

THE CLEVELAND AREA 99/4A USERS GROUPS
NEWSLETTER

JULY, 1984

NORTHCOAST

OLON

NORTH ROYALTON

GOLDEN CRESCENT

EXECUTIVE NOTES -- SOLON

If you missed the June meeting, you missed a fine presentation by Debbie Walker of the 3M company. Moreover, there were free Diskettes to be had, and much information to be learned about diskettes. (Editor's Note: I think everyone present learned at least one new thing, no matter how much each person had known about disk drives and diskettes.)

Looking forward to the July meeting, we will have the program contest winner submitted by Bill Shannon for review. And, we will have a presentation on the Household Budget Management Command Module.

Hope to see you there.

Walt Ryder, President

----- {{{-----}}}

JULY MEETING

SATURDAY, JULY 14, 1984

New Users Session: 10:30 am
Regular Membership Meeting: 11:30 am

SOLON PUBLIC LIBRARY
Inwood Drive (Off SOM Center Road -- Route 91)

TELECOMMUNICATION SIG

Those modem owners interested in participating in a telecommunications Special Interest Group should contact Miriam Huebscher-Alberts at 946-8347.

Miriam has also offered to do a question and answer column in the newsletter on telecommunications. Send letters to:

M. H.-A.
7414 Yorktown Court
Mentor, Ohio 44060

ASSEMBLY LANGUAGE SEMINAR

KEN GLADYSZEWSKI and I will be attending a seminar on Assembly language for beginners sponsored by the Marion, Ohio Users Group on July 21. We have room for two more. Contact myself or Ken for details.

Jim Cline -- 261-2463

EXECUTIVE NOTES - GOLDEN CRESCENT

NEWSLETTER DEADLINE

Due to the fact the newsletter deadline is on the Monday following the 4th Saturday of the month, we have a problem reporting the monthly meeting activities. You will note we missed last months deadline and as a result did not have news regarding our club in it.

JUNE MEETING

Ms. Betty Case, Sales Rep. for the 3M Co. will be at the June meeting on the 23rd and will make a presentation on disks and their proper care. I attended the Solon meeting and observed the slide/talk so I can report it is very interesting and informative. The best part is, all attending receive free disks. So, we would like to thank Betty in advance for a terrific job.

MEETING OR PICNIC FOR JULY?

There is a question as to whether or not to have a meeting or a picnic for July or August, if enough interest is shown at the meeting, we will let you know, some how, what is decided.

WE NEED YOU!!!

We are in need of members to serve on the various committies. If you have an interest, please call me, Chuck Mareno at 324-4388 or Dick Burger at 967-1317.

FOR SALE

- TI/99 4A Computer \$45.00
- PEB Box w/dust cover
- Disk drive/disk managerII
- Disk controller card
- RS 232 card
- 32K memory expansion card
- PEB Card and flex cable
- 25 assorted programs on disks/
storage box
- \$450.00
- Printing Cable (serial) . . . \$10.00
- Terminal Emulator II. . . . \$10.00
- TI Writer word processor. . . \$45.00
- Signalman phone modem . . . \$75.00
- Joy stick controllers \$10.00
- PEB Box(new in carton). . . \$100.00
- Teach yourself basic
(10 chapters on tape). . . \$20.00

Interested parties please call:

Tom Grogan - 235-2048 (evening)

WANTED

- Expansion Box
- Disk Drive and assembly

Please call:

George Spreng - 967-7257

NEXT MEETING

The next meeting will be held at 2:00P.M. on July 28, 1984. Picnic or meeting...we'll let you know.

EXECUTIVE NOTES - NORTHCOAST

Thanks go out to Joe Corbett for his fine presentation on TI-Forth. Those present at the June 23rd meeting were treated to a taste of the structure and capability of the language. Thanks also to Don Schmidt of Compro Systems for his demo of Disk Fixer and for contributing a cassette based game as a door prize. In all, three door prizes were given away in our second drawing. In addition, a BLASTO(tm) module and a pack of ten diskettes were given away by the club.

