240 (no to of chipsed in Maritota)

tax if shipped in Manitoba). I don't think anyone can beat this price; so avoid surprises and just give Bob a butz.

This summer I came across a few hardware mode from various newsletters I receive. One is to replace the 470 ohm resistor on pin E of keyboard I/D port with a 1N4005 diode with cathode end facing the 9901. This mod will in fact get rid of the old alpha lock problem with your joysticks. Another is to add a 14.318 mh crystal with a two pole switch to the existing 12 mh crystal near the 9902 chip in the computer. This will speed up some programs but will interfere with ones accessing the RS222 -D07\$.

Terry Atkinson posted the following on TImeline:

For those who produce newsletters and who are tired of the errors produced when the (0) and (%) (at sign and ampersand) symbols are encountered, here is a FIX for you. This FIX replaces the above, such that the "tick mark" FCTN C can be used for overstrike, and the backslash (FCTN 2) is used for underscore. Formatting should now be a "snap", and you won't get all those errors in printing out programs and things like BLWP @VMBW will be o.k. The following is courtesy of Rick Cosmano, vice prez of the SCCS.

Search the FORMA1 file for the sequence 23 21 40 26. Change the 40 26 to read 60 50. That's it. To change the formatter screen colors. Search for the combination 02 00 07 F5. Change the F5 to your favorite screen colors. Then the the for the combination 80 02 01 F5. Here, also change F5 to the character colors you want. Experiment by copying the F2P d file to a separate disk...and playing with that!

Jane Laflamme posted the following on TImeline: For those of you who have a Star SG-10, here is a bit of news for you. (I cannot find this in the manual...??) Did you know that this printer will convert your basic/XB program into hex for you? Here's how it works: Load or write a small XB program. While printer is off, press the FF (Form Feed) and LF (Line Feed) pads simultaneously, hold and turn on printer. It will buzz. List your XB pgm. in the usual manner by typing 'LIST "PIO"' and voila! You will have two cols. of hex and the last column will be the pgm. lines. Isn't that marvelous? But what the heck do we do with it now!!! If anyone have a 10 or 100 yourd you chest and see if it works with them and let me know?

If anyone has a 10 or 10%, would you check and see if it works with them and let me know? By the way, it will print hex on a FastTerm screen dump, MP spreadsheet, and a TIW 'PF'. (Still would like to know what the h... to do with it tho!!!)

Terry Atkinson posted the following on TImeline: All DISK+AID, Memory Manipulator users: Coe Case has purchased the rights to all of Don Thompsons software. He plans some enhancements to those programs which will include direct disk control and TI/MS DOS disk xfers. Right now, the latest versions are: DISK+AID; v3.2, and MemMan; v1.0, and are available for \$20. Note: Don Thompson has sold his TI systems and is wholly dedicated to the Sanyo (IBM). For those interrested, Coe's address is: Coe Case; 8011 Navios Dr; Huntsville 25802 address is: Coe Case; 8011 Navios Dr; Huntsville 25802

Incidentally, Coe is the one who changed Barry Boone's track-copier such that it works on the CorComp machine.

KOMDED....1 love 'em 1) a new (professional) track-copier is due to be marketed by Utilitee Software called ##AWSOME COPY##. Apparently, it will copy anything except itself, and when it makes a back-up copy, even Awsome Copy cannot copy the backup! Can be used on a single drive system (10 passes). There are two basic options to choose from: Standard Format (non-copy protected) and Special Format (copy protected). Under "Special" you can either choose to format a disk or copy one. Under "Format" you choose which drive, which track, and how many bytes per sector: 256, 512, or 1024. Then you tell it how many sectors, and initialize the disk any way you please. A great aid for those wanting to protect their own disks. (NOTE: As Barry Traver noted....what happens when software developers start sending out copies made with AWSOME COPY. Remember, Awsome copy cannot copy it's own backups! Jace' What's mass'. backups') Jeez! What a mess!

