helpsystems

User Guide
iForms Library 2.1.1

Copyright Terms and Conditions

Table of Contents

Preface

Welcome to the *iForms Library User Guide.* This guide is document version 2.1.1. For more information on document version, see Document Conventions and Symbols below.

What Is in This Guide

This user guide provides detailed information on how to set up iForms Library to merge spool files with iForms templates to create professional-looking forms.

Here is what this guide includes:

- **Section 1** Preface describes this user guide, how to find the information you need, and how to contact HelpSystems Document Management Systems.
- **Section 2** Introducing iForms Library describes iForms and iForms Library, shows you where to find installation and licensing instructions, and shows you how to get to the main menu.
- **Section 3** Configuring iForms Library shows you how to set the data areas in iForms Library.
- **Section 4** Using iForms Library shows you how to initiate a form merge from a CL program on the iSeries, monitor output queues for files to automatically merge, and assemble document packets.
- **Appendices** The Appendices provide references of the variables, user-defined-data parameters, and iSeries printer drivers you can use in form merges.

About HelpSystems Document Management

HelpSystems Document Management helps companies go paperless by automating business processes and digitally managing the entire lifecycle of their business information.

We provide solutions that help you capture, manage, distribute, and route documents digitally, and we provide you with the tools you need to keep that information safe and secure. Learn about HelpSystems Document Management at http://www.helpsystems.com/rjs.

What Is Not in This Guide

This user guide does not describe how to use:

- iSeries commands other than those for iForms Library.
- Older versions of iForms Library for versions of iForms Server before 2.0.0. For information on legacy versions of iForms, contact HelpSystems Document Management.
- Other iForms components including:
    - iForms Server
    - iForms Text Designer
    - iForms Designer

    For information on other iForms components, see https://community.helpsystems.com/products-and-downloads/product-manuals/?brand=rjs or contact HelpSystems Document Management.
- iForms set-ups that do not use iForms Library.

Document Conventions and Symbols

This user guide conforms to the following conventions:

- In step-by-step procedures, the following are in bold type: buttons, options, and keys that you press.
    For example: On the **Document** tab, click **Delete Page**.
- In step-by-step procedures, words, letters, numerals, or symbols that you type are in both bold and italic type.
- For example: Type *GO RJSIMAGE* on a command line.
- IBM hardware can be noted as AS/400, iSeries, or i5. For simplicity, this guide use *iSeries* unless referring to a specific server model.
- For simplicity, all references to the IBM operating system in this guide use *OS/400* unless referring specifically to i5/OS.
- The document version, shown on the first page of this guide, denotes both the iForms Designer software version this guide represents and document draft for the release. Document version is in the format X.Y.ZZ.N, where *X.Y.ZZ* represents the iForms Designer software version and *N* represents the document draft number.

    For example: If the document version is noted as 1.00.00.1, then the information in this guide is current as of iForms Designer version 1.00.00, and this guide is the first release of the guide for that version.
- Typically with iForms Library, as with most software applications, there are several ways to accomplish the same thing. This guide shows one simple way to perform an action.

Contacting HelpSystems Document Management

Please do the following before contacting HelpSystems Document Management for technical support:

- Check this guide's table of contents and index for information that addresses your concern.
- Gather and organize as much information as possible about the problem.

Telephone	Email	Website
Sales/Technical Support: 800-328-1000 **General:** 952-736-5800 **Fax:** 952-736-5801 (available business days 8:00 am. to 5:00 p.m. Central Time)	**Technical support:** support.rjs@helpsystems.com **Sales:** info.rjs@helpsystems.com	**Company:** http://www.helpsystems.com/rjs **Technical support:** http://support.rjssoftware.com

Introducing iForms Library

This section describes iForms and iForms Library, shows you where to find installation and licensing instructions, and shows you how to get to the main menu.

About iForms Library

iForms Concepts

Installing and Licensing iForms Library

Accessing the Main Menu

About iForms Library

iForms software lets you create electronic forms and professional business reports from virtually any source. With iForms, you can create professional invoices, purchase orders, billing statements, advanced reports, and more, without relying on expensive pre-printed forms or custom reporting tools.