Next month, John Wardrop will demonstrate the Personal Record Keeping(tm) module, showing how to set up files. Afterward, there will be a presentation of Personal Report Generator for those interested.

There will be a programming and debugging session 1/2 hour before the next meeting for those with questions and problems with writing a program or running a program. If there is much interest we may increase the time given to this session.

We will have information available at the next meeting on how to convert your modem into an auto-answer/auto-dial modem. Plans are in the making to operate a Bulletin Board(BBS) within the next month. Details will be available at the July meeting.

The picnic has been postponed until August 25, at which time it will take the place of the regular meeting. We encourage everyone to attend that can and to bring your families. This will be an opportunity to get to know each other better outside of a formal meeting. Plans are not finalized, but details will be available in the next newsletter. It will be a pot luck type picnic, with the club providing the beverage. If you plan to attend, be sure to sign up at the next meeting and indicate what type of dish you will bring, otherwise, call my wife, Kathy, with the info.

NEXT MEETING:

JULY 28, 1984

WHERE -- EUCLIDIAN ROOM, EUCLID SQUARE MALL

1:00 PM -- PROGRAMMING SESSION

1:30 PM -- REGULAR MEETING

JIM CLINE - PRESIDENT

POSTAL SCALE

The following program was adapted from a program found in Peanut magazine written for the PC jr. The program will calculate the postage needed to mail a letter based on the type of paper used, the number of sheets and the type of envelope used. The program will run BASIC or X-BASIC.

```
10 CALL CLEAR
20 PRINT TAB(8);"POSTAL SCALE"
30 PRINT :::::::::::
40 FOR D=1 TO 1000
50 NEXT D
60 CALL CLEAR
70 PRINT TAB(8);"BOND WEIGHT"::::::::::::
80 PRINT TAB(5);"1.- 16 # PAPER":::::
90 PRINT TAB(5);"2.- 20 # PAPER":::::
100 INPUT "<ENTER>1 OR 2-":BOND
110 IF (BOND<1)+(BOND>2)THEN 60
120 IF BOND=1 THEN 150
130 WT=.16
140 GOTO 160
150 WT=.128
160 CALL CLEAR
170 PRINT TAB(5);"HOW MANY SHEETS MAILED":::::
180 INPUT N
190 WT=N*WT
200 CALL CLEAR
210 PRINT TAB(8);"MAILER SIZE"::::::::::::
220 PRINT TAB(5);"1. BUSINESS SIZE":::::
230 PRINT TAB(5);"2. MANILA ENVELOPE":::::
240 INPUT "<ENTER>1 OR 2":ENV
250 IF (ENV<1)+(ENV>2) THEN 200
260 CALL CLEAR
270 IF ENV=1 THEN 300
280 EW=1
290 GOTO 310
300 EW=.16
310 WT=WT+EW
320 IF WT=INT(WT) THEN 340
330 WT=INT(WT)+1
340 ST=((WT-1)*.17)+.2
350 PRINT TAB(5);"POSTAGE DUE";ST:::::
360 PRINT "PRESS 'C' FOR ANOTHER"
370 PRINT "CALCULATION OR 'Q' TO QUIT"
380 INPUT A$
390 IF A$="C" THEN 10
400 END
```

JON LUCAS

SPECIAL ON DISK DRIVES

TEAC 1/2 height Drives: Club Price
for a limited time only:
SSDD \$125.00 each
DSDD \$180.00 each
Full one year warranty!

Y-cable for Power supply hook up for
second drive — \$7.00

Cor-Comp Disk Controller Card - DSDL
\$180.00

Contact JIM CLINE — 261-2463

EXECUTIVE NOTES - NORTH ROYALTON

On Saturday, June 16, 1984 the North Royalton User's Group conducted its monthly meeting.

Chairperson, Barbara Hegele, announced that the Library Committee is preparing rules for borrowing of club materials. Members will be notified once definite guidelines have been determined. Members can also anticipate individual copies of the Library's tape catalogue.

