## Form Definitions and Page Definitions Supplied with Infoprint

This section describes the form definitions and page definitions that are supplied with Infoprint. Form definitions provide instructions on how printers position data on the page and are located in directory /usr/lpp/psf/reslib. Page definitions contain formatting controls for jobs and are also located in directory /usr/lpp/psf/reslib.

#### **Default Form Definitions**

PCL5 and PCL5C

Default form definitions are determined by the output data stream format accepted by the printer that Infoprint assigns to print the job:

Data Stream	<b>Default Form Definition</b>
Intelligent Printer Data Stream (IPDS)	F1ACIF
Personal Printer Data Stream (PPDS)	F1PP0110
Printer Control Language 4 (PCL4)	F1HP0111

Table 1 describes the characteristics controlled by these form definitions.

Table 1. Default Form Definition Characteristics

Form Definition	Bin	Sides	Presentation Mode	Print Direction	Page Position (in inches from the top-left corner of the page)
F1ACIF	1	2	Portrait	Across	0.165, 0.165
F1PP0110	1	1	Portrait	Across	0.25, 0.165
F1HP0111	1	2	Portrait	Across	0.165, 0.2
F1H50111	1	2	Portrait	Across	0.165, 0.165

F1H50111

### **General-Purpose Form Definitions**

You can specify different form definitions with jobs if the default form definitions do not satisfy your requirements. Table 2 lists the general-purpose form definitions that you can select.

Table 2 (Page 1 of 2). General-Purpose Form Definitions

Form Definition	Bin	Sides	Presentation Mode	Print Direction	Page Position (in inches from the top-left corner of the page)
F1A10110 1	1	1	Portrait	Across	0.165, 0.165
F1A10111 1	1	2	Portrait	Across	0.165, 0.165
F1A10112 <sup>1</sup>	1	Tumble	Portrait	Across	0.165, 0.165
F1A10120 <sup>1</sup>	2	1	Portrait	Across	0.165, 0.165
F1A10121 <sup>1</sup>	2	2	Portrait	Across	0.165, 0.165
F1A10122 <sup>1</sup>	2	Tumble	Portrait	Across	0.165, 0.165
F1A10130	3	1	Portrait	Across	0.165, 0.165
F1A10131	3	2	Portrait	Across	0.165, 0.165
F1A10132	3	Tumble	Portrait	Across	0.165, 0.165
F1A10140	4	1	Portrait	Across	0.165, 0.165

Table 2 (Page 2 of 2). General-Purpose Form Definitions

Form Definition	Bin	Sides	Presentation Mode	Print Direction	Page Position (in inches from the top-left corner of the page)
F1A10141	4	2	Portrait	Across	0.165, 0.165
F1A10142	4	Tumble	Portrait	Across	0.165, 0.165
F1A10150	5	1	Portrait	Across	0.165, 0.165
F1A10151	5	2	Portrait	Across	0.165, 0.165
F1A10152	5	Tumble	Portrait	Across	0.165, 0.165
F1ACIF 1	1	2	Portrait	Across	0.165, 0.165
F1H50110 <sup>2</sup>	1	1	Portrait	Across	0.165, 0.165
F1H50111 <sup>2</sup>	1	2	Portrait	Across	0.165, 0.165
F1H50120 <sup>2</sup>	2	1	Portrait	Across	0.165, 0.165
F1H50121 <sup>2</sup>	2	2	Portrait	Across	0.165, 0.165
F1HP0110 <sup>3</sup>	1	1	Portrait	Across	0.165, 0.2
F1HP0111 <sup>3</sup>	1	2	Portrait	Across	0.165, 0.2
F1HP0120 <sup>3</sup>	2	1	Portrait	Across	0.165, 0.2
F1HP0121 <sup>3</sup>	2	2	Portrait	Across	0.165, 0.2
F1MG0110 <sup>4</sup>	1	1	Portrait	Across	0.33, 0.33
F1MG0111 <sup>4</sup>	1	2	Portrait	Across	0.33, 0.33
F1MG0120 4	2	1	Portrait	Across	0.33, 0.33
F1MG0121 4	2	2	Portrait	Across	0.33, 0.33
F1PP0110 <sup>5</sup>	1	1	Portrait	Across	0.25, 0.165
F1PP0111 <sup>5</sup>	1	2	Portrait	Across	0.25, 0.165
F1PP0120 <sup>5</sup>	2	1	Portrait	Across	0.25, 0.165
F1PP0121 <sup>5</sup>	2	2	Portrait	Across	0.25, 0.165

<sup>1.</sup> Designed for use with IBM 3820, 3827, and 3835 printers.

