

A Product-Specific Feature Support

Introduction

This appendix helps you compare the differences in PjL support for all PjL printers. It includes a list of all the PjL commands, showing which commands are supported by each PjL printer. Also, a list of environment variables shows the range of environment variables supported by each printer. The final portion of the appendix describes some important product-specific information regarding the different Hewlett-Packard printers.

PJL Feature Support

The following three tables list the PJL commands and show command support by each printer. “Y” indicates a command is supported; “ns” indicates it is not supported.

PJL Command Name	IIISi	4/4M 4Si 4SiMx	4 Plus 4M Plus 4V, 4MV	4L 5L 6L	4ML	4P 4MP	4PJ 4LJPro 4LC	5P 5MP 6P 6MP	5Si 5SiMx 5Si Mopier	5 5M
COMMENT	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
DEFAULT	ns	Y	Y	Y	Y	Y	Y	Y	Y	Y
DINQUIRE	ns	Y	Y	Y	Y	Y	Y	Y	Y	Y
ECHO	ns	Y	Y	Y	Y	Y	Y	Y	Y	Y
ENTER	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
EOJ	ns	Y	Y	ns	Y	Y	Y	Y	Y	Y
FSAPPEND, FSDIRLIST, FSQUERY, FSUPLOAD	ns	ns	ns	ns	ns	ns	ns	ns	Mopier only	ns
FSDELETE	ns	ns	ns	ns	ns	ns	ns	ns	Y	Y
FSDOWNLOAD	ns	ns	ns	ns	ns	ns	ns	ns	Y	Y
FSINIT	ns	ns	ns	ns	ns	ns	ns	ns	Y	Y
FSMKDIR	ns	ns	ns	ns	ns	ns	ns	ns	Y	Y
INFO	ns	Y ¹	Y	Y ¹	Y	Y	Y	Y	Y	Y
INITIALIZE	ns	Y	Y	Y	Y	Y	Y	Y	Y	Y
INQUIRE	ns	Y	Y	Y	Y	Y	Y	Y	Y	Y
JOB	ns	Y	Y	ns	Y	Y	Y	Y	Y	Y
OPMSG	ns	Y	Y	ns	ns	Y	Y	ns	Y	Y
PJL	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
RDYMSG	ns	Y	Y	ns	ns	Y	Y	ns	Y	Y
RESET	ns	Y	Y	Y	Y	Y	Y	Y	Y	Y
SET	ns	Y	Y	Y	Y	Y	Y	Y	Y	Y
STMSG	ns	Y	Y	ns	ns	Y	Y	ns	Y	Y
UEL	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
USTATUS	ns	Y	Y	Y ²	Y	Y	Y	Y	Y	Y
USTATUSOFF	ns	Y	Y	Y	Y	Y	Y	Y	Y	Y
1 The LaserJet 4/4M/4L/5L/6L printers support all INFO categories except PAGECOUNT.										
2 The LaserJet 4L/5L/6L printers support only the TIMED and DEVICE categories.										

Table A-1. PJL Feature Support for HP LaserJet, DeskJet, and PaintJet Printers

PJL Command Name	LaserJet 4000 Series 5000 Series	Color LJ Color LJ 5/5M	DeskJet 1200C	DeskJet 1600C	PaintJet XL300
COMMENT	Y	Y	Y	Y	Y
DEFAULT	Y	ns	ns	Y	ns
DINQUIRE	Y	ns	ns	Y	ns
ECHO	Y	Y	ns	Y	ns
ENTER	Y	Y	Y	Y	Y
EOJ	Y	Y	ns	Y ¹	ns
FSAPPEND, FSDIRLIST, FSQUERY, FSUPLOAD	Y	ns	ns	ns	ns
FSDELETE	Y	ns	ns	ns	
FSDOWNLOAD	Y	ns	ns	ns	ns
FSINIT	Y	ns	ns	ns	ns
FSMKDIR	Y	ns	ns	ns	ns
INFO	Y	Y ¹	ns	ns	ns
INITIALIZE	Y	ns	ns	ns	ns
INQUIRE	Y	RET only	ns	ns	ns
JOB	Y	NAME only	ns	Y ²	ns
OPMSG	Y	ns	ns	ns	ns
PJL	Y	Y	Y	Y	Y
RDYMSG	Y	ns	ns	ns	ns
RESET	Y	ns	ns	Y	ns
SET	Y	RET only	ns	Y	ns
STMSG	Y	ns	ns	ns	ns
UEL	Y	Y	Y	Y	Y
USTATUS	Y	Y ³	ns	ns	ns
USTATUSOFF	Y	Y	ns	ns	ns

¹ Supports only these INFO categories: CONFIG, ID, PAGECOUNT, USTATUS.

² The DeskJet 1600C printer does not support any options for the JOB and EOJ commands.

³ Supports only these USTATUS categories: DEVICE and JOB.

Table A-1. PjL Feature Support for HP LaserJet, DeskJet, and PaintJet Printers

PjL Command Name	LaserJet 1100 Series	LaserJet 2100 Series	LaserJet 4500 Series	LaserJet 8000/8100	LaserJet 8500 Series
COMMENT	Y	Y	Y	Y	Y
DEFAULT	Y	Y	Y	Y	Y
DINQUIRE	Y	Y	Y	Y	Y
ECHO	Y	Y	Y	Y	Y
ENTER	Y	Y	Y	Y	Y
EOJ	ns	Y	Y	Y	Y
FSAPPEND, FSDIRLIST, FSQUERY, FSUPLOAD	ns	ns	ns	ns	ns
FSDELETE	ns	ns	ns	ns	ns
FSDOWNLOAD	ns	ns	ns	ns	ns
FSINIT	ns	ns	ns	ns	ns
FSMKDIR	ns	ns	ns	ns	ns
INFO	Y ¹	Y	Y	Y	Y
INITIALIZE	Y ³	Y	Y	Y	Y
INQUIRE	Y	Y	Y	Y	Y
JOB	ns	Y	Y	Y	Y
OPMSG	ns	ns	Y	Y	Y
PjL	Y	Y	Y	Y	Y
RDYMSG	ns	ns	Y	Y	Y
RESET	Y	Y	Y	Y	Y
SET	Y	Y	Y	Y	Y
STMSG	ns	ns	Y	Y	Y
UEL	Y	Y	Y	Y	Y
USTATUS	Y ²	Y	Y	Y	Y
USTATUSOFF	Y	Y	Y	Y	Y

¹ The LaserJet 1100 Series printers support all INFO categories except PAGECOUNT. Sending the INFO VARIABLES command also returns COPYPAGECOUNT and SCANPAGECOUNT as well as PRINTPAGECOUNT.

² The LaserJet 1100 Series printers support only the TIMED and DEVICE categories. The USTATUS default is off.

³ The LaserJet 1100 Series printers do not set default and current PjL variable values to factory defaults for SYMSET and PAPER.

Table A-1. P.JL Feature Support for HP DesignJet Printers/Plotters

PJL Command Name	200, 220	230, 250C, 330, 350C, 430, 450C, 455CA, 488CA	600	650C	700, 750C Plus, 750C, 755CM, 2000CP, 2500CP, 1050C, 1055CM, 3000CP, 3500CP
COMMENT	Y	Y	Y	Y	Y
DEFAULT	ns	ns	ns	ns	ns
DINQUIRE	ns	ns	ns	ns	ns
ECHO	Y	Y	Y	Y	Y
ENTER	Y ¹	Y ¹	Y ¹	Y ¹	Y ¹
EOJ	ns	Y	ns	ns	Y
FSDELETE	ns	ns	ns	ns	ns
FSDOWNLOAD	ns	ns	ns	ns	ns
FSINIT	ns	ns	ns	ns	ns
FSMKDIR	ns	ns	ns	ns	ns
INFO	Y ²	Y ²	Y ²	Y ²	Y ²
INITIALIZE	ns	ns	ns	ns	ns
INQUIRE	ns	ns	ns	ns	ns
JOB	ns	Y	ns	ns	Y
OPMSG	ns	ns	ns	ns	ns
PJL	ns	ns	ns	ns	ns
RDYMSG	ns	ns	ns	ns	ns
RESET	ns	Y	ns	ns	Y
SET	ns	Y ³	ns	ns	Y ³
STMSG	ns	ns	ns	ns	ns
UEL	Y	Y	Y	Y	Y
USTATUS	Y ⁴	Y ⁴	Y ⁴	Y ⁴	Y ⁴
USTATUSOFF	Y	Y	Y	Y	Y

¹ All HP DesignJets support HPGL2. All HP DesignJets except 2000CP, 2500CP, 3000CP and 3500CP support HPGL. HP DesignJets 650C, 700, 750C, 750C Plus, 755CM, 1050C, 1055CM, 2500CP and 3500CP also support PostScript when it is installed.

² All DesignJets except the 600 and 650C support only the CONFIG, ID, STATUS, and USTATUS categories. DesignJet 600 and 650C support only the USTATUS configuration.

³ See the following section for environment variables supported by DesignJets.

⁴ All DesignJets support the TIMED and DEVICE categories.

PJL Environment Variable Support

The following tables list all of the current environment variables for PJL, PCL 5 and PostScript, and show the features supported by each printer.

Features for the HP LaserJet, DesignJet, and DeskJet 1600C printers are shown in Tables A-2 through A-5. The table below describes the printers covered in each table.

Table	Pages	Features for these Printers
A-2	A-7 to 17	HP LaserJet 4, 4M, 4 Plus, 4M Plus, 4V, 4MV, 4Si, 4SiMx, 4000 Series, 4L, 4ML, 4P, 4MP
A-3	A-18 to 28	HP LaserJet 4PJ, 4LJ Pro, 4LC, 5L, 6L, 5P, 5MP, 6P, 6MP, 5Si, 5SiMx, 5Si Mopier, HP DeskJet 1600C
A-4	A-29 to 39	HP LaserJet 1100 Series, 2100 Series, 5000 Series, 8000 Series, 8100 Series, Color LaserJet 4500 Series, 8500 Series
A-5	A-40 to 43	HP DesignJet printers

The letters “Y” and “ns” indicate the feature is supported and not supported, respectively. A value in parentheses () indicates that value is the factory default. The letters “RO” indicate it is supported as a read only variable. Printers that do not support the SET or DEFAULT commands, such as the LaserJet III Si printer, do not support any environment variables.

Table A-2. P.JL Environment Variables for HP LaserJet Printers

Environment Variable	Variable Values	4 4M	4 Plus 4M Plus	4V 4MV	4Si 4SiMx	4000 Series	4L	4ML	4P 4MP
AUTOCONT ¹	(OFF)	RO	RO	RO	RO	Y	Y ¹	Y ¹	Y ¹
	ON	RO	RO	RO	RO	(Y)	Y ¹	Y ¹	Y ¹
AUTOSELECT	(ON)	ns	ns	ns	ns	ns	ns	ns	ns
	OFF	ns	ns	ns	ns	ns	ns	ns	ns
BINDING	(LONGEDGE)	ns	Y	ns	Y	Y	ns	ns	ns
	SHORTEGE	ns	Y	ns	Y	Y	ns	ns	ns
BITSPERPIXEL	1 or (2)	ns	ns	ns	ns	Y	ns	ns	ns
CLEARABLE-WARNINGS ¹	JOB	RO	RO	RO	RO	(Y)	ns	ns	Y ¹
	(ON)	RO	RO	RO	RO	Y	ns	ns	Y ¹
CONTEXT-SWITCH	(ON)	ns	ns	ns	ns	ns	ns	ns	ns
	OFF	ns	ns	ns	ns	ns	ns	ns	ns
COPIES	(1) to 999	Y	Y	Y	Y	Y	Y	Y	Y
COURIER	(REGULAR)	ns	ns	ns	ns	Y	ns	ns	ns
	DARK	ns	ns	ns	ns	Y	ns	ns	ns
CPLOCK ²	(OFF)	ns	Y	Y	Y	Y	ns	ns	ns
	ON	ns	Y	Y	Y	Y	ns	ns	ns
	MINIMUM	ns	ns	ns	ns	Y	ns	ns	ns
	MODERATE	ns	ns	ns	ns	Y	ns	ns	ns
	MAXIMUM	ns	ns	ns	ns	Y	ns	ns	ns
DENSITY ¹	1 to 5 (3)	RO	RO	ns	ns	Y ¹	Y ¹	Y ¹	Y ¹
DISKLOCK ²	(OFF)	ns	ns	Y	ns	Y	ns	ns	ns
	ON	ns	ns	Y	ns	Y	ns	ns	ns
DUPLEX	(OFF)	ns	Y	ns	Y	Y	ns	ns	ns
	ON	ns	Y	ns	Y	Y	ns	ns	ns
ECONOMODE	(OFF)	ns	Y	Y	ns	Y	Y	Y	Y
	ON	ns	Y	Y	ns	Y	Y	Y	Y
FINISH	(NONE)	ns	ns	ns	ns	ns	ns	ns	ns
	STAPLE	ns	ns	ns	ns	ns	ns	ns	ns
FORMLINES	5 to 128 (60)	Y	Y	Y	Y	Y	Y	Y	Y

¹ When a SET or DEFAULT command is used with the AUTOCONT, CLEARABLEWARNINGS, or DENSITY variables, both the User Default and P.JL Current Environment settings are modified (except for the LaserJet 4L, 5L, and 6L printers). It is recommended these variables not be changed on a job-by-job basis.

² Only modifiable using the DEFAULT command.

Table A-2. PjL Environment Variables for HP LaserJet Printers

Environment Variable	Variable Values	4 4M	4 Plus 4M Plus	4V 4MV	4Si 4SiMx	4000 Series	4L	4ML	4P 4MP
HOLD	(OFF)	ns	ns	ns	ns	ns	ns	ns	ns
	ON	ns	ns	ns	ns	ns	ns	ns	ns
	PROOF	ns	ns	ns	ns	ns	ns	ns	ns
	STORE	ns	ns	ns	ns	ns	ns	ns	ns
	JOB	ns	ns	ns	ns	ns	ns	ns	ns
HOLDKEY	(""), 0000 to 9999	ns	ns	ns	ns	ns	ns	ns	ns
HOLDTYPE	(PUBLIC)	ns	ns	ns	ns	ns	ns	ns	ns
	PRIVATE	ns	ns	ns	ns	ns	ns	ns	ns
IMAGEADAPT	(AUTO)	ns	ns	ns	ns	ns	Y	ns	ns
	OFF	ns	ns	ns	ns	ns	Y	ns	ns
	ON	ns	ns	ns	ns	ns	Y	ns	ns
INTRAY1	(UNLOCKED)	RO	RO	RO	RO	ns	ns	ns	ns
	LOCKED	RO	RO	RO	RO	ns	ns	ns	ns
INTRAY2	(UNLOCKED)	RO	RO	RO	RO	ns	ns	ns	ns
	LOCKED	RO	RO	RO	RO	ns	ns	ns	ns
INTRAY3	(UNLOCKED)	RO	RO	RO	ns	ns	ns	ns	ns
	LOCKED	RO	RO	RO	ns	ns	ns	ns	ns
INTRAY1SIZE	(LETTER)	RO	RO	RO	RO	RO	ns	ns	ns
	LEGAL	RO	RO	RO	RO	RO	ns	ns	ns
	A4	RO	RO	RO	RO	RO	ns	ns	ns
	EXECUTIVE	RO	RO	RO	RO	RO	ns	ns	ns
	LEDGER	ns	ns	RO	ns	ns	ns	ns	ns
	A3	ns	ns	RO	ns	ns	ns	ns	ns
	JISB4	ns	ns	RO	ns	ns	ns	ns	ns
	JISB5	ns	ns	RO	ns	RO	ns	ns	ns
	CUSTOM	ns	ns	RO	ns	RO	ns	ns	ns
	COM10	RO	RO	RO	ns	RO	ns	ns	ns
	MONARCH	RO	RO	RO	ns	RO	ns	ns	ns
	C5, DL	RO	RO	RO	ns	RO	ns	ns	ns
	B5	RO	RO	RO	ns	RO	ns	ns	ns
	JPOST	ns	ns	RO	ns	ns	ns	ns	ns
JPOSTD	ns	ns	RO	ns	ns	ns	ns	ns	
A5	ns	ns	ns	ns	RO	ns	ns	ns	