Membership Committee Chairperson, Jan Domzal, reminded members who are moving to notify her as soon as possible with a change of address to ensure uninterrupted delivery of our newsletter. Membership rolls have climbed to a healthy 35! A hearty welcome is extended to our two newest members, Rolando Balbo and M. Smolarcik.

Thanks to the financial wizardry of our Treasurer, Joe Lorenz, the club reports a hefty bank balance in the double digits! Interested members may contact Joe at 842-3476 for a copy of the latest Treasury Report.

The Education Committee reviewed three basic but essential programming commands, "Go To", "Go Sub", and "If-Then-Else" statements. In an effort to assess the group's educational needs, members were given a questionnaire to complete and return by the next meeting. Since this will assist the committee in tailoring presentations for the group, your cooperation is needed. Frustrated with "de bugs" in your programs? Help is on the way! Contact Rick Polivka at 238-3971 to arrange a general debugging session either before or after the regular meeting.

Dirty heads? Never fear! Teresa Leaders of Dak Supply has the answer. Teresa treated the group to an interesting display of computer supplies which included Data-life disk drive cleaning apparatus, as well as, antiglare devices, grounding devices, and Unicopy diskettes.

Don Schmidt of Compro Systems led members on an adventure into the land of Zork. Don demonstrated additional simulation game software which Compro has available and informed the group that the company is authorized to repair disk drives.

For further information on product lines or catalogues, call Teresa at 238-0102 or Don at either 237-8887 or 225-2340.

So far, "Bad Habits", "De Bugs", and "T.I. Team" are the entries in the Name-the-Club Contest. Members who feel they may have a name which better suits the club are hereby challenged! Entries should be submitted to Bernie Gallagher at 351-1265 by July 20, 1984. Members will vote on a name at the July meeting. The grand prize will be a cassette program of your very own!

What's more fun than programming in Extended Basic? Why the club's next meeting of course! For details of the First Annual Picnic planned for Saturday, August 18, 1984 and much, much more, plan to attend! See you Saturday, July 21, 1984 at 10:00 am. in the North Royalton Public Library.

Bargain Corner

For Sale: One TI modem less power supply, asking price - \$50.00
One WICO joystick, asking price - \$10.00
contact John McCoy at 234-2597

One Speech Editor (software), asking price - \$10.00
contact Ed Kennelly at 252-0621 after 2:00 pm.

CLEVELAND AREA 99/4A USERS GROUP

GUIDELINES FOR OBTAINING PROGRAMS FROM DISK LIBRARY

1. Disks requested and supplied by the group will cost \$3.00 per disk in advance of the creation of the disk.
2. Disks supplied by the member will be copied at a \$1.00 charge if the following rules are followed:

Disks should be initialized whenever possible.

Written information accompanying the request must state the names of the programs, the CLEVELAND GROUP master disk upon which the program resides, whether drive is single or double-sided, name and phone number of requester.

If mailers are supplied in order to receive completed disks in the mail rather than waiting for the next meeting, postage must also be supplied.

No more than 2 master source disks can be requested per disk.

3. If you wish to request programs from more than 2 Cleveland master disks, the following additional charges will be in effect, the money to be contributed to the Group Treasury earmarked for purchases of library materials.

3 Source disks per disk	\$.50
4 Source disks per disk	.75
5 Source disks per disk	1.00
Each additional source disk	.25 each

4. Individuals should try to request no more than 2 disks per month, unless an unusual situation arises.
5. Any questions or situations not covered by these guidelines should be directed to:

Susan Weiser 248-5530 or 292-8664 (Answering Service)

THANK YOU FOR YOUR COOPERATION!

NOTE: You may notice an addition of a \$1.00 charge to the cost of preparing each disk. The reason is due to a consensus of opinion of the Solon Group that there should be some compensation for equipment maintenance.

\$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$

CONTEST WINNERS:

Winners of the First Original Programming Contest of the Solon Chapter of the Cleveland Area Groups were:

FIRST PRIZE: Bill Shannon -- Mileage Analysis
SECOND PRIZE: Mike Bakonyi -- Kingdom

Programs are available in the Disk Master Library!