<sup>2.</sup> These form definitions are recommended for printer devices that support the PCL5 and PCL5C data streams. They position the page of data so that the data is not placed in the unprintable area.

<sup>3.</sup> These form definitions are recommended for printer devices that support the PCL4 and PCL5 data streams. They position the page of data so that the data is not placed in the unprintable area.

<sup>4.</sup> These form definitions are recommended for the message pages printed by Infoprint supported printers.

<sup>5.</sup> These form definitions are recommended for printer devices that support the PPDS data stream. They position the page of data so that the data is not placed in the unprintable area.

#### Form Definitions for Printing Envelopes

Use the form definitions in Table 3 to print envelopes and use the manual input bin on the IBM LaserPrinter 4028. You can use these form definitions with other printers that use bin 65 as the envelope bin and bin 100 as the manual feed bin.

Table 3. Form Definitions Supplied with Infoprint for Printing Envelopes

Form Definition	Bin	Sides	Presentation Mode	Print Direction	Page Position (in inches from the paper edge)
F1A000E0	Envelope	1	Landscape	Across	0, 0
F1A000M0	Manual	1	Landscape	Across	0, 0
F1A101E0	Envelope	1	Landscape	Across	0.165, 0.165
F1A101M0	Manual	1	Landscape	Across	0.165, 0.165

#### Form Definitions for 17 by 11 Inch Paper

Use the form definitions in Table 4 for jobs that require 17 by 11 inch paper.

Table 4. Form Definitions Supplied for 17 by 11 Paper

Form Definition	Bin	Sides	Presentation Mode	Print Direction	Page Position (in inches from the top-left corner of the page)
F100LS	1, 2, 3, 4, 5	1	Landscape	Across	0, 0
F100LD	1, 2, 3, 4, 5	2	Landscape	Across	0, 0
F100LT	1, 2, 3, 4, 5	Tumble	Landscape	Across	0, 0
F100LAND 1	1, 2, 3, 4, 5	2	Landscape	Across	0, 0

<sup>1.</sup> Used for N\_UP of 1.

# Form Definitions Specifying a 0, 0 Offset

The form definitions in Table 5 specify a 0, 0 offset from the upper-left corner of the page. Use these form definitions if images or data in the job prints off-center or appears to be shifting on the page.

Table 5. Form Definitions Supplied with Infoprint Specifying a 0, 0 Offset

Form Definition	Bin	Sides	Presentation Mode	Print Direction	Page Position (in inches from the top-left corner of the page)
F100S	1, 2, 3, 4, 5	1	Portrait	Across	0, 0
F100D	1, 2, 3, 4, 5	2	Portrait	Across	0, 0
F100T	1, 2, 3, 4, 5	Tumble	Portrait	Across	0, 0
F1A00010	1	1	Portrait	Across	0, 0
F1A00011	1	2	Portrait	Across	0, 0
F1A00012	1	Tumble	Portrait	Across	0, 0
F1A00020	2	1	Portrait	Across	0, 0
F1A00021	2	2	Portrait	Across	0, 0
F1A00022	2	Tumble	Portrait	Across	0, 0
F1A00030	3	1	Portrait	Across	0, 0
F1A00031	3	2	Portrait	Across	0, 0
F1A00032	3	Tumble	Portrait	Across	0, 0
F1A00040	4	1	Portrait	Across	0, 0
F1A00041	4	2	Portrait	Across	0, 0
F1A00042	4	Tumble	Portrait	Across	0, 0
F1A00050	5	1	Portrait	Across	0, 0
F1A00051	5	2	Portrait	Across	0, 0
F1A00052	5	Tumble	Portrait	Across	0, 0

### Form Definitions Specifying N\_UP Page Positioning

The form definitions in Table 6 have various N\_UP values and page placement. Refer to IBM Page Printer Formatting Aid: User's Guide more information about N\_UP printing.

