Tech Info Library

LaserWriter 16/600 PS: TCP/IP Accounting (11/94)

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TOPIC ---

Communication with PostScript printers for UNIX systems is done using the
TranScript package from Adobe Systems. The TranScript driver carries on a
conversation with the printer that includes status queries for deadlock and
failure detection, as well as accounting.

PostScript interpreters nominally keep a counter of how many 'print this page'
operators have been executed. These operators generally cause a piece of paper
to be cycled through the printer engine. This counter may be the same as or
independent of any page counters held by the print engine.

This counter can be queried by the PostScript code

    statusdict begin pagecount == end

The host driver queries the page counter before and after the job and records
the difference as the number of pages that job printed. In order to query this
counter a bidirectional communication link is needed.

The preferred method to connect a printer to the RJO system is through a TCP/IP
bidirectional link. This allows data transfers at network speeds, letting TCP
perform flow control.

Some printers (or adapters) support TCP/IP, but only implement the LPD protocol.
Print jobs are sent to the printer as if it was another UNIX computer running an
lpd server. This approach is not viable unless logging and accounting
information can be obtained from the printer via TCP/IP. This accounting
information must include the user and host identifiers from the lpd control
file.

DISCUSSION ---

You are correct that this isn't possible, the IP connection doesn't support

bidirectional PostScript communication. The LaserWriter 16/600 PS can accept print jobs through TCP/IP, but this particular mechanism is batch oriented, with no provisions for obtaining accounting information from the printer.

Bidirectional communications is supported on the LocalTalk, EtherTalk, and the Parallel communication channels.

Support Information Services

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