Next Meeting
6:30pm Monday, November 13, 1989
Nevada Power Meeting Room
6226 West Sahara Avenue

PRESIDENT'S MESSAGE
by Rudy Johnson

Well, here it is November 5th already, and I haven't progressed any further than I had last month at this time. In fact, I feel more behind than I did last month. Mostly due to my failure to notify the other officers of the time and place of the meeting, the officers did not get together as we are accustomed to do. And, surprise surprise, we have no ideas on what to do for the meeting. I had thought about showing the TIBase implementation of the magazine article index that I have been entering into the 4A (and now the Geneve) forever (at least it seems that way.) However, I just learned on Friday that I will be traveling (again) the week of the meeting, so that idea got scrubbed. In a last ditch effort to salvage something I called Gordon to give him an update on what he will have to deal with at the meeting. He (sounding desperate) suggested that we still have an officers meeting. So there may be something yet for the meeting but at this point it is unknown. So you will have to attend the "Mystery Meeting" to find out what the topics will be!

I talked with Karen Rogers, SNUG's Treasurer, this evening. I had only heard in passing that she had been involved in a traffic accident; that being the reason she hadn't been at the last meeting. I had talked with her briefly two weeks ago when she told me she couldn't attend the "not quite" officers' meeting. During tonight's conversation she told me just how seriously she had been injured. (For those, like me, who hadn't heard Karen hit a deer while riding her motorcycle. Having grown up in Michigan I know how serious it is to hit a deer with an auto. Hitting a deer while on a motorcycle could easily be fatal to the rider.) At least Karen is now recovering and is feeling well enough that she is thinking of all the things that she has been unable to do. You may even see her at the next meeting!

On another note - while talking with John Martin tonight I heard that we will have to have another special in the newsletter. The Air Force had some sort of funding problem, is still in a warehouse on Okinawa. Well, all I can say is "Okinawa's loss is SNUG's freigane. Welcome back Gary!

In the "New Things in the TI World" department from the October MICROpendium:

1) Texaments announces the latest upgrade to TI Artist which is TI Artist Plus! The program has several new modules to increase the program's capability. Included is a new Print Module which allows printing from 1 to 4 pictures together across a page, and portrait or landscape formats (also density options, outlining pictures, and reverse images.) There is a Vector Module which allows scaling selected areas of a picture (larger or smaller with height or width independently controlled) and tilting or shifting of objects. There has been increased capabilities in the Font Module to allow addition of text to a picture with better editing now. And a Movie module has been added to allow sequencing of pictures to simulate animation. The price is $24.95 plus $2.50 first class shipping. For current owners the upgrade price is $14.95 (plus shipping) with the return of the original TI Artist disk plus the first page of the manual.

2) McCann Software announces a WYSIWYG version of TPA for Geneve users. (That is What You See Is What You Get version of The Printers Apprentice.) Since I don't have the version for the 4A I don't know what the differences are. The price is $22.50.

This was also the weekend of the Chicago and Milwaukee TI Faires. I haven't checked GEnie yet to see what has been said about new things there, but hope to do so after completing this for the newsletter. Thinking about TI Faires. I want to remind you of the Fest West coming up in February in Tucson. It is not too early to be making plans for the event there. (You are going, aren't you?)

Even though I won't be at the meeting, YOU BE!
   - Rudy -

B.B.S. REPORT
by John Martin

As you know, on October 1st, SNUG finally got it's hard drive to go with the KFDC. We have been running since that time with the message bases and adventures etc on hard drive, but the file transfers have been stuck out on floppy due to the inability of the BBS program to access them from hard disk.

Last week, I contacted Ben Hathaway in Costa Mesa CA about software to support file transfers to and from the HD. Ben was VERY helpful. He said that he had been working on just such a program and expected to have it by this weekend. He did much better than that.

Since the first contact, he has uploaded to our BBS or allowed me to download from his BBS no less than 3 different versions of the program. I have one of them installed and functional on our BBS now. The increase in speed is dramatic.

While I was notifying the BP code to access the hard disk for file transfers, I decided to add another category of transfers. Now, in addition to the familiar T)} files and G)eneve files, there is a N)ewsletter files section. This is where you would upload anything that you want to submit to the newsletter. You could also download things from here if you wanted a disk copy or maybe just want to see what will be in the newsletter before you get it.

Whenever I get time (after the Mirage grand opening), I will add a couple more sections. I envision a graphics section and a SNUG library section for starters. We got about 73000 sectors to fill up, so the sky's the limit!

