

DC Tips

... for the user

dc00cc0212
June 18, 2001

PDL Reference Guide for the DCCS 50

Purpose

This document focuses on guiding your use of PostScript and printer job language (PJL) commands, to enable Document Centre Color Series 50 (DCCS 50) extended features in environments which have no custom drivers. To execute the commands, you must be familiar with modifying a PostScript data stream.

The "Commands to Enable Extended Features" table in the "PostScript" section of this document, presents a PJL command for each feature option and in many cases, a PostScript command also. Whenever possible use the PJL command to enable the feature.

For complete information about PostScript commands, reference Adobe's *PostScript Language Reference Manual*, 2nd Edition, ISBN 0-201-18127-4.

NOTE: The DCCS 50 does not support printer control language (PCL) at this time.

Contents

- A table listing the DSSC 50 extended features and their descriptions.
- A table listing feature options and the PJL and PostScript commands to enable them.
- Examples that show how to use multiple commands to achieve specific printed output.
- The DSSC 50 resident font list.

Document Centre Extended Features

In certain environments, for example, some custom DOS, mainframe, and mini platforms, you must create a file that contains PJL or PostScript commands to enable the extended features on your DSSC 50. The following table provides a description of the extended and some generic features available on the DSSC 50. Verify that the feature you wish to use is included. All features are supported with either PostScript level 2 or 3 commands.

Feature	Description
Job Information	Allows you to specify information about a print job, name of the owner or the file name for example, on the banner page.
Banner Sheet	Allows you to turn an informational page that precedes a print job on or off, on a per job basis.

This document pertains to these Xerox products:

	DC 460/470 ST
	DC 420/432/440 ST
	DC 332/340 ST
	DC 240/255/265 ST/LP
	DC 220/230 ST/LP
x	DCCS 50

Feature	Description
Media Size	Allows you to select the size of the paper or other media to which a job prints.
Media Source	Allows you to select the printer media tray that supplies a print job.
Media Type	Allows you to select the type of media to which a job prints, for example, letterhead or card stock.
Output Tray Destination	Allows you to select the location to which a print job is delivered.
Stapling	Allows you to enable one of the stapling options.
Output Delivery	Allows you to select output delivered as Face Up or Face Down.
Resolution	Allows you to specify the resolution of print job output. Currently, 400x400 or 600x600 is available.
Copy Count	Allows you to indicate the number of sets to print.
Simplex	Delivers one-sided output.
Duplex Long Edge	Delivers two-sided output. Landscape documents read as though bound at the top, portrait documents read as though bound like a book.
Duplex Short Edge	Delivers two-sided output. Landscape document read as though bound like a book, portrait documents read as though bound at the top.
Orientation	Allows you to indicate Portrait or Landscape orientation.
Spool Options	Allows you to choose between Print & Delete and Print & Save.
Reverse Page Order	Allows you to print N-1 or 1-N.
Resident Fonts	The default group of fonts that reside on a printer.

PostScript

This section contains a table of commands used to enable DCCS 50 features. The table lists each feature and its options along with the corresponding PJL and PostScript commands. Example PostScript headers follow the table.

NOTE: Please read the "Feature Dependencies / Caveats" section for any known limitations before using these commands.

