

New Hampshire 99'ers

NOVEMBER 1988

Newsletter VOL.4 No.11

NH99UG NEWSLETTER - POB 5991 - MANCHESTER, NH 03108

>OLD

November's meeting was (supposed to be) devoted to PRBASE's printing routines. As those of you present may remember - it was a fiasco. Why is it that everything works at home late at night, but nothing ever works at club meetings?

There were other demo's as well, particularly involving the New Horizon RAM disk. What a work of art that thing is! If you don't have one, I recommend you put it on your gift list for this holiday season.

>NEW

Speaking of gifts, December's meeting may see someone go home with a peripheral expansion box. Several months ago, Andre' Roy was kind enough to donate a large amount of equipment to the club. Among other things was a PEB in excellent condition. Therefore, we will shortly hold a

RAFFLE!

This peripheral expansion box is being raffled off at \$2.00 a ticket (3 for \$5.00). Since the object of a raffle is to raise money, we are putting an additional stipulation on this drawing - the raffle will not be held until a minimum of \$100 worth of tickets has been sold.

In the past, we have sometimes raffled off items and received less from the ticket sales than the item cost us to purchase! Come on members! We all know someone with a TI who needs an expansion box (or would like an extra). As to where the raffle money goes, don't forget that we still have not completed our club system - we need a monitor (monochrome or color - we're not picky!) - and the treasury is not exactly overflowing.

NOTE! YOU MAY PURCHASE TICKETS BY MAIL OR PHONE FROM:

Dick Guindy
15 Sioux Avenue
Nashua, NH 03063
(603) 889-8339

GENEVE

J. Peter Hoddie of the Boston Computer Society will be visiting us at January's meeting. Peter is an excellent programmer in (at least) XBASIC and Assembly. As such, he is one of the privileged few asked to work on MYARC's new computer - GENEVE. He will bring this marvelous machine with him and show us exactly what it can do. If you could only make one meeting a year - January is the one!

While I'm on the subject of club equipment, please note that what we do have is available for loan between meetings. This includes not only the club hardware, but also our firmware and software. I will put together a list of what we own for the next newsletter.

Another item I would like to put in the next newsletter is a list of club members with names, addresses, and phone numbers. This list would not go to other clubs with whom we exchange - only NH99er's would get the list. If you don't want your name on the list, please mail a note to the club P.O. Box saying so.

OTHER CLUBS

I just received a call from someone named Mike Goldsmith. It seems that Manchester recently (last April) opened a museum (of technology?) and they would be happy to let user groups meet there on weekends. If you know of any computer groups looking for a place to meet, have them call Mike at 624-8858.

Finally, we need to think about participation in upcoming fairs. There will be several fairs in the next few months. These fairs are not in our own backyard, but they are close enough for us to be active in them. We need to be more visible - we have an excellent club but few people know about it! If you know someone with a TI, please let them know what we're all about.

I just had a scary thought - what if we organized our

FOR SALE!

From:
Edward Aho
P.O. Box 145
Temple Road
New Ipswich, NH 03071
(603) 878-3098

1. 99/4A console (black/silver)
2. Panasonic dual mode color monitor
3. TI modem (acoustic) 300 baud
4. GRAPHX software (Editor-Assembler)
5. Utilities I (From Republic)
6. GAMES:
TI INVADERS
PARSEC
HUSTLE
CONNECT FOUR
TOMBSTONE CITY
BLAST
CAR WARS
ZERO ZAP

From:
Ralph King
RFD6 -Cotton Hill Road
Laconia, NH 03246
(603) 528-3188 (evenings)

Complete TI expansion system including FEB, memory expansion, drive controller, drive, R8232, and impact printer.

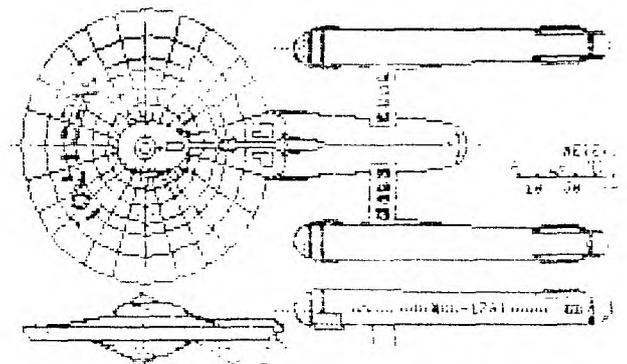
NASHUA
5.25" DSDD DISKETTES
\$7.75

per box of 10 w/ WP tabs & Envelops

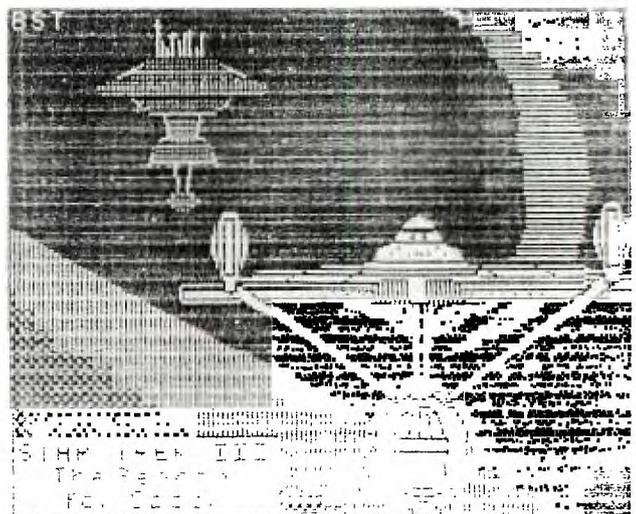
ORDER	GLP/MPS 803.....	\$3.00 ea
	EPSON MX/RX/FX70,80	
	TI IMPACT.....	\$5.00 ea
	OKIDATA / STAR MICRONICS	
	80,82,83 / 50,56,5R 10 & 15	
	92 & 93 / 6000 10 & 15	\$2.50 ea
	CENTRONICS 700 (ZIP PACK)	
	QUANTEL 5003 & 5004	
	TANDY LP L & IV	\$2.00 ea
	EPSON LX80 & LX90	
HOMEBRITER 10	\$5.00 ea	
LABELS & YP TABS.....\$100 ea		
PKG OF 24 LABELS/20 YPT		
<hr/>		
TI99/4A		
SINGLE CASSETTE CABLE	\$3.00 ea	

These are Cash & Carry prices!
Add \$2 per Mail Order

NH99UG MARKETPLACE
POB 5991
MANCHESTER, NH 03108



U.S.S. ENTERPRISE
Star Trek
JFR 8516.5
75266,163
CONSTITUTION CLASS STARSHIP
CLASS I HEAVY CRUISER
NCC-1701



RANDOM RAMBLINGS

<ENTER> or Command: GOTO 150

[You may go directly to the TI SIG by typing <TI> at this prompt]

Progressive Connection Page 150
<Enter> for next Menu.

