

Abstract

The Tektronix 4010 emulation makes previews of spooled plotfiles and interactive graphics available on the Geological Survey mini-computer. The maximum x-axis (across the screen) dimension is 7.3 inches and the maximum y-axis (up the screen) dimension is 5.5 inches.

INTRODUCTION

By using the plotter commands outlined in Richardson (1985) and several additional commands, a user may interactively direct graphics output to the terminal. There is no provision for user prompts but a prompt may be displayed at the bottom of the graphics screen by the user. Whenever the screen is to be cleared (either by a CALL TEKCLEAR or a CALL RSTR(I) command) the terminal beeps and pauses until the user presses any key.

Plotfiles on disc that are to be sent to a hardcopy plotter may be previewed. In all cases plotting outside the screen limits will produce a meaningless plot.

USE OF THE SOFTWARE

To send plotter files from disc to the graphics screen use the TEKPLOT command which has the following syntax:

```
TEKPLOT (FNAME) (,FACT)
```

where () indicates an optional argument.

FNAME is the name of the disc file to be plotted and defaults to TEMP.PLT.

FACT is the scaling factor to be applied to the plot over and above any scaling initially applied. The default is 1.0

At each call of RSTR the graphics terminal will beep and pause. When viewing is complete the user may press any key to continue.

When used interactively the line

```
$INCLUDE SYSF:TEKSUB.FTN/G
```

should be appended to the user program. It should be noted that this includes about one thousand lines of source code and lengthens compile and link times and produces large .OBJ and .TSK files.

ADDITIONAL SUBROUTINES AND INTERACTIVE USE

RESET - used at the end of a plot to reset the scaling factor and reset a number of variables used by the plotting subroutines. It does not automatically call TEKCLEAR.
- format CALL RESET.

TEKCLEAR - clears the graphics screen
- format CALL TEKCLEAR

UNPLOT - used to remove vectors, characters or symbols from the display by changing the writing colour to black. Where portions of the plot that are being removed cross other lines small gaps will be left.
 - format CALL UNPLOT(I)

where I controls the colour of the line drawn
 I = 0 green on black (the default) is used
 I = 1 a black line is drawn allowing the removal of specified lines until a CALL UNPLOT (0) is issued.

REFERENCE

RICHARDSON, R.G. 1985. Hardcopy plotting on the Geological Survey mini-computer (Revision 1). *Unpubl.Rep.Dep.Mines Tasm.* 1985/51.

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