baikups') Jeez! What a mess!? 2) Bad news for those waiting for the MG IBM style Reyboard. He has put the project on hold, apparently because one of the chips has escalated in price. When the price comes down, the project will resume. Good news along the same line. A company: RAVE 99 Co., 25 Florence St, Bloomfield CT 06002, (phone after 6pm EST 202-242-4012 and 203-672-9272) have announced two new keyboards for the 99/4. They come with telephone type coil cords. #1 has 84 keys and is apparently an standard IBM. XT type. #2 has 101 keys. Both have full numeric key pads, separate function keys, and normal access to 1.2". Prices: E4 key 124.95(IBM type); 101 key \$149.95. Custom key assignments can be built in for \$15.00 additional, plus shTpping cost. A 4 page brochure can be had by sending a SASE to the above address. Release is scheduled for 1 Bct. 2) Barry Traver has announced a new ARCHIVER utility, an upgrade of the one his supplied with the lastest TravelER dish. (1) Automatic creation of a packed file that Is compatible with XMOPEM uploading/downloading with FAST-TERM, 4A/TALF, ard_the lastest FIESM. (2) Additional field whole disk?" option added for convenience. (4) Selective unpacking

(4) Selective unpacking

(5) Additional on-screen info. on files within packed file
 (6) Decreased back and forth action between drives.
 (7) Full compatibility with earlier versions of ARCHIVER.

Recently I've subscribed to RD Computing. Thanks to Rick Lumsden! I find it interesting and informative and have had no problems dealing with Ryte Data and Bruce Ryan.

The following appeared in VI.8: Pat Saturn of MicroStuph in Dhio has contacted us with some great information: First they do a console upgrade with 32%, 232 and DS/SS disk controller INSIDE the TI 99/44 console. Nice: He hasn't sent us a picture -- there's not much to see

RS 231 and DS/DC disk controller INSIDE the TI 99/44 console. Nice! He hasn't sent us a picture -- there's not much to see without lifting the 'hood'. He has been able to get a fully expanded machine inside the existing case and interface the small 3 1/2' drives to the 44. You can add up to 4 DS/DD Teac drives to a modified console. Pack up the whole affair in a small case and haul it around (to users group meetings) without the PE Box. Good work! The price for this upgrade is \$E02 all features included. He has several projects on the go -- some of which are really hot! Most important is a new expansion box for the 44. Work is in progress to develop a unit with five slots, power supply, space for two slim line drives, interface card and a smaller ROUND CABLE without the "aircraft carier" off the side of the console. The unit should be logical, less expensive alternative to searching for a Peripheral Expansion Box. Looks as if some of the expansion cards will be going to multi-function spon as well. Indications that the stand-alone 128K memory unit with the PIO port will be done for the expansion box. Frees up one slot for those who want a parallel printer for their system but do not need the RS-22 features. Pat tells us that GE has a new shielded cable for this project and that this expansion unit will be useful right out of the box. We'll keep you posted. Pat Sature can be vasched at WEDDORTHOUND (1950 0) in the tot.

We'll keep you posted. Pat Saturn can be reached at MICROSTUPH; 1456 Grandvew Ave; Columbus Ohio 43212; (E14) 486-7262

The following appeared in V1.12:

"C" is one of the mainstream industries most popular programming languages. The code is easy to develop and 'port' to other systems. It is modular, similar to Pascal, compiles for high speed operation is fully supported from one machine to the next. Lotus 1-2-3 is written in C as are other major packages. Those wishing to investigate the 199 language b, Clint Pulley should contact the contributing editor.