Special Interest GROUPS

1. COLOR COMPUTER GROUP
2. APPLE GROUP
3. COMMODORE 64 GROUP
4. COMMODORE 128 GROUP
5. TRS MODEL 3/4 GROUP
6. ATARI GROUP
7. TEXAS INSTRUMENTS GROUP
8. THE SYSOP GROUP

Key in your choice or
<Enter> or Command: 7

Progressive Connection Page 148

TEXAS INSTRUMENTS MENU

Curtis Provance 10121

0. TI Exit
1. TI News
2. TI Reviews
3. TI Workshops
4. TI Events
5. TI Clues
6. TI Library
7. TI Forum
8. TI Visitors Log
9. New since last here
10. Write to User FORUM

Key in your choice: 9
Checking file, please stand by.
.....

TI Forum

156 Thanks Helene!

From user 10101 on 9/24/86

I just want to thank Helene (# 10068) for the information about the software and accessory clearances in Nashua and Keene...be a good thing to check out! Thanks again, Helene, for letting us know! Regards, Rob Bahder

[TO LOG OFF THE SYSTEM TYPE <OFF> AT ANY PROMPT!]

It's that time again... these months are surely rolling around awfully fast! I have included the preceeding "Log-on Sampler" as an adjunct to this month's feature demonstration for all of you who are unable to attend the Monday December 1st meeting. As you may have noticed, our own Curtis Provance serves as manager of the T199/4a S(pécial) I(nterest) G(roup). Curtis' user # is 10121 and mine is 10068. You need these numbers if you wish to leave us E-mail on the PROGRESSIVE CONNECTION.

RE: PRINTERS... The Fasttext-80 saga, related to you a few months ago, has ended on a happy note when we found a program that was printed in the WEST JAX NEWSLETTER which helped the FASTEXT owner to understand the printer codes. This printer, as you will recall, required a special cable that included a chip which inverted the Strobe signal. There were several obstacles to hurdle in order to isolate the problems, but all have been rectified to the satisfaction of the owner. By the way, it was only due to the perseverance of the club, club members and Wayne Kay of the Delaware Valley UG that the FASTEXT wasn't trashed.

BETTER LATE THAN NEVER... A representative of Star Micronics called me last week relative to the problem which I was experiencing with my SG-15. It seemed to have a slight adjustment problem which I "sort-of" fixed myself, but wrote to Star because the printer was still under warranty. Unfortunately, the address which I had used was no longer current and it took some time to forward it to the appropriate address. The rep called a local Star Service Center in Amherst to confirm that they would assume the cost of repair. I'm dropping it off Monday (11/24) and will have a "review" next month.

I also own a Star LV1210, a budget model which my firm sells for \$189 (it was used to print this column). Enclosed with its manual was a flyer from HONEYWELL which describes their "TotalCare Third-Party Service for Star Micronics". Great, but the nearest service center was in Newton MA... Hope the firm in Amherst works out! By the way, the LV1210 is touted as IBM compatible and was tested on an IBM clone, T1994A, Tandy Color Computer, and C64/C128... there were NO interfacing problems with any of these machines.

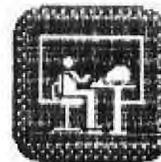
The owner of a new Star NL-101(BM) called recently with what seemed to be a dead printer. Newly unpacked and set up, it wouldn't even respond to the self-test... seems the cover MUST be in place to work!

HAC LABS has acquired two additional Centronics GLP (Epson MX compatible) printers for resale. For \$125 you get the GLP-3 (serial & parallel output), tractor feed attachment, and TI parallel cable shipped C.O.D. to you anywhere in the continental U.S.A. Call for further info.

***** HELP *****

Anyone know how to contact Buzz (Albert) Wentz of Sunapee? I need to speak with him ASAP. His PO Box in Newport has been closed and envelopes mailed to Dartmouth College (where he supposedly taught) have been returned. His phone # 603/763-9302 is a working number which hasn't "worked" for the last month.

United Parcel Service has opened a branch office at 8 Roosevelt Drive in Hudson. It is located in the former Scottie Shoe Bldg and the hours are between 11:00 AM and 6:30 PM, weekdays.



HAC LABS LTD.
Helene M. LaBonville
121 Camelot Drive RFD5
Bedford, NH 03102
603/472-3369

Have you noticed that there is an average of one article/note/letter from of our NH99UG members per month in Micropendium? The November issue features a WORDCOUNT program by our own Jim Jagielski of Sanbornville. Thanks for the reference to the club, Jim! FYI, this program is in the club library... please contact Richard Bailey for a copy (603/332-7855). Jim, as you may recall, has authored several fine FORTH articles which have appeared in the NH99UG newsletter. He has also been "drawing up a storm" with GRAPHX and his GLP.

According to a NEWSBYTE in Micropendium, TexComp, "by special arrangement with the Australian manufacturer", is selling an upgrade to GRAPHX which "greatly increases the flexibility and capability" of the product. The upgrade includes a new high speed loader and a new Flip and rotate command. Current GRAPHX owners can obtain this upgrade with docs by sending the original disk (only) and \$5 to TexComp, POB 33084, Granada Hills, CA 91344. I'd be quite nervous to send off the original without first reading more about it, or AT LEAST insuring your package for full value!