One more bit of good news for SNUG. I got a call from Gary Lagoy today. Gary was transfered to Okinowa last month, much to the dismay of Rudy, George and I. Gary was the fourth man in the newsletter team. He folded, stapled, stamped, and mailed the newsletters for us. This (as I found out) is no small task. Anyway, Gary called to say that after shipping all his worldly goods overseas to some warehouse to wait for him to get there, his transfer got canceled. So now he's back (yea) for what could be a very long time. Only trouble is, his computer is still waiting for him in Okinowa. Hope he gets everything back ok.

There is more news, but I do have to get some sleep. I have been working on the BBS program every night this week (the whole 3 hours between work and sleep) to get the file transfers working, and just haven't got time to write any more.

See you all at the meeting
-John-

LIBRARIAN'S COLUMN
by George Campbell Librarian

FIRE DRILL THE PAST 2-3 MONTHS -DUE MOSTLY TO SOME OF THE WORK CREW HAVING TO WORK FOR A LIVING, OTHERS TAKING VACATIONS ETC.

THE LIBRARY SUFFERED SOME ALSO. I WAS GONE MOST OF OCTOBER, BUT LIBRARIAN EMERITUS BOB BIEBER DID FILL IN BY PRODUCING A DISK OF THE MONTH FOR THE OCTOBER MEETING. AND NOW PERHAPS I WILL CATCH UP ON FILEING AND CATALOGING.

MOST OF THE NEW PROGRAMS THAT HAVE BEEN ADDED TO OUR LIBRARY THE PAST FEW MONTHS HAVE BEEN PICKED OFF THE S.N.U.G. BBS. I HAVENT BEEN TOO GOOD AT KEEPING UP WITH GENIE, AND HAVE NOT JOINED COMPUSERVE TO DATE. SO AS A REMINDER TO THOSE WHO DO FIND NEW, OR UPDATE PROGRAMS, SHARE THEM WITH THE LIBRARY BY PUTTING THEM ON THE BBS OR BRING TO A MEETING.

LAST MARCH I ORDERED (AND PAID FOR) A 1 YEAR SUBSCRIPTION TO COMPUTER SHOPPER. I RECIEVED THE SEPT. ISSUE ON 10/26 , THE OCT ON 10/27, AND THE NOV ISSUE 10/28. NOW EACH ISSUE IS ABOUT 2 LBS AND 200 PAGES, SO I DONT BLAME THE POSTMAN. ALSO WHEN I ORDERED, COMPUTER SHOPPER HAD A GOOD T.I. SECTION. THAT HAS VANISHED, SO- A NASTY LETTER TO THE PUBLISHER IS INDICATED. JUST TO LET THEM KNOW THERE ARE SUBSCRIBERS THAT BUY FOR THE T.I. SECTION. I HOPE HE GETS A LOT OF MAIL ON THAT SUBJECT!

IN FACT IT HELPS ALL OF US TO MAKE NOISE - TO GRIPE - AND TO COMPLEMENT WHEN SOMEONE HELPS THE T.I. COMMUNITY. IT ALWAYS SUPRISES ME TO NOTE THE "ATTITUDE ADJUSTMENT " IN THE WAKE OF ONE OR THE OTHER.

AND NOW TO THE DISK OF THE MONTH. THIS MONTH ITS EDUCATIONAL. A 350 SECTOR (UNARCHIVED) MUSIC-INST BY MAC CATHY MACALLISTER (1984) THAT IS GOOD FOR TEACHING CHILDREN 10 YEARS AND UP, BASIC MUSIC. ITS ALSO GOOD FOR HELPING YOU TO MAKE YOUR T.I. INTO A MUSIC MACHINE. MAC AND CATHY PUT A LOT OF WORK INTO A SET OF PROGRAMS, AND TURNED OUT WHAT I THINK IS A GOOD DISK. LIKE MOST GOOD PROGRAMS IT REQUIRES SOME TIME AND WORK TO GET A HANDLE ON, BUT THE RESULTS ARE WORTH THE EFFORT. THE DISK HAS BEEN PUT INTO THE LIBRARY ALSO.

          GEO. CAMPBELL
****

--- TI FORUM column goes 1 for 3 ---
VAST NEWS (newsletter of the Tempe, Az Users' Group) informs that the October issue of COMPUTER SHOPPER carries the TI FORUM column beginning on page 652, but "it got missed being listed in the index". Thank you, eagle-eyed friends.
The November issue is zilch again. That's one for three under the new ownership. Your editor had his cancellation letter written before the VAST NEWS arrived. Now I wait.
Is the rumored death of our beloved article exaggerated?