Notest

o approx 200,000 TI PEBs exist. o Dheins Hardware; 7 W. Airline Highway; Waterloc Iowa 50702 (319) 236-3861 has TI PEBs in stock. o The 9938 was developed in a joint license venture with Texas Instruments and Japanese companies. II apparently bailed out and new Yamaha has gone into production. The chip is available for experimenters and in quantity to manufacturers.

o John Clulow is no longer associated with the Horizon Computers. Why is anyones guess? o Bill Scones of IUS fame is now associated with RD Computing. o J. Peter Hoddie released Pre-Scan It! through Asgard Software; PDB 10306; Rockville Maryland 20850 at \$10. PSI modifies any XBASIC program saved in merge format and the result is faster startup execution time of that program. We find the mod time a bit slow but a very useful utility.

o TI has been contacting all known users group. For what reason is to been seen but rumour has it they are going to be releasing more software.

E; Toronto Ontario 1 Tennant recently went into business with Solid State Harware; Dept. 169; 2356 Gerrard St. ត61 M4E 2E2; (416) 28E-9412 catering to the TL. Prices of some equipment in cdn funds: CC TT card \$199; Horizon RAMLs/ DSED \$250; Janome green monitor \$80; Computer Bus Extension Cable \$30; Samsung Goldstar color monitor \$250; RS232 32K mltfctn-card \$208.75; DSDD 32K mltfctn-card \$345 and all other brands (ie. CorComp, Asgard, MPB, and soor Myarc with Geneve.)

o Those interested in joining the squish-a-mouse software club please contact the contributing editor. o DM 1000 is now at V0.0. o The contributing editor is in desperate need of a copy of the speech editor manual. o Funny things happen when you save or old to your RS232 under xb in the gram karte.

Next time we'll look at the CHARA1 file of TI Writer and some pokes and peeks you can use.