53 10/ 2/86 Not Yet Approved
End of Listing.
Progressive Connection Page 129

Welcome to the Bulletin Board.
Please enter your choice:

0. Exit Bulletin Board
1. Scan subjects
2. Word search
3. Read bulletins
4. Insert bulletin
5. New since last call

Key in your choice:
0
Progressive Connection Page 124
<Enter> for next Menu.

1. Downloading
2. Uploading
3. User's Telephone Numbers
4. Bulletin Board
5. Electronic Mail
6. Stock Market Section *
7. Magazines Index

* Means Sysop needed
Key in your choice or
<Enter> or Command:
(11 min left)
1
Progressive Connection Page 122
NOTICE: The SYSOP assumes no
responsibility for any files
contained here.
Press <Return> to continue
Progressive Connection Page 122

Download Menu

- *. ASCII xfer mode ON
0. Exit to previous menu
1. Search list by computer type
2. Search list by program type
3. Search list by both of above
4. View entire program list
5. Download entire program list
6. Download a specific program
7. What's new since last call

Your Choice: *

XMODEM transfer mode is now on
Progressive Connection Page 122

Download Menu

- *. XMODEM xfer mode ON
0. Exit to previous menu
1. Search list by computer type
2. Search list by program type
3. Search list by both of above
4. View entire program list
5. Download entire program list
6. Download a specific program
7. What's new since last call

Your Choice: 1

*You will now be able to search
the Download area for just T I
programs*

*****TRY IT!*****

*When finished choose 0 to
Exit this area then:

Key in your choice or
<Enter> or Command:
(10 min left)
GOTO110

Progressive Connection Page 110
<Enter> for next Menu.

1. Sponsor Information
2. Edit your user data
3. Edit your password
4. Index Pages
5. Command Explanation
6. Sponsor List
7. Housekeeping
8. Open FORUM & Reports

Key in your choice or
<Enter> or Command: 1

Progressive Connection Page 128
The Progressive Connection is
toll free from Concord to Salem
and online for your convenience
24 hours per day. Because of
the cost of the phone lines and
electricity, we ask a yearly
DONATION of \$24.00. As a Users
Group this is how we pay the
the bills, and get thing done.
Correspondence and donations
should be done through the fol-
owing mailing address:
The Progressive Connection
X Fritz Muller

Riverview Park
Manchester, NH
03102

<Enter> or Command: <ENTER>

Progressive Connection Page 110
<Enter> for next Menu.

1. Sponsor Information
2. Edit your user data
3. Edit your password
4. Index Pages
5. Command Explanation
6. Sponsor List
7. Housekeeping
8. Open FORUM & Reports

Key in your choice or
<Enter> or Command: 5

Progressive Connection Page 101
++*+* Command Summary *+*+*+*

TOP Display the first page of
ProgressConnection INDEX.

BACK Display the previous page

HELP Get these pages. Note the
system operator will be
happy to help if called
using chat command

AGAIN Resend the current page

GOTD Go directly to page (xxx)

xxx must be 3 nbrs ie;GOTD123

NEXT Go to next logical page
NEXT is the default when
only <Return> is received

OFF Legal and graceful exit

CHAT Call or chat with system
operator (if available)

DUPLEX Change your duplex from
full to half or half to
full; toggles the duplex

LDGON Exit system and call back
in without making the 2nd
telephone call

SAMPLE "NEW USER" LOGON TO PROGRESSIVE CONNECTION

300 Baud Connect
Please Stand By.

THE PROGRESSIVE CONNECTION
644-3507
434-6225
485-4334

Sysop: Fritz Muller, 10001
Riverview Park
Manchester, NH 03102
Voice 603 668-3398

Oct 5, 1986 at 1:58 pm

You are caller number 5,581
If NEW USER type NEW
User #: NEW

Please Stand by.

Please answer the following questions, they are only asked the first time you sign onto The Progressive Connection
What type of terminal/computer are you using? T199/4A
Where did you hear about this BBS?
Helene LaBonville
Can your terminal accept upper and lower case characters? Y
Do you need nulls? N
Are you seeing 2 of each character you type? (Is your terminal half duplex)?
Do you need a linefeed sent after a carriage return? N
Here is a linefeed check-
Line number 1 being sent.
Line number 2 being sent.
Line number 3 being sent.
Line number 4 being sent.
Was this check OK? _

Do you know the decimal values for the sequence of characters required by your terminal which will clear its screen? N
Which of the following would be the best terminal or software description of your system:
1. Color Computer
2. Apple/TeX.Instr./Commodore
3. Model I or III
4. 80 column Video Terminal
5. 80 column hardcopy terminal
6. Model II or IV

7. Atari
8. Adam
9. Osborne
10. Xerox

Which one? 2

This information is STRICTLY confidential, and is not available to any other system user, except where you specifically indicate which information can be publicly accessed.
<Return>

First Name: BILL
Last Name: XXXXX
Your name is Bill XXXXX, correct? Y
Street: 5 XXXXXX STREET
Street address is 5 XXXXXX Street, correct? Y
City: AMHERST
Your city is Amherst, correct? Y
State: NH
Your state is NH, correct? Y
Zip: 03031
Your zip code is 03031, correct? Y
jYou are:
Bill XXXXX
5 XXXXXX Street
Amherst , NH 03031

Is this all correct? Y

Please enter your phone area code and number:
603-673-XXXX
Your phone is (603) 673-XXXX, correct? Y

Would you like your user number, name, and city to appear on the user list? Y

Would you like your phone number to be given to those specifically asking for YOUR phone number?

Would you like to automatically enter EMAIL if you have mail waiting? Y

If you are using terminal software with automatic buffer opening and closing ability, would you like your mail placed in your buffer? _

Enter the password you will use to gain access to this system using up to 8 alphanumeric characters. The characters you type in will not be

seen at your end.
(Enter it AFTER I stop sending characters to you!)

*****MMMMMMMMZZZZZZ
Enter it again to be sure.

*****MMMMMMMMZZZZZZ

If you are not sure of what to do while on line, the "HELP" command may explain your questions. Good luck and hope you enjoy the time spent on the Progressive Connection. Thank you!