Table 6 (Page 1 of 2). Form Definitions for N\_UP Page Positioning

Form Definition	Bin	Sides	N_UP	Page Placement	Presentation Mode	Print Direction	Page Position
F1BOOK <sup>2</sup>	1	2	2	Page 1 at 1 Front Page 2 at 2 Front Page 3 at 2 Back Page 4 at 1 Back	Portrait	Across	0, 0
F1N2SST1 <sup>2</sup>	1, 2, 3, 4, 5	Tumble	2	Page 1 at 1 Front Page 2 at 1 Back Page 3 at 2 Front Page 4 at 2 Back	Portrait	Across	0, 0
F1N2SS11 <sup>2</sup>	1, 2, 3, 4, 5	2	2	Page 1 at 1 Front Page 2 at 2 Back Page 3 at 2 Front Page 4 at 1 Back	Portrait	Across	0, 0
F1N2SS12 <sup>2</sup>	1, 2, 3, 4, 5	2	2	Page 1 at 1 Front Page 2 at 2 Front Page 3 at 1 Back Page 4 at 2 Back	Portrait	Across	0, 0
F1N2SS13 <sup>2</sup>	1, 2, 3, 4, 5	2	3	Page 1 at 1 Front Page 2 at 2 Front Page 3 at 3 Front Page 4 at 1 Back Page 5 at 2 Back Page 6 at 3 Back	Portrait	Across	0, 0
F1N20010	1	1	2	Default	Portrait	Across	0, 0
F1N20011	1	2	2	Default	Portrait	Across	0, 0
F1N20012	1	Tumble	2	Default	Portrait	Across	0, 0
F1N20110	1	1	2	Default	Portrait	Across	0.165, 0.165
F1N20111	1	2	2	Default	Portrait	Across	0.165, 0.165
F1N20112	1	Tumble	2	Default	Portrait	Across	0.165, 0.165
F1N20120	2	1	2	Default	Portrait	Across	0.165, 0.165
F1N20121	2	2	2	Default	Portrait	Across	0.165, 0.165
F1N20122	2	Tumble	2	Default	Portrait	Across	0.165, 0.165
F1N20130	3	1	2	Default	Portrait	Across	0.165, 0.165
F1N20131	3	2	2	Default	Portrait	Across	0.165, 0.165
F1N20132	3	Tumble	2	Default	Portrait	Across	0.165, 0.165
F1N20140	4	1	2	Default	Portrait	Across	0.165, 0.165
F1N20141	4	2	2	Default	Portrait	Across	0.165, 0.165
F1N20142	4	Tumble	2	Default	Portrait	Across	0.165, 0.165
F1N20150	5	1	2	Default	Portrait	Across	0.165, 0.165
F1N20151	5	2	2	Default	Portrait	Across	0.165, 0.165
F1N20152	5	Tumble	2	Default	Portrait	Across	0.165, 0.165

Table 6 (Page 2 of 2). Form Definitions for N\_UP Page Positioning

Form					Presentation	Print	
Definition	Bin	Sides	N_UP	Page Placement	Mode	Direction	Page Position <sup>1</sup>
F1N201LA	1	1	2	Default	Landscape	Across	0.0, 0.5
F1N201LD	1	1	2	Default	Landscape	Down	0.0, 0.5
F1N201PA	1	1	2	Default	Portrait	Across	0.0, 0.5
F1N201PD	1	1	2	Default	Portrait	Down	0.0, 0.5

<sup>1.</sup> Specified in inches from the top-left corner of the page.

### Form Definitions for Printing on Prepunched Paper

Use the form definitions in Table 7 for jobs that require prepunched paper.

Table 7. Form Definitions for Prepunched Paper

Form Definition	Bin	Sides	Presentation Mode	Print Direction	Page Position (in inches from the top-left corner of the page)
F1H10110	1	1	Portrait	Across	1.000, 0.165
F1H10111	1	2	Portrait	Across	1.000, 0.165, 0.165, 0.165
F1H10112	1	Tumble	Portrait	Across	1.000, 0.165, 1.000, 0.165
F1H10120	2	1	Portrait	Across	1.000, 0.165
F1H10121	2	2	Portrait	Across	1.000, 0.165, 0.165, 0.165
F1H10122	2	Tumble	Portrait	Across	1.000, 0.165, 1.000, 0.165
F1H10130	3	1	Portrait	Across	1.000, 0.165
F1H10131	3	2	Portrait	Across	1.000, 0.165, 0.165, 0.165
F1H10132	3	Tumble	Portrait	Across	1.000, 0.165, 1.000, 0.165
F1H10140	4	1	Portrait	Across	1.000, 0.165
F1H10141	4	2	Portrait	Across	1.000, 0.165, 0.165, 0.165
F1H10142	4	Tumble	Portrait	Across	1.000, 0.165, 1.000, 0.165
F1H10150	5	1	Portrait	Across	1.000, 0.165
F1H10151	5	2	Portrait	Across	1.000, 0.165, 0.165, 0.165
F1H10152	5	Tumble	Portrait	Across	1.000, 0.165, 1.000, 0.165

<sup>2.</sup> Used with printers that support enhanced N\_UP values.

#### Form Definitions for Specific Models of IBM Printers

Use the form definitions in Table 8 with the IBM 3831 Page Printer, IBM 3835, and IBM 3900 Advanced Function Printers.