Commands to Enable Extended Features

Feature	PJL	PostScript 3
Job Information		
Job Owner	@PJL SET XRJOBOWNER = "owner"	N/A
Job Name	@PJL SET XRJOBNAME = "name"	N/A
Banner Sheet		
Banner Sheet On	@PJL SET XRSTARTSHEET = TRUE	N/A
Banner Sheet Off	@PJL SET XRSTARTSHEET = FALSE	N/A
Media Size		
Letter	@PJL SET PAPER=LETTER	<< /PageSize [612 792] /ImagingBBox null /LeadingEdge 3 >> setpagedevice
Letter SEF	@PJL SET PAPER=LETTERSEF	<< /PageSize [612 792] /ImagingBBox null /LeadingEdge 0 >> setpagedevice
Legal	@PJL SET PAPER=LEGAL	<< /PageSize [612 1008] /ImagingBBox null /LeadingEdge 0 >> setpagedevice
Tabloid	@PJL SET PAPER=TABLOID	<< /PageSize [792 1224] /ImagingBBox null /LeadingEdge 0 >> setpagedevice
A4	@PJL SET PAPER=A4	<< /PageSize [595 842] /ImagingBBox null /LeadingEdge 3 >> setpagedevice
A4 SEF	@PJL SET PAPER=A4SEF	<< /PageSize [595 842] /ImagingBBox null /LeadingEdge 0 >> setpagedevice
A3	@PJL SET PAPER=A3	<< /PageSize [842 1191] /ImagingBBox null /LeadingEdge 0 >> setpagedevice
A5	@PJL SET PAPER=A5	<< /PageSize [420 595] /ImagingBBox null /LeadingEdge 0 >> setpagedevice
Legal13	@PJL SET PAPER=LEGAL13	<< /PageSize [612 936] /ImagingBBox null /LeadingEdge 0 >> setpagedevice
Hagaki Post Card	@PJL SET PAPER=HAGAKI	<< /PageSize [284 419] /ImagingBBox null /LeadingEdge 0 >> setpagedevice
8x10	@PJL SET PAPER=RT8x10	<< /PageSize [576 720] /ImagingBBox null /LeadingEdge 3 >> setpagedevice
12x18	@PJL SET PAPER=RT12x18	<< /PageSize [864 1296] /ImagingBBox null /LeadingEdge 0 >> setpagedevice
B4	@PJL SET PAPER=B4	<< /PageSize [729 1032] /ImagingBBox null /LeadingEdge 0 >> setpagedevice
B5 LEF	@PJL SET PAPER=B5	<< /PageSize [516 729] /ImagingBBox null /LeadingEdge 3 >> setpagedevice
B5 SEF	@PJL SET PAPER=B5SEF	<< /PageSize [516 729] /ImagingBBox null /LeadingEdge 0 >> setpagedevice
SRA3 (12.6 x 17.7)	@PJL SET PAPER=SRA3	<< /PageSize [907 1274] /ImagingBBox null /LeadingEdge 0 >> setpagedevice
Media Source		
Paper Tray 1	@PJL SET MEDIASOURCE = TRAY1	<< /TraySwitch false /ManualFeed false /MediaPosition 0 >> setpagedevice
Paper Tray 2	@PJL SET MEDIASOURCE = TRAY2	<< /TraySwitch false /ManualFeed false /MediaPosition 1 >> setpagedevice
Paper Tray 3	@PJL SET MEDIASOURCE = TRAY3	<< /TraySwitch false /ManualFeed false /MediaPosition 2 >> setpagedevice
Paper Tray 4	@PJL SET MEDIASOURCE = TRAY4	<< /TraySwitch false /ManualFeed false /MediaPosition 3 >> setpagedevice
MSI (Bypass)	@PJL SET MEDIASOURCE = MSI	<< /TraySwitch false /ManualFeed false /MediaPosition 4 >> setpagedevice