Please indicate your preference by selecting ONLY ONE item from each of the two lists which follow.

- SIA LIST
- | | |
|-------------------|---------------------|
| <1> AMATEUR RADIO | <2> THE FUNNY FARM |
| <3> SCIENCE FICT. | <4> MENTALHEALTH |
| <5> DATING | <6> HOROSCOPE |
| <7> ASTRONOMY | <8> GAMES |
| <9> | <10> MUSIC |
| <11> | <12> MAGAZINE INDEX |

- GROUPS LIST
- | | |
|----------------|-----------------|
| <1> ATARI | <2> COCO |
| <3> APPLE | <4> TRS-80-1 |
| <5> TRS-80-3/4 | <6> BUSINESS |
| <7> OSBORNE | <8> TEX. INSTR. |
| <9> SINCLAIR | <10> C-64 |
| <11> C-128 | <12> MS-DOS |
- 8

Writing your user info to disk.
<Return>

Progressive Connection using the following user number:
10XXX

Please remember your user number and password!
<Return>

New Users may logon to the System a maximum of ten times.
Each New User Logon will be limited to 15 minutes duration. We hope you enjoy these logons. If you are looking for a source of Computer information where you can be part of a Comprehensive Group, and more, you have found it!

You may address EMAIL to the
SYSOP, user 10001 if you have
comments or questions.

<Return>

From 10001, Fritz Muller,
The System Operator.

We would like to take this
opportunity to welcome you to
THE PROGRESSIVE CONNECTION.
We hope your visits here will be
pleasurable.

As a New User you may visit these
areas:

- Bulletin Board (BB)
- Classified Ads (CA)
- Upload (UL)
- Download (DL)
- and E-Mail (EM)

Happy Trails.....

Press <ENTER> to continue...

Progressive Connection Page 110
<Enter> for next Menu.

1. Sponsor Information
 2. Edit your user data
 3. Edit your password
 4. Index Pages
 5. Command Explanation
 6. Sponsor List
 7. Housekeeping
 8. Open FORUM & Reports
- Key in your choice or
<Enter> or Command:
(14 min left)

CA

PC-EXTRA!

Welcome to the Classified Ads.

- Please enter your choice:
0. Exit Classified Ad Section
 1. Scan Ad Subjects
 2. Search for Keyword
 3. Read Ads
 4. Insert an Ad
 5. What's new since last call

Key in your choice: 3

This choice allows reading of
the ads. You may leave any
time by typing anything except a
carriage return.

Ads 1 thru 13 in file.

Start at: 13

End at: 13

Number	Dated	Subject
13	9/27/86	FOR SALE
From user 10097		

FOR SALE: OSCILLOSCOPE (VERY
GOOD CONDITION LOTS OF EXTRA'S
ALSO MODEL 1 COMPUTER W/V5100
VOICE SYNTHESIZER. BEST OFFER
EXCEPTED FOR EITHER ONE. GEORGE
PROULX
New User #10097

Press return to continue. <RETURN>

PC-EXTRA!

Welcome to the Classified Ads.

- Please enter your choice:
0. Exit Classified Ad Section
 1. Scan Ad Subjects
 2. Search for Keyword
 3. Read Ads
 4. Insert an Ad
 5. What's new since last call

Key in your choice: 0
Progressive Connection Page 110
<Enter> for next Menu.

1. Sponsor Information
2. Edit your user data
3. Edit your password
4. Index Pages
5. Command Explanation
6. Sponsor List
7. Housekeeping
8. Open FORUM & Reports

Key in your choice or
<Enter> or Command:
(13 min left)
BB
Progressive Connection Page 129

Welcome to the Bulletin Board.
Please enter your choice:

0. Exit Bulletin Board
1. Scan subjects

2. Word search
3. Read bulletins
4. Insert bulletin
5. New since last call

Key in your choice:

3

Progressive Connection Page 129
This choice allows reading of
bulletins. After each prompt
you may type "A" to abort, the
number of the next notice to
read, EDIT to change a bulletin
or type KILL to kill a bulletin
Bulletins 1 thru 53 on file.

Start at: 49

End at: 53

Number	Dated	Subject
49	9/27/86	CoCo POKES DSK

From user 10097 at 19:33

POKE 111,254 GIVES DIR TO PRNTR
COMMAND A=2000:EXEC 44609:DSKI\$
0,0,1,A\$,B\$ RESTORES HEAD TO
TRACK 0 ON DRIVE 0
COMMAND: A=2000:EXEC 44609:
DSKI\$ 1,0,1,A\$,B\$: RESTORES
HEAD TO TRACK 0 ON DRIVE 1

Press return to continue.
(Press A to Abort)
(14 min left)

Number	Dated	Subject
50	9/27/86	Christian BBS

From user 10001 at 22:12

The Narrow Way has decided to
revert back to their old version
Software out of personal
preference. They will soon have
all the message bases back onlin
eso drop in and say hello.

Be Nice! 644-2255

Press return to continue.
(Press A to Abort)
(14 min left)

Number	Dated	Subject
51	9/28/86	Not Yet Approved
Number	Dated	Subject
52	10/ 1/86	Not Yet Approved
Number	Dated	Subject

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TIGERCUB SOFTWARE

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Columbus, OH 43213

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Tips from The Tigercub, a full disk containing the complete contents of this newsletter Nos. 1 through 14, 50 original programs and files, just \$15 postpaid. Tips from the Tigercub Vol. 2, another diskfull, complete contents of Nos. 15 through 24, over 60 files and programs, also just \$15 postpaid.