A REVIEW OF A PRINTER SYSTEM USING THE AXIOM PRINTER INTERFACE

I have had a TI 99/4A system for a year and a half. Last October I was about to invest in the peripheral expansion system, when TI made the "big announcement". As time went on I determined that the TI was not a system that I wanted to sink another \$600 or so (not including a printer) into. I also determined that I was not ready to make a decision as to another machine. However, I knew that I BADLY wanted a printer and decided that I could get along with 16K and cassette storage. The problem then became finding a reasonably priced printer interface.

It did not take me very long to determine that Star Microelectronics Gemini 10X was the printer that I wanted. It seemed to be the best combination of price and performance and is compatible with just about any computer on the market. The correspondence quality dot matrix print is exceptional for a \$300 printer, and the 120 cps speed is fast for a printer in this price range.

I had been following the situation relative to TI printer interfaces for several months. The Axiom Parallax seemed to be just what I was looking for. It is a very compact "black box" (about 6"x4") which plugs into the right side of the 99/4A (or speech synthesizer). It comes with its own power source and cable. The cable is only 3 feet long. This creates a tight fit, but I managed O.K. The Axiom can be connected to the Peripheral Expansion System (would replace RS-232 Card) but you cannot run a modem off of this interface. So far the interface has worked flawlessly. The price is about \$100.

One other thing that I considered a necessity was a word processing program. I had read good things about TYPWRITER by Extended Software Co. This program was available in cassette and required only 16K. It is written in Extended Basic (which I already had). For \$30, it is a good value. This article is written using TYPWRITER.

TYPWRITER is fairly easy to use and provides the basic functions needed to write letters and short reports. The manual is well done (and only 24 pages long). The program is menu driven and uses codes beginning with @. The short line length (28 characters) takes some getting used to. The system limits the user to about 600 words, but short documents can be strung together. Saving and retrieving documents has been problem free.

This printer system also works very well with the PERSONAL RECORD KEEPING cartridge. You can print an entire "page" on one line (subject to the 80 character limit). You can designate only those items you want to print and print them in any order. The printer has increased the usefulness of this cartridge considerably.

I am very pleased with this system. For \$130 (plus the printer which can be used with whatever computer I might buy up the road) I have transformed my TI 99/4A into a very useful system. If anyone would like further information feel free to call me at 888-3051.

Tony Kozak (North Royalton chapter)

TEII ASCII FILE TRANSFER INFO (PART 1)

The following tutorial Downloaded from the Atlanta, Ga #1 TIBBS(tm) Bulletin Board run by Ralph Fowler. This was originally written to be placed on the Source.

Here are some answers to your questions about downloading text from BBS's to your TI-99/4a. Also, I'll pass along a short Extended Basic utility program called CHANGE, which can be used with the TI-WRITER word processor and Terminal Emulator II (we call it TEII for short) to upload messages written with TI-WRITER to a TIBBS (tm) System, as well as Source's or POST.

First, TEII. It allows you to copy a "page" of data to another port or device using the Control-2 command. Remember that a page can either be from 34 to 40 character wide, or 80 characters wide, although you can see only a 40-character "window" in that mode. If you are copying to a disk drive, you have to leave TEII with the Control-Zero command, or your file is lost. (More experienced TI users will know there are a couple of ways to retrieve this data, but that's for another story.)

TEII files are saved on disk in Display/Fixed 80 or Display Variable 80 format. These files can be directly loaded into TI-WRITER (on which this is being written) and edited from there. TI-WRITER saves files in Display/Variable 80 format. And, TEII's "auto-logon" function accepts files in Display/Variable 80 format. Put these together, and you have the combination that will allow you to upload a text file using the two programs.

Page 28 of the TEII manual has an odd explanation about hex bytes and so forth. Forget that. Here's what you need in a TEII logon file:

--In front of each line of data, you need to stick the character "1".

--Then, if you want to delay sending the next line, put in a line that is made of the character "2", and another character that tells TEII how long the delay should be. (This next part gets a little complicated.) The module figures the delay by dividing by 60 the ASCII number of the character that follows the "2". For example, a small "x" has an ASCII number of 120, so TEII will wait for two seconds before it feeds the next line of text.