Feature	PJL	PostScript 3
Media Source (continued)		
HCF (High Capacity Feeder)	@PJL SET MEDIASOURCE = HCF	<< /TraySwitch false /ManualFeed false /MediaPosition 5 >> setpagedevice
Auto Select	@PJL SET MEDIASOURCE = AUTO	<< /TraySwitch true >> setpagedevice
Media Type		
Plain Paper	@PJL SET MEDIATYPE = PAPER	<< /MediaType (Standard) >> setpagedevice
Transparency	@PJL SET MEDIATYPE = TRANSPARENCY	<< /MediaType (Transparency) >> setpagedevice
Thick Paper	@PJL SET MEDIATYPE = HEAVY	<< /MediaType (Thick) >> setpagedevice
Thicker Paper	@PJL SET MEDIATYPE = CARDSTOCK	<< /MediaType (Thicker) >> setpagedevice
Tack Film	@PJL SET MEDIATYPE = TACKFILM	<< /MediaType (TackFilm) >> setpagedevice
Tracing Paper	@PJL SET MEDIATYPE = TRACING	<< /MediaType (Tracing) >> setpagedevice
Thick Paper, Side 2	@PJL SET MEDIATYPE = THICKSIDE2	<< /MediaType (ThickSide2) >> setpagedevice
Thicker Paper, Side 2	@PJL SET MEDIATYPE = THICKERSIDE2	<< /MediaType (ThickerSide2) >> setpagedevice
Output Destination		
Simple Catch Tray	@PJL SET OUTBIN=UPPER	<</OutputType (SCT) >> setpagedevice
Offset Catch Tray	@PJL SET OUTBIN=LOWER	<</OutputType (OCT) >> setpagedevice
Mailbox Bin 1	@PJL SET OUTBIN=OPTIONALOUTBIN1	<</OutputType (Optional Outbin 1) >> setpagedevice
Mailbox Bin 2	@PJL SET OUTBIN=OPTIONALOUTBIN2	<</OutputType (Optional Outbin 2) >> setpagedevice
Mailbox Bin 3	@PJL SET OUTBIN=OPTIONALOUTBIN3	<</OutputType (Optional Outbin 3) >> setpagedevice
Mailbox Bin 4	@PJL SET OUTBIN=OPTIONALOUTBIN4	<</OutputType (Optional Outbin 4) >> setpagedevice
Mailbox Bin 5	@PJL SET OUTBIN=OPTIONALOUTBIN5	<</OutputType (Optional Outbin 5) >> setpagedevice
Mailbox Bin 6	@PJL SET OUTBIN=OPTIONALOUTBIN6	<</OutputType (Optional Outbin 6) >> setpagedevice
Mailbox Bin 7	@PJL SET OUTBIN=OPTIONALOUTBIN7	<</OutputType (Optional Outbin 7) >> setpagedevice
Mailbox Bin 8	@PJL SET OUTBIN=OPTIONALOUTBIN8	<</OutputType (Optional Outbin 8) >> setpagedevice
Mailbox Bin 9	@PJL SET OUTBIN=OPTIONALOUTBIN9	<</OutputType (Optional Outbin 9) >> setpagedevice
Mailbox Bin 10	@PJL SET OUTBIN=OPTIONALOUTBIN10	<</OutputType (Optional Outbin 10) >> setpagedevice
Stapling		
None	@PJL SET FINISH=NONE	<< /StapleDetails null >> setpagedevice
FrontStaple	@PJL SET FINISH=STAPLE @PJL SET STAPLEOPTION=ONE @PJL SET OUTBIN=OPTIONALOUTBIN2	<< /StapleDetails << /Type 15 /Position 1 >> >> setpagedevice
RearStaple	@PJL SET FINISH=STAPLE @PJL SET STAPLEOPTION=XRREAR @PJL SET OUTBIN=OPTIONALOUTBIN2	<< /StapleDetails << /Type 15 /Position 2 >> >> setpagedevice
DualStaple	@PJL SET FINISH=STAPLE @PJL SET STAPLEOPTION=TWO @PJL SET OUTBIN=OPTIONALOUTBIN2	<< /StapleDetails << /Type 15 /Position 3 >> >> setpagedevice
FrontStaple, 180° rotate	@PJL SET FINISH=STAPLE @PJL SET STAPLEOPTION=ONE180 @PJL SET OUTBIN=OPTIONALOUTBIN2	<< /StapleDetails << /Type 15 /Position 4 >> >> setpagedevice
RearStaple, 180° rotate	@PJL SET FINISH=STAPLE @PJL SET STAPLEOPTION=XRREAR180 @PJL SET OUTBIN=OPTIONALOUTBIN2	<< /StapleDetails << /Type 15 /Position 5 >> >> setpagedevice
DualStaple, 180° rotate	@PJL SET FINISH=STAPLE @PJL SET STAPLEOPTION=TWO180 @PJL SET OUTBIN=OPTIONALOUTBIN2	<< /StapleDetails << /Type 15 /Position 6 >> >> setpagedevice
Output Delivery		
Document Face Up	@PJL SET XROUTPUTFACEUP=TRUE	<</OutputFaceUp true >> setpagedevice
Document Face Down	@PJL SET XROUTPUTFACEUP=FALSE	<</OutputFaceUp false >> setpagedevice