PAGE PRO 99 (again)
by George Tilley

PAGE PRO 99 was obtained by SNUG as a part of the author's demo disk program. The demo was in September and was based largely on Charles Good's excellent review that was published in the Lima Ohio User Group's Bits Bytes & Pixels. Mr. Good graciously provided a disk containing his original script and the completed article to run using the PAGE PRO program. A new master was prepared of his four-page article and copies of the disk and/or printouts continue to be available on request. His article is done 100% in PAGE PRO format and when compared to the same material being displayed on the screen demonstrates the relationship between the two. PAGE PRO is a WYSIWYG program. But what you see is 12 lines by 30 columns at a time. An 6.5X11 page consists of 66 lines of 60 columns. Even though the line and column location of the cursor is displayed at all times, it helps to see how each display relates to the whole page.

The July edition of MICROpendium carries another good review by Harry Brashear. It is well written and informative. If you are wondering if this is something you'll play with once and put on the shelf, you can get a real good feel for the program by reading the Charles Good article first, then the Quick Reference Sheet (it came on one of the disks and is part of the handout). You could actually load and run the program from these two, but if you still need more, study the MICROpendium article. It is an illustrated three pages with some how-to.

In the September SNUGLetter I said I wouldn't presume to to review this excellent program and that still holds true. However, I've read about this program in a dozen or so newsletters and have used it enough to feel comfortable with it, so a few highlights and opinions seem to be in order. A few comments on the documents is a good place to start and in the process demonstrate my reluctance to "review".

PAGE PRO comes with two manuals. You could consider them a program manual and a tutorial/technical manual. I've seen a number of "A" rated docs that don't hold a candle to these that ASGARD credit to Ed Johnson and Chris Bobbitt. Harry Brashear sees the docs as worth a B+(lowest of five ratings he gives the program). I don't know the criterion he uses, but it is safe to assume it is much more inclusive, scholarly and sophisticated than mine. If a doc covers all the bases in a well organized informative manner, I'd give it an "A+". If it is incomplete, incoherent, or poorly organized, I'd rate it a failure even if it came on gold-leafed linen and was illustrated by Picasso. Don't get the impression the MICROpendium review bad-mouths the program. Quiet the contrary-- Harry gives it a final grade of "A". The tone of his article shows in this excerpt : "Fortunately for us, the software keeps coming, getting better, more inventive, and easier to use all the time. So, ladies and gentlemen, may I present this year's winner in the 'easiest to use- one shot page maker' category, PAGE PRO 99".

The program comes with two disks (a program disk and an example disk), 3 small fonts, 5 large fonts and one file for the line characters. All are fully documented to allow easy customizing, if you like. The files include a converter for

TI-Artist instances, large and small font converters, a couple of loaders, separate versions for the TI 99A and the Geneve, and a "Columnizer".

Column got is the runner up winner of the "Most Multiple Feature" award. I don't understand the term. I have very little use for text formatted in 2-29 character columns to be printed out as graphics. Elsewhere I have included examples of 50 (thats right fifty) additional fonts available from the same source for $14.95 plus the usual 5M. I intend to place my order. They will be great for ads, invitations,etc. but even two thousand fonts and octo-density wouldn't make graphics competitive with with NLQ print for handling text.

"Best Feature" by consensus is capability of merging pictures with text. You can merge or individually delete pictures exactly where you want them on the page. Up to 28 instances can be included on a single page and instances as large as a full TI-Artist screen are accepted. You are sure to love this feature.

The "Least Publicized" and "Most Underrated" feature is the import/export text feature. DV80 files can be freely interchanged with any of the other programs that accept DV80 files. This allows you to format your text with the program of your choice, and insert pictures/graphics with precise, predictable results. Text is imported by the page (no merge) so you load text first, then add the graphics for pages to be printed through PAGE PRO. To use pictures/graphics with your printer's resident fonts, format and print the pics with PAGE PRO, then format and print the text in the areas not used by the pics. I wish I could make it sound as simple as it is.

A PAGE PRO page has 60 character per line. That translates to 7.5 chars per inch. Simple arithmetic will allow precise placement for pictures to be added later. Pica: 80/60(chars p/8" line) or 10/7.5 (chars per inch) each equals 1.333 or invert it to show .75 pp chars per Pica char. Elite is 1.6(96/60). Condensed pica 2.266(136/60) and condensed elite comes out 2.666(160/60). The line file uses chars with ASC values of 0 to 29(30 is your cursor and 31 is reserved). This means "all linse" characters are interchangable between PAGE PRO and TI-Writer. I've included a chart that shows the applicable keys for the line chars in either PP99 or the CU mode of TI-Writer. The pictures use ASC codes above 127 and therefore will not be accepted by TIWP. You can count the chars for the pictures (it's easy if you square them off) or overwrite the picture with a line char that will transfer. Turn your picture off to overwrite and use a different line char for each picture if you want to identify the pics. The possibilities seem almost infinate. I don't intend a how-to, just want to suggest that the program has a tremendous unadvertised, underrated potential.