Table A-2. PjL Environment Variables for HP LaserJet Printers

Environment Variable	Variable Values	4 4M	4 Plus 4M Plus	4V 4MV	4Si 4SiMx	4000 Series	4L	4ML	4P 4MP
INTRAY2SIZE	(LETTER)	RO	RO	RO	RO	RO	ns	ns	ns
	LEGAL	RO	RO	RO	RO	RO	ns	ns	ns
	A4	RO	RO	RO	RO	RO	ns	ns	ns
	EXECUTIVE	RO	RO	ns	RO	RO	ns	ns	ns
	LEDGER	ns	ns	RO	ns	ns	ns	ns	ns
	A3	ns	ns	RO	ns	ns	ns	ns	ns
	JISB4	ns	ns	RO	ns	ns	ns	ns	ns
	JISB5	ns	ns	RO	ns	RO	ns	ns	ns
	CUSTOM	ns	ns	ns	ns	RO	ns	ns	ns
	A5	ns	ns	ns	ns	ns	ns	ns	ns
COM10	ns	ns	ns	ns	ns	ns	ns	ns	
INTRAY3SIZE	(LETTER)	RO	RO	RO	ns	RO	ns	ns	ns
	LEGAL	RO	RO	RO	ns	RO	ns	ns	ns
	A4	RO	RO	RO	ns	RO	ns	ns	ns
	EXECUTIVE	RO	RO	ns	ns	RO	ns	ns	ns
	COM10, DL	ns	RO	ns	RO	ns	ns	ns	ns
	MONARCH	ns	RO	ns	RO	ns	ns	ns	ns
	LEDGER	ns	ns	RO	ns	ns	ns	ns	ns
	A3, JISB4	ns	ns	RO	ns	ns	ns	ns	ns
	JISB5	ns	ns	ns	ns	RO	ns	ns	ns
	CUSTOM	ns	ns	ns	ns	RO	ns	ns	ns
INTRAY4SIZE	(COM10)	RO	RO	ns	ns	RO	ns	ns	ns
	MONARCH	RO	RO	ns	ns	RO	ns	ns	ns
	C5, DL, B5	RO	RO	ns	ns	RO	ns	ns	ns
	JPOSTD	ns	ns	ns	ns	ns	ns	ns	ns
INTRAY5SIZE	LETTER	ns	ns	ns	ns	RO	ns	ns	ns
	LEGAL	ns	ns	ns	ns	RO	ns	ns	ns
	A4	ns	ns	ns	ns	RO	ns	ns	ns
	A3	ns	ns	ns	ns	ns	ns	ns	ns
	LEDGER	ns	ns	ns	ns	ns	ns	ns	ns
	JISB4	ns	ns	ns	ns	ns	ns	ns	ns
	EXEC	ns	ns	ns	ns	RO	ns	ns	ns
	JISB5	ns	ns	ns	ns	RO	ns	ns	ns
CUSTOM	ns	ns	ns	ns	RO	ns	ns	ns	

Table A-2. PjL Environment Variables for HP LaserJet Printers

Environment Variable	Variable Values	4 4M	4 Plus 4M Plus	4V 4MV	4Si 4SiMx	4000 Series	4L	4ML	4P 4MP
INTRAY6SIZE	<i>Tray-dependent</i>	ns	ns	ns	ns	RO	ns	ns	ns
INTRAY7SIZE	<i>Tray-dependent</i>	ns	ns	ns	ns	RO	ns	ns	ns
INTRAY8SIZE	<i>Tray-dependent</i>	ns	ns	ns	ns	RO	ns	ns	ns
IOBUFFER ¹	ON	ns	Y	Y	ns	Y	ns	ns	ns
	OFF	ns	Y	Y	ns	Y	ns	ns	ns
	AUTO	ns	Y	Y	ns	(Y)	ns	ns	ns
IOSIZE ¹	10 to max. available memory	ns	Y	Y	ns	Y	ns	ns	ns
JOBATTR	<i>"attribute string"</i>	ns	ns	ns	ns	Y	ns	ns	ns
JOBID	(OFF)	ns	ns	ns	ns	ns	ns	ns	ns
	ON	ns	ns	ns	ns	ns	ns	ns	ns
JOBIDVALUE	0 to 65535	ns	ns	ns	ns	ns	ns	ns	ns
JOBNAME	<i>"jobname string"</i>	ns	ns	ns	ns	ns	ns	ns	ns
JOBOFFSET	OFF	ns	ns	ns	Y	(Y)	ns	ns	ns
	(ON)	ns	ns	ns	Y	Y	ns	ns	ns
LANG	DANISH	ns	ns	ns	ns	Y	ns	Y	Y
	GERMAN	ns	ns	ns	ns	Y	ns	Y	Y
	ENGLISH	ns	ns	ns	ns	(Y)	ns	(Y)	(Y)
	SPANISH	ns	ns	ns	ns	Y	ns	Y	Y
	FRENCH	ns	ns	ns	ns	Y	ns	Y	Y
	ITALIAN	ns	ns	ns	ns	Y	ns	Y	Y
	DUTCH	ns	ns	ns	ns	Y	ns	Y	Y
	NORWEGIAN	ns	ns	ns	ns	Y	ns	Y	Y
	POLISH	ns	ns	ns	ns	Y	ns	Y	Y
	PORTUGUESE	ns	ns	ns	ns	Y	ns	Y	Y
	FINNISH	ns	ns	ns	ns	Y	ns	Y	Y
	SWEDISH	ns	ns	ns	ns	Y	ns	Y	Y
	TURKISH	ns	ns	ns	ns	Y	ns	Y	Y
	JAPANESE	ns	ns	ns	ns	Y	ns	ns	ns
	CZECH	ns	ns	ns	ns	Y	ns	ns	ns
HUNGARIAN	ns	ns	ns	ns	Y	ns	ns	ns	
RUSSIAN	ns	ns	ns	ns	Y	ns	ns	ns	

¹ The IOBUFFER and IOSIZE variables can only be used with the DEFAULT, DINQUIRE, and INQUIRE commands.

Table A-2. PJL Environment Variables for HP LaserJet Printers

Environment Variable	Variable Values	4 4M	4 Plus 4M Plus	4V 4MV	4Si 4SiMx	4000 Series	4L	4ML	4P 4MP
LOWTONER	(ON)	RO	ns	ns	ns	ns	ns	ns	ns
	OFF	RO	ns	ns	ns	ns	ns	ns	ns
	(CONTINUE)	ns	RO	RO	RO	Y	ns	ns	ns
	STOP	ns	RO	RO	RO	Y	ns	ns	ns
MANUALFEED	(OFF)	Y	Y	Y	Y	Y	Y	Y	Y
	ON	Y	Y	Y	Y	Y	Y	Y	Y
MEDIASOURCE	TRAY1	ns	ns	ns	ns	ns	ns	ns	ns
	TRAY2	ns	ns	ns	ns	ns	ns	ns	ns
	TRAY3	ns	ns	ns	ns	ns	ns	ns	ns
MEDIATYPE	TRANSPARENCY	ns	ns	ns	ns	ns	ns	ns	ns
	GLOSSY	ns	ns	ns	ns	ns	ns	ns	ns
	SPECIAL	ns	ns	ns	ns	ns	ns	ns	ns
	PAPER	ns	ns	ns	ns	ns	ns	ns	ns
MPTRAY	MANUAL	RO	RO	RO	ns	ns	ns	ns	ns
	CASSETTE	(RO)	RO	RO	ns	Y ¹	ns	ns	ns
	FIRST	RO	(RO)	(RO)	ns	(Y) ¹	ns	ns	ns
ORIENTATION	(PORTRAIT)	Y	Y	Y	Y	Y	Y	Y	Y
	LANDSCAPE	Y	Y	Y	Y	Y	Y	Y	Y
OUTBIN	(UPPER)	ns	ns	ns	Y	Y	ns	ns	ns
	LOWER	ns	ns	ns	Y	ns	ns	ns	ns
OUTBINPROCESS	0 to 255	ns	ns	ns	ns	ns	ns	ns	ns
OUTLINEPOINTSIZ	0 to 999 (72)	ns	ns	ns	ns	Y	ns	ns	ns
OUTTONER	(STOP)	ns	ns	ns	ns	ns	ns	ns	ns
	CONTINUE	ns	ns	ns	ns	ns	ns	ns	ns
PAGEPROTECT	OFF	(Y)	ns	ns	(Y)	ns	Y	Y	Y
	LETTER. LEGAL	Y	ns	ns	Y	ns	ns	Y	Y
	A4	Y	ns	ns	Y	ns	ns	Y	Y
	ON	ns	Y	Y	ns	Y	Y	ns	ns
	AUTO	ns	(Y)	(Y)	ns	(Y)	(Y)	(Y)	(Y)

¹For LaserJet 4000 series printers, the MPTRAY variable can only be changed using the PJL DEFAULT command.

Table A-2. PjL Environment Variables for HP LaserJet Printers

Environment Variable	Variable Values	4 4M	4 Plus 4M Plus	4V 4MV	4Si 4SiMx	4000 Series	4L	4ML	4P 4MP
PAPER (Letter, Legal, Ledger, A3, A4, Executive, JISB4, and JISB5 are paper sizes; Com10, C5, DL, Monarch, and B5 are envelope sizes; JPOST and JPOSTD are Japanese post card sizes; CUSTOM is for feeding other sizes, such as 3 x 5 cards and labels [for the LaserJet 4V/4MV printer, 11.7" x 17.7" only])	LETTER ⁴	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
	LEGAL	Y	Y	Y	Y	Y	Y	Y	Y
	A4 ⁴	Y	Y	Y	Y	Y	Y	Y	Y
	LEDGER	ns	ns	Y	ns	ns	ns	ns	ns
	A3	ns	ns	Y	ns	ns	ns	ns	ns
	JIS B4	ns	ns	Y	ns	ns	ns	ns	ns
	JISB5	ns	ns	Y	ns	Y	ns	ns	ns
	EXECUTIVE	Y	Y	Y	Y	Y	Y	Y	Y
	COM10	Y	Y	Y	Y	Y	Y	Y	Y
	MONARCH, DL	Y	Y	Y	Y	Y	Y	Y	Y
	C5	Y	Y	Y	ns	Y	Y	Y	Y
	B5	Y	Y	Y	ns	Y	Y	Y	Y
	CUSTOM	ns	ns	Y	ns	Y	ns	Y	Y
	JPOST	ns	ns	Y	ns	ns	ns	ns	ns
JPOSTD	ns	ns	Y	ns	ns	ns	ns	ns	
A5	ns	ns	ns	ns	Y	ns	ns	ns	
PARALLEL	SLOW	ns	ns	ns	ns	ns	ns	ns	ns
	FAST	ns	ns	ns	ns	ns	ns	ns	ns
PASSWORD ¹	(0) to 65535	ns	Y	Y	Y	Y	ns	ns	ns
PERSONALITY ²	AUTO	(Y)	(Y)	(Y)	(Y)	(Y)	ns	(Y)	(Y)
	PCL	Y	Y	Y	Y	Y	ns	Y	Y
	POSTSCRIPT	Y	Y	Y	Y	Y	ns	Y	Y
	ESCP	ns	ns	Y ^{2,3}	ns	ns	ns	ns	ns
	INSTALLED	ns	ns	ns	ns	ns	ns	ns	ns
PLANESINUSE	(3)	ns	ns	ns	ns	ns	ns	ns	ns
	1	ns	ns	ns	ns	ns	ns	ns	ns
POWERSAVE	ON	ns	Y	Y	Y	(Y)	ns	ns	ns
	OFF	ns	Y	Y	Y	Y	ns	ns	ns

¹ The PASSWORD variable is only supported with the DEFAULT, DINQUIRE, and INQUIRE commands.

² For the LaserJet 4PJ printer, PERSONALITY is a port-specific variable. For all other LaserJet printers, personality is not I/O port-specific. Available only if the optional ESC/P personality is installed.

³ Available only if the optional ESC/P personality is installed.

⁴ If configured for metric paper sizes, A4 is the default paper size and DL is the default envelope size.

Table A-2. PjL Environment Variables for HP LaserJet Printers

Environment Variable	Variable Values	4 4M	4 Plus 4M Plus	4V 4MV	4Si 4SiMx	4000 Series	4L	4ML	4P 4MP
POWERSAVE-TIME	1	ns	ns	ns	ns	ns	ns	ns	ns
	15	ns	Y	Y	Y	Y	ns	ns	ns
	30	ns	(Y)	(Y)	Y	(Y)	ns	ns	ns
	60	ns	Y	Y	(Y)	Y	ns	ns	ns
	120	ns	Y	Y	Y	Y	ns	ns	ns
	180	ns	Y	Y	Y	Y	ns	ns	ns
	240	ns	ns	ns	ns	ns	ns	ns	ns
	480	ns	ns	ns	ns	ns	ns	ns	ns
PRINTQUALITY	DRAFT	ns	ns	ns	ns	ns	ns	ns	ns
	NORMAL	ns	ns	ns	ns	ns	ns	ns	ns
	HIGH	ns	ns	ns	ns	ns	ns	ns	ns
QTY	(1) to 999	ns	ns	ns	ns	Y	ns	ns	ns
RENDERMODE	COLOR	ns	ns	ns	ns	ns	ns	ns	ns
	GRAYSCALE	ns	ns	ns	ns	ns	ns	ns	ns
REPRINT	(AUTO)	ns	ns	ns	ns	Y	ns	ns	ns
	ON	ns	ns	ns	ns	Y	ns	ns	ns
	OFF	ns	ns	ns	ns	Y	ns	ns	ns
RESOLUTION	300	Y	Y	Y	Y	Y	ns	(RO)	Y
	600	(Y)	(Y)	(Y)	(Y)	(Y)	ns	ns	(Y)
	1200	ns	ns	ns	ns	Y	ns	ns	ns
RESOURCESAVE ¹	ON	ns	Y	Y	RO	Y	ns	ns	ns
	OFF	ns	Y	Y	RO	(Y)	ns	ns	ns
	AUTO	ns	(Y)	(Y)	RO	Y	ns	ns	ns
RESOURCE-SAVESIZE ¹	0 to maximum available memory (in 100 Kbyte increments)	ns	Y	Y	Y	Y	ns	ns	ns
RET	OFF	Y	Y	Y	Y	Y	Y	Y	Y
	LIGHT	Y	Y	Y	ns	Y	Y	Y	Y
	MEDIUM	(Y)	(Y)	(Y)	ns	(Y)	(Y)	(Y)	(Y)
	DARK	Y	Y	Y	ns	Y	Y	Y	Y
	ON	ns	ns	ns	(Y)	ns	ns	ns	ns
TIMEOUT	5 to 300 (15)	Y	Y	Y	Y	Y	ns	Y	Y

¹ These variables can only be used with the DEFAULT, DINQUIRE, and INQUIRE commands. RESOURCESAVESIZE is a personality-specific variable.

