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HAPPY NEW YEAR!



OSHANA TI
99/4A
COMPUTER
USERS GROUP

OSHTI



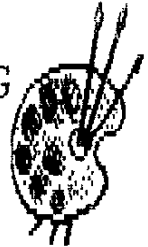
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LAST OSHTI MEETING:



POINT TO POINT DRAWING USING Y.A.P.P.



The December meeting of the OSHTI group was held at the Ed and Liz Conlin's residence in PICKERING. This was a meeting not to be missed. There were lots of goodies provided by our host and hostess. Those egg nogs and cheeses and kabossa etc went down real fast in a group like ours. Thanks again for the excellent WESTERN hospitality.

Apologies for leaving off the DATE for the Dec. meeting in the December newsletter. Because of 5 lines having to be deleted, the date got cut. Also, the format for the inside page was cut from 60 lines to 50 lines and I forget to put it in. The DATE for the JANUARY meeting is :

WED. JAN.20 at Tom's place OSHAWA.

Another really nifty feature of VAPP 1.2 is the use of points to draw diagrams. You simply place points on the screen and then DOUBLE CLICK on the last one to have it draw the 'BEST FIT' curve using Berstein Polynomials. Again, I had trouble understanding the instructions but now I know that it is DOUBLE CLICKING on the LAST POINT that puts this function into effect. Alexander apologies for the 'slowness' of the plot but I didn't think it was that slow. I tried it with the 16 bit bus on and off and was only able to detect slight differences. It is fast enough for me. Choose the funny-looking icon or press 'B' to start.

I think Alexander has done an excellent job on this piece of software. Now, all we need is a UTILITY programme to CONVERT VAPP pics into TIArtist Instances. Of course we will lose the resolution, but a lot of times that's not important.

VAPP is a good programme. But DON'T FORGET, you need an 80 column device like TIN to make it work.

Tom

The December D.O.M. was demped. It was a Christmas present of GAMES from here and there. Some were as uplifting as Killing Cockroaches and others as demanding as Down Hill Skiing. There was also a couple of Thinking games (WORD GRID and NUMBER sequencing and CANFIELD (solitaire)) to round out the disk.

The highlight of the meeting was to made through the huge bag of goodies that Guy had to sell. Guy really organized it well and had a lot of bargoons to boot. Although most of the hardware items disappeared in a flash, there are still a lot of other items available for sale at the next meeting in January.

Getting to the meeting was easy, as long as one remembered the number of the street. Even I got confused.. was it 1849 or 1029 ?

See ya at the next OSHTI meeting.

Don't forget 1993 membership dues will be set at this meeting. Attend and get your vote in.

P.S. I hear that that the 'nice' little doggie critter has departed the Conlin residence. Liz said that it was either the dog or Ed had to go. Am she opted for the dog. A wise choice.

Tom

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HOW TO FIX A



BLOWN DISK!

Last night (Jan. 12th 93), I was typing a test for one of my classes. When I went to save the file, I heard this sound that gave me the willies. It sounded like something went wrong. And it did!

When I went to check the file, the disk came up with the dreaded DEVICE ERROR message! This means that the disk basically is BLOWN! You can't write to it or read from it. All the files are not accessible using Disk Managers like DM 1000 or DSKU. And of course, the files on the disk were NOT BACKED UP!

DON'T DISPAIR... there is a way to get the disk working. Here is what I did. Maybe it will help you some day.

I used the MENU programme on the HORIZON RAM DISK to DELETE the LAST file using the 'D' prompt. If you don't have a RAM DISK, then use a copy of the BOOT programme that most people or user groups have.

Next, go to DSKU and opt for SECTOR UTILITIES. Pick SECTOR EDIT and GOTO SECTOR 1.

Sector 1 is VERY VERY important. It tells the position of the FILE information in an ALPHA list. When you read the numbers, they are in double byte sets. Since there are 256 bytes in any sector, you can only have 128 files on a disk. You will now have to do some detective work.