****

-- I just formatted the newsletter, so I can tell you the charts referred to above are on page 7. The CU charters are from a CHARA1 file I converted to include printer commands (in the CU range) for the STAR NX-1000 and converted to NLQ characters that can be downloaded and called up as RAM. Enough of the hex codes are left to match up the symbolic chars or go to the Control U mode in TIWP and use the keys shown under TIWP-KEY. If there is any interest, I'll redo the chart showing the regular CU chars. I have the programs and its just a matter of running them off--- George

GETTING THE MOST FROM YOUR CASSETTE SYSTEM
BY MICHAEL DENAULT
NUMBER 13

PART II

THIS MONTH I AM CONTINUING WITH THE TOPIC OF UNDERSTANDING — CREATING — AND USING — CASSETTE FILES. MORE SPECIFICALLY, I WILL BE CONCENTRATING ON CREATING YOUR OWN SPECIFIC CASSETTE FILES — IN ORDER TO MEET YOUR OWN SPECIFIC NEEDS.

AS I STATED BEFORE IN PART I OF THIS SERIES... UNDERSTANDING — CREATING — AND USING — CASSETTE FILES IS AN AREA IN COMPUTER PROGRAMMING THAT I HAVE NOT HAD VERY MUCH EXPERIENCE WITH IN THE PAST. AT LEAST NOT ENOUGH EXPERIENCE WITH THAT I FEEL "COMFORTABLE" OR "CONFIDENT" ENOUGH TO BE WRITING THIS ARTICLE... WITH THE "HOPE AND EXPECTATION" OF PASSING ALONG SOME OF MY COMPUTER KNOWLEDGE, SO THAT OTHERS MAY LEARN FROM MY OWN EXPERIENCES. NEVER-THE-LESS, I AM GOING TO ATTEMPT TO TRY AND GIVE THIS PARTICULAR TOPIC THE ATTENTION IT SO RIGHTFULLY DESERVES. ALL I ASK IS THAT YOU BE PATIENT WITH ME... AS I WILL BE "LEARNING" ALOT OF THIS INFORMATION JUST PRIOR TO PASSING IT ALONG TO YOU.

BEFORE I BEGIN... I WOULD FIRST LIKE TO MENTION THAT MOST OF MY "MATERIAL" FOR THIS PARTICULAR SERIES WILL BE TAKEN DIRECTLY FROM THE TEXAS INSTRUMENTS USER'S REFERENCE GUIDE (BETTER KNOWN AS THE "GREEN" MANUAL).

SINCE THIS PARTICULAR MANUAL WAS INCLUDED IN THE "INSTRUCTION PACKET" WHICH YOU RECEIVED WHEN YOU PURCHASED YOUR COMPUTER... YOU SHOULD HAVE NO TROUBLE FINDING A COPY OF THIS MANUAL FLOATING AROUND SOMEWHERE. ONCE YOU HAVE LOCATED THIS MANUAL... YOU SHOULD TURN TO THE SECTION DEALING WITH "FILE PROCESSING"... MORE SPECIFICALLY... PAGES II-135 THROUGH II-136. PLEASE KEEP IN MIND THAT THE USER'S REFERENCE MANUAL DISCUSSES BOTH DISK FILES AND CASSETTE FILES AT THE SAME TIME, AS IT EXPLAINS EACH PART OF THE FILE PROCESSING PROCEDURE. IT IS VERY IMPORTANT THAT YOU FOLLOW THE SPECIFIC INSTRUCTIONS THAT WERE DESIGNED FOR THE CASSETTE RECORDER... AND NOT THE DISK DRIVE!

THE FIRST THING THAT WE MUST LEARN IS "HOW TO "OPEN" UP A CASSETTE FILE". BELIEVE IT OR NOT — IT IS NOT AS DIFFICULT A PROCESS AS IT FIRST SEEMS TO BE... ALTHOUGH I MUST ADMIT... TRYING TO READ AND UNDERSTAND THE PROCESS FOR THE VERY FIRST TIME CAN BE QUITE CONFUSING. WITH THIS THOUGHT IN MIND... I HAVE TRIED TO KEEP MY EXPLANATION AS SIMPLE AS POSSIBLE!

THE "OPEN" STATEMENT PREPARES A BASIC PROGRAM TO USE DATA FILES WHICH ARE STORED ON ACCESSORY DEVICES, SUCH AS THE CASSETTE RECORDER. THE "OPEN" STATEMENT DOES THIS BY PROVIDING THE NECESSARY LINK BETWEEN A "FILE-NUMBER" WHICH YOU HAVE USED IN YOUR PROGRAM AND THE PARTICULAR ACCESSORY DEVICE, (IN THIS CASE A CASSETTE RECORDER), ON WHICH THE FILE IS LOCATED.