Table A-2. PJL Environment Variables for HP LaserJet Printers

Environment Variable	Variable Values	4 4M	4 Plus 4M Plus	4V 4MV	4Si 4SiMx	4000 Series	4L	4ML	4P 4MP
USERNAME	" <i>username string</i> "	ns	ns	ns	ns	ns	ns	ns	ns
WIDEA4	(NO)	ns	ns	ns	ns	Y	ns	ns	ns
	YES	ns	ns	ns	ns	Y	ns	ns	ns
PCL-Specific Variables									
FONTNUMBER	(0) to n (maximum value depends on the currently set font source)	Y	Y	Y	Y	Y	Y	Y	Y
FONTSOURCE	(l)	Y	Y	Y	Y	Y	Y	Y	Y
	M1,M2,M3 . . Mn	Y	Y	Y	Y	Y	ns	ns	Y
	C	Y	Y	ns	ns	ns	ns	ns	ns
	C1	ns	ns	ns	Y	ns	ns	ns	ns
	C2	ns	ns	ns	Y	ns	ns	ns	ns
	S	Y	Y	Y	Y	Y	Y	Y	Y
LINETERMINATION	(0), 1, 2, 3	ns	ns	ns	ns	ns	ns	ns	ns
PITCH	0.44 to 99.99 (10.00)	Y	Y	Y	Y	Y	Y	Y	Y
PTSIZE	4.00 to 999.75 (12.00)	Y	Y	Y	Y	Y	Y	Y	Y

Table A-2. PJL Environment Variables for HP LaserJet Printers

Environment Variable	Variable Values	4 4M	4 Plus 4M Plus	4V 4MV	4Si 4SiMx	4000 Series	4L	4ML	4P 4MP
SYMSET (continued on the following pages)	DESKTOP	Y	Y	Y	Y	Y	Y	Y	Y
	ISO4	Y	Y	Y	Y	Y	Y	Y	Y
	ISO6	Y	Y	Y	Y	Y	Y	Y	Y
	ISO11	Y	Y	Y	Y	Y	Y	Y	Y
	ISO15	Y	Y	Y	Y	Y	Y	Y	Y
	ISO17	Y	Y	Y	Y	Y	Y	Y	Y
	ISO21	Y	Y	Y	Y	Y	Y	Y	Y
	ISO60	Y	Y	Y	Y	Y	Y	Y	Y
	ISO69	Y	Y	Y	Y	Y	Y	Y	Y
	ISOL1	Y	Y	Y	Y	Y	Y	Y	Y
	ISOL2	Y	Y	Y	Y	Y	Y	Y	Y
	ISOL5	Y	Y	Y	Y	Y	Y	Y	Y
	ISOL6	ns	ns	ns	ns	Y	ns	ns	ns
	LEGAL	Y	Y	Y	Y	Y	Y	Y	Y
	MATH8	Y	Y	Y	Y	ns	Y	Y	Y
	MCTEXT	Y	Y	Y	Y	Y	Y	Y	Y
	MSPUBL	Y	Y	Y	Y	ns	Y	Y	Y
	PC775	ns	ns	ns	ns	Y	ns	ns	ns
	PC8	Y	Y	Y	Y	(Y)	Y	Y	Y
	PC850	Y	Y	Y	Y	Y	Y	Y	Y
	PC852	Y	Y	Y	Y	Y	Y	Y	Y
	PC8DN	Y	Y	Y	Y	Y	Y	Y	Y
	PC8TK	Y	Y	Y	Y	Y	Y	Y	Y
	PC1004	ns	ns	ns	ns	Y	ns	ns	ns
	PIFONT	Y	Y	Y	Y	ns	Y	Y	Y
	PSMATH	Y	Y	Y	Y	ns	Y	Y	Y
PSTEXT	Y	Y	Y	Y	Y	Y	Y	Y	
ROMAN8	(Y)	(Y)	(Y)	(Y)	Y	(Y)	(Y)	(Y)	

Table A-2. P.JL Environment Variables for HP LaserJet Printers

Environment Variable	Variable Values	4 4M	4 Plus 4M Plus	4V 4MV	4Si 4SiMx	4000 Series	4L	4ML	4P 4MP
SYMSET continued	VNINTL	Y	Y	Y	Y	ns	Y	Y	Y
	VNMATH	Y	Y	Y	Y	ns	Y	Y	Y
	VNUS	Y	Y	Y	Y	ns	Y	Y	Y
	WIN30	Y	Y	Y	Y	Y	Y	Y	Y
	WINBALT	ns	ns	ns	ns	Y	ns	ns	ns
	WINL1	Y	Y	Y	Y	Y	Y	Y	Y
	WINL2	Y	Y	Y	Y	Y	Y	Y	Y
	WINL5	Y	Y	Y	Y	Y	Y	Y	Y
WIN31J	ns	ns	Y ¹	ns	Y	ns	ns	ns	
Port-Specific Variables									
PERSONALITY ²	ESCP	ns	ns	ns	ns	ns	ns	ns	ns
	PCL	ns	ns	ns	ns	ns	ns	ns	ns
ESC/P-Specific Variables									
CARRIAGE-RETURN	(CR)	ns	ns	Y ¹	ns	ns	ns	ns	ns
	CRLF	ns	ns	Y ¹	ns	ns	ns	ns	ns
CHARACTER-SET	(KANA)	ns	ns	Y ¹	ns	ns	ns	ns	ns
	EG	ns	ns	Y ¹	ns	ns	ns	ns	ns
TOPMARGIN	(TM19MM)	ns	ns	Y ¹	ns	ns	ns	ns	ns
	TM6MM	ns	ns	Y ¹	ns	ns	ns	ns	ns
ANKCONDENSE	ON	ns	ns	Y ¹	ns	ns	ns	ns	ns
	(OFF)	ns	ns	Y ¹	ns	ns	ns	ns	ns
FONT	(MSMINCHO)	ns	ns	Y ¹	ns	ns	ns	ns	ns
	MSGOTHIC	ns	ns	Y ¹	ns	ns	ns	ns	ns
<p>¹ Only present when the optional ESC/P personality is installed</p> <p>² PERSONALITY is only a port-specific variable for the LaserJet 4PJ printer. For all other printers, it is a general variable. For all other printers, see the PERSONALITY variable in the tables on pages A-12, A-23, and A-35.</p>									

Table A-2. PJI Environment Variables for HP LaserJet Printers

Environment Variable	Variable Values	4 4M	4 Plus 4M Plus	4V 4MV	4Si 4SiMx	4000 Series	4L	4ML	4P 4MP
PostScript-Specific Variables¹									
ADOBEMBT	OFF	ns	ns	ns	ns	ns	ns	ns	ns
	ON	ns	ns	ns	ns	ns	ns	ns	ns
	(AUTO)	ns	ns	ns	ns	ns	ns	ns	ns
JAMRECOVERY	(OFF)	ns	Y	Y	Y	ns	ns	ns	ns
	ON	ns	Y	Y	Y	ns	ns	ns	ns
PRTPSERRS	(OFF)	Y	Y	Y	Y	Y	ns	Y	Y
	ON	Y	Y	Y	Y	Y	ns	Y	Y
¹ Provided PostScript is installed. PostScript is an option in some printers.									

Table A-3. PJL Environment Variables for HP LaserJet and DeskJet Printers

Environment Variable	Variable Values	4PJ 4LJ Pro	4 LC	5L 6L	5P 5MP	6P 6MP	5Si 5SiMx, Mopier	5 5M	1600C
AUTOCONT ¹	(OFF)	Y ¹	Y ¹	Y ¹	Y ²	Y ²	Y	RO	ns
	ON	Y ¹	Y ¹	Y ¹	Y ²	Y ²	Y	RO	ns
AUTOSELECT	(ON)	ns	ns	ns	ns	ns	ns	ns	Y ³
	OFF	ns	ns	ns	ns	ns	ns	ns	Y ³
BINDING	(LONGEDGE)	ns	ns	ns	ns	ns	Y	Y	ns
	SHORTEDGE	ns	ns	ns	ns	ns	Y	Y	ns
BITSPERPIXEL	1 or (2)	ns	ns	ns	ns	ns	ns	ns	ns
CLEARABLE- WARNINGS ¹	JOB	Y ¹	ns	ns	ns	ns	ns	RO	ns
	(ON)	Y ¹	ns	ns	ns	ns	ns	RO	ns
CONTEXT- SWITCH	(ON)	ns	ns	ns	ns	ns	ns	ns	Y ³
	OFF	ns	ns	ns	ns	ns	ns	ns	Y ³
COPIES	(1) to 999	Y	Y	Y	Y	Y	Y	Y	Y
COURIER	(REGULAR)	ns	ns	ns	ns	Y	ns	Y	ns
	DARK	ns	ns	ns	ns	Y	ns	Y	ns
CPLOCK ²	(OFF)	ns	ns	ns	ns	ns	Y	Y	ns
	ON	ns	ns	ns	ns	ns	Y	Y	ns
	MINIMUM	ns	ns	ns	ns	ns	ns	ns	ns
	MODERATE	ns	ns	ns	ns	ns	ns	ns	ns
	MAXIMUM	ns	ns	ns	ns	ns	ns	ns	ns
DENSITY ¹	1 to 5 (3)	Y ¹	Y ¹	Y ¹	Y ²	Y ²	Y	RO	ns
DISKLOCK ²	(OFF)	ns	ns	ns	ns	ns	Y	Y	ns
	ON	ns	ns	ns	ns	ns	Y	Y	ns
DUPLEX	(OFF)	ns	ns	ns	ns	ns	Y	Y	ns
	ON	ns	ns	ns	ns	ns	Y	Y	ns
ECONOMODE	(OFF)	Y	Y	Y	Y	Y	Y	Y	ns
	ON	Y	Y	Y	Y	Y	Y	Y	ns
FINISH	(NONE)	ns	ns	ns	ns	ns	Y ⁴	ns	ns
	STAPLE	ns	ns	ns	ns	ns	Y ⁴	ns	ns
FORMLINES	5 to 128 (60)	Y	Y	Y	Y	Y	Y	Y	Y

¹ When a SET or DEFAULT command is used with the AUTOCONT, CLEARABLEWARNINGS, or DENSITY variables, both the User Default and PJL Current Environment settings are modified (except for the LaserJet 4L and 5L printers). It is recommended these variables not be changed on a job-by-job basis.

² Only modifiable using the DEFAULT command.

³ DeskJet 1600C — these variables are only available using the DEFAULT and DINQUIRE commands.

⁴ The FINISH variable is only supported by the 5Si Mopier.

Table A-3. PJL Environment Variables for HP LaserJet and DeskJet Printers

Environment Variable	Variable Values	4PJ 4LJ Pro	4 LC	5L 6L	5P 5MP	6P 6MP	5Si 5SiMx, Mopier	5 5M	1600C
HOLD	(OFF)	ns	ns	ns	ns	ns	ns	ns	ns
	ON	ns	ns	ns	ns	ns	ns	ns	ns
	PROOF	ns	ns	ns	ns	ns	ns	ns	ns
	STORE	ns	ns	ns	ns	ns	ns	ns	ns
	JOB	ns	ns	ns	ns	ns	ns	ns	ns
HOLDKEY	(""), 0000 to 9999	ns	ns	ns	ns	ns	ns	ns	ns
HOLDTYPE	(PUBLIC)	ns	ns	ns	ns	ns	ns	ns	ns
	PRIVATE	ns	ns	ns	ns	ns	ns	ns	ns
IMAGEADAPT	(AUTO)	ns	ns	Y	ns	ns	ns	ns	ns
	OFF	ns	ns	Y	ns	ns	ns	ns	ns
	ON	ns	ns	Y	ns	ns	ns	ns	ns
INTRAY1	(UNLOCKED)	ns	ns	ns	ns	ns	ns	RO	γ ¹
	LOCKED	ns	ns	ns	ns	ns	ns	RO	γ ¹
INTRAY2	(UNLOCKED)	ns	ns	ns	ns	ns	ns	RO	ns
	LOCKED	ns	ns	ns	ns	ns	ns	RO	ns
INTRAY3	(UNLOCKED)	ns	ns	ns	ns	ns	ns	RO	γ ¹
	LOCKED	ns	ns	ns	ns	ns	ns	RO	γ ¹
INTRAY1SIZE	(LETTER)	ns	ns	ns	ns	ns	RO	RO	ns
	LEGAL	ns	ns	ns	ns	ns	RO	RO	ns
	A4	ns	ns	ns	ns	ns	RO	RO	ns
	EXECUTIVE	ns	ns	ns	ns	ns	RO	RO	ns
	LEDGER	ns	ns	ns	ns	ns	RO	ns	ns
	A3	ns	ns	ns	ns	ns	RO	ns	ns
	JISB4	ns	ns	ns	ns	ns	RO	ns	ns
	JISB5	ns	ns	ns	ns	ns	RO	ns	ns
	CUSTOM	ns	ns	ns	ns	ns	RO	ns	ns
	COM10	ns	ns	ns	ns	ns	RO	RO	ns
	MONARCH	ns	ns	ns	ns	ns	RO	RO	ns
	C5, DL	ns	ns	ns	ns	ns	RO	RO	ns
	B5	ns	ns	ns	ns	ns	RO	RO	ns
	JPOST	ns	ns	ns	ns	ns	ns	ns	ns
	JPOSTD	ns	ns	ns	ns	ns	RO	ns	ns
A5	ns	ns	ns	ns	ns	ns	RO	ns	

¹ DeskJet 1600C — these variables are only available using the DEFAULT and DINQUIRE commands.

Table A-3. PJL Environment Variables for HP LaserJet and DeskJet Printers

Environment Variable	Variable Values	4PJ 4LJ Pro	4 LC	5L 6L	5P 5MP	6P 6MP	5Si 5SiMx, Mopier	5 5M	1600C
INTRAY2SIZE	(LETTER)	ns	ns	ns	ns	ns	RO	RO	ns
	LEGAL	ns	ns	ns	ns	ns	RO	RO	ns
	A4	ns	ns	ns	ns	ns	RO	RO	ns
	EXECUTIVE	ns	ns	ns	ns	ns	ns	RO	ns
	LEDGER	ns	ns	ns	ns	ns	ns	ns	ns
	A3	ns	ns	ns	ns	ns	ns	ns	ns
	JISB4	ns	ns	ns	ns	ns	ns	ns	ns
	JISB5	ns	ns	ns	ns	ns	ns	ns	ns
	CUSTOM	ns	ns	ns	ns	ns	ns	ns	ns
	A5	ns	ns	ns	ns	ns	ns	ns	ns
COM10	ns	ns	ns	ns	ns	ns	ns	ns	
INTRAY3SIZE	(LETTER)	ns	ns	ns	ns	ns	RO	RO	ns
	LEGAL	ns	ns	ns	ns	ns	RO	RO	ns
	A4	ns	ns	ns	ns	ns	RO	RO	ns
	EXECUTIVE	ns	ns	ns	ns	ns	ns	RO	ns
	COM10, DL	ns	ns	ns	ns	ns	ns	ns	ns
	MONARCH	ns	ns	ns	ns	ns	ns	ns	ns
	LEDGER	ns	ns	ns	ns	ns	RO	ns	ns
	A3, JISB4	ns	ns	ns	ns	ns	RO	ns	ns
	JISB5	ns	ns	ns	ns	ns	ns	ns	ns
CUSTOM	ns	ns	ns	ns	ns	ns	ns	ns	
INTRAY4SIZE	(COM10)	ns	ns	ns	ns	ns	RO	RO	ns
	MONARCH	ns	ns	ns	ns	ns	RO	RO	ns
	C5, DL, B5	ns	ns	ns	ns	ns	RO	RO	ns
	JPOSTD	ns	ns	ns	ns	ns	RO	ns	ns
INTRAY5SIZE	LETTER	ns	ns	ns	ns	ns	RO	ns	ns
	LEGAL	ns	ns	ns	ns	ns	RO	ns	ns
	A4	ns	ns	ns	ns	ns	RO	ns	ns
	A3	ns	ns	ns	ns	ns	RO	ns	ns
	LEDGER	ns	ns	ns	ns	ns	RO	ns	ns
	JISB4	ns	ns	ns	ns	ns	RO	ns	ns
	EXEC	ns	ns	ns	ns	ns	ns	ns	ns
	JISB5	ns	ns	ns	ns	ns	ns	ns	ns
CUSTOM	ns	ns	ns	ns	ns	ns	ns	ns	

Table A-3. PJL Environment Variables for HP LaserJet and DeskJet Printers

Environment Variable	Variable Values	4PJ 4LJ Pro	4 LC	5L 6L	5P 5MP	6P 6MP	5Si 5SiMx, Mopier	5 5M	1600C
INTRAY6SIZE	<i>Tray-dependent</i>	ns	ns	ns	ns	ns	ns	ns	ns
INTRAY7SIZE	<i>Tray-dependent</i>	ns	ns	ns	ns	ns	ns	ns	ns
INTRAY8SIZE	<i>Tray-dependent</i>	ns	ns	ns	ns	ns	ns	ns	ns
IOBUFFER ¹	ON	ns	ns	ns	Y	Y	(Y)	Y	ns
	OFF	ns	ns	Y	Y	Y	Y	Y	ns
	AUTO	ns	ns	(Y)	Y	Y	Y	(Y)	ns
IOSIZE ¹	10–max. memory	ns	ns	ns	Y	Y	Y	Y	ns
JOBATTR	<i>"attribute string"</i>	ns	ns	ns	ns	ns	Y	Y	ns
JOBID	(OFF)	ns	ns	ns	ns	ns	ns	ns	ns
	ON	ns	ns	ns	ns	ns	ns	ns	ns
JOBIDVALUE	0 to 65535	ns	ns	ns	ns	ns	ns	ns	ns
JOBNAME	<i>"jobname string"</i>	ns	ns	ns	ns	ns	ns	ns	ns
JOBOFFSET	OFF	ns	ns	ns	ns	ns	Y	ns	ns
	(ON)	ns	ns	ns	ns	ns	Y	ns	ns
LANG	DANISH	ns	ns	ns	Y	Y	Y	ns	ns
	GERMAN	ns	ns	ns	Y	Y	Y	ns	ns
	ENGLISH	Y	Y	ns	(Y)	(Y)	(Y)	ns	ns
	SPANISH	ns	ns	ns	Y	Y	Y	ns	ns
	FRENCH	ns	ns	ns	Y	Y	Y	ns	ns
	ITALIAN	ns	ns	ns	Y	Y	Y	ns	ns
	DUTCH	ns	ns	ns	Y	Y	Y	ns	ns
	NORWEGIAN	ns	ns	ns	Y	Y	Y	ns	ns
	POLISH	ns	ns	ns	Y	Y	Y	ns	ns
	PORTUGUESE	ns	ns	ns	Y	Y	Y	ns	ns
	FINNISH	ns	ns	ns	Y	Y	Y	ns	ns
	SWEDISH	ns	ns	ns	Y	Y	Y	ns	ns
	TURKISH	ns	ns	ns	Y	Y	Y	ns	ns
	JAPANESE	(Y)	ns	ns	ns	ns	Y	ns	ns
	CHINESE	ns	(Y)	ns	ns	ns	ns	ns	ns
CZECH	ns	ns	ns	ns	ns	ns	ns	ns	
HUNGARIAN	ns	ns	ns	ns	ns	ns	ns	ns	
RUSSIAN	ns	ns	ns	ns	ns	ns	ns	ns	

¹ The IOBUFFER and IOSIZE variables can only be used with the DEFAULT, DINQUIRE, and INQUIRE commands.