Tips from the Tigercub #
Vol. 3 is now ready. #
Another 62 programs, #
routines, tips, tricks. #
from Nos. 25 thru 32. #
Also \$15 postpaid. Any #
two Tips disks \$27 or #
all 3 for \$35 postpaid. #

Nuts & Bolts (No. 1), a full disk of 100 Extended Basic utility subprograms in merge format, ready to merge into your own programs. Plus the Tigercub Menuloader, a tutorial on using subprograms,

and 5 pages of documentation with an example of the use of each subprogram. All for just \$19.95 postpaid. Nuts & Bolts No. 2, another full disk of 100 utility subprograms in merge format, all new and fully compatible with the last, and with 10 pages of documentation and examples. Also \$19.95 postpaid, or both Nuts Bolts disks for \$37 postpaid. Tigercub Full Disk Collections, just \$12 postpaid! Each of these contains either 5 or 6 of my regular \$3 catalog programs, and the remaining disk space has been filled with some of the best public domain programs of the same category. I am NOT selling public domain programs - my own programs on these disks are greatly discounted from their usual price, and the public domain is a FREE bonus!

TIGERCUB'S BEST, PROGRAM-TUTOR, PROGRAMMER'S UTILITIES, BRAIN GAMES, BRAIN TEASERS, BRAIN BUSTERS!, MANEUVERING GAMES, ACTION REFLEX AND CONCENTRATION, TWO-PLAYER GAMES, KID'S GAMES, MORE GAMES, WORD GAMES, ELEMENTARY MATH, MIDDLE/HIGH SCHOOL MATH, VOCABULARY AND READING, MUSICAL EDUCATION, KALEIDOSCOPIES AND DISPLAYS

For descriptions of these send a dollar for my catalog!

Answer to last month's challenge - for the longest possible one-liner, run the following "program to write a program" -

```
100 OPEN #1:"DSK1.LONG",VARIABLE 163,OUTPUT
110 FOR J=1 TO 79 :: M$=M$&CHR$(149)&CHR$(130):: NEXT J
:: M$=CHR$(254)&CHR$(254)&M$&CHR$(149)&CHR$(0):: PRINT #1:M$ :: PRINT #1:CHR$(255)&CHR$(255):: CLOSE #1
```

Then enter NEW, then MERGE DSK1.LONG, then LIST - over

34 lines long! But that one doesn't do anything, so try this -

```
100 OPEN #1:"DSK1.LONG",VARIABLE 163,OUTPUT
110 FOR J=1 TO 52 :: M$=M$&CHR$(162)&"X"&CHR$(130):: NEXT J
:: M$=CHR$(254)&CHR$(254)&M$&CHR$(162)&"X"&CHR$(0):: PRINT #1:M$ :: PRINT #1:CHR$(255)&CHR$(255):: CLOSE #1
```

Again enter NEW, and MERGE DSK1.LONG, then RUN. You'll get a message BREAKPOINT IN 32510 (don't ask me why! Can anyone tell me?) but just enter RUN again. Then LIST it - over 24 lines long!

Explanation? Programs are saved in token code similar to MERGE format code. The maximum length of a record is 163 bytes - which is why MERGE files are D/V 163. The token for RANDOMIZE is ASCII 149, for the double colon is 130. Repeating that 79 times takes only 158 bytes, plus one more RANDOMIZE, the two-byte tokenized line number and the mandatory ASCII 0 to end the record, totals 162.

Here's a spooky one for Hallowe'en -

```
100 CALL CLEAR :: CALL MAGNIFY(4):: CALL SCREEN(2) ! The Blob by Jim Peterson
110 CALL CHAR(96,RPT$( "3C7EFFFFFFF7E3C",4)):: J=-1
120 FOR L=1 TO 28 :: CALL SPRITE(#L,96,16,L#4+20,10,0,L+8):: NEXT L
130 FOR L=1 TO 28 :: CALL MOTION(#L,0,L#J):: NEXT L
140 J=J#-1 :: GOTO 130
```

Wes Johnston published an unusual sprite 2-liner in the Charleston Area 99ers newsletter. It is based on a CALL LOAD which freezes all sprite motion until they are turned loose by another CALL LOAD -

```
100 R=PI#2/28 :: CALL CLEAR
:: CALL SCREEN(2):: CALL INT T :: CALL LOAD(-31806,96):: FOR I=1 TO 28 :: CALL SPRITE (#I,46,16,96,128,COS(I#R)#10
```

```
,SIN(I#R)#10):: NEXT I
110 CALL LOAD(-31806,0):: GO TO 110
```

You might like to try adding my "jewels" to that -

```
100 FOR CH=33 TO 60 :: FOR A=1 TO 4 :: X=INT(8#RND+1):: T$=SE6$("18243C425A667E81",X#2-1,2):: A$=A$&T$ :: B$=T$&B$ :: NEXT A :: CALL CHAR(CH,A$&B$):: A$,B$="" :: NEXT CH
```

```
110 R=PI#2/28 :: CALL CLEAR
:: CALL SCREEN(2):: CALL INT T :: CALL LOAD(-31806,96):: FOR I=1 TO 28 :: CALL SPRITE (#I,32+I,INT(14#RND+3),96,128,COS(I#R)#10,SIN(I#R)#10):: NEXT I
120 CALL LOAD(-31806,0):: GO TO 120
```

Also try CALL MAGNIFY(2)

And, here is a companion program to the TAKE AWAY in Tips #35 -

```
100 CALL CLEAR :: CALL TITLE (5,"ADD & CARRY")!by Jim Peterson
110 DISPLAY AT(3,10):"COPYRIGHT":TAB(10):"TIGERCUB SOFTWARE":TAB(10):"FOR FREE":TAB(10):"DISTRIBUTION":TAB(11):"SALE PROHIBITED"
120 CALL PEEK(-28672,A0):: IF A0#0 THEN 160
130 DATA FINE,NO,GOOD,UHDH,RIGHT,TRY AGAIN,YES,THAT IS NOT RIGHT
140 FOR J=1 TO 4 :: READ RIGHT$(J),WRONG$(J):: NEXT J
150 FOR D=1 TO 1000 :: NEXT D :: CALL DELSPRITE(ALL)
160 CALL CLEAR :: CALL CHAR(95,"FFFF"):: CALL MAGNIFY(2):: RANDOMIZE :: CALL SCREEN(14):: FOR SET=5 TO 8 :: CALL COLOR(SET,16,1):: NEXT SET
170 CALL CHAR(120,"E700420018007E0000E700420099423CE700420099423C00E7004218003C4200")
180 CALL CHAR(124,"E00040100070009700020000E01000")
190 DISPLAY AT(3,8):"ADD AND CARRY" :: CALL CHAMELEON
200 CALL COLOR(14,2,2):: CALL LCHAR(4,4,143,2):: CALL LCHAR(5,4,143,2):: CALL SPRITE (#25,120,11,25,25)
```