THE "OPEN" STATEMENT DESCRIBES A FILE'S CHARACTERISTICS TO THE COMPUTER SO THAT YOUR PROGRAM CAN PROCESS IT OR CREATE IT. WITH SOME ACCESSORY DEVICES THE COMPUTER WILL CHECK THAT THE FILE OR DEVICE CHARACTERISTICS MATCH THE INFORMATION SPECIFIED IN THE "OPEN" STATEMENT FOR THAT FILE. IF THEY DON'T MATCH OR THE COMPUTER CANNOT FIND OR CREATE THE FILE, THE FILE WILL NOT BE OPENED AND AN I/O (INPUT/OUTPUT) ERROR MESSAGE WILL BE PRINTED.

THE "FILE-NUMBER" AND "FILE-NAME" MUST BE INCLUDED IN THE "OPEN" STATEMENT. THE OTHER INFORMATION CAN BE INCLUDED IN ANY ORDER OR CAN BE OMITTED, AS WELL. HOWEVER. IF YOU LEAVE OUT ANY SPECIFICATION. THE COMPUTER WILL ASSUME CERTAIN STANDARD "DEFAULTS" AND THOSE "DEFAULTS" MAY NOT BE THE CORRECT SPECIFICATION FOR YOUR PARTICULAR FILE.

NEXT MONTH I WILL CONTINUE WITH THE TOPIC OF UNDERSTANDING — CREATING — AND USING — CASSETTE FILES. MORE SPECIFICALLY I WILL BE CONTINUING WITH "HOW TO "OPEN" UP A CASSETTE FILE"... SINCE... AS YOU CAN SEE BY THE SIZE OF THIS ARTICLE ALREADY... I AM NOW OUT OF SPACE IN THIS MONTH'S NEWSLETTER!

IN THE MEAN TIME... IF YOU NEED ANY HELP OR HAVE ANY QUESTIONS CONCERNING YOUR CASSETTE SYSTEM - JUST GIVE ME A CALL (412-335-0163) AND I'LL TRY TO HELP.

TIPS FROM THE TIGERCUB

Columbus OH 43213

156 Collingwood Ave.
Columbus OH 43213

I am still offering over
130 original and unique
entertainment, educational
and utility programs at
just $1.00 each, or on
collection disks at $5.00
per disk.

The contents of the first
52 issues of this news-
letter are available as
ready-to-run programs on 5
Tips Disks at $10 each.

And my three Nuts & Bolts
Disk, $15 each, each contain
over 100 subprograms for you
to merge into your own pro-
grams to do all kinds of
wonderful things.

My catalog is available
for $1, deductable from
your first order (specify
TIGERCUB catalog).
****

TI-PD LIBRARY

I have selected public
domain programs, by cate-
gory, to fill over 200
disks, as full as possible
if I had enough programs of
the category, with all the
Basic-only programs con-
verted to XBasic, with an
E/A loader provided for
assembly programs if poss-
ible, instructions added
and any obvious bugs cor-
rected, and with an auto-
loader by full program name
on each disk. These are
available as a copying ser-
vice for just $1.50 post-
paid in U.S. and Canada. No
fairware will be offered
without the author's per-
mission. Send SASE for list
or $1, refundable, for
9-page catalog listing all
titles and authors. Be sure
to specify TI-PD catalog.
****

In Tips #55, I showed you

Since folks nowadays don't
like to key in long pro-
grams, let's continue with
"tinygram" programming, and
at the same time show you
how to manipulate strings,
and teach you the value of
using MERGE format.

First, let's make a screen
to display our new charac-
ters. Some of them will
have to be double-spaced
horizontally or vertically,
so -
100 CALL CLEAR :: X=1 :: FOR
CH=48 TO 159 :: PRINT CHR$(
CH)&" ";:: X=X+2 :: IF X<29
THEN 110 ELSE PRINT "":"";""
::: X=1
110 NEXT CH

Save it- SAVE DSK1.100,MERGE

Now, you might like to move
the common punctuation marks
into the same character sets
as the characters, so that
you will not have to reiden-
tify so many sets, also so
you can color them easier.
120 DATA 32,33,34,44,46
130 FOR J=1 TO 5 :: READ CH
:: CALL CHARPAT(CH,CH$):: CA
LL CHAR(J+90,CH$):: CALL CHA
R(J+122,CH$)
140 NEXT J :: CALL CHARPAT(6
3,CH$):: CALL CHAR(64,CH$)::
:: CALL CHAR(96,CH$)

If you want to program in
Basic, or use BIB with char-
acters all the way up to
ASCII 159, add CALL CHAR(J+1
54,CH$) to the end of line
130 and CALL CHAR(128,CH$)
to the end of line 140.