Table A-3. P.JL Environment Variables for HP LaserJet and DeskJet Printers									
Environment Variable	Variable Values	4PJ 4LJ Pro	4 LC	5L 6L	5P 5MP	6P 6MP	5Si 5SiMx, Mopier	5 5M	1600C
LOWTONER	(ON)	ns	ns	ns	ns	ns	ns	ns	ns
	OFF	ns	ns	ns	ns	ns	ns	ns	ns
	(CONTINUE)	ns	ns	ns	ns	ns	Y	RO	ns
	STOP	ns	ns	ns	ns	ns	Y	RO	ns
MANUALFEED	(OFF), ON	Y	Y	Y	Y	Y	Y	Y	ns
MEDIASOURCE	TRAY1	ns	ns	ns	ns	ns	ns	ns	Y ¹
	TRAY2	ns	ns	ns	ns	ns	ns	ns	ns
	TRAY3	ns	ns	ns	ns	ns	ns	ns	Y ¹
MEDIATYPE	TRANSPARENCY	ns	ns	ns	ns	ns	ns	ns	Y
	GLOSSY	ns	ns	ns	ns	ns	ns	ns	Y
	SPECIAL	ns	ns	ns	ns	ns	ns	ns	Y
	PAPER	ns	ns	ns	ns	ns	ns	ns	Y
MPTRAY	MANUAL	ns	ns	ns	Y ²	ns	ns	ns	ns
	CASSETTE	ns	ns	ns	Y ²	Y ²	ns	RO	ns
	FIRST	ns	ns	ns	Y ²	Y ²	ns	RO	ns
ORIENTATION	(PORTRAIT)	Y	Y	Y	Y	Y	Y	Y	Y
	LANDSCAPE	Y	Y	Y	Y	Y	Y	Y	Y
OUTBIN	(UPPER)	ns	ns	ns	ns	ns	Y	ns	ns
	LOWER	ns	ns	ns	ns	ns	Y	ns	ns
	OPTIONALOUT PUTBIN1 . . . 62	ns	ns	ns	ns	ns	Y	ns	ns
OUTBINPROCESS	0 to 255	ns	ns	ns	ns	ns	ns	ns	ns
OUTLINEPOINTSIZ	0 to 999 (72)	ns	ns	ns	ns	ns	ns	ns	ns
OUTTONER	(STOP)	ns	ns	ns	ns	ns	ns	ns	ns
	CONTINUE	ns	ns	ns	ns	ns	ns	ns	ns
PAGEPROTECT	OFF	Y	Y	Y	ns	ns	ns	ns	(Y)
	LETTER, LEGAL	Y	Y	ns	ns	ns	ns	ns	Y
	A4	Y	Y	ns	ns	ns	ns	ns	Y
	ON	ns	ns	Y	Y	Y	Y	Y	ns
	AUTO	(Y)	(Y)	(Y)	(Y)	(Y)	Y	(Y)	ns

¹ DeskJet 1600C — these variables are only available using the DEFAULT and DQUIRE commands.

² For the LaserJet 5P/5MP printers, the MPTRAY variable can only be changed using the P.JL DEFAULTCommand. The LaserJet 6P/6MP printers allow both the DEFAULT and SET commands.

Table A-3. PJL Environment Variables for HP LaserJet and DeskJet Printers

Environment Variable	Variable Values	4PJ 4LJ Pro	4 LC	5L 6L	5P 5MP	6P 6MP	5Si 5SiMx, Mopier	5 5M	1600C
PAPER (Letter, Legal, Ledger, A3, A4, Executive, JISB4, and JISB5 are paper sizes; Com10, C5, DL, Monarch, and B5 are envelope sizes; JPOST and JPOSTD are Japanese post card sizes; CUSTOM is for feeding other sizes, such as 3 x 5 cards and labels [for the LaserJet 4V/4MV printer, 11.7" x 17.7" only])	LETTER	Y	Y	(Y)	(Y)	(Y)	Y	(Y)	(Y)
	LEGAL	Y	Y	Y	Y	Y	Y	Y	Y
	A4	(Y)	(Y)	Y	Y	Y	Y	Y	Y
	LEDGER	ns	ns	ns	ns	ns	Y	ns	ns
	A3	ns	ns	ns	ns	ns	Y	ns	ns
	JIS B4	ns	ns	ns	ns	ns	Y	ns	ns
	JISB5	Y	Y	ns	ns	Y	Y	ns	ns
	EXECUTIVE	Y	Y	Y	Y	Y	Y	Y	ns
	COM10	Y	Y	Y	Y	Y	Y	Y	ns
	MONARCH, DL	Y	Y	Y	Y	Y	Y	Y	ns
	C5	Y	Y	Y	Y	Y	Y	Y	ns
	B5	Y	Y	Y	Y	Y	Y	Y	ns
	CUSTOM	Y	Y	ns	Y	Y	Y	ns	ns
	JPOST	Y	Y	ns	ns	Y	ns	ns	ns
JPOSTD	Y	Y	ns	ns	Y	Y	ns	ns	
A5	ns	ns	ns	ns	Y	ns	Y	ns	
PARALLEL	SLOW	ns	ns	ns	ns	ns	ns	ns	Y ²
	FAST	ns	ns	ns	ns	ns	ns	ns	Y ²
PASSWORD ¹	(0) to 65535	ns	ns	ns	Y	Y	Y	Y	ns
PERSONALITY ³	AUTO	ns	ns	ns	(Y)	(Y)	Y	(Y)	ns
	PCL	Y	(Y)	(Y)	Y	Y	Y	Y	Y ²
	POSTSCRIPT	ns	ns	ns	Y	Y	Y	Y	Y ²
	ESCP	(Y) ³	ns	ns	ns	ns	Y	ns	ns
	INSTALLED	ns	ns	ns	ns	ns	ns	ns	(Y)
PLANESINUSE	(3)	ns	ns	ns	ns	ns	ns	ns	ns
	1	ns	ns	ns	ns	ns	ns	ns	ns
POWERSAVE	(ON)	ns	ns	ns	ns	ns	Y	Y	Y ²
	OFF	ns	ns	ns	ns	ns	Y	Y	Y ²

¹ The PASSWORD variable is only available using the DEFAULT, DINQUIRE and INQUIRE commands.

² DeskJet 1600C — these variables are only available using the DEFAULT and DINQUIRE commands.

³ For the LaserJet 4PJ printer, PERSONALITY is a port-specific variable. For all other LaserJet printers, personality is not I/O port-specific.

Table A-3. P.JL Environment Variables for HP LaserJet and DeskJet Printers									
Environment Variable	Variable Values	4PJ 4LJ Pro	4 LC	5L 6L	5P 5MP	6P 6MP	5Si 5SiMx, Mopier	5 5M	1600C
POWERSAVE-TIME	1	ns	ns	ns	ns	ns	ns	ns	ns
	15	ns	ns	ns	ns	ns	Y	Y	Y ¹
	30	ns	ns	ns	ns	ns	Y	(Y)	(Y) ¹
	60	ns	ns	ns	ns	ns	(Y)	Y	Y ¹
	120	ns	ns	ns	ns	ns	Y	Y	Y ¹
	180	ns	ns	ns	ns	ns	Y	Y	Y ¹
	240	ns	ns	ns	ns	ns	ns	ns	ns
	480	ns	ns	ns	ns	ns	ns	ns	ns
PRINTQUALITY	DRAFT	ns	ns	ns	ns	ns	ns	ns	Y ¹
	NORMAL	ns	ns	ns	ns	ns	ns	ns	Y ¹
	HIGH	ns	ns	ns	ns	ns	ns	ns	Y ¹
QTY	(1) to 999	ns	ns	ns	ns	ns	Y ³	ns	ns
RENDERMODE	COLOR	ns	ns	ns	ns	ns	ns	ns	Y ¹
	GRAYSCALE	ns	ns	ns	ns	ns	ns	ns	Y ¹
REPRINT	(AUTO)	ns	ns	ns	ns	Y	ns	ns	ns
	ON	ns	ns	ns	ns	Y	ns	ns	ns
	OFF	ns	ns	ns	ns	Y	ns	ns	ns
RESOLUTION	300	Y	Y	Y	Y	Y	Y	Y	(Y)
	600	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	Y
	1200	ns	ns	ns	ns	ns	ns	ns	ns
RESOURCESAVE ²	ON	ns	ns	ns	Y	Y	Y	Y	ns
	OFF	ns	ns	ns	Y	Y	Y	Y	ns
	AUTO	ns	ns	ns	Y	Y	Y	Y	ns
RESOURCE-SAVESIZE ²	0–max. available memory (100 Kb increments)	ns	ns	ns	Y	Y	Y	Y	ns
RET	OFF	Y	Y	Y	Y	Y	Y	Y	ns
	LIGHT	Y	Y	ns	Y	Y	ns	Y	ns
	MEDIUM	(Y)	(Y)	ns	(Y)	(Y)	ns	(Y)	ns
	DARK	Y	Y	ns	Y	Y	ns	Y	ns
	ON	ns	ns	(Y)	ns	ns	(Y)	ns	ns

¹ DeskJet 1600C — these variables are only available using the DEFAULT and DINQUIRE commands.

² These variables can only be used with the DEFAULT, DINQUIRE, and INQUIRE commands. RESOURCESAVESIZE is a personality-specific variable.

³ QTY is only supported on the HP LaserJet 5Si Mopier.

Table A-3. PCL Environment Variables for HP LaserJet and DeskJet Printers									
Environment Variable	Variable Values	4PJ 4LJ Pro	4 LC	5L 6L	5P 5MP	6P 6MP	5Si 5SiMx, Mopier	5 5M	1600C
TIMEOUT	5 to 300 (15)	Y	Y	ns	Y	Y	Y	Y	Y ¹
USERNAME	"username string"	ns	ns	ns	ns	ns	ns	ns	ns
WIDEA4	(NO)	ns	ns	ns	ns	Y	ns	Y	ns
	YES	ns	ns	ns	ns	Y	ns	Y	ns
PCL-Specific Variables									
FONTNUMBER	(0) to n (max. depends on the font source)	Y	Y	Y	Y	Y	Y	Y	ns
FONTSOURCE	(l)	Y	Y	Y	Y	Y	Y	Y	ns
	M1,M2,M3 .. Mn	Y ²	ns	ns	Y	Y	Y	Y	ns
	C	ns	ns	ns	ns	ns	ns	ns	ns
	C1	ns	ns	ns	ns	ns	ns	ns	ns
	C2	ns	ns	ns	ns	ns	ns	ns	ns
FONTSOURCE	S	Y	Y	Y	Y	Y	Y	Y	ns
LINETERMINATION	(0), 1, 2, 3	ns	ns	ns	ns	ns	ns	ns	ns
PITCH	0.44 to 99.99 (10.00)	Y	Y	Y	Y	Y	Y	Y	Y ^{1,3}
PTSIZE	4.00 to 999.75 (12.00)	Y	Y	Y	Y	Y	Y	Y	ns
RESOURCE- SAVESIZE ⁴	0–max. available memory (100 Kb increments)	ns	ns	ns	Y	Y	Y	Y	ns
<p>¹ DeskJet 1600C — these variables are only available using the DEFAULT and DINQUIRE commands.</p> <p>² The LaserJet 4JL Pro printer does not support font SIMMs.</p> <p>³ The DeskJet 1600C only supports the values 8.00, 10.00, 12.00, 16.67, 18.00, 20.00.</p> <p>⁴ These variables can only be used with the DEFAULT, DINQUIRE, and INQUIRE commands. RESOURCESAVESIZE is a personality-specific variable.</p>									

Table A-3. PjL Environment Variables for HP LaserJet and DeskJet Printers

Environment Variable	Variable Values	4PJ 4LJ Pro	4 LC	5L 6L	5P 5MP	6P 6MP	5Si 5SiMx, Mopier	5 5M	1600C
SYMSET (continued on the following pages)	DESKTOP	Y	Y	Y	Y	Y	Y	Y	Y ¹
	ISO4	Y	Y	Y	Y	Y	Y	Y	Y ¹
	ISO6	Y	Y	Y	Y	Y	Y	Y	Y ¹
	ISO11	Y	Y	Y	Y	Y	Y	Y	Y ¹
	ISO15	Y	Y	Y	Y	Y	Y	Y	Y ¹
	ISO17	Y	Y	Y	Y	Y	Y	Y	Y ¹
	ISO21	Y	Y	Y	Y	Y	Y	Y	Y ¹
	ISO60	Y	Y	Y	Y	Y	Y	Y	Y ¹
	ISO69	Y	Y	Y	Y	Y	Y	Y	Y ¹
	ISOL1	Y	Y	Y	Y	Y	Y	Y	Y ¹
	ISOL2	Y	Y	Y	Y	Y	Y	Y	Y ¹
	ISOL5	Y	Y	Y	Y	Y	Y	Y	Y ¹
	ISOL6	ns	ns	ns	ns	Y	ns	Y	ns
	LEGAL	Y	Y	Y	Y	Y	Y	Y	Y ¹
	MATH8	Y	Y	Y	Y	ns	Y	ns	Y ¹
	MCTEXT	Y	Y	Y	Y	Y	Y	Y	Y
	MSPUBL	Y	Y	Y	Y	ns	Y	ns	Y ¹
	PC775	ns	ns	ns	ns	Y	ns	Y	ns
	PC8	Y	Y	(Y)	Y	(Y)	(Y)	(Y)	Y ¹
	PC850	Y	Y	Y	Y	Y	Y	Y	Y ¹
	PC852	Y	Y	Y	Y	Y	Y	Y	Y ¹
	PC8DN	Y	Y	Y	Y	Y	Y	Y	Y ¹
	PC8TK	Y	Y	Y	Y	Y	Y	Y	Y ¹
	PC1004	ns	ns	ns	ns	Y	ns	Y	ns
	PIFONT	Y	Y	Y	Y	ns	Y	ns	Y ¹
PSMATH	Y	Y	Y	Y	ns	Y	ns	Y ¹	
PSTEXT	Y	Y	Y	Y	Y	Y	Y	Y ¹	
ROMAN8	Y	Y	Y	(Y)	Y	Y	Y	Y ¹	

¹ DeskJet 1600C — these variables are only available using the DEFAULT and DINQUIRE commands.