10 ! SELECT-A-TEAM E WINNIFEG 59.44 U.G. ***** 20 CALL CLEAR :: ON WARNING NEXT 30 CALL CHAR(143, "153C7EFFFF7E3C18") 40 CALL COLOR(0,15,15,1,11,13) ************************** 50 R.E.T.U=0 60 RANIDAILE BC CALL SCREEN(5) 96 GBSUB 116(96 GBSUB 116(10(CALL SCREEN(14):: DISPLAY AT(12,5):"S E L E C T ~ A ~ T E A M ! " 110 FDF FAT=1 TO 50 :: CALL SOUND(10,175,6,235,7):: NEXT FAT :: FDF D=1 TO 150 : : NEXT D 140 GOSUE 1161 150 DISPLAY AT(4,1):" NAME OF TEAM (A 160 ACCEPT AT(7,7)VALIDATE(UALPHA)BEEF:BL\$ 176 GOEUE 1160 NAME OF TEAM (A)" 180 DISPLAY AT(4,1):" NAME OF TEAM (B 190 ACCEPT AT.7,7)VALIDATE(UALPHA)BEEP:ED\$ NAME OF TEAM (E)" 195 NM%=BL% 206 BDSUE 1160 210 DISELAY AT(6,1); "ENTER DATA FOR": 220 GDSUE 117(236 ACCEPT AT(21,2)VALIDATE(DIGIT)BEEP:A 246 GOSUE 1190 250 ACCEPT AT(22,2)VALIDATE(NUMERIC)BEEP:B 260 GDSUE 1190 270 ACCEPT AT(22,2)VALIDATE(NUMERIC)BEEP:Z 280 GDSUE 1200 296 ACCEPT AT(22,2)VALIDATE(NUMERIC)BEEP:Z 280 GDSUE 1200 296 ACCEPT AT(22,2)VALIDATE(NUMERIC)BEEP:Z 300 IF B=0 THEN 430 310 IF A=B+I+C THEN 340 326 GDSUE 1160 195 NM\$=BL\$ ENTER DATA FOR": "": TAB(7); NM\$ 320 GDSUE 116 330 605UB 1210 :: 6070 240 330 60508 1210 :: 60+0 240 340 60208 1220 350 ACCEFT AT(22,2)VALIDATE(NUMERIC)BEEP:D 360 IF D>0 THEN 360 370 RANIOMIZE :: D=INT(8#RND)+10 380 60508 1230 390 ACCEFT AT(22,2)VALIDATE(NUMEFIC)BEEP:E 400 F=B#1 410 60508 1240 415 DISPLAY AT(22,1):F 420 F0F FAT=1 TO 50 :: CALL SOUND(10,175,6,235,7):: NEXT FAT 430 60508 1250 420 FOF FAT=1 TO 50 :: CALL SOUND(10,175,6,235,7):: NEXT FAT 430 GOSUE 1250 440 ACCEFT AT(22,2)VALIDATE(NUMERIC)BEEF:N 450 GOSUB 1260 460 ACCEPT AT(22,2)VALIDATE(NUMERIC)BEEF:F 470 DISPLAY AT(16,2): "HOME FIELD FOR: ": "":TAB(2); NM\$: "":TAB(2); "(Y/N))" 480 ACCEPT AT(22,2)VALIDATE(JALPHA, "YN")BEEF:R\$ 490 IF R\$="Y" THEN R=3 :: GOTO 530 510 IF R\$="N" THEN U=3 500 NM\$=FD6 510 IF REF N THEN UP3 520 NM\$=ED\$ 530 BDSUB 1160 540 DISPLAY AT(6,1);" NOW ENTER DATA FOUND 550 GOSUE 1170 560 A000PT AT(21,2)VALIDATE(NUMERIC)BEEP:6 570 GEEL 1181 570 GEEL 1181 NOW ENTER DATA FOR: ": " TAB(7); NM\$ 570 BL:: 110. 580 ACUERT AT(22,2)VALIDATE(NUMERIC)BEEF:H 590 GOBUE 1190 600 ACCERT AT(22,2)VALIDATE(NUMERIC)BEEF:I 610 EL: 1200 620 ACUERT AT(22,2)VALIDATE(NUMERIC)BEEF:J 630 IF H=0 THEN 760 640 IF GEHTIAT THEN 570 FUSE 550 640 IF 6=H+I+J THEN 670 ELSE 650 650 605UB 1160 660 605UB 1210 :: 60TC 570 670 605UB 1220 670 60508 1220 680 ACCEFT AT(22,2)VALIDATE(NUMERIC)BEEP:K 690 IF K=G THEN 700 ELSE 710 700 RAAIIMIZE :: K=INT(8‡RND)+10 710 6IEL 1230 720 ACCEPT AT(22,2)VALIDATE(NUMERIC)BEEP:L 730 M=H41 740 8EEVE 1240 ... DIEP:AV AT(22,1).M 740 60505 1240 :: DISPLAY AT(22,1):M 750 FOR MUS=1 TO 50 :: CALL SOUND(10,176,6,236,7):: NEXT MUS 760 61 E 1250 770 A: E: 1250 770 AULET T AT (22,2) VALIDATE (NUMERIC) BEEP:0 780 60505 1260 790 ACCEPT AT(22,2) VALIDATE(NUMERIC) BEEP:0

EXTND. BASIC REG.