If you read the directory and it goes for a while and gives some names but then stops, this tells you approximately which file header is causing the problem.

For example, if the last file read is the 31st one, then start at byte 62. Read this number in HEXADECIMAL. It may be something like 02D5 (as it was in my case).

Now press CTRL R (for READ) and TRY to READ this file header sector.

If this is a BAD SECTOR, then it is possible to recover the rest of the good file headers and leave out the bad one.

Let's say that we have found that sector 02D5 is bad. You will know this because you CANNOT read it even with DSKU. All you have to do now is GO BACK to SECTOR 1 and WRITE DOWN (on a piece of paper) ALL of the sector headers that follow the bad one. If you want to be really safe, you can get a print out by pressing CTRL P; I didn't.

Now comes the part that should solve the problem.

Go to the offending file header byte (62 in my case). Type in the NEXT sector header, then go to byte 64 and type in the one in 86. Continue till you get to the LAST sector header. You can then put 0000 in there.

So what you have done is to take out the BAD sector header and MOVE the ones after it up TWO BYTES.

Now to make this PERMANENT on the disk, you press CTRL W (for write) and just write this sector to the disk.

THAT'S IT!

Go back to a disk manager (DSKU is one too) and see if you get a BAD DEVICE message. If you only have one bad sector header, then you will not get any MORE error messages. In my case, there was now NO PROBLEM.

Before you do ANY THING ELSE, BACK UP that disk by doing a COMPLETE FILE COPY (don't do a DISK COPY since, it will hang up when it gets to the bad sector).

This is a life saver in most cases. How this sector got blown I have no idea. I can tell you that it was a D5DD 5 1/4" floppy. I always VERIFY these disks BEFORE ever writing to them. So I can just guess that that sector must have become corrupted over time. Fingerprints, dust or magnetic field changes can cause problems like this.

Of course, you can do some interesting things to SECTOR 1 which make directories come out any way you want. For example, you can rewrite sector 1 so that the directory comes out in REVERSE ALPHA order. You can have DOUBLE listings for the same programme. You can HIDE a DIRECTORY by writing 00 at the beginning. Just make sure that you experiment with a backed up disk.

Tom



LATEST TI NEWS

HOT FLASHES:

December issue of MICROpendium states that ASGARD is releasing the AMS(128K memory) version of the new wordprocessor FIRST-DRAFT. This will be version 1.1. Owners of the 1.0 version will be sent the new upgrade. This is the FIRST programme that will make use of the added memory. This means that a text file could be 70 K or 280 sectors, before the programme would go to disk. There is no word in this news brief if the SPELL checker is in memory also. But I think it is the REASON for now purchasing the AMS with the software.

Also in DECEMBER's MICROpendium is a review of FIRST DRAFT version 1.0. So this review is already outdated. The phone number of Chris Bobbitt (AKA ASGARD) is also published in MICROpendium 703-255-3085 (this is a NEW number and may be connected soon. His old number still works at 703-938-4017 as of Jan. 3rd).

I just (Jan. 3rd) got off the phone with Chris Bobbitt and he told me that the 1.1 version of FIRST DRAFT is NOT yet out. So version 1.0 owners will have to wait.

Chris did mention that there is considerable work still going on with PAGE PRO. We may eventually see an 80 column PAGE PRO with a MOUSE driver. This would be hot stuff.

Chris also was receptive to the idea of packaging the AMS with software like FIRST DRAFT for maybe a reduced price. I feel that this is what would make the AMS take-off. I think we will see a NEW ERA of POWERFUL software and HARDWARE coming out for the TI 99/4A and ASGARD will be one of the leaders in this field.

Tom.



DECEMBER'S KAWARTHA MEETING

I attended the KAWARTHA 99 meeting on Dec. 9. It was hosted by Glen Daniels at the Daniels home on Hwy 28 just south of Peterborough.

It was a festive occasion and there were lots of treats that each member contributed to the affair. It was nice meeting the familiar and not so familiar faces from the club. Thanks for the invite.