Feature	PJL	PostScript 3
Resolution		
600x600	@PJL SET RESOLUTION=600	<</HWResolution [600 600] >> setpagedevice
300x300	@PJL SET RESOLUTION=300	NA
Copy Count		
$1 \leq n \leq 999$	@PJL SET QTY=n (for collated copies only)	<< /NumCopies n >> setpagedevice
Sides Imaged		
Simplex	@PJL SET DUPLEX=OFF	<< /Duplex false >> setpagedevice
Duplex flip on long edge	@PJL SET DUPLEX=ON @PJL SET BINDING=LONGEDGE	<< /Duplex true /Tumble false >> setpagedevice
Duplex flip on short edge	@PJL SET DUPLEX=ON @PJL SET BINDING=SHORTEdge	<< /Duplex true /Tumble true >> setpagedevice
Spool Options		
Print and Save	@PJL SET XRSPOOLOPTION = SAVE	N/A
Print and Delete	@PJL SET XRSPOOLOPTION = DELETE	N/A
Reverse Page Order		
On (N-to-1)	@PJL SET XRPAGEORDER=REVERSE	/SplashProcs /ProcSet 2 copy resourcestatus { pop pop findresource /setreverseorder 2 copy known { get true exch exec }{ pop pop } ifelse }{ pop pop } ifelse
Off (1-to-N)	@PJL SET XRPAGEORDER=NORMAL	/SplashProcs /ProcSet 2 copy resourcestatus { pop pop findresource /setreverseorder 2 copy known { get false exch exec }{ pop pop } ifelse } { pop pop } ifelse

Example PostScript Headers

This example shows the PJL commands that appear at the beginning of a simplex print job that includes a job owner, job name, and print output to a mailbox bin.

```
<esc> %-12345X@PJL
@PJL SET XRJOBOWNER = "owner"
@PJL SET XRJOBNAME = "name"
@PJL SET XRSTARTSHEET = TRUE
@PJL SET XRSPOOLOPTION = DELETE
@PJL SET DUPLEX=OFF
@PJL SET OUTBIN=OPTIONALOUTBIN7
@PJL ENTER LANGUAGE = POSTSCRIPT
```

This example shows the PJL commands that appear at the beginning of a more complex print job that includes multiple duplexed and stapled sets directed to the finisher output tray.

```
<esc> %-12345X@PJL
@PJL SET XRJOBOWNER = "owner"
@PJL SET XRJOBNAME = "name"
@PJL SET XRSTARTSHEET = TRUE
@PJL SET XRSPOOLOPTION = DELETE
@PJL SET FINISH=STAPLE
@PJL SET STAPLEOPTION=ONE
@PJL SET COPIES=3
@PJL SET DUPLEX=ON
@PJL SET BINDING=LONGEDGE
@PJL ENTER LANGUAGE = POSTSCRIPT
```

Feature Dependencies / Caveats

- If the PJL FINISH variable is set to STAPLE and the OUTBIN variable is set to UPPER value, the job is delivered to the Simple Catch Tray ('Upper Output Bin') without stapling.
- If the PJL FINISH variable is set to STAPLE and the OUTBIN variable is set to any other value different than UPPER, (ie. OPTIONALOUTBIN3 or OPTIONALOUTBIN x) the job is delivered to the 'Stapler Bin' with the number of staples set in the STAPLEOPTION variable.
- If the PJL FINISH variable is set to STAPLE and no STAPLEOPTION value is set, the job is delivered to the 'Stapler Bin' using the default STAPLEOPTION value.
- Do not select duplex for jobs fed from the MSI (bypass tray).

NOTE: Any print job using transparencies or labels should not be duplexed.

DSSC 50 Resident PostScript Fonts

The following PostScript fonts are resident with the Adobe interpreter:

AdobeSansMM	AntiqueOliveE-Bold	ArialE-Bold
AdobeSerifMM	AntiqueOliveE-Italic	ArialE-BoldItalic
AlbertusE-ExtraBold	AntiqueOliveE-Regular	ArialE-Italic
AlbertusE-Medium	AntiqueOlive-Italic	Arial-ItalicMT
AlbertusMT	AntiqueOlive-Roman	ArialMT
AlbertusMT-Italic	Apple-Chancery	AvantGarde-Book
AlbertusMT-Light	Arial-BoldItalicMT	AvantGarde-BookOblique
AntiqueOlive-Bold	Arial-BoldMT	AvantGarde-Demi
AntiqueOlive-Compact	ArialE	AvantGarde-DemiOblique