CONTINUED ON NEXT PAGE

Now, here's the listing of the CHANGE program, written in Extended Basic, to be used with TI-WRITER:

```
100 CALL CLEAR
120 INPUT "Name of file to be          converted: ":F$
140 OPEN #2:"DSK1."&F$&"C"
160 OPEN #1:"DSK1."&F$,INPUT ,DISPLAY ,VARIABLE 80
180 PRINT "Converting line number ";
200 X=1
220 LINPUT #1:A$
240 IF EOF(1)=1 THEN 380
260 A$="1"&A$&CHR$(13)
280 PRINT X;
300 PRINT #2:A$
320 PRINT #2:"2"&CHR$(120)
340 X=X+1
360 GOTO 220
380 CLOSE #1
400 CLOSE #2
420 PRINT "Conversion complete"
440 END
```

Here's the explanation of the CHANGE listing:

LINE 120 prompts the user to type in the name of the file (minus the "DSK1." the computer needs.) The space is because of the 28-column TI format.

LINE 140 opens the duplicate file, with the first filename, plus a "C".

LINE 160 opens the original text file.

LINE 180 lets you know the file was found.

LINE 200 sets up a variable for the line count to be shown on the screen.

LINE 220 gets each line of the text file. "LINPUT" exists only in Extended Basic. Standard "INPUT" ends the line when a comma is found.

LINE 240 tells the program when to end.

LINE 260 changes the text line so it can be read by TEII, adding the "1" at the beginning. At the end, "CHR\$(13)" is a carriage return character, needed so the remote system will know the end of the line has been reached.

LINE 280 prints the number of the line being processed on the screen.

LINE 300 stores the converted text line in the duplicate disk file.

LINE 320 places the characters "2x" in the duplicate file. "2" tells TEII to wait, and "x" tells it to wait for two seconds.

LINE 340 increments the line count, and LINE 360 sends the program to the line to check if the end of the original file has been reached.

LINE 380 and LINE 400 close the disk files.

LINE 420 tells the user the duplicate file has been finished.

Look for PART 2 in next month's Newsletter on how to put this all together.

-Jim Cline-

LL BADER

Bill Bader is sharing an original program with all our members this month. Hope you enjoy it. You may key it in if you wish or we will make it available thru the club library. Thanks Bill!!

If any other member who has developed programs they would like to share, please let us know. That is what this Club is all about.

FILE-ALPHABETIZE-STORE DATA

This program uses only the TI/99 console, cassette recorder & viewer. Put the data in on "New Entries" and it will record on CS1. You can then delete an entry or revise an entry if necessary and it will record the new data. You can put old data in from CS1 by starting with the "Review File" and following directions.

The program is slow with large numbers of entries. Have patience. I suggest, especially if you are new at this that you copy this program from "Hard Copy". It is an excellent learning situation. Be careful of mistakes.

Use this program for Xmas card list, birthday list, phone & address list & a multitude of things if they are under 90 characters.

BILL BADER * 4543 EAST LAKE ROAD * SHEFFIELD LAKE, OHIO * 44054 * PHONE 216-949-5967

NOTE: Due to necessity to conserve space in the Newsletter, the listing will not be printed, however each group will have a copy of it and will make it available to you for the asking.

BULK ORDER DISKETTES

We were able to bulk order generic Wabash diskettes at an excellent price recently. The diskettes were received promptly, had all the required accoutrements (labels, envelopes, etc.) and no complaints on their quality have been voiced. For those who would like to participate in our next bulk order from any of the 4 groups, give your name to your group president with the number of disks you will want to order. When we have enough people interested again, we will let you know to send us the checks.

MICROPENDIUM

The "other" T.I. Magazine had a loader program featured this month that was sent in by our Cleveland Group. This program is available to our members who have disk drives. It is a super loader and really works great. Members who are interested may pick up a copy at RAM Enterprises in Vermilion. The RAM telephone number is 967-1317 / 5-7PM weekdays. A copy is also available thru EDU-Comp of North Ridgeville. Their telephone number is 327-6579. Judy Thalner tells me EDU-Comp will also carry Miller Graphics Newsletter "Smart Programmer", which will be available for \$1.50. Both stores carry a complete line of adventure games. If you have not played Zork yet, you're missing a lot life has to offer.