Save by SAVE DSK1.120,MERGE

If you are using that trans-
literation, you must remem-
ber that with upper case
characters the ? is @, space
is [, ! is \, " is], comma

is ., period is _. With the
... R ... w ...
for the 3rd set (ASCII 129
to 154) they are CTRL comma,
period,;,-," and (.

You can transfer upper
case to lower by -
CALL CHARPAT(CH,CH$) and
then CALL CHAR(CH+32,CH$) or
the opposite by CH-32 and if
you have BIB merged in you
can create a 3rd set by
CH+54.

The following are all in-
compatible with each other,
so give them all line number
150 and save them in merge
format as 150A, 150B, etc.

The numerals and the upper
case letters all have the
topmost pixel row blank to
provide spacing between
lines of text. We can make
taller letters by deleting
the top row and doubling the
7th row -
150 FOR CH=48 TO 120 :: CALL
CHARPAT(CH,CH$):: CALL CHAR
(CH,SEG$(CH$,3,12)&SEG$(CH$,
13,4)):: NEXT CH
151 REM

Or, you can double the 3rd
row -
150 FOR CH=48 TO 95 :: CALL
CHARPAT(CH,CH$):: CALL CHAR(
CH,SEG$(CH$,3,4)&SEG$(CH$,5,
12)):: NEXT CH
151 REM

The lower case letters are
really small upper case with
the upper 3 rows blank. All
their vertical bars are in
the 4th, 6th and 8th rows,
so let's drop the first 3
rows and quadruple the 7th.

150 FOR CH=97 TO 127 :: CALL
CHARPAT(CH,CH$):: CALL CHAR
(CH,SEG$(CH$,7,6)&RPT$(SEG$(
CH$,13,2),4)&SEG$(CH$,15,2))
:: NEXT CH
151 REM

Or, for topheavy letters,

.. CH ... .
CHARPAT(CH,CH$):: CALL CHAR
(CH,SEG$(CH$,7,2)&RPT$(SEG$(
CH$,9,2),4)&SEG$(CH$,11,6)):
:: NEXT CH
151 REM

Or, if you want line
spacing -
150 FOR CH=97 TO 122 :: CALL
CHARPAT(CH,CH$):: CH$=SEG$(
CH$,5,8)&RPT$(SEG$(CH$,13,2)
,3)&SEG$(CH$,15,2):: CALL CH
AR(CH,CH$):: NEXT CH
151 REM

Or, for something silly -
150 FOR CH=48 TO 90 :: CALL
CHARPAT(CH,CH$):: CALL CHAR(
CH,SEG$(CH$,3,2)&RPT$(SEG$(C
H$,5,2),4)&SEG$(CH$,9,4)&SEG
$(CH$,13,2)):: NEXT CH
151 REM

For some good blocky char-
acters -
150 FOR CH=48 TO 90 :: CALL
CHARPAT(CH,CH$):: CALL CHAR(
CH,RPT$(SEG$(CH$,3,2),2)&SEG
$(CH$,5,8)&RPT$(SEG$(CH$,15,
2),2)):: NEXT CH
151 REM

Or, if you would prefer them
shorter for single-line
spacing -
150 FOR CH=48 TO 90 :: CALL
CHARPAT(CH,CH$):: CALL CHAR(
CH,"00"&RPT$(SEG$(CH$,3,2),2
)&SEG$(CH$,7,6)&RPT$(SEG$(CH
$,15,2),2)):: NEXT CH
151 REM

If you would like numerals
the same size as lower case,

150 FOR CH=48 TO 57 :: CALL
CHARPAT(CH,CH$):: CALL CHAR(
CH,"0000"&SEG$(CH$,1,6)&SEG$
(CH$,9,4)&SEG$(CH$,15,2))::
NEXT CH
151 REM

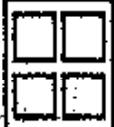You can even shrink the
lower case to only 4 rows
high, although some letters

are not very legible -

```
(CH,SEG$(CH$,1,6)&SEG$(CH$,5
,4)&SEG$(CH$,11,6)):: NEXT C
H
151 REM
```

Something modernistic -
```
150 A$="00" :: FOR CH=48 TO
90 :: CALL CHARPAT(CH,CH$)::
CALL CHAR(CH,SEG$(CH$,1,4)&
A$&SEG$(CH$,7,6)&A$&SEG$(CH$
,15,2)):: NEXT CH
151 REM
```

Or perhaps even better -
```
150 A$="00" :: FOR CH=48 TO
90 :: CALL CHARPAT(CH,CH$)::
CH$=SEG$(CH$,3,10)&RPT$(SEG
$(CH$,13,2),2)&SEG$(CH$,15,2
)
151 CALL CHAR(CH,SEG$(CH$,1,
4)&A$&SEG$(CH$,7,2)&A$&SEG$(
CH$,15,2)&A$&SEG$(CH$,15,2))
:: NEXT CH
```