Of course, Phil Townsend was there to 'fill' the air with rude retorts about the OSHTI club. We always like to do the same when Phil comes down.

The meeting was very informal. Most members did not pay much attention to the demonstration of the disk of the month. There were several very good typed in programmes by Bob Tisdale. Some of these even managed to find their way to the OSHTI DOM for December. Thanks Bob for the typing and demo.

I would also like to report that there are now 4 lanes of highway to the Peter-Patch area. This is a most welcomed addition to the Ontario road system, for those of us who travel to this area in the dark of night. No longer will it be a chore to travel that stretch over the ridges.

Finally, Dick Bulmer and Glen introduced me to their 'other' computer. Thanks for the advice and programming help. I always get DOS mixed up with DOSE. Dose is what you don't want to get a case of... (< GRIN (< Tom



PAGE PRO COMPOSER PRINT PROBLEM

You probably noticed that the CHRISTMAS issue of the OSHTI newsletter was done in BOOKLET format. I used PAGE PRO PAGE MAKER to accomplish this. It does look OK but you may have noticed some GLITCHES. Page 9 was the worst. What happened you might ask?

Well what happened is a SOFTWARE BUG somewhere. It seems only to occur with the printing of the 640 LANDSCAPE mode of the EPSON-type printers. I was able to correct most of the pages by taking out CAPITAL 'I's and 'T's but I don't know why this causes a problem.

I found out that you could print the top of a page and the bottom of a page and everything worked fine, but when you printed BOTH top and bottom pic together, then you get problems.

What was a royal pain was the fact that you could NOT predict when the problem would occur and you could only see it in the final print out.

I will be consulting Chris Bobbitt about this.

Tom



enCYClopedia of the TI 99/4A

Included in the letter from Mike Wright about the PC99 emulator was information about the availability of THE CVC.

THE CVC is an enCYClopedia of articles on the TI 99/4A. It includes valuable info on software titles, articles in the 99'er magazine and various other sources.

The programme sounds good and would be a nice thing to have in any TI CLUB library. The kicker is that it runs out of WORD PERFECT 5.1 on the IBM. Well, even my \$100 IBM has this.

Mike writes: "One of my weaknesses is trains and model railroading. I grew up in the steam age and was fortunate to see and photograph 10 years of steam in action. In the United States steam reached its zenith in the early 1940's. Each year the Simmons Boardman company publishes the standard reference work for steam locomotive users. It was officially called the CYCLOPEDIA, but was usually referred to as "THE CVC". So I combined the somewhat diverse hobbies and steam powered locomotives and computers and assigned the name "CVC" to the TI project."

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MORE MOOLA FOR MICROpendium ?

MICROpendium is toying with the idea of returning to a 40 page format. They are currently publishing the magazine in a 32 page format. Of course the cost will go up substantially... \$10 per subscription. This would make the CANADIAN rate rise to \$42.50 US. With the Canadian dollar being \$0.78 US this would make it \$55.25 Canadian. Even I would balk at this. I would opt for 32 pages or a rate increase FOR CANADIANS of only \$7.80 to bring it up \$10 Canadian. As it is right now, the US rate is only \$25 and the CAN rate is \$32.50 and the Mexican rate is only \$30.00. I fail to see why Mexico gets a break; is mailing cost to Mexico that much cheaper with the new FREE TRADE DEAL ?

I must still support MICROpendium because it is the ONLY TI99/4A and GENEVE publication nationally available. But I think \$55.00 a year would be a little much.



WORD(perfect)PROCESSOR 5.1 HOW DOES IT STACK UP?

During the winter break, I had to type two exams for school. One was on WORD PERFECT 5.1 on an IBM. So I had to learn how to use WORDPERFECT. Since I have been using FUNNELWEB and TI-WRITER for years...10 or more, and also some experience with PREDITOR, I feel that I can comment on the advantages and disadvantages of both and even the COMMON GROUND. Although I have NOT used MACRO commands with WP5.1, I know what they can be used for.