ADVENTURE SIG ANYONE?

There are a number of adventure fans in our group. Is anyone out there interested in starting an Adventure Sig? If so, call Chuck Mareno at 324-4388 and let him know.

*** MASTER DISK FILE ***

PROGRAMS

NORTHCOAST ADDITIONS -- MAY

FILENAME	SIZE	TYPE	P	DISKNAME	FILENAME	SIZE	TYPE	P	DISKNAME
24HOUR/X	18	PROGRAM	15	NCLIB/ADDS	AAIRCRAFT	26	PROGRAM	16	NCLIB/ADD2:
ACEY/DUCEY	36	PROGRAM	16	NCLIB/ADD2	ALIEN/X	22	PROGRAM	15	NCLIB/ADDS:
AMERICANSX	20	PROGRAM	20	NCLIB/ADD3	ANIMALS/X	20	PROGRAM	20	NCLIB/ADD3:
ART/WRIT/X	20	PROGRAM	20	NCLIB/ADD3	ASPIC	45	PROGRAM	20	NCLIB/ADD2:
ASTROTERM	20	PROGRAM	20	NCLIB/ADD3	AT/RACES/X	24	PROGRAM	17	NCLIB/ADD3:
AWARI	30	PROGRAM	14	NCLIB/ADD3	BABY/BOOMX	15	PROGRAM	15	NCLIB/ADDS:
BATTLE@SEA	45	PROGRAM	16	NCLIB/ADD2	BATTLSTARX	21	PROGRAM	17	NCLIB/ADD2:
BELL/LEM	41	PROGRAM	14	NCLIB/ADDS	CHKBAL	11	PROGRAM	18	NCLIB/ADD2:
CHUCKALUCK	26	PROGRAM	16	NCLIB/ADD2	CIRCUITS	5	PROGRAM	20	NCLIB/ADD2:
CLONES	40	PROGRAM	14	NCLIB/ADD3	COMFIGHT/J	42	PROGRAM	16	NCLIB/ADD3:
CONVERSII	39	PROGRAM	10	NCLIB/ADD2	COOTIEII/X	47	PROGRAM	15	NCLIB/ADDS:
COUNTING	31	PROGRAM	20	NCLIB/ADD3	CROSSWORDX	42	PROGRAM	17	NCLIB/ADD3:
CURRENCY/X	19	PROGRAM	20	NCLIB/ADD3	D/OHELL/X	40	PROGRAM	15	NCLIB/ADDS:
DRAWPOKERX	36	PROGRAM	17	NCLIB/ADD2	EDDY/CLOWN	38	PROGRAM	10	NCLIB/ADDS:
ELECTRONIC	27	PROGRAM	20	NCLIB/ADD2	ELECTSOLVE	19	PROGRAM	10	NCLIB/ADD2:
EXPJOUR/XM	53	INT/VAR	254/18	NCLIB/ADDS	FISHES/X	20	PROGRAM	20	NCLIB/ADD3:
FLASH	15	PROGRAM	14	NCLIB/ADDS	FORCE1/X	32	PROGRAM	17	NCLIB/ADD2:
FORMSGEN	28	PROGRAM	6	NCLIB/ADDS	FRUIT/VEGX	20	PROGRAM	20	NCLIB/ADD3:
GHOSTCHS/J	15	PROGRAM	14	NCLIB/ADDS	HANDROID/X	19	PROGRAM	17	NCLIB/ADD4:
RESPLT/X	7	PROGRAM	19	NCLIB/ADD2	INVESTORXM	55	INT/VAR	254/18	NCLIB/ADDS:
JACKPOT/X	39	PROGRAM	15	NCLIB/ADDS	JOURNAL/X	13	PROGRAM	19	NCLIB/ADD2:
