

**DISCRETE****PURPOSE**

Specifies that output device 1 (that is, the terminal) is discrete (i.e., it cannot produce hardware generated graphics lines).

**DESCRIPTION**

The DISCRETE command is used when running DATAPLOT on a non-graphics terminal or a graphics terminal not supported by DATAPLOT. It can also be used to generate a line-printer plot if DATAPLOT does not support your printer. In this case, DATAPLOT generates character type graphics. The 3 graphics devices in DATAPLOT are independent. This is useful if you don't have a graphics terminal, but need to generate graphics output on a Postscript printer or other high resolution device. The DISCRETE command can be used to generate a low quality character type graph on the screen for previewing the plot while the DEVICE 2 POSTSCRIPT command generates a high quality plot for the printer.

**SYNTAX 1**

DISCRETE <ON or OFF>

where ON specifies that the terminal is discrete while OFF specifies that it is not. The terminal is assumed to be at least 65 characters wide.

**SYNTAX 2**

DISCRETE WIDE-CARRIAGE <ON or OFF>

where ON specifies that the terminal is discrete while OFF specifies that it is not. The terminal is assumed to be at least 120 characters wide.

**EXAMPLES**

```
DISCRETE
DISCRETE OFF
```

**NOTE**

DISCRETE OFF is rare since a specific device is usually nominated (i.e., DEVICE 1 <device>). Entering DISCRETE with no arguments is equivalent to DISCRETE ON. To generate character type graphics for a line printer, enter DEVICE 2 DISCRETE or DEVICE 2 DISCRETE WIDE-CARRIAGE.

**DEFAULT**

The terminal is assumed to be a Tektronix 4014 graphics device.

**SYNONYMS**

CONTINUOUS OFF, DISCRETE NARROW-WIDTH, DEVICE 1 DISCRETE, and DEVICE 1 DISCRETE NARROW-WIDTH are synonyms for DISCRETE. BATCH is a synonym for DISCRETE WIDE-CARRIAGE.

**RELATED COMMANDS**

TEKTRONIX	=	Sets the terminal to a Tektronix model.
HP	=	Sets the terminal to an HP model.
GENERAL	=	Sets the terminal to device-independent.
DEVICE	=	Sets the device manufacturer and model.

**APPLICATIONS**

Graphics device specification

**IMPLEMENTATION DATE**

Pre-1987

**PROGRAM**

```
DISCRETE
DEVICE 2 POSTSCRIPT
PLOT SIN(X) FOR X = -6.28 0.01 6.28
QUIT
```

This generates a character based graph on the screen while generating a high quality Postscript graph in the file DPPL1F.DAT, which can be printed on a Postscript printer with the standard operating system command on your system.