Table 8. Form Definitions Supplied for IBM 3831, 3835, and 3900 Printers

Form Definition	Printer Type Compatible with	Bin	Sides	Presentation Mode	Print Direction	Page Position <sup>1</sup>
F10GL <sup>2</sup>	3800	1	1	Landscape	Across	0.0, 0.0
F10101LA	3800 wide forms	1	1	Landscape	Across	0.00, 0.50
F10101LD	3800 narrow forms	1	1	Landscape	Down	0.00, 0.50
F10101PA	3800 narrow forms	1	1	Portrait	Across	0.00, 0.50
F10101PD	3800 wide forms	1	1	Portrait	Down	0.00, 0.50
F1C10110 <sup>3</sup>	Cut-sheet	1	1	Landscape	Down	0.165, 0.165
F1C10111 4	Cut-sheet	1	2	Landscape	Down	0.165, 0.165
F1C10112 4	Cut-sheet	1	Tumble	Landscape	Down	0.165, 0.165

<sup>1.</sup> Specified in inches from the paper edge.

Use the form definitions in Table 9 with the IBM 3935 Advanced Function Printer and the IBM 3160 Advanced Function Printer.

Table 9. Form Definition Supplied for IBM 3935 and 3160 Printers

Form Definition	Bin	Sides	Presentation Mode	Print Direction	Page Position (in inches from the top-left corner of the page)
F1A1BIN2	2	1	Portrait	Across	0.165, 0.165
F1A1BIN3	3	1	Portrait	Across	0.165, 0.165
F1A1BIN4	4	1	Portrait	Across	0.165, 0.165
F1A1BIN5	5	1	Portrait	Across	0.165, 0.165

<sup>2.</sup> Created using Overlay Generation Language (OGL). Positions sample overlays.

<sup>3.</sup> Designed for use with the IBM 3835 printer.

<sup>4.</sup> Designed for use with advanced function printers. Specify these form definitions when printing data that has been formatted for cut-sheet printers.

#### Page Definitions Supplied with Infoprint

Table 10 through Table 14 on page 10 list the page definitions that are supplied with Infoprint. The page definitions are grouped by the size of the paper on which the job prints.

#### Page Definitions for Letter-Sized Paper

Table 10. Page Definitions for Letter-Sized Paper

Page Definition	Printable Area (Width by Height, In Inches)	Print Lines per Page	Print Position: Down/Across	Recom- mended Font	Printing Direction	Page Presentation
P1A06462 1, 2	8.17 by 10.67	64 at 6.0 lpi	30/0	GT10	Across	Portrait
P1A08682 <sup>3</sup>	8.17 by 10.67	86 at 8.2 lpi	24/0	GT12	Across	Portrait

<sup>1.</sup> This page definition is also valid for 9.5 by 11.0 inch continuous-form paper.

#### Page Definitions for A4-Sized Paper

Table 11. Page Definitions for A4-Sized Paper

Page Definition	Printable Area (Width by Height, In Inches)	Print Lines per Page	Print Position: Down/Across	Recom- mended Font	Printing Direction	Page Presentation
P1C09182 <sup>1</sup>	7.94 by 11.36	91 at 8.2 lpi	25/0	GT12	Across	Portrait
P1V0436B <sup>2</sup>	10.67 by 7.11	43 at 6.1 lpi	30/0	GT10	Up	Landscape
P1V04863 1, 2	10.67 by 7.94	48 at 6.1 lpi	30/0	GT10	Down	Landscape
P1V0588B <sup>2</sup>	10.67 by 7.11	58 at 8.2 lpi	24/0	GT12	Up	Landscape
P1V0598B <sup>2</sup>	10.67 by 7.11	59 at 8.2 lpi	24/0	GT12	Up	Landscape
P1V0608B 2, 3	10.67 by 7.11	60 at 8.5 lpi	24/224	GT15	Up	Landscape
P1V0618B 2, 3	10.67 by 7.11	61 at 8.5 lpi	24/224	GT15	Up	Landscape
P1V06483 1, 2	10.67 by 7.94	64 at 8.2 lpi	24/0	GT12	Down	Landscape
P1V06683 1, 2, 3	10.67 by 7.94	66 at 8.5 lpi	24/224	GT15	Down	Landscape
P1X04763 <sup>2, 4</sup>	10.60 by 7.77	47 at 6.1 lpi	30/0	GT10	Down	Landscape

<sup>1.</sup> Designed to work with 3820, 3827, 3835 printers.

<sup>2.</sup> Designed for use with IBM 3812, 3816, 3820, 3825, 3827, 3835, 3900, 4028, 4224, and 4234 printers.