Table A-3. PjL Environment Variables for HP LaserJet and DeskJet Printers

Environment Variable	Variable Values	4PJ 4LJ Pro	4 LC	5L 6L	5P 5MP	6P 6MP	5Si 5SiMx, Mopier	5 5M	1600C
SYMSET (continued)	VNINTL	Y	Y	Y	Y	ns	Y	ns	Y ²
	VNMATH	Y	Y	Y	Y	ns	Y	ns	Y ²
	VNUS	Y	Y	Y	Y	ns	Y	ns	Y ²
	WIN30	Y	Y	Y	Y	Y	Y	Y	Y ²
	WINBALT	ns	ns	ns	ns	Y	ns	Y	ns
	WINL1	Y	Y	Y	Y	Y	Y	Y	Y ²
	WINL2	Y	Y	Y	Y	Y	Y	Y	Y ²
	WINL5	Y	Y	Y	Y	Y	Y	Y	Y ²
	WIN31J	(Y)	ns	ns	ns	ns	Y	ns	ns
GB2312	ns	(Y)	ns	ns	ns	ns	ns	ns	
Port-Specific Variables									
PERSONALITY ¹	ESCP	Y	ns	ns	ns	ns	ns	ns	ns
	PCL	Y	ns	ns	ns	ns	ns	ns	ns
ESC/P-Specific Variables									
CARRIAGE-RETURN	(CR)	Y	ns	ns	ns	ns	Y ³	ns	ns
	CRLF	Y	ns	ns	ns	ns	Y ³	ns	ns
CHARACTER-SET	(KANA)	Y	ns	ns	ns	ns	Y ³	ns	ns
	EG	Y	ns	ns	ns	ns	Y ³	ns	ns
TOPMARGIN	(TM19MM)	Y	ns	ns	ns	ns	Y ³	ns	ns
	TM6MM	Y	ns	ns	ns	ns	Y ³	ns	ns
ANKCONDENSE	ON	Y	ns	ns	ns	ns	Y ³	ns	ns
	(OFF)	Y	ns	ns	ns	ns	Y ³	ns	ns
FONT	(MSMINCHO)	Y	ns	ns	ns	ns	Y ³	ns	ns
	MSGOTHIC	Y	ns	ns	ns	ns	Y ³	ns	ns

¹ PERSONALITY is only a port-specific variable for the LaserJet 4PJ printer. For all other printers, it is a general variable. For all other printers, see the PERSONALITY variable in the tables on pages A-12, A-23, and A-35.

² DeskJet 1600C — these variables are only available using the DEFAULT and DINQUIRE commands.

³ Only present when the optional ESC/P personality is installed.

Table A-3. PjL Environment Variables for HP LaserJet and DeskJet Printers

Environment Variable	Variable Values	4PJ 4LJ Pro	4 LC	5L 6L	5P 5MP	6P 6MP	5Si 5SiMx, Mopier	5 5M	1600C
PostScript-Specific Variables¹									
ADOBEMBT	OFF	ns	ns	ns	Y	ns	ns	ns	ns
	ON	ns	ns	ns	Y	ns	ns	ns	ns
	(AUTO)	ns	ns	ns	Y	ns	ns	ns	ns
JAMRECOVERY	(OFF)	ns	ns	ns	Y	Y	Y	Y	ns
	ON	ns	ns	ns	Y	Y	Y	Y	ns
PRTPSERRS	(OFF)	ns	ns	ns	Y	Y	Y	Y	ns
	ON	ns	ns	ns	Y	Y	Y	Y	ns
RESOURCESAVE-SIZE ²	0–max. available memory (100 Kb increments)	ns	ns	ns	Y	Y	Y	Y	ns

¹ Provided PostScript is installed. PostScript is an option in some printers.

² These variables can only be used with the DEFAULT, DINQUIRE, and INQUIRE commands. RESOURCESAVESIZE is a personality-specific variable.

Table A-4. P.JL Environment Variables for HP LaserJet Printers

Environment Variable	Variable Values	1100 Series	2100 Series	4500 Series	5000 Series	8000 Series	8100 Series	8500 Series
AUTOCONT ¹	OFF	(Y) ¹	(Y) ²	Y	Y	Y	Y	RO
	ON	Y ¹	Y ²	(Y)	(Y)	(Y)	(Y)	RO
AUTOSELECT	(ON)	ns	ns	ns	ns	ns	ns	ns
	OFF	ns	ns	ns	ns	ns	ns	ns
BINDING	(LONGEDGE)	ns	ns	Y	Y	ns	ns	Y
	SHORTEDGE	ns	ns	Y	Y	ns	ns	Y
BITSPERPIXEL	1 or (2) [or (8) ³]	ns	ns	Y ³	Y	Y	Y	ns
CLEARABLE-WARNINGS ¹	JOB	ns	ns	(Y)	(Y)	(Y)	(Y)	Y ¹
	ON	ns	ns	Y	Y	Y	Y	(Y) ¹
CONTEXT-SWITCH	(ON)	ns	ns	ns	ns	ns	ns	ns
	OFF	ns	ns	ns	ns	ns	ns	ns
COPIES	(1) to 999	Y	Y	Y	Y	Y	Y	Y
COURIER	(REGULAR)	ns	Y	Y	Y	Y	Y	Y
	DARK	ns	Y	Y	Y	Y	Y	Y
CPLOCK ²	(OFF)	ns	ns	Y	Y	Y	Y	Y
	ON	ns	ns	Y	Y	Y	Y	Y
	MINIMUM	ns	ns	Y	Y	Y	Y	Y
	MODERATE	ns	ns	Y	Y	Y	Y	Y
	MAXIMUM	ns	ns	Y	Y	Y	Y	Y
DENSITY ¹	1 to 5 (3)	Y ¹	Y ²	ns	Y ¹	Y ¹	Y ¹	Y ¹
DISKLOCK ²	(OFF)	ns	ns	ns	Y	Y	Y	Y
	ON	ns	ns	ns	Y	Y	Y	Y
DUPLEX	(OFF)	ns	ns	Y	Y	Y	Y	Y
	ON	ns	ns	Y	Y	Y	Y	Y
ECONOMODE	(OFF)	Y	Y	ns	Y	Y	Y	ns
	ON	Y	Y	ns	Y	Y	Y	ns
FINISH ⁴	(NONE)	ns	ns	ns	ns	Y	Y	ns
	STAPLE	ns	ns	ns	ns	Y	Y	ns
FORMLINES	5 to 128 (60)	Y	Y	Y	Y	Y	Y	Y

¹ When a SET or DEFAULT command is used with the AUTOCONT, CLEARABLEWARNINGS, or DENSITY variables, both the User Default and P.JL Current Environment settings are modified (except for the LaserJet 4L, 5L, 6L, and 1100 Series printers). It is recommended these variables not be changed on a job-by-job basis.

² Only modifiable using the DEFAULT command.

³ BITSPERPIXEL always snaps to 8 for the LaserJet 4500 printer.

⁴ FINISH is only modifiable using the SET command.

Table A-4. PJL Environment Variables for HP LaserJet Printers

Environment Variable	Variable Values	1100 Series	2100 Series	4500 Series	5000 Series	8000 Series	8100 Series	8500 Series
HOLD ¹	(OFF)	ns	ns	ns	ns	ns	Y	ns
	ON	ns	ns	ns	ns	ns	Y	ns
	PROOF	ns	ns	ns	ns	ns	Y	ns
	STORE	ns	ns	ns	ns	ns	Y	ns
	JOB	ns	ns	ns	ns	ns	ns	Y
HOLDKEY ¹	(""), 0000 to 9999	ns	ns	ns	ns	ns	Y	ns
HOLDTYPE ¹	(PUBLIC)	ns	ns	ns	ns	ns	Y	ns
	PRIVATE	ns	ns	ns	ns	ns	Y	ns
IMAGEADAPT	(AUTO)	Y	ns	ns	ns	ns	ns	ns
	OFF	Y	ns	ns	ns	ns	ns	ns
	ON	Y	ns	ns	ns	ns	ns	ns
INTRAY1	(UNLOCKED)	ns	Y	ns	ns	ns	ns	ns
	LOCKED	ns	Y	ns	ns	ns	ns	ns
INTRAY2	(UNLOCKED)	ns	Y	ns	ns	ns	ns	ns
	LOCKED	ns	Y	ns	ns	ns	ns	ns
INTRAY3	(UNLOCKED)	ns	Y	ns	ns	ns	ns	ns
	LOCKED	ns	Y	ns	ns	ns	ns	ns
INTRAY1SIZE	(LETTER)	ns	ns	RO	RO	RO	RO	RO
	LEGAL	ns	ns	RO	RO	RO	RO	RO
	A4	ns	ns	RO	RO	RO	RO	RO
	EXECUTIVE	ns	ns	RO	RO	RO	RO	RO
	LEDGER	ns	ns	ns	ns	RO	RO	RO
	A3, JISB4	ns	ns	ns	ns	RO	RO	RO
	JISB5	ns	ns	RO	RO	RO	RO	RO
	CUSTOM	ns	ns	RO	RO	RO	RO	RO
	COM10	ns	ns	RO	RO	RO	RO	RO
	MONARCH	ns	ns	RO	RO	RO	RO	RO
	C5, DL	ns	ns	RO	RO	RO	RO	RO
	B5	ns	ns	RO	RO	RO	RO	RO
	JPOST	ns	ns	ns	ns	ns	ns	RO
	JPOSTD	ns	ns	ns	ns	RO	RO	RO
	A5	ns	ns	RO	RO	RO	RO	RO
ROC8K, ROC16K	ns	ns	ns	ns	ns	RO	RO	
JISEXEC	ns	ns	ns	ns	ns	RO	RO	

¹ HOLD, HOLDKEY, and HOLDTYPE are only modifiable using the SET command.

Table A-4. PJL Environment Variables for HP LaserJet Printers

Environment Variable	Variable Values	1100 Series	2100 Series	4500 Series	5000 Series	8000 Series	8100 Series	8500 Series
INTRAY2SIZE	(LETTER)	ns	ns	RO	RO	RO	RO	RO
	LEGAL	ns	ns	RO	RO	RO	RO	RO
	A4	ns	ns	RO	RO	RO	RO	RO
	EXECUTIVE	ns	ns	RO	RO	ns	ns	RO
	LEDGER	ns	ns	ns	ns	ns	ns	RO
	A3	ns	ns	ns	ns	ns	ns	RO
	JISB4	ns	ns	ns	ns	RO	RO	RO
	JISB5	ns	ns	RO	RO	ns	ns	RO
	CUSTOM	ns	ns	RO	RO	ns	ns	RO
	A5	ns	ns	RO	ns	ns	ns	RO
	COM10	ns	ns	RO	ns	ns	ns	RO
UNKNOWNPAPER ¹	ns	ns	RO	ns	ns	ns	RO	
INTRAY3SIZE	(LETTER)	ns	ns	RO	RO	RO	RO	RO
	LEGAL	ns	ns	RO	RO	RO	RO	RO
	A4	ns	ns	RO	RO	RO	RO	RO
	EXECUTIVE	ns	ns	RO	RO	ns	ns	RO
	COM10, DL	ns	ns	ns	ns	ns	ns	RO
	MONARCH	ns	ns	ns	ns	ns	ns	RO
	LEDGER	ns	ns	ns	ns	RO	RO	RO
	A3, JISB4	ns	ns	ns	ns	RO	RO	RO
	JISB5	ns	ns	RO	RO	ns	ns	RO
	CUSTOM	ns	ns	RO	RO	ns	ns	RO
	UNKNOWNPAPER ¹	ns	ns	RO	ns	ns	ns	RO
INTRAY4SIZE	(COM10)	ns	ns	ns	RO	RO	RO	RO
	MONARCH	ns	ns	ns	RO	RO	RO	RO
	C5, DL, B5	ns	ns	ns	RO	RO	RO	RO
	JPOSTD	ns	ns	ns	ns	RO	RO	RO

¹ This variable responds with UNKNOWNPAPER when the paper tray is pulled out.

Table A-4. PJI Environment Variables for HP LaserJet Printers

Environment Variable	Variable Values	1100 Series	2100 Series	4500 Series	5000 Series	8000 Series	8100 Series	8500 Series
INTRAY5SIZE	LETTER	ns	ns	ns	RO	RO	RO	ns
	LEGAL	ns	ns	ns	RO	RO	RO	ns
	A4	ns	ns	ns	RO	RO	RO	ns
	A3	ns	ns	ns	ns	RO	RO	ns
	LEDGER	ns	ns	ns	ns	RO	RO	ns
	JISB4	ns	ns	ns	ns	RO	RO	ns
	EXEC	ns	ns	ns	RO	ns	ns	ns
	JISB5	ns	ns	ns	RO	ns	ns	ns
	CUSTOM	ns	ns	ns	RO	ns	ns	ns
INTRAY6SIZE	<i>Tray-dependent</i>	ns	ns	ns	RO	RO	RO	ns
INTRAY7SIZE	<i>Tray-dependent</i>	ns	ns	ns	RO	RO	RO	ns
INTRAY8SIZE	<i>Tray-dependent</i>	ns	ns	ns	RO	RO	RO	ns
IOBUFFER ¹	ON	ns	Y	Y	Y	Y	Y	ns
	OFF	ns	Y	Y	Y	Y	Y	ns
	AUTO	ns	Y	(Y)	(Y)	Y	Y	ns
IOSIZE ¹	10 to max. available memory	ns	Y	Y	Y	Y	Y	ns
JOBATTR	<i>"attribute string"</i>	ns	ns	Y	Y	Y	Y	Y
JOBID	(OFF)	ns	ns	Y	Y	Y	Y	ns
	ON	ns	ns	Y	Y	Y	Y	ns
JOBIDVALUE	0 to 65535	ns	ns	ns	Y	Y	Y	ns
JOBNAME	<i>"jobname string"</i>	ns	ns	ns	ns	ns	Y	Y
JOBOFFSET	OFF	ns	ns	ns	(Y)	Y	Y	ns
	(ON)	ns	ns	ns	Y	Y	Y	ns
¹ The IOBUFFER and IOSIZE variables can only be used with the DEFAULT, DINQUIRE, and INQUIRE commands.								