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```
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*****
```

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The READFILE subprogram on my Nuts & Bolts #2 disk has a backward parentheses in line 21161. This is the corrected line -
21161 DISPLAY AT(17,1):"OPEN PRINTER #": "NAME? " :: ACCEPT AT(17,15)VALIDATE(DIGIT)SIZE(-3):P :: ACCEPT AT(18,7):P\$:: OPEN #P:P\$:: GOTO 21163

When Texas Instruments developed Extended Basic, they took away the ability of Basic to redefine or color the characters in sets

15 and 16, ASCII 144 to 159, in order to make room in memory for sprites (they did let us have color set 0 instead. That is why Basic programs which use sets 15 and 16 will crash if you try to run them in XBasic.

Finally, John Behnke published in the Chicago Times newsletter an amazing routine which gave us back those missing sets. His routine was 13 sectors long. Recently, Richard Heath published in the L.A. newsletter a shortened version. And, without having any idea how it works, I have managed to scrunch it down to only 4 sectors -

```
1 CALL BXB
29999 !BXB by Jim Peterson,
adapted from VDPUTIL2 by John Behnke/Richard Heath
30000 SUB BXB :: CALL INIT :
: CALL LOAD(8194,37,194,63,240)
30001 CALL LOAD(16368,80,79,67,72,65,82,37,58,80,79,75,69,86,32,37,168)
30002 !
30003 FOR J=1 TO 136 :: CALL
LOAD(9529+J,ASC(SEG$(J)[\]$
,J,1)):: NEXT J :: SUBEND
30004 SUB CHAR(A,A$):: CALL
LOAD(9500,A):: CALL LINK("PO
CHAR",A$):: SUBEND
30005 SUB COLOR(A,B,C):: CAL
L LOAD(9492,8,15+A,(B-1)*16+
C-1)
30006 CALL LINK("POKEY"):: S
UBEND
```

Note than line 30002 is missing. That's because there is no way to key it in. Once again we need a program that writes a program -

```
100 FOR J=1 TO 136 :: READ A
: M$=M$&CHR$(A):: NEXT J
110 OPEN #1:"DSK1,BXBADATA",V
ARIABLE 163,OUTPUT :: PRINT
#1:CHR$(125)&CHR$(0)&"J[\]$
"&CHR$(190)&CHR$(199)&CHR$(1
36)&M$&CHR$(0)
120 PRINT #1:CHR$(255)&CHR$(
255):: CLOSE #1
130 DATA 2,224,37,20,3,0,0,0
```

```
,2,5,48,48,2,6,37,2,205,133,
2,134,37,17
140 DATA 17,252,4,192,2,1,0,
1,2,2,37,1,2,3,18,0,212,131,
4,32,32,20
150 DATA 208,4,9,80,2,32,3,0
,2,1,37,2,2,0,0,2,7,11,0,2
,8,7,0,193
160 DATA 1,192,193,193,180,9
7,133,145,135,21,1,113,136,6
,198,145
170 DATA 135,21,1,113,136,21
0,70,10,198,177,137,220,198,
2,131,37,10
180 DATA 17,240,4,32,32,36,1
6,6,2,224,37,20,3,0,0,4,32
,32,32,4
190 DATA 192,216,0,131,124,2
,224,131,224,4,96,0,112
```

RUN that to create a file BXBADATA on the disk. Then load the BXB program, and enter MERGE DSK1.BXBADATA. The unprintable line will pop into place. SAVE this completed BXB routine in MERGE format, and merge it into any Basic-only program. If you want, the result can be run through a Compactor program and turned into multi-statement program lines for more speed.

Or, you can write an Extended Basic program using all 16 character sets for graphics and color - actually 17, because set 0 is also available. Even the characters 24 through 31 can be redefined! Craig Miller has warned against fooling around in that area of memory, but there seems to be no problem with redefining the cursor (30) or the edge character (31).

Sprites can only use characters between 32 and 143 and their color cannot be changed with CALL COLOR(#,). I have not found any other bugs, but have not had time for much experimenting.

Here's an easy Tigercub challenge - run this one in Basic, not Extended Basic.

```
>LIST
100 DISPLAY AT(1,1):0
>RUN
0
0
Why did it print the zero twice?
```

I wrote this next one primarily for blind users. It converts each PRINT or DISPLAY directly to speech output and also provides a speech prompt for INPUTs.

```
100 !PRINT SPEAKER by Jim Peterson - to add OPEN #1:"SPEECH",OUTPUT and convert PRINT and DISPLAY statements to PRINT #1
110 !Also writes a PRINT #1 for INPUT prompts
120 !Program to be converted must first be SAVED in MERGE format. Recommend it be RESequenced before SAVEing, to make room for INPUT lines
130 PS%=CHR$(156)&CHR$(253)&CHR$(200)&CHR$(1)&"1"&CHR$(181)
140 DISPLAY AT(3,1)ERASE ALL:"INPUT FILENAME?":"DSK" :: ACCEPT AT(4,4):IF$ :: OPEN #1:"DSK"&IF$,INPUT ,VARIABLE 163
150 DISPLAY AT(5,1):"OUTPUT FILENAME?":"DSK" :: ACCEPT AT(6,4):OF$ :: OPEN #2:"DSK"&OF$,OUTPUT,VARIABLE 163
160 PRINT #2:CHR$(#)&CHR$(1)&CHR$(159)&CHR$(253)&CHR$(200)&CHR$(1)&"1"&CHR$(181)&CHR$(199)&CHR$(6)&"SPEECH"&CHR$(179)&CHR$(247)&CHR$(#)
170 LINPUT #1:M$ :: P=POS(M$,CHR$(156),3):: A=POS(M$,CHR$(162),3):: Z=POS(M$,CHR$(181),3)
180 I=POS(M$,CHR$(146),1):: IF I=# THEN 210 :: IF Z=# OR Z<I THEN PRINT #2:M$ :: GOTO 240
190 M2%=SEG$(M$,1,1)&SEG$(M$,2,1)&PS%&SEG$(M$,1+1,Z-I-1)&CHR$(#) :: PRINT #2:M2%
200 PRINT #2:SEG$(M$,1,1)&CHR$(ASC(SEG$(M$,2,1))+1)&SEG$(M$,3,255):: GOTO 240
210 IF P+A=# THEN PRINT #2:M$ :: GOTO 240
```