- | | |
|---|---|
| <p>ADVANTAGES of WP5.1:</p> <ul style="list-style-type: none"> > Mouse can be used with it easily > Underlining and Bold face can be seen on the screen > Keystrokes don't get lost. There is a keyboard buffer. > lots of printer files to choose from > BLOCKING of WORDS or SENTENCES is the best feature (PREDITOR has sentence BLOCKING) > Two files in memory at once and you can move between them easily (PREDITOR has) > Ability to draw lines and use GRAPHICS (not WYSIWYG) > Lots of HELP files available at the touch of the F1 key. | <p>disadvantages:</p> <ul style="list-style-type: none"> > too many keystrokes to do a simple task like delete a line. > slow loading (partly because of my system) > Keyboard buffer can make for problems if you hold down key for too long > Print control keystrokes are 'hidden'. They can be edited but this is a problem to the novice > The BIGGEST KNOCK is the fact that there is just TOO MUCH POWER for most casual users. > Learning the difference ALT F4 and CTRL F4. Why is ALT 4 not the same as |
|---|---|

I used WP5.1 on my used XT 8088 IBM computer with a CGA paperwhite screen so some of the features of WP5.1 can't be discussed here.

The bottom line is that you too could probably use it if you had a good understanding of a wordprocessor like FUNNELWEB or PREDITOR. But for ease of use both of these TI wordprocessors can do a similar job and at less of a cost to you.

I even checked out a good book at the book store. It didn't come cheap at \$35 Canadian plus tax. I didn't buy it.

TRIALS of ADDING

a MYARC HARD DRIVE:



Doug has recently purchased a hard drive and a hard drive controller for his TI. This came via a used model from Bob Boone of North bay.

We finally got it up and running during the snow storm of Dec. 10-11. It is fairly easy to do, once you have the Myarc disk controller book in front of you.

There are TWO CABLES that go to a hard drive from the disk controller. This is DIFFERENT from a floppy drive which only needs one 34 pin cable. The second cable is a 20 pin cable which is called the LOGIC cable. Both cables MUST be attached on the outer part of the disk controller. The floppy drives are attached as usual to the inner side of the controller.

Depending on the floppy drives (if you have low energy slim-lines or the heavy duty TI full height drives) you may need another power supply for the hard drive. This is always a safer way to go anyway. Doug has a second power supply for his hard drive.

The setup of the hard drive is similar to the IBM in that there is a ROOT drive and various SUBDIRECTORIES under this.

In order to BOOT from the hard drive, you have to name one of the subdirectories DSK1. This emulates the boot strapping from things like EXTENDED BASIC. This subdirectory is limited to 127 files so that is a problem.

The disk manager that comes with the MYARC controller works quit well but does take some getting used to.

I was NOT able to SAVE or READ files to the hard drive using FUNNELWEB. I am not sure that you can do this and I have found NO documentation about this. If anyone out there knows, drop us a line.

Doug also purchased a MODEM from Bob so that he could set up a bulleting board. Bob sent him the software to do this as well. Hopefully, Doug will get around to this in the future, so stay tuned.

Tom

WHAT the TI WORLD NEEDS



What I would like to see is a CALCULATOR programme that could be accessed from a word processor such as Funnelweb or First Draft by the press of a HOT KEY or HOT KEYS. I have used SIDE KICK on the IBM and use the calculator to work out math when I am setting up a test (especially in Chemistry). Pressing CTRL and FNCT at the same time accesses SIDE KICK during any IBM programme. SIDE KICK also has a MEMO file and a calendar built in too. But the calculator mode is something that would be most useful.

Tom.

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Shape of things to come

Apple Computer introduced a new keyboard yesterday, at its MacWorld convention in San Francisco. The Apple Adjustable Keyboard is deceptively easy to use because of its ergonomic design and adjustability. It

can be angled to help typists keep their wrists in a comfortable, neutral position. Modular components allow user to customize keyboard to meet individual work habits.