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BY B.LESKO 1986

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BOU CALL CLEAP 9 810 IF NOO THEN N=N+1 820 IF DOK THEN D=D+2 820 IF N.D THEN N=r+2 840 IF POG THEN P=P+1 850 IF DIG THEN D=G+1 850 IF 800 THEN 0=0+1 870 IF ((A+6+0+0+F+F)-(E+Z+N+P))>((6+H+J+K+M+U)-(L+I+0+0))THEN 880 ELSE 300 B/C 1: ((A+D+C+D+C+D+(+2), CL-L+A, CL-920 DISPLAY AT(3,4):* I PREDICT ** WILL WIN THE GAME * :: GOTG 970 930 ! TIE AT THIS POINT. I PREDICT " :: DISPLAY AT(5,6):ED\$:: DISPLAY AT(7,3) 940 GOE'JE 1160 940 GUESE FIEL 950 DISPLAY AT(4,1): " IT WILL BE A TIE GAME!!!"." 960 RANDOMIZE :: IF S=T THEN S,T=INT(21#RND)+14 :: GCTG 1060 970 S=((A+B+C+D+F+R)-(E+Z+N+P)) 986 T=((G+H+J+K+M+U)-(L+I+O+Q) 990 IF (S=0)+(S>T)THEN 1000 ELSE 1020 1006 60505 1276 1016 6675 1081 1020 IF (Ty=0)+(T>S)THEN 60SUB 1280 :: 60TO 1040 1020 IF (1940-1970) THEN GOOD 1200 F GOOD 1200 F GOOD 1000 1040 IF 50=39 THEN S=5 :: GOTO 1070 1050 IF (5039)+(50T)THEN GOSUB 1290 :: IF (5039)+(50T)THEN GOSUB 1300 1066 60TE 106C 1077 IF T(=35 THEN T=T 1086 DISPLAY AT(11,2):USIN6 "##":S :: DISPLAY AT(11,6]:BL\$ 1090 DISPLAY AT(15,2):USIN6 "##":T :: DISPLAY AT(15,6):ED\$ 1100 DISPLAY AT(13,1):"SCORES" :: DISPLAY AT(12,1):" 1" :: DISPLAY AT(14.1): 1110 DISFLAY AT(20,1):" TO PREDICT ANGTHER GAME " :: DISPLAY AT(22,1):" TOUC H THE SFACE B45 1110 TALL REY10,P,5 1130 IF S=0 THEN 1120 1140 IF S=02 THEN 120 1150 CALL CLEAR :: ENI 1157 CALL CLEAR :: ENI 1157 CALL CLEAR :: CAL COLOF 14,2 15):: CALL VCHAR 1,1,143,24):: CALL HCHAR 11,1 143,30:: CALL VCHAF 1,31,140,24): CALL HCHAP 24,1,145,30:: RETUP: 1170 DISFLAY AT(18,2):"TOTAL # OF GAMES FOR:" :: DISPLAY AT(20,2):NM\$:: RETURN 1180 DISFLAY AT(18,2):"TOTAL # OF GAMES FOR:" :: RETURN 1190 DISFLAY AT(16,2):"TOTAL # OF LOSSES FOR:" :: RETURN 1200 DISFLAY AT(16,2):"TOTAL # OF TIES FOR:" :: RETURN 1210 FOR X=1 TO 20 :: CALL SCUND(20,110,7,500,6,-8,5):: DISPLAY AT(12,1):"GAMES 10 θŔ. 1210 FOR X=1 TO 20:: CALL SDUND(20,110,7,500,6,-8,5):: DISPLAY AT(12,1):"GAMES PLAYED MUST= WIN+LOSS+TIE:" :: NEXT X :: RETURN 1220 DISPLAY AT(12,1):""" :: DISPLAY AT(18,2):"TOTAL # OF POINTS FOR:" :: RETU. 5 5. RK 1230 DISPLAY AT(16,2):"TOTAL # OF PDINTS against:" :: RETURN 1240 DISPLAY AT(17,1):"THIS IS THE TOTAL NUMBER OF PDINTS IN THE STANDINGS FOR:" 12:0 DISCAN ANALY, 22: THIS IS THE FOLKE NUMBER OF 12:0 DISPLAY ATALE, 20: "HOW MANY PLAYERS, PLAYING 12:0 DISPLAY ATALE, 20: "HOW MANY KEY PLAYERS, NOT 1: RETURN WHILE INJURED FOR: " :: RETURN PLAYING DUE TO INJURYS FOR: " 1270 RANDEMIZE :: S=INT(14#RND)+C2 :: T=INT(7#RND)+14 :: RETURN 1280 RANDEMIZE :: T=INT(14#RND)+21 :: S=INT(7#RND)+14 :: RETURN 1290 RANTTIZE :: S=INT(21#RNE)+C1 :: T=INT(14#RND)+7 :: RETURN 1300 RANTTIZE :: S=INT(14#RND)+7 :: T=INT(21#RND)+22 :: RETURN



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