```
220 M=MAX(P,A)
230 M%=SEG$(M$,1,2)&PS%&SEG$(M$,M+1,255):: PRINT #2:M%
240 IF EOF(1)<>1 THEN 170 ELSE CLOSE #1 :: CLOSE #2
250 DISPLAY AT(12,1)ERASE ALL:"Type NEW and Enter" :: DISPLAY AT(15,1):"Type MERGE DSK";OF$ :: END
*****
MOLLY DARING
100 CALL CLEAR :: CALL SCREEN(5):: FOR SE=1 TO 12 :: CALL COLOR(SE,16,5):: NEXT SE
110 DISPLAY AT(3,8):"MOLLY DARING": : "Written and performed by": TAB(9);"Eddy Arnold" :: DISPLAY AT(24,1):"Programmed by Jim Peterson"
120 FOR D=1 TO 200 :: NEXT D :: DISPLAY AT(12,1):"Just a moment.....": : ".....looking for my music..."
130 DIM N(100),N2(100),A(250),B(250),C(250):: F=110 :: FOR J=1 TO 80 :: N(J)=INT(F#1.059463094^(J-1)+.5):: NEXT J
140 DATA 16,11,8,16,8,11,16,4,11,18,11,8
150 DATA 20,16,11,23,11,16,25,21,16,28,16,21
160 DATA 23,20,16,23,16,20,23,11,16,23,16,11
170 DATA 20,11,16,20,16,11,20,8,11,20,11,8
180 DATA 20,11,16,25,16,11,23,11,16,20,8,4
190 DATA 18,16,10,18,10,16,18,16,10,18,11,16
200 DATA 18,15,11,18,9,15,18,11,9,18,9,3
210 DATA 28,8,1,28,13,8,28,8,13,28,13,4
220 DATA 27,20,18,27,18,20,20,18,12,20,12,18
230 DATA 25,21,16,25,16,21,25,13,16,25,16,13
240 DATA 27,23,21,27,21,23,27,23,18,27,18,21
250 DATA 28,23,20,28,20,23,28,20,16,27,16,20
260 DATA 30,21,13,28,13,21,27,21,13,25,13,21
270 DATA 23,20,16,23,16,20,20,11,16,20,16,11
280 DATA 30,23,13,28,13,23,23,20,13,20,13,16
290 DATA 25,21,16,25,16,21,25,21,16,27,16,21
```

```
300 DATA 28,23,20,20,16,11,18,13,11,20,11,15
310 DATA 16,11,8,16,8,11,16,9,1,16,1,9
320 DATA 16,11,8,16,8,11,16,1,8,16,13,1
330 DATA 25,21,16,25,16,13,25,13,9,25,9,4
340 DATA 23,20,16,23,16,11,23,11,8,23,8,4
350 DATA 21,18,11,21,11,9,21,9,6,20,6,3
360 DATA 21,16,11,20,16,11,20,11,8,20,8,4
370 DATA 18,13,10,18,10,6,18,6,1,20,13,10
380 DATA 22,18,13,28,22,18,27,18,22,25,22,18
390 DATA 23,18,15,23,15,11,23,11,6,23,6,3
400 DATA 23,21,15,23,15,11,23,11,9,23,9,6
410 DATA 16,13,8,16,8,13,16,13,8,18,13,9
420 DATA 20,11,8,21,8,11,20,11,8,18,11,6
430 RESTORE 140 :: T=16 :: GOSUB 400 :: RESTORE 180 :: T=12 :: GOSUB 400 :: RESTORE 140 :: T=16 :: GOSUB 400
440 RESTORE 210 :: T=28 :: GOSUB 400 :: RESTORE 170 :: T=4 :: GOSUB 400 :: RESTORE 250 :: T=4 :: GOSUB 400 :: RESTORE 200 :: T=4 :: GOSUB 400 :: RESTORE 190 :: T=8
450 GOSUB 400 :: RESTORE 140 :: T=16 :: GOSUB 400 :: RESTORE 140 :: T=48 :: GOSUB 400
460 RESTORE 310 :: T=8 :: GOSUB 400 :: GOTO 490
470 GOTO 490
480 FOR J=1 TO T :: X=X+1 :: READ A(X),B(X),C(X): A(X)=A(X)+12 :: B(X)=B(X)+12 :: C(X)=C(X)+12 :: NEXT J :: RETURN
490 DISPLAY AT(10,1):"Control volume of 3 voices": "using 1, 2 and 3 keys for": "louder and Q, W and E for": "softer." ::
500 DISPLAY AT(15,1):"Control speed using 'F' for": "faster and 'S' for slower."
```

