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LaserWriter 2.0 ROM: Changes to Data Rates for Serial I/O

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Security: Everyone

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In general, the information here supersedes corresponding material in Appendix D of the PostScript Language Reference Manual (copyright 1985, Adobe Systems Inc., Addison-Wesley Publishing Co., ISBN 0-201-10179-3); you should refer there for further information.

The LaserWriter's serial communication capability has been enhanced. The maximum baud rate has been increased from 9600 to 57600 bits per second.

While the default mode of operation of the LaserWriter's serial I/O remains the same as the original LaserWriter, the new capabilities must be explicitly enabled if desired. This is accomplished by executing 'setscbatch' or 'setscinteractive' operators as described in the PostScript Language Reference Manual.

The baud operand of 'setscbatch' or 'setscinteractive' may now be any positive integer less than 100000. The hardware can achieve only certain baud rates; other values will be rounded to the nearest achievable one. Above 9600 baud, the achievable rates are:

10473, 11520, 12800, 14400, 16457, 19200, 23040, 28800, 38400, and 57600.

Of these, 19200 is the most likely to be supported by the host operating systems.

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