
FX80STREAM

FX80STREAM is a library of routines that defines a new flavor of imagestream suitable for driving an Epson FX-80 dot-matrix printer. With FX80STREAM you can use the full set of Interlisp-D device-independent graphical operations to compose pages on your FX-80.

FX80STREAM is easy to use, and can either store the FX-80 output on a file for later printing, or, when used in conjunction with the RS232 package, will directly drive an FX-80 connected to your workstation. Output is sent to the FX-80 on a page-by-page basis: whenever a newpage occurs, either as a result of printing below the bottom of the FX-80's clipping region, or of printing a formfeed, the image of the page is sent *en masse* to the FX-80.

INITIALIZING THE FX-80

- connect the FX-80 printer to the TTYPort (if on a Dandelion) or RS-232 port of your workstation.
- turn the FX-80 on.
- load the FX80STREAM and RS232 packages.
- call (RS232INIT) to initialize the RS-232 file device.

USING THE FX-80

You are now ready to open an imagestream to the FX-80 and send text and images to it. You can use the full set of DIG operations, including BITBLT, DRAWLINE, FILLCIRCLE, etc. to draw on the FX-80's 576 point wide by 792 point high page at 72 point per inch resolution. You can send your TEdit documents to the FX-80 as well; the following examples will illustrate some of these capabilities:

- Evaluating

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(SETQ FX80 (OPENIMAGESTREAM '{RS232}FOO.FX80))
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will set the variable FX80 to be an FX-80 imagestream connected to a 9600 baud serial line. If you'd like to run the printer at a different speed, first set the variable FX80BAUDRATE to the desired baud rate.

- (BITBLT (WHICHW) NIL NIL FX80 0 0) will place a window's image in the FX-80 stream's page buffer at position (0,0).
- To print a TEdit document, left-button "Hardcopy" on the TEdit window menu, slide off to the right, and pick "To a file." Type "{RS232}.FX80" and press <return>.
- (DSOPERATION 'PAINT FX80) will cause all subsequent imaging operations to "or" their bits with the destination.
- (DRAWLINE 0 0 576 792 10 'REPLACE FX80 NIL '(10 5)) will draw a 10 dot-wide dashed line diagonally across the FX-80's page.
- (PRINTOUT FX80 "Hello world" T) will print the string "Hello world" on the FX-80's page, followed by a carriage-return/linefeed.