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Fonts (continued)		
Bodoni	GillSans-Bold	LetterGothic-Slanted
Bodoni-Bold	GillSans-BoldCondensed	LubalinGraph-Book
Bodoni-BoldItalic	GillSans-BoldItalic	LubalinGraph-BookOblique
Bodoni-Italic	GillSans-Condensed	LubalinGraph-Demi
Bodoni-Poster	GillSans-ExtraBold	LubalinGraph-DemiOblique
Bodoni-PosterCompressed	GillSans-Italic	Marigold
Bookman-Demi	GillSans-Light	MarigoldE
Bookman-DemItalic	GillSans-LightItalic	Monaco
Bookman-Light	Goudy	MonaLisa-Recut
Bookman-LightItalic	Goudy-Bold	NewCenturySchlbk-Bold
Carta	Goudy-BoldItalic	NewCenturySchlbk-BoldItalic
Chicago	Goudy-ExtraBold	NewCenturySchlbk-Italic
Clarendon	Goudy-Italic	NewCenturySchlbk-Roman
Clarendon-Bold	Helvetica	NewYork
ClarendonE-Condensed	Helvetica-Oblique	Optima
Clarendon-Light	Helvetica-Bold	Optima-Bold
CooperBlack	Helvetica-BoldOblique	Optima-BoldItalic
CooperBlack-Italic	Helvetica-Condensed	OptimaE-Bold
CopperPlate-ThirtyThreeBC	Helvetica-Condensed-Bold	OptimaE-BoldItalic
CopperPlate-ThirtyTwoBC	Helvetica-Condensed-BoldObl	OptimaE-Italic
CoronetE	Helvetica-Condensed-Oblique	OptimaE-Regular
Coronet-Regular	Helvetica-Narrow	Optima-Italic
Courier	Helvetica-Narrow-Bold	Oxford
Courier-Bold	Helvetica-Narrow-BoldOblique	Palatino-Bold
Courier-BoldOblique	Helvetica-Narrow-Oblique	Palatino-BoldItalic
CourierE-Bold	HoeflerText-Black	Palatino-Italic
CourierE-BoldItalic	HoeflerText-BlackItalic	Palatino-Roman
CourierE-Italic	HoeflerText-Italic	StempelGaramond-Bold
CourierE-Regular	HoeflerText-Ornaments	StempelGaramond-BoldItalic
Courier-Oblique	HoeflerText-Regular	StempelGaramond-Italic
Eurostile	JoannaMT	StempelGaramond-Roman
Eurostile-Bold	JoannaMT-Bold	Symbol
Eurostile-BoldExtendedTwo	JoannaMT-BoldItalic	SymbolE
Eurostile-ExtendedTwo	JoannaMT-Italic	Tekton
Font-ISO	LetterGothic	Times-Bold
GaramoneE-antiqua	LetterGothic-Bold	Times-BoldItalic
GaramoneE-Halbfett	LetterGothic-BoldSlanted	TimesE-Bold
GarmonE-Kursiv	LetterGothicE-Bold	TimesE-BoldItalic
GarmonE-Kursiv Halbfett	LetterGothicE-Italic	TimesE-Italic
Geneva	LetterGothic-Regular	TimesE-Roman
GillSans		

Fonts (continued)	Univers-Bold	UniversE-CondensedItalic
Times-Italic	Univers-BoldExt	UniversE-Italic
TimesNewRomanE	Univers-BoldExtObl	UniversE-Medium
TimesNewRomanE-Bold	Univers-BoldOblique	Univers-Extended
TimesNewRomanE-BoldItalic	Univers-Condensed	Univers-ExtendedObl
TimesNewRomanE-Italic	Univers-CondensedBold	Univers-Light
TimesNewRomanPS-BoldItalicMT	Univers-CondensedBoldOblique	Univers-LightOblique
TimesNewRomanPS-BoldMT	Univers-CondensedOblique	Univers-Oblique
TimesNewRomanPS-ItalicMT	UniversE-Bold	Wingdings-Regular
TimesNewRomanPSMT	UniversE-BoldCondensed	ZapfChancery-MediumItalic
Times-Roman	UniversE-BoldCondensedItalic	ZapfDingbats
Univers	UniversE-BoldItalic	
	UniversE-Condensed	

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