AP Computer

DSK3 - DISKNAME= 01-92OSHTI
 AVAILABLE= 13 USED= 345

FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P
ASTROMANIA	46	PROGRAM		BATFRONTTX	35	PROGRAM		CAVER/JOY	52	INT/VAR254		ELECTRON/2	25	PROGRAM	
FIRST/LAST	48	PROGRAM		LOAD	6	PROGRAM		LOND-BLITZ	19	PROGRAM		PARATROOP	20	PROGRAM	
TOMB	52	INT/VAR254		WALLABY	42	PROGRAM									

DSK3 - DISKNAME= 02-92OSHTI
 AVAILABLE= 30 USED= 328

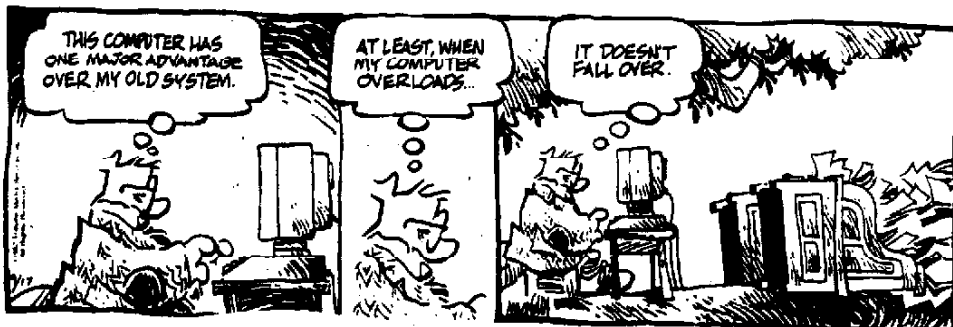
FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P
BATSHPDOG	16	DIS/VAR 80		BATTLESHIP	46	PROGRAM		BOOT	31	PROGRAM		LOAD	5	PROGRAM	
LOADBATTLE	2	PROGRAM		LOADNUKE	14	PROGRAM		NUKE/LB	10	INT/VAR254		NUKE1	63	INT/VAR254	Y
NUKE2	4	PROGRAM	Y	NUKEDIAG	20	PROGRAM	Y	NUKEDIAH	25	PROGRAM	Y	NUKEDOCS	42	DIS/VAR 80	Y
NUKEPIC_C	25	PROGRAM	Y	NUKEPIC_P	25	PROGRAM	Y								

DSK3 - DISKNAME= 03-OSHTI92
 AVAILABLE= 266 USED= 452

FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P
BOOT	31	PROGRAM		BUCKROGERS	33	PROGRAM	Y	BUCKROGERT	28	PROGRAM		CAVEGIRL	19	DIS/FIX128	
CUBIT1	33	PROGRAM		CUBIT2	3	PROGRAM		FREDDY1	33	PROGRAM		FREDDY2	4	PROGRAM	
LOAD	5	PROGRAM		MAXRLE	25	PROGRAM		MERCURY7	40	DIS/FIX128		MOONPATRL1	33	PROGRAM	Y
MOONPATRL2	33	PROGRAM	Y	SC#1	33	PROGRAM		SC#2	4	PROGRAM		SC#3	4	PROGRAM	
SC#4	4	PROGRAM		SC#5	4	PROGRAM		SPOT	33	PROGRAM		SPOU	17	PROGRAM	
TOPP	33	PROGRAM													

DSK3 - DISKNAME= 04-92OSHTI
 AVAILABLE= 369 USED= 349

FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P
-README	11	DIS/VAR 80		BOOT	31	PROGRAM		C	18	PROGRAM	Y	CONFDATA	2	DIS/VAR 80	
DVM/DOCS	91	DIS/VAR 80	Y	DVM301	38	PROGRAM	Y	GEOMETRY	34	PROGRAM		LOAD	5	PROGRAM	
LOAD1	15	PROGRAM		T	30	PROGRAM	Y	TITLESCRN	18	PROGRAM	Y	TRISTRIX	41	PROGRAM	
XBCAT	15	PROGRAM													