Table A-4. P JL Environment Variables for HP LaserJet Printers

Environment Variable	Variable Values	1100 Series	2100 Series	4500 Series	5000 Series	8000 Series	8100 Series	8500 Series
LANG	DANISH	ns	Y	Y	Y	Y	Y	Y
	GERMAN	ns	Y	Y	Y	Y	Y	Y
	ENGLISH	ns	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
	SPANISH	ns	Y	Y	Y	Y	Y	Y
	FRENCH	ns	Y	Y	Y	Y	Y	Y
	ITALIAN	ns	Y	Y	Y	Y	Y	Y
	DUTCH	ns	Y	Y	Y	Y	Y	Y
	NORWEGIAN	ns	Y	Y	Y	Y	Y	Y
	POLISH	ns	Y	Y	Y	Y	Y	ns
	PORTUGUESE	ns	Y	Y	Y	Y	Y	Y
	FINNISH	ns	Y	Y	Y	Y	Y	Y
	SWEDISH	ns	Y	Y	Y	Y	Y	Y
	TURKISH	ns	Y	ns	Y	Y	Y	ns
	JAPANESE	ns	ns	Y	Y	Y	Y	ns
	CHINESE	ns	ns	ns	ns	ns	ns	ns
	CZECH	ns	ns	Y	Y	Y	Y	ns
	HUNGARIAN	ns	ns	ns	Y	Y	Y	ns
RUSSIAN	ns	ns	Y	Y	Y	Y	ns	
LOWTONER	(CONTINUE)	ns	ns	Y	Y	Y	Y	Y
	STOP	ns	ns	Y	Y	Y	Y	Y
MANUALFEED	(OFF)	Y	Y	ns	Y	Y	Y	Y
	ON	Y	Y	ns	Y	Y	Y	Y
MEDIASOURCE	TRAY1	ns	ns	ns	ns	ns	ns	ns
	TRAY2	ns	ns	ns	ns	ns	ns	ns
	TRAY3	ns	ns	ns	ns	ns	ns	ns

Table A-4. P.JL Environment Variables for HP LaserJet Printers

Environment Variable	Variable Values	1100 Series	2100 Series	4500 Series	5000 Series	8000 Series	8100 Series	8500 Series
MEDIATYPE	TRANSPARENCY	ns	ns	ns	ns	ns	ns	Y
	GLOSSY	ns	ns	ns	ns	ns	ns	Y
	PAPER	ns	ns	ns	ns	ns	ns	Y
	PREPRINTED	ns	ns	ns	ns	ns	ns	Y
	LETTERHEAD	ns	ns	ns	ns	ns	ns	Y
	PREPUNCHED	ns	ns	ns	ns	ns	ns	Y
	LABELS	ns	ns	ns	ns	ns	ns	Y
	BOND	ns	ns	ns	ns	ns	ns	Y
	RECYCLED	ns	ns	ns	ns	ns	ns	Y
	COLOR	ns	ns	ns	ns	ns	ns	Y
	CARDSTOCK	ns	ns	ns	ns	ns	ns	Y
	HEAVY	ns	ns	ns	ns	ns	ns	Y
	TYPE28161	ns	ns	ns	ns	ns	ns	Y
	TYPE28162	ns	ns	ns	ns	ns	ns	Y
ENVELOPE	ns	ns	ns	ns	ns	ns	Y	
MPTRAY	MANUAL	ns	ns	ns	ns	ns	ns	ns
	CASSETTE	ns	Y	Y ¹	Y ¹	Y	Y	Y
	FIRST	ns	(Y)	(Y) ¹	(Y) ¹	(Y)	(Y)	Y
ORIENTATION	(PORTRAIT)	Y	Y	Y	Y	Y	Y	Y
	LANDSCAPE	Y	Y	Y	Y	Y	Y	Y
OUTBIN	(UPPER)	ns	ns	RO	Y	Y	Y	Y
	LOWER	ns	ns	ns	ns	Y	Y	Y
	OPTIONAL OUTPUTBIN1...16	ns	ns	ns	ns	Y	Y	Y (1.. 9)
OUTBINPROCESS	0 to 255	ns	ns	ns	ns	Y	Y	ns
OUTLINEPOINTSIZ	0 to 999 (72)	ns	ns	Y	Y	Y	Y	ns
OUTTNER	(STOP)	ns	ns	Y	ns	ns	ns	ns
	CONTINUE	ns	ns	Y	ns	ns	ns	ns
PAGEPROTECT	OFF	Y	ns	ns	ns	ns	ns	ns
	ON	Y	Y	ns	Y	Y	Y	ns
	AUTO	(Y)	(Y)	ns	(Y)	(Y)	(Y)	ns

¹ For LaserJet 5000 and Color LaserJet 4500 series printers, the MPTRAY variable can only be changed using the P.JL DEFAULT command.

Table A-4. PJI Environment Variables for HP LaserJet Printers

Environment Variable	Variable Values	1100 Series	2100 Series	4500 Series	5000 Series	8000 Series	8100 Series	8500 Series
PAPER (Letter, Legal, Ledger, A3, A4, Executive, JISB4, and JISB5 are paper sizes; Com10, C5, DL, Monarch, and B5 are envelope sizes; JPOST and JPOSTD are Japanese post card sizes; CUSTOM is for feeding other sizes, such as 3 x 5 cards and labels)	LETTER ³	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
	LEGAL	Y	Y	Y	Y	Y	Y	Y
	A4 ³	Y	Y	Y	Y	Y	Y	Y
	LEDGER	ns	ns	ns	ns	Y	Y	Y
	A3, JISB4	ns	ns	ns	ns	Y	Y	Y
	JISB5	ns	Y	Y	Y	Y	Y	Y
	EXECUTIVE	Y	Y	Y	Y	Y	Y	Y
	COM10 ³	Y	Y	Y	Y	Y	Y	Y
	MONARCH	Y	Y	Y	Y	Y	Y	Y
	DL ³	Y	Y	Y	Y	Y	Y	Y
	C5	Y	Y	Y	Y	Y	Y	Y
	B5	Y	Y	Y	Y	Y	Y	Y
	CUSTOM	ns	Y	Y	Y	Y	Y	Y
	JPOST	ns	Y	ns	ns	ns	ns	ns
	JPOSTD	ns	Y	ns	ns	Y	Y	Y
	A5	ns	Y	Y	Y	Y	Y	Y
ROC8K, ROC16K	ns	ns	ns	ns	ns	Y	ns	
JISEXEC	ns	ns	ns	ns	ns	Y	ns	
PARALLEL	SLOW	ns	ns	ns	ns	ns	ns	ns
	FAST	ns	ns	ns	ns	ns	ns	ns
PASSWORD ¹	(0) to 65535	ns	Y	Y	Y	Y	Y	Y
PERSONALITY ²	AUTO	ns	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
	PCL	(Y)	Y	Y	Y	Y	Y	Y
	POSTSCRIPT	ns	Y	Y	Y	Y	Y	Y
PLANESINUSE	1 or (3) ⁴	ns	ns	Y	ns	ns	ns	ns
POWERSAVE	ON	ns	ns	(Y)	(Y)	(Y)	(Y)	Y
	OFF	ns	ns	Y	Y	Y	Y	Y

¹ The PASSWORD variable is only supported with the DEFAULT, DINQUIRE, and INQUIRE commands.

² For the LaserJet 4PJ printer, PERSONALITY is a port-specific variable. For all other LaserJet printers, personality is not I/O port-specific. Available only if the optional ESC/P personality is installed.

³ If configured for metric paper sizes, A4 is the default paper size and DL is the default envelope size.

⁴ Monochrome = 1, color = 3

Table A-4. PjL Environment Variables for HP LaserJet Printers

Environment Variable	Variable Values	1100 Series	2100 Series	4500 Series	5000 Series	8000 Series	8100 Series	8500 Series
POWERSAVETIME	1	ns	ns	Y	ns	ns	ns	ns
	15	ns	ns	ns	Y	Y	Y	ns
	30	ns	ns	Y	(Y)	Y	Y	Y
	60	ns	ns	(Y)	Y	(Y)	(Y)	Y
	120	ns	ns	Y	Y	Y	Y	ns
	180	ns	ns	ns	Y	Y	Y	Y
	240	ns	ns	Y	ns	ns	ns	ns
	480	ns	ns	Y	ns	ns	ns	Y
PRINTQUALITY	DRAFT	ns	ns	ns	ns	ns	ns	ns
	NORMAL	ns	ns	ns	ns	ns	ns	ns
	HIGH	ns	ns	ns	ns	ns	ns	ns
QTY	(1) to 999	ns	ns	ns	Y	Y	Y	Y
RENDERMODE	COLOR	ns	ns	ns	ns	ns	ns	Y
	GRAYSCALE	ns	ns	ns	ns	ns	ns	Y
REPRINT	(AUTO)	ns	Y	ns	Y	Y	Y	ns
	ON	ns	Y	Y	Y	Y	Y	ns
	OFF	ns	Y	(Y)	Y	Y	Y	ns
RESOLUTION	300	Y	Y	ns	Y	Y	Y	ns
	600	(Y)	Y	(Y)	(Y)	(Y)	(Y)	(Y)
	1200	ns	(Y)	ns	Y	ns	ns	ns
RESOURCESAVE ¹	ON	ns	Y	ns	Y	Y	Y	ns
	OFF	ns	Y	ns	(Y)	(Y)	(Y)	ns
	AUTO	ns	(Y)	ns	Y	Y	Y	ns
RET	OFF	Y	Y	ns	Y	Y	Y	ns
	LIGHT	n	Y	ns	Y	Y	Y	ns
	MEDIUM	n	(Y)	ns	(Y)	(Y)	(Y)	ns
	DARK	n	Y	ns	Y	Y	Y	ns
	ON	(Y)	ns	ns	ns	ns	ns	ns
TIMEOUT	5 to 300 (15)	ns	Y	Y	Y	Y	Y	Y

¹ These variables can only be used with the DEFAULT, DINQUIRE, and INQUIRE commands. RESOURCESAVESIZE is a personality-specific variable.

Table A-4. PCL Environment Variables for HP LaserJet Printers

Environment Variable	Variable Values	1100 Series	2100 Series	4500 Series	5000 Series	8000 Series	8100 Series	8500 Series
USERNAME	" <i>username string</i> "	ns	ns	ns	ns	ns	Y	Y
WIDEA4	(NO)	ns	Y	ns	Y	Y	Y	Y
	YES	ns	Y	ns	Y	Y	Y	Y
PCL-Specific Variables								
FONTNUMBER	(0) to n (maximum value depends on the currently set font source)	Y	Y	Y	Y	Y	Y	Y
FONTSOURCE	(l)	Y	Y	(Y)	Y	Y	Y	Y
	M1,M2,M3 . . Mn	ns	Y	Y	Y	Y	Y	Y
	C	ns	ns	ns	ns	ns	ns	ns
	C1	ns	ns	ns	ns	ns	ns	ns
	C2	ns	ns	ns	ns	ns	ns	ns
	S	Y	Y	Y	Y	Y	Y	Y
LINETERMINATION	(0), 1, 2, 3	ns	Y	ns	ns	ns	ns	ns
PITCH	0.44 to 99.99 (10.00)	Y	Y	Y	Y	Y	Y	Y
PTSIZE	4.00 to 999.75 (12.00)	Y	Y	Y	Y	Y	Y	Y
RESOURCE-SAVESIZE ¹	0 to max. available memory (in 100 Kb increments)	ns	Y	ns	Y	Y	Y	ns

¹ These variables can only be used with the DEFAULT, DINQUIRE, and INQUIRE commands. RESOURCESAVESIZE is a personality-specific variable.

Table A-4. P.JL Environment Variables for HP LaserJet Printers

Environment Variable	Variable Values	1100 Series	2100 Series	4500 Series	5000 Series	8000 Series	8100 Series	8500 Series
SYMSET (continued on the following pages)	DESKTOP	Y	Y	Y	Y	Y	Y	Y
	ISO4	Y	Y	Y	Y	Y	Y	Y
	ISO6	Y	Y	Y	Y	Y	Y	Y
	ISO11	Y	Y	Y	Y	Y	Y	Y
	ISO15	Y	Y	Y	Y	Y	Y	Y
	ISO17	Y	Y	Y	Y	Y	Y	Y
	ISO21	Y	Y	Y	Y	Y	Y	Y
	ISO60	Y	Y	Y	Y	Y	Y	Y
	ISO69	Y	Y	Y	Y	Y	Y	Y
	ISOL1	Y	Y	Y	Y	Y	Y	Y
	ISOL2	Y	Y	Y	Y	Y	Y	Y
	ISOL5	Y	Y	Y	Y	Y	Y	Y
	ISOL6	ns	Y	Y	Y	Y	Y	Y
	LEGAL	Y	Y	Y	Y	Y	Y	Y
	MATH8	Y	ns	ns	ns	ns	ns	ns
	MCTEXT	Y	Y	Y	Y	Y	Y	Y
	MSPUBL	Y	ns	ns	ns	ns	ns	ns
	PC775	ns	Y	Y	Y	Y	Y	Y
	PC8	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
	PC850	Y	Y	Y	Y	Y	Y	Y
	PC852	Y	Y	Y	Y	Y	Y	Y
	PC8DN	Y	Y	Y	Y	Y	Y	Y
	PC8TK	Y	Y	Y	Y	Y	Y	Y
	PC1004	ns	Y	Y	Y	Y	Y	Y
	PIFONT	Y	ns	ns	ns	ns	ns	ns
	PSMATH	Y	ns	ns	ns	ns	ns	ns
	PSTEXT	Y	Y	Y	Y	Y	Y	Y
	ROMAN8	Y	Y	Y	Y	Y	Y	Y
	VNINTL	Y	ns	ns	ns	ns	ns	ns
	VNMATH	Y	ns	ns	ns	ns	ns	ns
	VNUS	Y	ns	ns	ns	ns	ns	ns
	WIN30	Y	Y	Y	Y	Y	Y	Y
	WINBALT	ns	Y	Y	Y	Y	Y	Y
	WINL1	Y	Y	Y	Y	Y	Y	Y
WINL2	Y	Y	Y	Y	Y	Y	Y	

Table A-4. P.JL Environment Variables for HP LaserJet Printers								
Environment Variable	Variable Values	1100 Series	2100 Series	4500 Series	5000 Series	8000 Series	8100 Series	8500 Series
SYMSET continued	WINL5	Y	Y	Y	Y	Y	Y	Y
	WIN31J	ns	ns	ns	Y	Y	Y	ns
Port-Specific Variables								
PERSONALITY ²	ESCP	ns	ns	ns	ns	ns	ns	ns
	PCL	ns	ns	ns	ns	ns	ns	ns
ESC/P-Specific Variables¹								
CARRIAGE-RETURN	(CR)	ns	ns	ns	ns	ns	ns	ns
	CRLF	ns	ns	ns	ns	ns	ns	ns
CHARACTER-SET	(KANA)	ns	ns	ns	ns	ns	ns	ns
	EG	ns	ns	ns	ns	ns	ns	ns
TOPMARGIN	(TM19MM)	ns	ns	ns	ns	ns	ns	ns
	TM6MM	ns	ns	ns	ns	ns	ns	ns
ANKCONDENSE	ON	ns	ns	ns	ns	ns	ns	ns
	(OFF)	ns	ns	ns	ns	ns	ns	ns
FONT	(MSMINCHO)	ns	ns	ns	ns	ns	ns	ns
	MSGOTHIC	ns	ns	ns	ns	ns	ns	ns
¹ Only present when the optional ESC/P personality is installed ² PERSONALITY is only a port-specific variable for the LaserJet 4PJ printer. For all other printers, it is a general variable. For all other printers, see the PERSONALITY variable in the tables on pages A-12, A-23, and A-35.								
PostScript-Specific Variables¹								
ADOBEMBT	OFF	ns	ns	ns	ns	ns	ns	ns
	ON	ns	ns	ns	ns	ns	ns	ns
	(AUTO)	ns	ns	ns	ns	ns	ns	ns
JAMRECOVERY	(OFF)	ns	Y	ns	ns	ns	ns	Y
	ON	ns	Y	ns	ns	ns	ns	Y
PRTPSERRS	(OFF)	ns	Y	Y	Y	Y	Y	Y
	ON	ns	Y	Y	Y	Y	Y	Y
RESOURCE-SAVESIZE ²	0 to max. available memory (in 100 Kb increments)	ns	Y	ns	Y	Y	Y	ns
¹ Provided PostScript is installed. PostScript is an option in some printers. ² These variables can only be used with the DEFAULT, DINQUIRE, and INQUIRE commands. RESOURCESAVESIZE is a personality-specific variable.								

Table A-5. PJL Environment Variables for HP DesignJets

Environment Variable ¹	Variable Values	230	250C	330	350C	430	450C	455CA	488CA
COMPRESSRAST.	(all values)	ns	ns	ns	ns	ns	ns	ns	ns
IMAGELOCATION	(all values)	ns	ns	ns	ns	ns	ns	ns	ns
MARGINS	NORMAL	ns	ns	ns	ns	ns	ns	ns	ns
	SMALLER	ns	ns	ns	ns	ns	ns	ns	ns
	EXTENDED	ns	ns	ns	ns	ns	ns	ns	ns
MEDIASOURCE	(all values)	ns	ns	ns	ns	ns	ns	ns	ns
MIRROR	ON, (OFF)	Y	Y	Y	Y	Y	Y	Y	Y
ORIENTATION	(PORTRAIT)	Y	Y	Y	Y	Y	Y	Y	Y
	LANDSCAPE	Y	Y	Y	Y	Y	Y	Y	Y
PAGELNGTH-ACCURACY	(all values)	ns	ns	ns	ns	ns	ns	ns	ns
PALETTESOURCE	(DEVICE)	Y	Y	Y	Y	Y	Y	Y	Y
	SOFTWARE	Y	Y	Y	Y	Y	Y	Y	Y
PAPERLENGTH	0 to 432000	Y	Y	Y	Y	Y	Y	Y	Y
PAPERWIDTH	0 to 432000	Y	Y	Y	Y	Y	Y	Y	Y
PRINTAREA	(FULLSIZE)	ns	ns	ns	ns	Y	Y	Y	Y
	INKEDAREA	ns	ns	ns	ns	Y	Y	Y	Y
REFILLDURAT'N	(all values)	ns	ns	ns	ns	ns	ns	ns	ns
REFILLTHRESH.	(all values)	ns	ns	ns	ns	ns	ns	ns	ns
REFILLTYPE	(all values)	ns	ns	ns	ns	ns	ns	ns	ns
RENDERMODE	(COLOR)	ns	Y	ns	Y	ns	Y	Y	Y
	GRAYSCALE	ns	Y	ns	Y	ns	Y	Y	Y
RESOLUTION	(300)	Y	Y	Y	Y	Y	Y	Y	Y
	600	ns	ns	ns	ns	ns	ns	ns	ns
RET	ON	ns	ns	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
	OFF	ns	ns	Y	Y	Y	Y	Y	Y
	AUTO	ns	ns	ns	ns	ns	ns	ns	ns

¹ The HP DesignJet 200, 220, 600, and 650C do not support any environment variables.