I call this one "Spooky".
```
150 FOR CH=48 TO 122 :: CALL
CHARPAT(CH,CH$):: CH$=SEG$(
CH$,3,14)&SEG$(CH$,1,2):: X$
=SEG$(CH$,1,1)&"0"
151 FOR J=3 TO 15 STEP 2 ::
X$=X$&SEG$(CH$,J,1)&SEG$(CH$
,J-1,1):: NEXT J :: CALL CHA
R(CH,X$):: X$="" :: NEXT CH
```

And "Spooky" backward
```
150 FOR CH=48 TO 122 :: CALL
CHARPAT(CH,CH$):: FOR J=1 T
O 15 STEP 2 :: CH2$=CH2$&SEG
$(CH$,J,1)&SEG$(CH$,J+3,1)::
NEXT J :: CALL CHAR(CH,CH2$
):: CH2$="" :: NEXT CH
151 REM
```

Now, clear the memory with
NEW, then -
MERGE DSK1.100
MERGE DSK1.120
Add a line 500 GOTO 500
And start MERGEing in your
series of "150" routines and
running them to see what you
have created.
Then save these next
routines in MERGE format as
150A, 160B, etc.
All normal characters have

the leftmost column of
pixels and the two right
we can widen the character into
the left column -
```
160 FOR CH=48 TO 122 :: CALL
CHARPAT(CH,CH$):: FOR J=1 T
O 15 STEP 2
161 CH2$=CH2$&SEG$("014589CD
",POS("01234567",SEG$(CH$,J,
1),1),1)&SEG$(CH$,J+1,1):: N
EXT J :: CALL CHAR(CH,CH2$):
: CH2$="" :: NEXT CH
162 REM
163 REM
```

Or widen it both left and
right -
```
160 FOR CH=48 TO 122 :: CALL
CHARPAT(CH,CH$):: FOR J=1 T
O 15 STEP 2
161 CH2$=CH2$&SEG$("014589CD
",POS("01234567",SEG$(CH$,J,
1),1),1)&SEG$("028A",POS("04
8C",SEG$(CH$,J+1,1),1),1)
162 NEXT J :: CALL CHAR(CH,C
H2$):: CH2$="" :: NEXT CH
163 REM
```
Or even a full 8 columns
wide by just changing the
"028A" in line 161 to "0129"

For darker characters, we
can shade them into the 7th
column -
```
160 FOR CH=48 TO 122 :: CALL
CHARPAT(CH,CH$):: FOR J=2 T
O 16 STEP 2 :: IF SEG$(CH$,J
-1,1)="1" THEN CH2$=CH2$&"18
" :: GOTO 163
161 IF CH=67 OR CH=71 OR CH=
99 OR CH=103 THEN 162 :: IF
SEG$(CH$,J-1,1)="4" AND SEG$
(CH$,J,1)="0" THEN CH2$=CH2$
&"60" :: GOTO 163
162 CH2$=CH2$&SEG$(CH$,J-1,1
)&SEG$("0367CBEF",POS("02468
ACE",SEG$(CH$,J,1),1),1)
163 NEXT J :: CALL CHAR(CH,C
H2$):: CH2$="" :: NEXT CH
```

Or shade them both left
and right -
```
160 FOR CH=48 TO 122 :: CALL
CHARPAT(CH,CH$):: FOR J=1 T
O 15 STEP 2 :: A$=SEG$(CH$,J
```

```
,1):: P=POS("02468ACE",A$,1)::
B$=SEG$("0367CBEF",P,1):: CH
2$=CH2$&A$&B$
162 NEXT J :: CALL CHAR(CH,C
H2$):: CH2$="" :: NEXT CH
163 CALL CHAR(74,"000C0C0C0C
0C4C38"):: CALL CHAR(106,"00
00000C0C0C4C38")
```

Or shaded into both of the
rightmost columns -
```
160 FOR CH=48 TO 122 :: CALL
CHARPAT(CH,CH$):: FOR J=2 T
O 16 STEP 2 :: CH2$=CH2$&SEG
$(CH$,J-1,1)&SEG$("0377LBFF"
,POS("02468ACE",SEG$(CH$,J,1
),1),1):: NEXT J :: CALL CHA
R(CH,CH2$):: CH2$="" :: NEXT
CH
161 REM
162 REM
163 REM
```