```
510 DISPLAY AT(18,1):"Change key using 'A' for": "higher and 'D' for lower."
520 DISPLAY AT(21,1):"Press 'Z' for minor key, 'X'": "for major key." :: V1,V2,V3=100 :: F,P,Y=0 :: X=200
530 FOR J=1 TO 192 :: CALL SOUND(-999,N(A(J)-Y),V1,N(B(J)-Y),V2,N(C(J)-Y),V3):: FOR T=1 TO X/50 :: P=1^X :: NEXT T
540 CALL KEY(0,K,S): IF S<1 THEN 710 :: ON POS("123QWESADZX",CHR$(K),1)+1 GOTO 710,550,560,570,580,590,600,610,620,630,650,670,690
550 V1=V1-1-(V1=0):: GOTO 710
560 V2=V2-2-(V2=0)#2 :: GOTO 710
570 V3=V3-2-(V3=0)#2 :: GOTO 710
580 V1=V1+2+(V1=30)#2 :: GOTO 710
590 V2=V2+2+(V2=30)#2 :: GOTO 710
600 V3=V3+2+(V3=30)#2 :: GOTO 710
610 X=X-20-(X<2)#20 :: GOTO 710
620 X=X+20 :: GOTO 710
630 IF F=1 THEN GOSUB 700
640 Y=Y-1-(Y=-20):: GOTO 710
650 IF F=1 THEN GOSUB 700
660 Y=Y+1+(Y=6):: GOTO 710
670 IF F=1 THEN 710 :: GOSUB 680 :: GOTO 710
680 F=1 :: Y=0 :: FOR W=3 TO 27 STEP 12 :: N2(W)=N(W):: N(W)=N(W-1) :: N2(W+5)=N(W+5) :: N(W+5)=N(W+4) :: N2(W+10)=N(W+10) :: N(W+10)=N(W+9) :: NEXT W :: RETURN
690 IF F=# THEN 710 :: GOSUB 700 :: GOTO 710
700 F=# :: FOR W=3 TO 27 STEP 12 :: N(W)=N2(W) :: N(W+5)=N2(W+5) :: N(W+10)=N2(W+10) :: NEXT W :: RETURN
710 NEXT J :: J=192 :: FOR V=10 TO 30 :: CALL SOUND(-999,N(A(J)-Y),V,N(B(J)-Y),V,N(C(J)-Y),V):: NEXT V :: FOR D=1 TO 500 :: NEXT D :: GOTO 530
```

MEMORY FULL
Jim Peterson

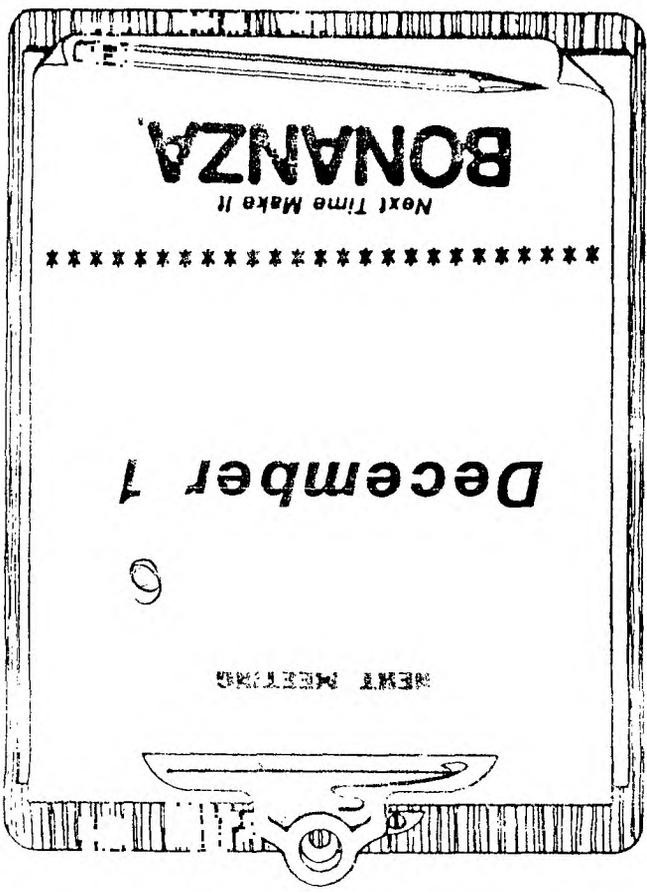
I got this from a friend - it isn't up to date, but it may give you some boards to try.

Curtis

***** 603 area code boards *****

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JOE'S ASYLUM	DOVER	742-0250		
P.E.R.C.S.	GREENVILLE	878-2642		
2280 RBBS	Hollis	465-2280	*0700-22	P Ramsden
ACCESS ONE	Hudson	980-9426	15-0700	J Lafond
HUDSON BBS	HUDSON	883-2862		
FIDO388	Keene	357-2090	24 hrs	C Vonschilling
NORTH NET	Keene	357-5278	@24 hrs	
USS FIDO	Keene	357-5278	18-0700	
INSTANT SFTWARE	KEENE 300	357-4306	24HRS	
ALTER-NET	Laconia	524-1000	18-0700	
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ACCESS-80	Londonderry	434-6225	@24 hrs	C Robertson Fritz Muller
BLACK BEARS DEN	Manchester	645-4917	@19-0800	see Helene's article
NARROW WAY	Manchester	644-2255	24 hrs	
XLISP	Manchester	623-1711	*24 hrs	D Betz
STATELINE BBS	Merrimack	424-5497	*24 hrs	B Westcott
ACCESS-80	Nashua	888-6999	@24 hrs	S Burleson
"	Nashua	424-3815	"	"
BRIAN'S BBS	Nashua	888-8694	24 hrs	B Wallace
DAVE'S HIDAWAY	Nashua	573-5235	16-2000	D Lee (Sat/Sun)
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M'CYCLE BBS	Nashua	889-3366	*24 hrs	
OUTPOST	Nashua	886-1371	*24 hrs	R Schwarz
ROVER	Nashua	888-8179	*24 hrs	B Hartman
SNAC	Nashua	883-6168	24 hrs	
SIA BBS	Nashua	883-9891	18-0700	
TOM'S PLACE	Nashua	881-8914	@24 hrs	T Megavero
UNIX GATEWAY	Nashua	888-8179	24 hrs	
X-RATED	Nashua	882-8024	24 hrs	
80186 BBS	Nashua	888-7562	*24 hrs	T Smith
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SIA BBS	NASHUA	883-9891		
BYTE	Peterboro	924-9820	24 hrs	
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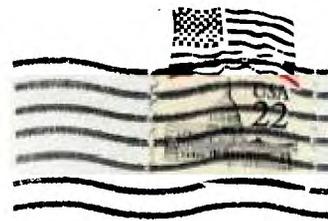
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