Table A-5. P JL Environment Variables for HP DesignJets

Environment Variable ¹	Variable Values	700	750C	750C Plus	755CM	1050C	1055CM
COMPRESSRAST.	(all values)	ns	ns	ns	ns	Y	Y
IMAGELOCATION	(all values)	ns	ns	ns	ns	Y	Y
MARGINS	NORMAL	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
	SMALLER	Y	Y	Y	Y	ns	ns
	EXTENDED	ns	ns	ns	ns	Y	Y
MEDIASOURCE	(all values)	ns	ns	ns	ns	Y	Y
MIRROR	ON, (OFF)	Y	Y	Y	Y	Y	Y
ORIENTATION	(PORTRAIT)	Y	Y	Y	Y	Y	Y
	LANDSCAPE	Y	Y	Y	Y	Y	Y
PAGELENGTH-ACCURACY	EXACT	ns	ns	ns	ns	ns	ns
	OPTIMIZED	ns	ns	ns	ns	Y	Y
	CONSTANT	ns	ns	ns	ns	ns	ns
	MAXIMUM	ns	ns	ns	ns	Y	Y
PALETTESOURCE	(DEVICE)	Y	Y	Y	Y	Y	Y
	SOFTWARE	Y	Y	Y	Y	Y	Y
PAPERLENGTH	0 to 432000	Y	Y	Y	Y	Y	Y
PAPERWIDTH	0 to 432000	Y	Y	Y	Y	Y	Y
PRINTAREA	(FULLSIZE)	Y	ns	Y	Y ²	Y	Y
	INKEDAREA	Y	ns	Y	Y ²	Y	Y
REFILLDURAT'N	(all variables)	ns	ns	ns	ns	ns	ns
REFILLTHRESH.	(all variables)	ns	ns	ns	ns	ns	ns
REFILLTYPE	(all variables)	ns	ns	ns	ns	ns	ns
RENDERMODE	(COLOR)	ns	Y	Y	Y	Y	Y
	GRAYSCALE	ns	Y	Y	Y	Y	Y
RESOLUTION	(300), 600	Y	Y	Y	Y	Y	Y
RET	ON	ns	ns	Y	(Y ²)	(Y)	(Y)
	OFF	ns	ns	Y	Y ²	Y	Y
	AUTO	ns	ns	(Y)	Y ²	Y	Y

¹ The HP DesignJet 200, 220, 600, and 650C do not support any environment variables.

² Supported on the model C3198B only.

Table A-5. P.JL Environment Variables for HP DesignJets

Environment Variable	Variable Values	2000CP	2500CP	3000CP	3500CP
COMPRESSRASTER-STORAGE	(ON)	ns	ns	ns	ns
	OFF	ns	ns	ns	ns
IMAGELOCATION	(DISK), RAM	ns	ns	ns	ns
MARGINS	NORMAL	Y	Y	Y	Y
	SMALLER	Y	Y	Y	Y
	EXTENDED	(Y)	(Y)	(Y)	(Y)
MEDIASOURCE	MANUALFEED	ns	ns	ns	ns
	ROLL1	ns	ns	ns	ns
MIRROR	ON, (OFF)	Y	Y	Y	Y
ORIENTATION	(PORTRAIT)	Y	Y	Y	Y
	LANDSCAPE	Y	Y	Y	Y
PAGELENGTH-ACCURACY	EXACT	Y	Y	Y	Y
	OPTIMIZED	Y	Y	Y	Y
	CONSTANT	Y	Y	Y	Y
	MAXIMUM	ns	ns	ns	ns
PALETTESOURCE	(DEVICE), SOFTWARE	Y	Y	Y	Y
PAPERLENGTH	0 to 432000	Y	Y	Y	Y
PAPERWIDTH	0 to 432000	Y	Y	Y	Y
PRINTAREA	(FULLSIZE)	Y	Y	Y	Y
	INKEDAREA	Y	Y	Y	Y
REFILLDURATION	NORMAL, QUICK	ns	ns	Y	Y
REFILLTHRESHOLD	5 to 100	ns	ns	Y	Y
REFILLTYPE	INTERLEAVED	ns	ns	Y	Y
	SHARP	ns	ns	Y	Y
RENDERMODE	(COLOR)	Y	Y	Y	Y
	GRAYSCALE	Y	Y	Y	Y
RESOLUTION	(300)	Y	Y	Y	Y
	600	Y	Y	Y	Y
RET	ON	ns	ns	ns	ns
	OFF	ns	ns	ns	ns
	AUTO	ns	ns	ns	ns

HP LaserJet III Si Comments

The LaserJet III Si printer implements the three PDL kernel commands: ENTER, COMMENT, and the UEL command.

As with other PDL printers, the HP LaserJet III Si printer performs explicit printer language switching using the ENTER command. To enable the printer for language switching, the SYS SWITCH control panel setting must be set to ON. To select a default printer language for implicit switching, set SYS = to the desired language (PCL or PostScript) from the control panel. The LaserJet III Si printer does not perform context switching.

The HP LaserJet III Si printer does not support any PDL status readback commands, environment variable commands, or device attendance commands.

For an example that uses the PDL features found in the HP LaserJet III Si printer, see the "Using the ENTER Command" example in Chapter 4.

Comments about HP LaserJet Printers

This section explains some important points that should be considered when using P/L with HP LaserJet 4, LaserJet 5, and Color LaserJet printer families, and the HP LaserJet 6P/6MP printers. Support for the features described in this section varies. HP LaserJet family printers that support a particular feature are listed at the beginning of each feature description.

Printer Language Switching

Printers supporting printer language switching:

HP LaserJet 4, 4M, 4 Plus, 4M Plus, 4V, 4MV, 4Si, 4SiMx, 4ML, 4P, 4MP, 4PJ, 4LJ Pro, 4000 series, 5, 5M, 5P, 5MP, 6P, 6MP, 5Si, 5SiMx, 5Si Mopier, HP Color LaserJet, HP Color LaserJet 5, 5M, 2100 series, 4500 series, 5000 series, 8000 series, 8100 series, 8500 series

Printers that perform context switching automatically switch printer languages when both of the following conditions are met:

- The PERSONALITY variable is set to AUTO.
- The print job contains printable data but does not contain an ENTER command immediately before the printable data.

Note

HP LaserJet 4PJ and 4LJ Pro printers perform implicit language switching, but not context switching.

HP LaserJet 4V and 4MV printers cannot context-switch into the ESC/P language—use explicit switching instead.

Under these conditions, the printer samples the incoming printable data and looks for indications of a particular printing language. Once it recognizes the printer language, the printer backs up to the beginning of the sampled print data and switches to the printer language determined to be most appropriate. Then the printer begins to parse the data in the newly selected printer language.

Although the printer can accurately select printer languages this way, we recommend that every job containing printable data include an ENTER LANGUAGE command to explicitly switch to the correct printer language. This method improves performance and eliminates errors in printer language switching. It also guarantees that the correct language is always selected.

Printer Status Readback

Printers supporting printer status readback:
--

HP LaserJet 4, 4M, 4 Plus, 4M Plus, 4V, 4MV, 4Si, 4SiMx, 4L, 4ML, 4P, 4MP, 4PJ, 4LJ Pro, 4LC, 4000 series, 5, 5M, 5L, 5P, 5MP, 6L, 6P, 6MP, 5Si, 5SiMx, 5Si Mopier, HP Color LaserJet, HP Color LaserJet 5, 5M, 1100 series, 2100 series, 4500 series, 5000 series, 8000 series, 8100 series, 8500 series

When requesting status information from the printer, ignore all status information that you did not request. For example, if you request INFO ID and get USTATUS or some other response, ignore that response and read the next one until you receive the INFO ID response.

Due to other printer users in a multi-user system, there may be situations where the printer status buffer overflows, and instead of receiving requested status information, you receive the 10010 error. (For the HP LaserJet 4 and 5 family printers except for the LaserJet 4PJ, the 30010 error is returned for “buffer overflow” instead of the normal 10010 error code. HP LaserJet 4PJ and 4LJ Pro printers return the 10010 error code.) Reading the 10010 or 30010 error clears the status buffer; if you receive either error, resend the status request.

Commands That Affect Printer Memory

Printers that reconfigure memory due to PJP commands:

HP LaserJet 4, 4M, 4 Plus, 4M Plus, 4V, 4MV, 4Si, 4SiMx, 4ML, 4P, 4MP, 4PJ, 4LJ Pro, 4LC, 4000 series, 5, 5M, 5P, 5MP, 6L, 6P, 6MP, 5Si, 5SiMx, 5Si Mopier, HP Color LaserJet, HP Color LaserJet 5, 5M, LaserJet 1100 series, 2100 series, 4500 series, 5000 series, 8000 series, 8100 series, 8500 series
--

Four conditions may cause the printer to reconfigure user memory:

- When the printer language changes, either implicitly or explicitly by using the ENTER LANGUAGE command (except when resource saving is enabled).
- When the page protection setting changes, using the SET or DEFAULT commands, or when the printer is reset using the RESET or INITIALIZE commands or by using the control panel.
- When the resolution is changed using either the SET or DEFAULT commands, or by using the control panel.
- When changing the I/O buffering or resource saving settings.

Reconfiguring printer memory erases all volatile personality-specific resource information, including downloaded fonts, PCL macros, and PostScript dictionaries (however no I/O data is lost). Memory can be reconfigured only when these conditions actually change the page protection, resolution, or printer language status. For example, if the resolution is at 600 dpi and an application sends the @PJP SET RESOLUTION = 600 command, memory is not reconfigured.

If *resource saving* is enabled, memory is reconfigured, but all volatile personality-specific resource information (such as fonts, macros, and PostScript dictionaries) are not lost (see “Resource Saving” below). If resource saving is disabled, these resources are erased.

Resource Saving

Printers that support resource saving:
--

HP LaserJet 4 Plus, 4M Plus, 4V, 4MV, 4Si, 4SiMx, 4000 series, 5, 5M, 5P, 5MP, 6P, 6MP, 5Si, 5SiMx, 5Si Mopier, 2100 series, 5000 series, 8000 series, 8100 series
--

Resource saving is a feature that allows you to prevent loss of permanent resources (such as fonts, macros, and PostScript dictionaries) when the printer language, page protection, or resolution status changes. You can use either PjL or the control panel to configure resource saving on HP LaserJet 4 Plus, 4M Plus, 4V, and 4MV printers. For

HP LaserJet 4Si/4SiMx and 5Si/5SiMx printers, resource saving is only configurable from the control panel.

Printer-Specific Job Boundaries

Printers that support PjL job boundaries:

HP LaserJet 4, 4M, 4 Plus, 4M Plus, 4V, 4MV, 4Si, 4SiMx, 4ML, 4P, 4MP, 4PJ, 4LJ Pro, 4LC, 4000 series, 5, 5M, 5P, 5MP, 6P, 6MP, 5Si, 5SiMx, 5Si Mopier, HP Color LaserJet, HP Color LaserJet 5, 5M, 4500 series, 8500 series, LaserJet 2100 series, 5000 series, 8000 series, 8100 series

The printers listed above handle the following conditions as PjL job boundaries. When any of these conditions occur, the User Default Environment values are loaded into the PjL Current Environment, which then are loaded into the Modified Print Environment.

- Control panel reset
- Printer language-specific exit command, such as ^D for PostScript. (Printer language-specific exit commands are not job boundaries when within a PjL JOB/EOJ command pair.)
- Data stream idle timeout (this occurs when a PjL job is in progress and there is no data received over the I/O for a specified length of time). To avoid a timeout, use the PjL JOB or ENTER commands, since using the JOB or ENTER commands increases the time the printer waits for I/O data. This increase is because the printer is processing a job with clearly indicated start-of-job and end-of-job data stream commands. See the following “Timeouts” section.

- Using the control panel to perform a self test, or to print a typeface list or demo page.
- A job boundary indicated by the I/O card, such as the AppleTalk end-of-file.

Timeouts

Printers that support the TIMEOUT variable:
HP LaserJet 4, 4M, 4 Plus, 4M Plus, 4V, 4MV, 4Si, 4SiMx, 4ML, 4P, 4MP, 4PJ, 4LJ Pro, 4LC, 4000 series, 5, 5M, 5P, 5MP, 6P, 6MP, 5Si, 5SiMx, 5Si Mopier, 2100 series, 4500 series, 5000 series, 8000 series, 8100 series, 8500 series

These printers have a timeout capability which is used to recover when jobs are interrupted by situations such as power failures. The timeout duration varies depending on the data received by the printer.

The TIMEOUT variable set using PJJ or the control panel establishes the job timeout duration for those jobs that do not contain JOB or ENTER commands. For jobs that do contain the JOB or ENTER commands, the printer uses an extended timeout duration, which is equal to five minutes or ten times the TIMEOUT value, whichever is greatest.

Backward-Compatibility Mode

Printers that support the backward-compatibility mode:

HP LaserJet 4, 4M, 4 Plus, 4M Plus, 4V, 4MV, 4Si, 4SiMx, 4L, 4ML, 4P, 4MP, 4PJ, 4LJ Pro, 4LC, 4000 series, 5, 5M, 5L, 5P, 5MP, 6L, 6P, 6MP, 5Si, 5SiMx, 5Si Mopier, HP Color LaserJet, HP Color LaserJet 5, 5M, 1100 series, 2100 series, 4500 series, 5000 series, 8000 series, 8100 series, 8500 series

If the printer detects PCL data immediately after a job boundary, it enters a backward-compatibility mode that responds like an HP LaserJet III printer. This lasts until the next job boundary is detected. For backward-compatibility mode to occur, the PERSONALITY variable must be set to AUTO or PCL, and the job must contain only PCL data—if any PJJ commands are received during the job, the printer does not enter backward-compatibility mode.

There are two differences between backward-compatibility mode and normal operating mode. In backward-compatibility mode, when a PCL printer language reset (<ESC>E) is executed, instead of causing the PJJ Current Environment variables to be loaded into the Modified Print Environment, the User Default Environment settings (control panel values) are loaded. This is the same way the LaserJet III printer works.

Note

Because HP LaserJet 4L, 5L, 6L, and 1100 series printers do not support job boundaries (JOB/EOJ), they always load the PJJ Current Environment variables into the Modified Print Environment after receiving an <ESC>E reset.

Also, when a backward-compatible job ends with a partial page (one not terminated with a form feed or PCL printer language reset) and the job times out, the job does not immediately end, printing the partial page. Instead, the printer waits to see if the next job sent consists of more PCL data (from the same I/O port), which it then appends to the partial page already in the printer. (This works the same way as the HP LaserJet III printer, which does not have a job timeout.) If PJJ data is received instead, the partial page is printed before the new PJJ job is executed.

PJL Job Security

Printers that support PJL job security:

HP LaserJet 4/4M Plus, 4V, 4MV, 4Si, 4SiMx, 4000 series, 5, 5M, 5Si, 5SiMx, 5Si Mopier, 2100 series, 4500 series, 5000 series, 8000 series, 8100 series, 8500 series (5P, 5MP, 6P, 6MP, 2100: password only),

The printers listed above provide two PJL security features: password protection and control panel lockout. HP LaserJet 4V/4MV and 5Si/5SiMx printers also provide disk lock protection. As discussed in Chapter 5, the DEFAULT command can be used to set a PJL password. Once the password is set, all succeeding jobs must issue the correct password in order to enable the DEFAULT and INITIALIZE commands. The password can only be changed from within a secure PJL job.