DSK3 - DISKNAME- 05-9208HTI
AVAILABLE- 0 USED- 358

FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P
CANNON1	33	PROGRAM	Y	CANNON2	29	PROGRAM	Y	COLUMN	15	PROGRAM	Y	COLUMN/DOC	21	DIS/VAR 80	Y
DV80/MERGE	5	PROGRAM	Y	FUCAT	12	PROGRAM	Y	FUCAT/DOC	16	DIS/VAR 80	Y	LOAD	10	PROGRAM	
MANCALA1	33	PROGRAM	Y	MANCALA2	10	PROGRAM	Y	STORY1	33	PROGRAM	Y	STORY2	33	PROGRAM	Y
STORY3	11	PROGRAM	Y	SUNTIMES	21	PROGRAM	Y	WEIRDUSIC	26	PROGRAM	Y	ZEROZONE	50	INT/VAR254	Y

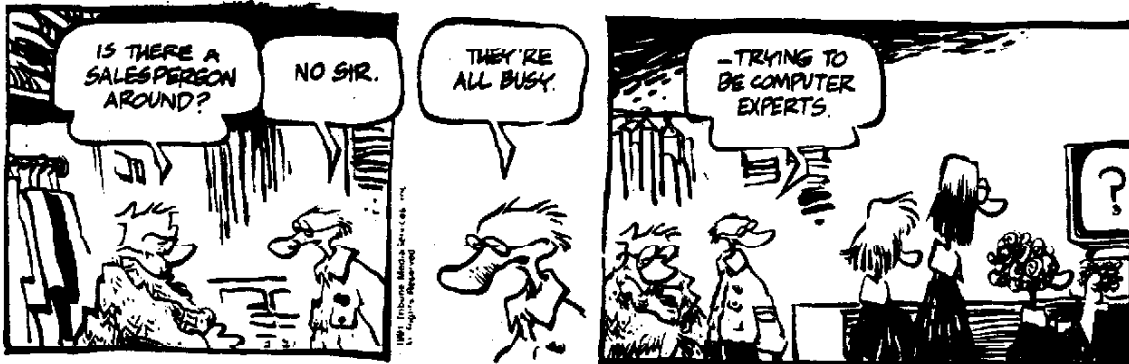
DSK3 - DISKNAME- 09-9208HTI
AVAILABLE- 129 USED- 589

FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P
ARCTURUS	27	PROGRAM		BODYSNATCH	19	PROGRAM		BOOT	31	PROGRAM		CANADACAPS	14	PROGRAM	Y
CATALOG	4	PROGRAM	Y	COMPOSERS	39	PROGRAM	Y	DOCUMENT	8	DIS/VAR 80		ELEMENTS	28	PROGRAM	Y
ELEPHANTS	29	PROGRAM		FENCES	18	PROGRAM		FLAGS	42	PROGRAM	Y	FREEWAY	24	PROGRAM	
GEOLOGY	39	PROGRAM	Y	INAUGURATE	27	PROGRAM	Y	JULY4	11	PROGRAM	Y	LANDER	2	PROGRAM	
LOAD	5	PROGRAM		LOAD1	6	PROGRAM		LOONEY/LAN	25	PROGRAM		MARTIAN-MN	30	PROGRAM	
MENU	6	PROGRAM		MEXICOCAPS	18	PROGRAM	Y	PHILOSQUOT	18	PROGRAM	Y	README	7	DIS/VAR 80	
SEMAPHORE	34	PROGRAM	Y	SKEETERS	20	PROGRAM		STATES50	14	PROGRAM		SUBJ/VERB	13	PROGRAM	Y
TUNESIGNAL	31	PROGRAM	Y												