<sup>3.</sup> Designed for use with IBM 3820, 3827, and 3835 printers.

<sup>2.</sup> Designed to work for letter-sized and A4-sized paper.

<sup>3.</sup> The printable area is 9.74 by 7.94 inches because of the 224 logical unit offset in the "Print Position: Down/Across" column.

<sup>4.</sup> Designed for use with HPCL and PPDS data streams.

#### Page Definitions for Letter- and A4-Sized Paper with Multiple-Up of 2 and 4

Table 12. Page Definitions for Letter- and A4-Sized Paper with Multiple-Up of 2 and 4

Page Definition	Printable Area (Width by Height, In Inches)	Print Lines per Page	Print Position: Down/Across	Recom- mended Font	Printing Direction	Page Presentation
P1W1168B	10.67 by 7.11	58 at 8.2 lpi	Page 1 24/0 Page 2 24/1281	GT15	Up	Landscape
P1W1188B	10.67 by 7.11	59 at 8.2 lpi	Page 1 24/0 Page 2 24/1281	GT15	Up	Landscape
P1W120C2 1	7.94 by 10.67	60 at 12.0 lpi	Page 1 16/160 Page 2 1344/160	GT20	Across	Portrait
P1W12883 <sup>1</sup>	10.67 by 7.94	64 at 8.2 lpi	Page 1 24/0 Page 2 24/1281	GT15	Down	Landscape
P1W216FB	10.67 by 7.11	54 at 15.2 lpi	Page 1 16/48 Page 2 890/48 Page 3 16/1322 Page 4 890/1322	GT24	Up	Landscape
P1W220FB	10.67 by 7.11	55 at 15.2 lpi	Page 1 16/48 Page 2 890/48 Page 3 16/1322 Page 4 890/1322	GT24	Up	Landscape
P1W240F3 1	10.67 by 7.94	60 at 15.2 lpi	Page 1 16/48 Page 2 968/48 Page 3 16/1322 Page 4 968/1322	GT24	Down	Landscape

<sup>1.</sup> Designed to work with 3820, 3827, 3835 printers.

# Page Definitions for Legal-Sized Paper

Table 13. Page Definitions for Legal-Sized Paper

Page Definition	Printable Area (Width by Height, In Inches)	Print Lines per Page	Print Position: Down/Across	Recom- mended Font	Printing Direction	Page Presentation
P1B0446B	13.67 by 7.34	44 at 6.0 lpi	30/0	GT10	Up	Landscape
P1B04963 1	13.67 by 8.17	49 at 6.0 lpi	30/0	GT10	Down	Landscape
P1B0608B	13.67 by 7.34	60 at 8.2 lpi	24/0	GT12	Up	Landscape
P1B06683 <sup>1</sup>	13.67 by 8.17	66 at 8.2 lpi	24/0	GT12	Down	Landscape
P1B08262 <sup>2</sup>	8.17 by 13.67	82 at 6.0 lpi	30/0	GT10	Across	Portrait
P1B11082 <sup>1</sup>	8.17 by 13.67	110 at 8.2 lpi	24/0	GT12	Across	Portrait
P1R04763 <sup>3</sup>	13.6 by 8.0	47 at 6.0 lpi	30/0	GT10	Down	Landscape

<sup>1.</sup> Designed for use with IBM 3820, 3827, and 3835 printers.

<sup>2.</sup> Designed for use with IBM 3812, 3816, 3820, 3825, 3827, 3828, 3835, 3900, 4028, and 4224 printers.

<sup>3.</sup> Designed for use with HPCL and PPDS data streams.

# Page Definitions for B4-Sized Paper

Table 14. Page Definitions for B4-Sized Paper

Page Definition	Printable Area (Width by Height, In Inches)	Print Lines per Page	Print Position: Down/Across	Recom- mended Font	Printing Direction	Page Presentation
P1D0556B	14.0 by 8.96	55 at 6.1 lpi	30/0	GT10	Up	Landscape
P1D06063 1	14.0 by 9.79	60 at 6.1 lpi	30/0	GT10	Down	Landscape
P1D0748B	14.0 by 8.96	74 at 8.2 lpi	24/0	GT12	Up	Landscape
P1D08083 1	14.0 by 9.79	80 at 8.2 lpi	24/0	GT12	Down	Landscape
P1D08462 1	9.79 by 14.0	84 at 6.0 lpi	30/0	GT10	Across	Portrait
P1D11382 1	9.79 by 14.0	113 at 8.2 lpi	24/0	GT12	Across	Portrait

<sup>1.</sup> Designed for use with IBM 3820, 3827, and 3835 printers.