Or into all 8 columns -
```
160 FOR CH=48 TO 122 :: CALL
CHARPAT(CH,CH$):: FOR J=1 T
O 15 STEP 2 :: P=POS("012345
6789ABCDEF",SEG$(CH$,J,1),1)
161 A$=SEG$("0367CDEF89ABCDE
F",P,1):: P=POS("02468ACE",S
EG$(CH$,J+1,1),1):: B$=SEG$(
"0367CBFF",P,1):: CH2$=CH2$&
A$&B$
162 NEXT J :: CALL CHAR(CH,C
H2$):: CH2$="" :: NEXT CH
163 REM
```

More neatly, shaded toward
at right -
```
160 FOR CH=48 TO 122 :: CALL
CHARPAT(CH,CH$)
161 FOR J=1 TO 15 STEP 2 ::
CH2$=CH2$&SEG$(CH$,J,1)&SEG$
("0C8C",POS("048C",SEG$(CH$,
J+1,1),1),1):: NEXT J
162 CALL CHAR(CH,CH2$):: CH2
$="" :: NEXT CH
163 REM
```

Or inward at right, out-
ward at left -

```
160 FOR CH=48 TO 122 :: CALL
CHARPAT(CH,CH$):: FOR J=1
```

```
",POS("01234567",SEG$(CH$,J,
1),1),1)&SEG$("0C8C",POS("04
8C",SEG$(CH$,J+1,1),1),1)::
NEXT J
162 CALL CHAR(CH,CH2$):: CH2
$="" :: NEXT CH
163 REM
```

Here's a weirdo -
```
160 FOR CH=48 TO 122 :: CALL
CHARPAT(CH,CH$):: FOR J=9 T
O 15 STEP 2
161 CH2$=CH2$&SEG$("014589CD
",POS("01234567",SEG$(CH$,J,
1),1),1)&SEG$("028A",POS("04
8C",SEG$(CH$,J+1,1),1),1)
162 NEXT J :: CALL CHAR(CH,S
EG$(CH$,1,8)&CH2$):: CH2$=""
:: NEXT CH
163 REM
```

Try changing that to FOR J
=1 TO 7 and CALL CHAR(CH,CH2
$&SEG$(CH$,9,8))

And one more -
```
160 FOR CH=48 TO 122 :: CALL
CHARPAT(CH,CH$):: FOR J=1 T
O 7 STEP 2
161 A$=SEG$("02468ACE",POS("
01234567",SEG$(CH$,J,1),1),1
):: B$=SEG$("0808",POS("048C
",SEG$(CH$,J+1,1),1),1):: CH
2$=CH2$&A$&B$ :: NEXT J
162 CALL CHAR(CH,CH2$&SEG$(C
H$,9,8)):: CH2$="" :: NEXT C
H
163 REM
```

Now, clear the memory,
MERGE in 100 and 120, put in
a holding line 500 GOTO 500
and start MERGEing in all of
the different combinations
of the 150 and 160 lines and
see how many different char-
acter sets you can make!

Memory full.

Jim Peterson

COMPATIBLES

PACE PRO FONTS

9640 CORNER

by Bob Sherberne

A few days ago, I down-loaded the transcript of a conference with "PECAN" on Delphi. The guest speaker was named Eli, and I am sorry to say that since I did not have my log turned on during my time in the down-load section I have no idea what his last name is. Eli brought out some interesting points regarding Myarc's P-System development, and I would like to pass some of them along to you. All quotes come from Eli.

"Quite some time ago" Myarc purchased a license to distribute the P-System but decided to do the port to the 9640 themselves. This was obviously a less expensive way to go than to have PECAN develop the Power system for them. (PECAN has lots of experience in developing the system for other computers.) Myarc assumed that they would have the system ready in a "few months", but alas, we have come to have first hand knowledge of Myarc's definition of the word "few"... During the conference Eli stated that he had no idea what the problem was in the development, but he was sure that PECAN had supplied all of the necessary source code.

Apparently "runtime" means that you will have the ability to RUN programs, not write them. To develop your own programs you will have to purchase a development package or compiler for the specific language which you are writing in. Apparently the average price of a compiler for UCSD Pascal runs around one hundred dollars. An "entry level" package (for beginners) sells for around eighty dollars. The "development package" which contains runtime, compilers, and utilities normally sells for two hundred fifty dollars but since Geneve users will already have the runtime portion of the package the price may be less. (Eli stated that two fifty should be tops...)

From the sound of things the P-System has more to it than meets the eye. Eli mentioned compiling and running FORTRAN-77, BASIC, C, and UCSD PASCAL. He also alluded to assemblers, cross-assemblers, debuggers and editors. Apparently if the system is developed right in the first place, and not just mickeyed together, it would be very impressive. Eli offered to give Lou Phillips a hand in development (I'm sure it would be for a price...) but I fear that our P-System will have big round ears...

Bob Sherburne

Southern Nevada Users' Group (SNUG)
P.O. Box 26301
Las Vegas, NV 89126-0301

TO: