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.