DSK3 - DISKNAME- 10-9208HTI
AVAILABLE- 154 USED- 564

FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P
/COPYCAT	2	PROGRAM		/KOPIKAT	8	PROGRAM		/TRACKHACK	15	PROGRAM		/ULTRALOAD	2	PROGRAM	
3/COL/CAT	14	PROGRAM		BACK/DOC	9	DIS/VAR 80		BACKSIDE	12	PROGRAM		BOOT	31	PROGRAM	
CLEAN/LOG	20	PROGRAM		COPY-CATXB	32	DIS/FIX 80		FAST-COPY	22	PROGRAM		KK/XO	29	DIS/FIX 80	
LABELER/JP	27	PROGRAM		LOAD	5	PROGRAM		LOADIT	31	PROGRAM		M4DOCS	71	DIS/VAR 80	
M4V1*1	28	PROGRAM		MAILLIST	4	INT/VAR128		MGR1	33	PROGRAM		MGR2	31	PROGRAM	
MHELP	45	DIS/VAR 80		MLM	42	PROGRAM		OCT/DOM	3	DIS/VAR 80		ULTRACOPY	33	DIS/FIX 80	
XBCAT	15	PROGRAM													

Shoe



DSK3 - DISKNAME= 11-920SHTI
AVAILABLE= 8 USED= 350

FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P
*TC-19	31	PROGRAM		*TCX-1073	30	PROGRAM		*TCX-1074	35	PROGRAM		*TCX-1123	35	PROGRAM	
*TCX-1124	23	PROGRAM		*TCX-1131	38	PROGRAM		-README	6	DIS/VAR 80		FLOWERS	23	PROGRAM	
LOAD	7	PROGRAM		MULTITUDES	27	PROGRAM		NATIONS	24	PROGRAM		PLURAL	8	PROGRAM	
TENSETIME	19	PROGRAM		TREES	23	PROGRAM		VOCAB	21	PROGRAM					

DSK3 - DISKNAME= 12-920SHTI
AVAILABLE= 21 USED= 337

FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P
BRAINSTORM	12	PROGRAM		CANFIELD	35	PROGRAM		COCKROACHS	19	PROGRAM		GRIDWORD	17	PROGRAM	
ICBM	20	PROGRAM		INTERSTATE	24	PROGRAM		KAMIKAZE	19	PROGRAM		KATZENMOUS	21	PROGRAM	
LOAD	28	PROGRAM		NUMBERGAME	6	PROGRAM		ROCKY-MT	12	PROGRAM		SNOWMOBILE	26	PROGRAM	
SP/PIRATE	21	PROGRAM		THE37GAME	9	PROGRAM		WARLORDS	36	PROGRAM		WELCOME	29	PROGRAM	
XMASLABEL	3	DIS/VAR 80													

DSK3 - DISKNAME= USGROP644A
AVAILABLE= 14 USED= 344

FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P	FILENAME	SIZE	TYPE	P
BLACKJACK	38	PROGRAM	Y	DSRLNK	7	DIS/FIX 80 Y		DUMP	11	DIS/FIX 80 Y		FROGS	46	PROGRAM	Y
LOAD	6	PROGRAM	Y	MOKO2	35	DIS/FIX 80 Y		OXOP2	11	PROGRAM	Y	POKER	48	INT/VAR254 Y	
RECSR	5	DIS/FIX 80 Y		SAVSCR	6	DIS/FIX 80 Y		SCENARIO	23	DIS/VAR 80 Y		SCROLL	9	DIS/FIX 80 Y	
WARGAME	82	INT/VAR254 Y		WARSCREEN	10	PROGRAM		WARSTATE	7	INT/VAR254					

DISK SUMMARY
JAN 1993
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DISKNAME	AVAIL	USED	# PRGGS	DISKNAME	AVAIL	USED	# PRGGS	DISKNAME	AVAIL	USED	# PRGGS
01-920SHTI	13	345	10	05-920SHTI	0	358	16	12-920SHTI	21	337	17
02-920SHTI	30	328	14	09-920SHTI	129	589	29	USGROP644A	14	344	15
03-USH1192	266	452	21	10-920SHTI	154	564	25				
04-920SHTJ	369	349	13	11-920SHTI	8	350	15				

TOTAL DISKS = 10

TOTAL FILES = 175

