FORTH GRAPHICS SAVE/LOAD

(requires Monitor 2
or later version)

This program will save a set of characters stored in the graphics RAM or will load them back from cassettee.

The program needs 2k of RAM for temporary storage (from B4ØØ to BBFF) of the character bytes. Hence you should FORGET any user defined words before entering this program to leave enough memory for the program plus character data storage.

Using the Program

The program listing uses HEX numbers. Type HEX and then

1) Enter the program from the listing and save it on cassette tape.

2) To save characters you have previously created or modified in the graphics RAM
   a) type CHSAVE
   b) the screen will clear; the top line will display numbers from 0 to 7F if in HEX (or 0 to 127 if in DECIMAL) as the characters are read from the graphics RAM and put into the area B4ØØ to BBFF
   c) A filename will be requested. Continue as you would for a normal FORTH SAVE
   d) The FORTH program plus the data will be savedon tape

3) To load characters already saved on tape
   a) LOAD as with a normal FORTH LOAD
   b) type ALL!
   c) the screen will clear; the top line will display numbers as the characters are written to the graphics RAM
   d) when finished, programsmay now be entered using graphics characters

Reminder

PC - turns on graphics
PCX - turns off graphics

Program Comments

L1 - reduces video display to 1 line

L16 - increases video display to 16 lines

LIMS - saves BØØØ for START address
BCØØ for FINISH address

ALL@ - reads all characters from the graphics RAM and stores them for B4ØØ to BBFF

SV - enters 4 bytes for a machine language routine to jump to the cassette save routine

CHSAVE - performs the above operations

ALL! - writes all characters stored from B4ØØ to BBFF into graphics RAM

```
: L1 1 BDF8 C! ;

: L16 10 BDF8 C! ;

: LIMS B000 BDE2 ! BC00 BDE4 ! ;

: ALL@ CLS L1 80 0 DO A 0 CPOS I . 19 EMIT I EMIT 10 0 DO BDA0 I + C@ B400 I + J 10 * + C! LOOP LOOP L16 ;

: SV 6E9F BC80 ! F808 BC82 ! ;

: CHSAVE ALL@ LIMS SV BC80 JSR ;

: ALL! CLS L1 80 0 DO A 0 CPOS I . 1B EMIT I EMIT 10 0 DO B400 I + J 10 * + C@ EMIT LOOP LOOP L16 ;
```