KISMET/X	36	PROGRAM	15	NCLIB/ADDS	LASVEGAS/X	33	PROGRAM	17	NCLIB/ADD4:
LET/NUMB/X	30	PROGRAM	10	NCLIB/ADDS	LETWRITERX	45	PROGRAM	19	NCLIB/ADDS:
LIFETITANX	29	PROGRAM	17	NCLIB/ADD4	LOAN/CALC	4	PROGRAM	18	NCLIB/ADD2:
MATCHEM/X	14	PROGRAM	15	NCLIB/ADDS	MATHTALKTS	43	PROGRAM	10	NCLIB/ADD2:
MAZE	47	PROGRAM	16	NCLIB/ADD3	MEDRESPL/X	7	PROGRAM	17	NCLIB/ADD2:
MEMCHIPXMC	46	PROGRAM	17	NCLIB/ADD3	MEMFUN/X	37	PROGRAM	15	NCLIB/ADDS:
METRC/CONX	12	PROGRAM	10	NCLIB/ADD2	METRIC/CON	25	PROGRAM	10	NCLIB/ADDS:
MISSNSTR/X	40	PROGRAM	17	NCLIB/ADD4	MLIST	45	PROGRAM	19	NCLIB/ADD2:
MLIST/CND	18	PROGRAM	19	NCLIB/ADD2	MLIST/INT	10	PROGRAM	19	NCLIB/ADD2:
MLIST/RPT	33	PROGRAM	19	NCLIB/ADD2	MLIST/SCH	12	PROGRAM	19	NCLIB/ADD2:
MLIST/SRT	12	PROGRAM	19	NCLIB/ADD2	MOV/NUMB/J	13	PROGRAM	14	NCLIB/ADD3:
MY/BANK/X	31	PROGRAM	18	NCLIB/ADD2	MYTHOLOGYX	20	PROGRAM	20	NCLIB/ADD4:
NICKNAMESX	19	PROGRAM	20	NCLIB/ADD4	NITEBLOCK	42	PROGRAM	14	NCLIB/ADD4:
OH/HELL/XM	45	PROGRAM	17	NCLIB/ADD3	PORT/ANALX	13	PROGRAM	18	NCLIB/ADDS:
PORTFOLIO	40	PROGRAM	3	NCLIB/ADDS	PROFTEAMSX	20	PROGRAM	20	NCLIB/ADD4:
RAFFL/TICK	19	PROGRAM	19	NCLIB/ADDS	RIV/LAKESX	20	PROGRAM	20	NCLIB/ADD4:
ROCKSGEMX	19	PROGRAM	20	NCLIB/ADD4	ROULETTE	26	PROGRAM	16	NCLIB/ADD2:
RULEOF78	24	PROGRAM	18	NCLIB/ADD3	SCIOTDOWNX	42	PROGRAM	17	NCLIB/ADD2:
SNACMAN/XJ	14	PROGRAM	17	NCLIB/ADD3	SPACE/STA	29	PROGRAM	14	NCLIB/ADD3:
SPACEATT	27	PROGRAM	14	NCLIB/ADD4	SPRITCHS/X	9	PROGRAM	17	NCLIB/ADD3:
SPRITER/X	22	PROGRAM	19	NCLIB/ADD3	STOCKSTATX	12	PROGRAM	18	NCLIB/ADDS:
STUMPER/TS	25	PROGRAM	20	NCLIB/ADD2	TEMP/CON	8	PROGRAM	20	NCLIB/ADD2:
TI/PRINT/C	52	PROGRAM	19	NCLIB/ADD4	TYPING	25	PROGRAM	20	NCLIB/ADD3:
WASHXJS	21	PROGRAM	17	NCLIB/ADD4	WORLDLDRSX	20	PROGRAM	20	NCLIB/ADD4:

TOTALS: 4 DISKS. 90 PROGRAMS

CLEVELAND AREA 99/4A USERS GROUPS
P.O. BOX 391101
SOLON, OH 44139

Hanson Cab 1801s
U.S.A. 100



03/85

!!TIME DATED MATERIAL!!