On printers with a control panel, the control panel can be “locked out” so that users cannot modify settings using the control panel keys. This is accomplished using the DEFAULT command to set the CPLOCK variable to ON.

The LaserJet 4V/4MV and 5Si/5SiMx printer's disk can be “locked” so that it cannot be formatted, fonts cannot be written to it, and disk fonts cannot be erased. For more information on CPLOCK, DISKLOCK and other security issues, see “PJL Job Security” in Chapter 5.

LaserJet Printers with Reduced-Function Control Panels

HP LaserJet 4L, 4LJ Pro, 4ML, 4LC, 5P, 6P, 6MP, 5L, 6L and 1100 series printers have no control panel to specify printer settings. These printers have several features that are different than those of other PJJ printers. This section describes those differences and how they affect the use of PJJ.

- No device attendance commands are supported—these printers rely on unsolicited status to inform the user.
- No NVRAM (HP LaserJet 4L/5L/6L only)—because these printers are designed to conserve energy and do not have a power switch, they are never turned off. Therefore, they do not need NVRAM to store feature settings. To simulate a power cycle, use the RESET command to initialize all PJJ variables except PAPERSIZE.
- For the LaserJet 1100 series printers, the RESET command does not initialize the PAGECOUNT, SYMSET, and PAPER variables. Instead, it sets the current value equal to the stored default value.
- For the LaserJet 1100 series printers, the INITIALIZE command does not reset the PJJ variables stored in NVRAM back to the factory values. It sets their current values to the stored default values.
- No multiple I/Os or job boundaries supported (LaserJet 4L/5L/6L/1100 series only)—these printers are designed for single-user environments. They do not support I/O switching or the concept of job boundaries. Therefore, the JOB and EOJ commands are not supported.
- No multiple language support (LaserJet 4L/5L/6L only)—there is no support for multiple printer languages. PCL 5 is the sole printer language. Even though there is only one language, use the PJJ ENTER LANGUAGE command to specify PCL.
- EconoMode—a toner-saving feature that produces draft-like pages when top-quality printing is not necessary.

Color LaserJet Printer Comments

The Color LaserJet printer supports context-sensitive language switching, true end-of-job notification, job boundary recognition, and automatic I/O switching. See the PJL Feature Support table in the beginning of this chapter for a list of the PJL features supported. Note that the SET and INQUIRE commands are limited to only being used with the RET variable.

HP DeskJet 1200C and 1600C Printer Family Comments

This sections explains some important points that should be considered when using PJL with the DeskJet 1200C and 1600C family printers. Support for the features described in this section varies. The HP DeskJet 1200C and 1600C family printers that support a particular feature are listed at the beginning of each feature description.

Printer Language Switching

Printers that support printer language switching:
HP DeskJet 1200C, 1200CM, 1600C, 1600CM

Printers that perform context switching automatically switch printer languages when both of the following conditions are met:

- For the DeskJet 1200C and 1200CM: when the rear panel DIP switch is set in the “Context On” position.
- For the DeskJet 1600C and 1600CM: when the PJL “CONTEXTSWITCH” environment variable is set to ON.
- The print job contains printable data but does not contain a PJL ENTER LANGUAGE command immediately before the printable data.

Under these conditions, the printer samples the incoming printable data and looks for indications of a particular printer language. Once it recognizes the printer language, the printer backs up to the beginning of the sampled print data and switches to the printer language determined to be most appropriate. Then the printer begins to parse the data in the newly selected printer language.

Although the printer can accurately select printer languages this way, we recommend that every job containing printable data include an ENTER LANGUAGE command to explicitly switch to the correct printer language. This method improves performance and eliminates errors in printer language switching. It also guarantees that the correct language is always selected.

Note

The value of the PARALLEL feature as shipped from the factory is FAST. When a front panel reset is performed, the value is defaulted to SLOW.

Printer Environment

Printers that support printer environment variables:
--

HP DeskJet 1600C, 1600M

Unlike most PJI variables, the following environment variable defaults are not stored in the printer's NVRAM. The primary use is to set job-specific parameters like those available through the DeskJet 1200C family front panel. This means that they will be reset to the factory default values after a power cycle.

Variables Not Stored in NVRAM	
COPIES	PAGEPROTECT
FORMLINES	PAPER
MEDIASOURCE	PRINTQUALITY
MEDIATYPE	RENDERMODE
ORIENTATION	RESOLUTION

Printer Status Readback

Printers that support printer status readback:
HP DeskJet 1600C, 1600M

Because the DeskJet 1600C and 1600CM do not support USTATUS or INFO, only the requested status information will come back from the printer.

Commands That Affect Printer Memory

Printers affected by memory reconfiguration:
HP DeskJet 1600C, 1600M

Three conditions may cause the printer to reconfigure user memory:

- When the printer language changes, either explicitly by using the ENTER command, or implicitly.
- When the page protection setting changes, either using the SET, DEFAULT, or RESET commands.
- When the resolution is changed using either the SET or DEFAULT commands.

Reconfiguring printer memory may erase all volatile personality-specific resource information, including downloaded fonts, PCL macros, and PostScript dictionaries (however no I/O data is lost). Memory can be reconfigured only when these conditions actually change the page protection, resolution, or printer language status. For example, if the resolution is at 600 dpi and an application sends the @PJL SET RESOLUTION = 600 command, memory is not reconfigured.

Resource Saving

None of the DeskJet 1200C or 1600C printer families support resource saving.

Printer Specific Job Boundaries

Printers that support printer specific job boundaries:
--

HP DeskJet 1200C, 1200CM, 1600C, 1600CM

Unlike the LaserJet 4 family of printers, no implicit PJI job boundaries are recognized. There are no additional conditions which will cause the User Default Environment values to be loaded into the PJI Current Environment, or (subsequently) to be loaded into the Modified Print Environment.

Timeouts

Printers that support printer timeouts:

HP DeskJet 1600C, 1600CM

These printers have a timeout capability which is used to recover when jobs are interrupted by situations such as host failures. The timeout duration varies depending on the data received by the printer.

The TIMEOUT variable set using PJI establishes the I/O timeout durations to wait before switching to another pending I/O. If the printer has not received printable data, it will wait for the TIMEOUT duration before closing the current job and switching to another pending I/O. If the printer has received printable data and is waiting for more data, the printer uses an extended timeout duration, which is equal to five minutes or ten times the TIMEOUT value, whichever is greatest.

HP LaserJet 5Si/ 5SiMx/5Si Mopier Comments

HP LaserJet 5Si, 5SiMx, and 5Si Mopier printers have several features that differentiate them from most of the other LaserJet printers. The following features should be kept in mind when writing PJP code for these printers.

- Three standard paper input sources are provided (two 500-sheet paper cassettes and a 100-sheet multi-purpose tray).
- Input selection can be controlled by selecting a media type rather than a particular input tray—this feature is controlled using PCL, instead of PJP, but it may affect the manner in which PJP code is written (see the *PCL 5 Comparison Guide* for more information concerning this feature).
- Jobs may be canceled using the printer control panel. If unsolicited status is enabled when jobs are canceled, the printer responds with a status message (see the “Job Cancellation” section in Chapter 5 for more information).
- A PCL and PostScript-supported disk accessory is available for storing information such as fonts and macros. Chapter 9 describes the PJP file system that manages the files on the printer disk.
- The default symbol set is PC-8 instead of Roman-8.
- The LaserJet 5Si and 5SiMx printers have a top (correct-order) output tray, holding 500 pages, and a side (100-sheet face-up) output tray.
- The LaserJet 5Si Mopier printer has a top (correct-order) output tray, holding 500 pages, a side (100-sheet face-up) output tray, a multi-bin mailbox (5 bins) and a stapler bin. (See the following page for instructions on stapling or collating documents.)

HP LaserJet 5Si Mopier Comments

PJL commands are used to specify the destination bin and control printer functions such as stapling and collating multiple copies.

Specifying the Output Bin

Documents are sent to specific output bins using the @PJL SET OUTBIN command. The HP LaserJet 5Si Mopier bin definitions are as follows:

Bin Description	OUTBIN Variable Name
Engine face-down bin	UPPER
High Capacity Output (HCO) face-up bin	OPTIONALOUTBIN1
Stapling bin (in <i>mailbox</i> mode)	OPTIONALOUTBIN7
Stapling bin (in <i>stacker</i> or <i>job-separator</i> modes)	OPTIONALOUTBIN3
First non-stapling bin in mailbox mode (only bin in stacker and job-separator modes)	OPTIONALOUTBIN2
Last non-stapling bin (bottom bin in mailbox mode)	OPTIONALOUTBIN6

Stapling Documents

To staple a document, include the following PJL command in the PJL header at the beginning of the job (see the example on the following page):

```
@@PJL SET FINISH=STAPLE
```

To staple the output using this command, the printer automatically determines which bin is the stapling bin, so the output bin does not need to be specified using the @PJL SET OUTBIN command. The printer uses the EOJ command to determine the end of job so that the job can be stapled correctly.

Note

Future printers may enable stapling using a different command sequence.

Collating Multiple Copies

Multiple “copies” of a job can be printed by sending the @PJL SET QTY command, followed by one copy of the job. This saves network traffic because only one copy must be sent to the printer. The printer stores the job on the internal disk drive and then prints the desired number of collated copies without additional downloading.

In order to print multiple copies of the job this way, it is important that the print job not include the printer language's *number of copies* command in the data stream (such as the PCL command $\text{E}_c\&\text{l}\#\text{X}$). These commands produce uncollated copies.

When printing multiple copies of a job, use the @PJL SET QTY as early as possible in the job. If the printer does not detect that a job is to be moped by the end of the formatting of the second page (to allow for one banner page), the job will not be moped.

The following example would print 5 collated, stapled copies of a print job.

```
<ESC>%-12345X@PJL <CR><LF>
@PJL JOB NAME = "Job #12345" <CR><LF>
@PJL COMMENT *** Set Mopies to 5 *** <CR><LF>
@PJL SET QTY = 5 <CR><LF>
@PJL COMMENT ** Send to stapler bin **<CR><LF>
@PJL SET FINISH = STAPLE
  <ESC>%-12345X@PJL <CR><LF>
  @PJL ENTER LANGUAGE = PCL <CR><LF>
  <ESC>E ... PCL print data ... <ESC>E
  ⤴<ESC>%-12345X
⤴<ESC>%-12345X@PJL <CR><LF>
@PJL EOJ NAME = "Job #12345" <CR><LF>
<ESC>%-12345X
```

HP LaserJet 4000 and 5000 Series Comments

The LaserJet 4000 and 5000 series printers have a PJP feature set similar to the LaserJet 5Si/5SiMx printers. Listed below are some of the differences between the printers.

In addition to the LaserJet 5Si/5SiMx printer features, the LaserJet 4000 and 5000 series printers have:

- 1200 dpi print resolution
- Support for the Czechoslovakian, Hungarian, and Russian languages
- Support for slightly different paper sizes
- More Resolution Enhancement technology (REt) settings
- Support for the CLEARABLEWARNINGS, COURIER, MPTRAY, REPRINT, and WIDEA4 environment variables

I/O Buffer Variables

Reconfiguring the size of the LaserJet 4000 and 5000 series I/O buffers via the data stream can be difficult. The user may try to send data to the printer while the I/O buffers are being reconfigured, which results in the data being consumed until the reconfiguration is complete. While it is not anticipated that these commands will be used often, it is expected that they will be used at least occasionally. For this reason, a special communication sequence has been proposed between the printer and this software, so that the I/O buffers may be reconfigured via the data stream without I/O being lost.

The following sequence assumes that the printer is idle. Any I/O being sent by other users will be lost.

- 1 The software sends the job which includes a PJP command changing the configuration of the I/O buffers.
- 2 The software also sends an @PJP ECHO command at the end of the job, followed by a UEL command.
- 3 The printer sends the echo command back to the host.
- 4 After the end of the job, the printer goes offline and reconfigures the I/O buffers.

- 5 The software may resume sending data after it sees the printer go back online.
- 6 If the software does not detect the printer going offline and then back online within 5 seconds of the echo, the application may assume there is a printer error.

Paper Tray Configuration

The LaserJet 4000 and 5000 series paper tray configurations are set up as follows:

Tray Number	Description
0	Multi-purpose tray
1	Manual feed tray
2	Unknown tray
4	Envelope feeder
x	Other trays (see below)

Other trays are dynamically assigned at power-up, based on the tray's number (for example, if you have a LaserJet 4000 or 5000 series printer with an optional tray, tray 1 (MP tray) would be 0, the first cassette number 2, the second cassette number 3, and the optional cassette number 5 (number 4 is reserved for the envelope feeder).

HP LaserJet 1100 Series Comments

The HP LaserJet 1100 series printers have a PJP feature set very similar to the HP LaserJet 6L printer. Listed below are some of the differences.

- The INFO VARIABLES command returns the number of pages that have been copied, printed, and scanned (COPYPAGECOUNT, PRINTPAGECOUNT, and SCANPAGECOUNT).
- For the LaserJet 1100 series printers, the RESET command does not initialize the PAGECOUNT, SYMSET, and PAPER variables. Instead, it sets the current value equal to the stored default value.
- When a SET or DEFAULT command is used with the AUTOCONT or DENSITY variables, the User Default and PJP Current Environment settings are not modified as they are on most LaserJet printers.
- For the LaserJet 1100 series printers, the INITIALIZE command does not reset the PJP variables stored in NVRAM back to the factory values. It sets their current values to the stored default values (see the following paragraph).
- The HP LaserJet 1100 PJP variables can be set to factory values by performing a control panel NVRAM INIT. This is done by holding down the control panel button and cycling the power. When the power comes on, continue to hold down the control panel button. The LEDs will flash briefly when the power comes on, and then will go off. Hold the button down until the LEDs cycle once, then release the button.

HP LaserJet 2100 Series Comments

The HP LaserJet 2100 series printers have PCL features similar to the HP LaserJet 6P and 6MP printers. Some of the differences are listed below:

- Instead of using the MPTRAY variable, use the INTRAY1 variable to set the default configuration of Tray 1 (the MP Tray).
- The HP LaserJet 2100 series printers add the PCL-specific LINETERMINATION variable, which allows the carriage return, line feed, and form feed characters to be remapped (see the LINETERMINATION variable description in Chapter 6).

HP Color LaserJet 4500 Series Comments

This section describes some of the distinguishing PDL features of the HP Color LaserJet 4500 series printers.

- The JOBID variable is added to enable or disable the job ID information returned in the status readback at the start and end of jobs.
- HP Color LaserJet 4500 series printers may remove the `JOB DISPLAY = "display text"` message from the control panel display before the last page reaches the output bin.
- The control panel display messages and status readback text can now be set to the Japanese language.
- The OUTTONER variable determines how the printer processes a toner-out event. If this variable is set to STOP, printing will stop when a toner-out event occurs. If this variable is set to CONTINUE, a toner-out message will be generated, but printing will continue. The default value for this variable is STOP.
- The PLANESINUSE variable defines the number of planes of data in a job. A value of 1 indicates a monochrome job, while a value of 3 indicates a color job. The default value is 3.
- This printer adds some new POWERSAVETIME values (1, 240, 480 minutes), and does not support the 15 and 180 minute values.

HP LaserJet 8000 and 8100 Series Comments

The PJP feature set used by the HP LaserJet 8000 and 8100 series printers is similar to that of the HP LaserJet 4000 series printers. The HP LaserJet 8100 also adds support for a few more paper sizes (ROC8K, ROC16K, and JISEXEC) and adds job management features (PROOF and HOLD jobs — see Chapter 10 for more information on job management PJP commands).

HP Color LaserJet 8500 Series Comments

As part of its paper stacking flexibility, the HP Color LaserJet 8500 printer allows the user to switch the Mail Box Mode (MBM) to any of the following three settings:

- Stacker
- Separator
- Mailbox

The preferred way to change the Mail Box Mode is using the printer's control panel. This feature is usually controlled by the printer administrator and can be programmatically set using HP JetAdmin.

