
PS-SEND

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Requires: POSTSCRIPTSTREAM, UNIXCOMM (only on Sun)

The module PS-SEND.LCOM is required by the PostScript ImageStream driver, and will be loaded automatically when POSTSCRIPTSTREAM.LCOM is loaded. It contains the function (POSTSCRIPT.SEND) which is called by SEND.FILE.TO.PRINTER to actually transmit the file to the printer. It is, by its nature, quite site specific, so it is in a separate file to make modifying it for any site relatively simple. For Sun Medley users, code has been added to send the completed Postscript files to the local printer (whatever the UNIX environment variable "PRINTER" is set to.)

POSTSCRIPT.SEND can handle the simple cases of copying a file to a spool directory or directly to a specific device (using COPYBYTES). The information about how to send a file to a specific host is expected to be on the SPOOLDIRECTORY, SPOOLFILE, SPOOLOPTIONS, HOST.CONTROL.STRING and HOST.CONTROL.AFTER.STRING properties of the host name. It checks first for the SPOOLFILE property on the host name, which must be a full filename that can be opened (by OPENSTREAM). If there is no SPOOLFILE property, then it checks for a SPOOLDIRECTORY property, if there, it will be concatenated together with a generated filename (by (GENSYM USERNAME)) and a ".PS" extension. If either the SPOOLFILE or SPOOLDIRECTORY properties exist, then an output stream will be opened onto the specified file. The value of the SPOOLOPTIONS property on the host name (if any) will be passed as the PARAMETERS argument to OPENSTREAM, and must be an appropriately formed list. (This is useful for cases where the specified destination is an 11xx device, such as {TTY} or {RS232} where you must set additional attributes of the stream like baud rate, etc.) If there is no SPOOLFILE or SPOOLDIRECTORY properties, then nothing will be sent and a message will appear in the PROMPTWINDOW ("[Unable to send FILE to HOST.]").

After the output stream is opened, if there is a HOST.CONTROL.STRING property of the hostname, then that string will be printed (IL:PRIN1) to the output stream first, then the first line of the file being sent (for a file generated by the PostScript ImageStream driver, this is the "%! ..." line), then the value of the POSTSCRIPT.CONTROL.STRING from the PRINTOPTIONS argument to POSTSCRIPT.SEND, finally the rest of the input file. (The idea of the HOST.CONTROL.STRING is that it should be a string to control the printing host itself, or perhaps a routing device that is mid-stream between the 11xx and the printer itself. For example, using a SPOOLFILE of "{TTY}FOO.PS" and having the PostScript printer shared by several additional computers (e.g. PC's) by use of a device like the Logical Connection from Fifth Generation Systems, it might be necessary to send a command to the Logical Connection to specify to route the output from this input to the output which is the PostScript printer.) Likewise, if there is a HOST.CONTROL.AFTER.STRING property of the hostname, then that string will be printed to the output stream last, just before closing the stream.