There are many different ways to set up iForms. The best way for you will depend on your business needs. All iForms set-ups center around the iForms Server, which gathers all the information necessary for a merge and then performs the merge. However, the iForms Server does not perform merges on its own. You also need a way to tell the iForms Server to run a merge. iForms Library is one of the options for submitting merge requests to the iForms Server.

Set up iForms Library if you want to either:

- Request form merges from an iSeries program.
- Monitor an output queue and then request form merges for spool files in that output queue.

With iForms Library, you can:

- Choose which spool files to merge in iForms.
- Define how to merge those spool files.
- Run a monitor to automatically send merge requests to the iForms Server.
- Use an iSeries program to send merge requests to the iForms Server.
- Assemble many documents into one output file.

Installing and Licensing iForms Library

Because iForms has many components, iForms Library is only part of setting up iForms. The instructions in this guide assume you have done the following before you install iForms Library:

- Installed and set up the iForms Server.

  Note: If you are installing iForms Library on the iForms Server, after you install iForms Library, run the **STRIFMSVR** command to start the iForms Server.

- Set up the iSeries with iForms Library as an iSeries Resource on the iForms Server.

- Created iForms Text Designer templates and iForms Designer templates for the spool files on this iSeries.

Best Practice: If you are merging spool files, install iForms Library on the same iSeries as those spool files. Then, iForms Library can find new spool files and send requests to the iForms Server to merge them.

For iSeries Library installation instructions, see: https://community.helpsystems.com/knowledge-base/rjs/installations/installing-iforms-library/.

For iSeries Library licensing instructions, see: https://community.helpsystems.com/knowledge-base/rjs/licensing/licensing-iforms/.

iForms Concepts

One of the strengths of iForms is its flexibility. You can set up iForms many different ways to best meet your business needs. This guide focuses on the scenarios where you use iForms Library to initiate merge requests.

However you set up iForms with iForms Library, the basic flow is the same:

1. iForms Library - the merge client - sends a request to the iForms Server. The request includes the following information that is used in the merge:
   - **iSeries Resource**- The location of the system that holds the spool files to merge.
   - **iForms Text Designer Template**- Which iForms Text Designer template on the iForms Server to use to extract the contents from the spool files into a database table.
   - **Datasource**- The location of the database table that holds the extracted spool-file contents. iForms Server has a default database for spool-file information that many scenarios will use.
   - **iForms Designer Template**- Which iForms Designer template on the iForms Server to use to lay out the spool-file contents into a professional-looking form.
   - **Output Location**- Where to send the merged form and what **Format**to save it in.
2. iForms Server finds the spool file in the **iSeries Resource**and uses the **iForms Text Designer Template** to extract the spool-file contents.
3. iForms Server writes the spool-file contents into a database entry in the **Datasource**.
4. iForms Server merges the database entry with the **iForms Designer Template** and sends it to the **Output Location**.

The following examples show some of the ways you can set up iForms on your systems:

Example 1: All components are on the same iSeries system.
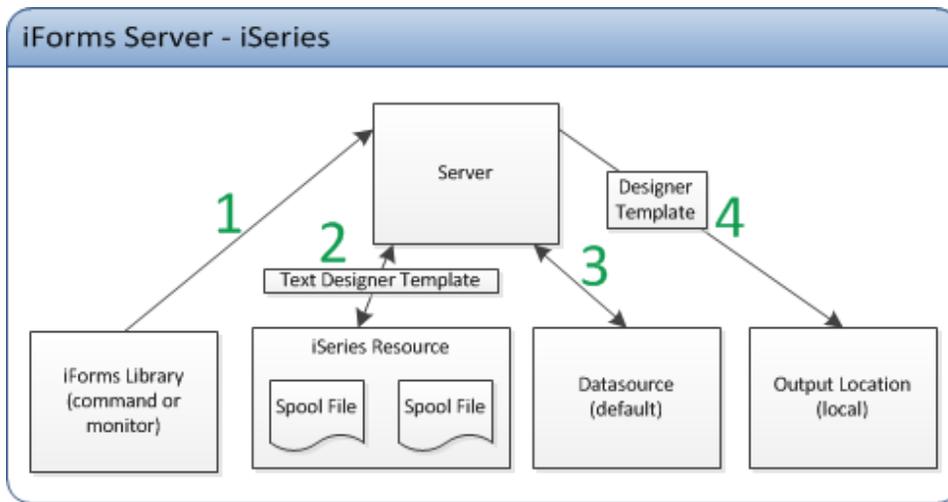
Example 2: The spool files are on a different system from the iForms Server. The output forms are stored on the iForms Server.
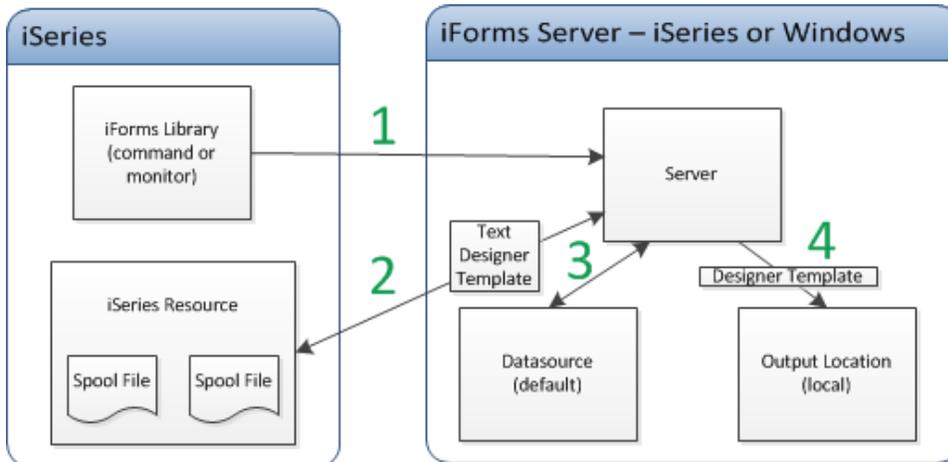
Example 3: The spool files are on a different system from the iForms Server. The output forms are spooled back to the originating iSeries to be printed.
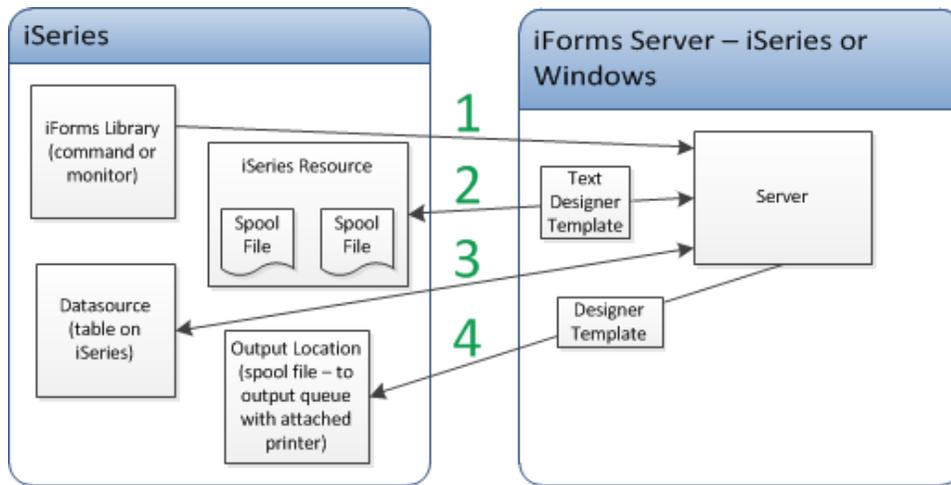
Accessing the Main Menu

You set up iForms Library by working with commands from the new main menu.

To get to the new iForms Library main menu:

1. Log in to the iSeries with a user ID that has command-line authority.
2. On a command line, type **ADDLIBLE RJSIFORMS**.
   The RJSIFORMS library is added to your library list.
3. Type **GO RJSIFORMS**.
   The new iForms Library main menu displays.

Configuring iForms Library

iForms Library has one required data area and five optional data areas that set the default values for iForms parameters.

To configure iForms Library:

1. Set the required **RMTSRVURL** data area using the **CHGDTAARA** command:

Data Area	Description	Sample Command Syntax
RMTSVRURL	The URL of the iForms Server including the port. iForms searches for the iForms Server URL in the following places, in order: 1. The Remote Server URL parameter in the merge request. If this parameter is blank: 2. This data area.	CHGDTAARA DTAARA (RJSIFORMS/RMTSVRURL) VALUE('http://1.1.1.1:9615')

2. (Optional) Set the five optional data areas using the **CHGDTAARA**command:

Data Area	Description	Sample Command Syntax
DFLFILEEXT	The default file extension for merged output forms. **Note:** This data is only used if you are Merging Spool Files from a Monitor. The iForms monitor searches for the file extension for output forms in the following places, in order: 1. The **EXT:** parameter in the user-defined data of the spool file. If this is not present: 2. The extension in the Output File Name parameter in the merge request. If this parameter is blank: 3. This data area.	CHGDTAARA DTAARA (RJSIFORMS/DFLFILEEXT) VALUE(PDF)

Data Area	Description	Sample Command Syntax
DFLFILELC	The default folder for merged output forms. **Note:** This data is only used if you are Merging Spool Files from a Monitor. The iForms monitor searches for the file location for output forms in the following places, in order: 1. The **LOCATION:** parameter in the user-defined data of the spool file. If this is not present: 2. The path in the Output File Name parameter in the merge request. If this parameter is blank: 3. This data area.	• If the output location is a PC directory: CHGDTAARA DTAARA (RJSIFORMS/DFLFILELOC) VALUE('C:\RJSDocs\Invoices') • If the output location is an IFS directory: CHGDTAARA DTAARA (RJSIFORMS/DFLFILELOC) VALUE ('/RJSDOCS/INVOICES')
DFLFILENM	The default file name for merged output forms. **Note:** This data is only used if you are Merging Spool Files from a Monitor. The iForms monitor searches for the file name for output forms in the following places, in order: 1. The **ATTACHNAME:** parameter in the user-defined data of the spool file. If this is not present: 2. The file name in the Output File Name parameter in the merge request. If this parameter is blank: 3. This data area.	CHGDTAARA DTAARA (RJSIFORMS/DFLFILENAM) VALUE(INVOICE)
IFMDTASRC	The default name of the Datasource to use when merging spool files. iForms searches for the Datasource in the following places, in order: 1. The Datasource Name parameter in the merge request. If this parameter is blank: 2. This data area. If this data area is blank: 3. The default Datasource on the iForms Server.	CHGDTAARA DTAARA (RJSIFORMS/IFMDTASRC) VALUE(MYDATASOURCE)

Data Area	Description	Sample Command Syntax
IFMRESRC	The default name of the iSeries Resource to use when merging spool files. iForms searches for the iSeries Resource in the following places, in order: 1. The iSeries Resource Name parameter in the merge request. If this parameter is blank: 2. This data area. If this data area is blank: 3. The default iSeries Resource on the iForms Server.	CHGDTAARA DTAARA (RJSIFORMS/IFMRESRC) VALUE (MYISERIES)

Using iForms Library

This section shows you how to initiate a form merge from a CL program on the iSeries, monitor output queues for files to automatically merge, and assemble document packets.

[Merging from a Program](#)

[Merging Spool Files from a Monitor](#)

[Assembling Document Packets](#)

Merging from a Program

This topic shows you how to initiate a form merge from a CL program on the iSeries.

1. From the [new main menu](#), choose **1. Merge input file with template - IFMEXEC**.

   Merge input file with template (IFMEXEC) displays.

2. In **Source Type**, choose whether to merge database entries (**REPORT*) or spool files (**SPOOL*) and press **Enter**.

   ```
                Merge input file with template (IFMEXEC)

   Type choices, press Enter.

   Source Type  . . . . . . . . .      *REPORT      *REPORT, *SPOOL
   ```

   The iForms parameters display.

3. Set up the iForms parameters based on the following descriptions:

   ```
                Merge input file with template (IFMEXEC)

   Type choices, press Enter.

   Source Type  . . . . . . . . . > *SPOOL       *REPORT, *SPOOL
   Input Spool File Name  . . . . .              Name
   Job name . . . . . . . . . . .   *           Name, *
     User name  . . . . . . . . .              Name
     Job number . . . . . . . . .              000000-999999
   Spool file number  . . . . . .   *LAST       Number, *ONLY, *LAST
   Environment  . . . . . . . . .   RJSIFORMS
   iReport Template . . . . . . .
   Data Source Name . . . . . . .
   iSeries Resource Name  . . . .
   Spool Extractor  . . . . . . .
   Priority . . . . . . . . . . .   *BATCH       *BATCH, *INTERACTIVE
   Format . . . . . . . . . . . .   *PDF         *PDF, *TIFF, *XLS, *XML...
   Output Location  . . . . . . .                *LOCAL, *IFS, *SPOOL...


   Remote server URL  . . . . . .   'http://1.1.1.1:9615'




                                                             ...
   ```

Parameter	Description
Source Type	Specify the input file type.
Input Spool File Name	(Only for merging spool files) The spool-file name of the spool file to merge.
Job name	(Only for merging spool files) The job name of the spool file to merge.
User name	(Only for merging spool files) The user name of the spool file to merge.
Job number	(Only for merging spool files) The job number of the spool file to merge.
Spool file number	(Only for merging spool files) The spool-file number of the spool file to merge.
Environment	The environment you have set up on the iForms Server to perform the merge in. **Note:** This field is not case-sensitive. For example: ACMECOPROD or ACMECOTEST
iReport Template	The name of the iForms Designer template, without file path or extension, to use in the merge. This template must be in the Environment you chose on the iForms Server. **Note:** The name is case-sensitive only if the operating system of the iForms Server requires case-sensitive entries. For example: INVOICE
Data Source Name	The name of the connection to the table: • Leave this field blank to use the default Datasource on the iForms Server. Most spool-file merges use the default Datasource. • If you have set up a Datasource on the iSeries Resource that holds the spool files, type the name you gave that Datasource on the iForms Server. For example: If you are pulling data from both spool files and physical files on the iSeries into the table. **Note:** This field is not case-sensitive.
iSeries Resource Name	The name of the iSeries Resource that contains the spool files to merge. Leave this field blank to use the default iSeries Resource you set up on the iForms Server. **Note:** This field is not case-sensitive.
Spool Extractor	(Only for merging spool files) The name of the iForms Text Designer template, without file path or extension, that extracts the portions of the spool file to merge with the iForms Designer template. This template must be in the Environment you chose on the iForms Server. **Note:** The name is case-sensitive only if the operating system of the iForms Server requires case-sensitive entries. For example: INVOICE

Parameter	Description
Priority	The priority of these merges: • **BATCH* - Normal priority. Forms are merged first-in, first-out. • **INTERACTIVE* - High priority. These forms jump to the front of the queue before all batch merges.
Format	The format of output merged forms: • **PDF* - A text-searchable PDF. • **TIFF*- A multi-page TIFF. • **XLS* - Microsoft Office 97-2003 Excel spreadsheet. • **XML* • **CSV* • **RTF* • **HTML* - Display HTML output once and then discard it. The HTML output is not meant for archiving and does not create a resource folder or a resource object.For example: To display a report on a web portal, you can embed the IFMEXEC URL on a webpage and the data will update every time someone loads that webpage. • **JPG*- Saves one page as a JPG. By default, it saves page 1. To choose which page to save, set the **OUTPUT_IMAGE_PAGERANGE** run-time parameter to that page number in step 5 below. • **JPGZIP* - Saves each page as a JPG and zips all the JPGs together in one ZIP file. • **PRINT* (Windows server only) - For many simple documents, like labels, print to a PC printer quickly but with lower quality, using the print settings you choose in step 4c below. In most cases, you should use **PDFPRINT*to print to a PC printer. • **PDFPRINT* (Windows server only) - Print to a PC printer, using the print settings you choose in step 4c below. • **AFPPRINT* (Windows server only) - Generate AFPDS spool files for the iSeries, using the print settings you choose in step 4c below.

Parameter	Description
Output Location	Where to save the final merged forms: *LOCAL* - The directory on the iForms Server that you choose in step 4a below. *IFS* - The IFS directory on the iSeries Resource that you choose in step 4a below. **Note:**The user ID for this iSeries on the iForms Server must have write access to this IFS directory. *SPOOL* - Write as a spool file in an output queue and library on the iSeries Resource. You choose the attributes of these spool files in step 4b below. **Note:**To print to an iSeries printer, choose this option and then, in Format, choose *GSPRINT*. *PCPRINTER* - Print directly to a PC printer on the iForms Server. Then, in Format, choose *PDFPRINT*. You choose the print settings in step 4c below.
Remote server URL	The URL to the iForms Server. Use the format *http://<ipaddress or hostname>:<port>* For example: 'http://1.1.1.1:9615' **Note:** - The default port is 9615. - If you leave this field blank, iForms uses the iForms Server URL in the RMTSVRURL data area.

4. Press **Enter**. Depending on the parameters you set above, additional options may display.

   a. If you chose *LOCAL* or *IFS* in Output Location, type the full path, including file name and extension, to the PC or IFS directory to send the merged forms to.

   For example:
   - For a PC directory, use the format:
     `C:\RJSDocs\Invoice1234.pdf`

   - For an IFS directory, use the format:
     `/RJSDocs/Invoice1234.pdf`

   b. If you chose *SPOOL* in Output Location, choose the attributes for the output spool files:

```
Output Spool File:
  Spool Name . . . . . . . . . .     _____     Character value
  Output queue . . . . . . . . .     _____     Name
    Library  . . . . . . . . . .       *LIBL        Name, *LIBL
  Form Type  . . . . . . . . . .     _____     Character value
  User Data  . . . . . . . . . .     _____     Character value
  User Defined Data  . . . . . .     _____
  Save . . . . . . . . . . . . .     *NO            *NO, *YES
  Hold . . . . . . . . . . . . .     *NO            *NO, *YES
```

- The spool-file name.
- The output queue and library.
- The form type.
- The user data.
- The user-defined data.
- Whether to save the spool file after printing.
- Whether to hold the spool file or allow it to print.

c. If you chose any of the print options in Output Location or Format, choose the printing settings:

```
PC Driver Info:
  Driver . . . . . . . . . . . .     _____
  Copies . . . . . . . . . . . .     _____          Character value
  Tray . . . . . . . . . . . . .     _____
  Pages  . . . . . . . . . . . .     _____
  Orientation  . . . . . . . . .     _____
  Duplex . . . . . . . . . . . .     _____
  Collate  . . . . . . . . . . .     *NO            Character value, *NO, *YES
```

Parameter	Description
Driver	If you are printing to: • A PC printer: For a list of all available printers and their trays, go to **https://1.1.1.1:9715/iforms/list/printers**, where *1.1.1.1*is your iForms Server's IP address. • An iSeries printer: Type *pxlmono* for grayscale printing or *pxlcolor* for color printing. If these options do not work, see Appendix C: iSeries Printer Drivers for a list of other driver options.
Copies	The number of copies to print. **Note:** If you are printing to an iSeries printer, the number you choose here is the Copies attribute of the output spool files.

Parameter	Description
Tray	If you are printing to: • A PC printer: For a list of all available printers and their trays, go to **https://1.1.1.1:9715/iforms/list/printers**, where *1.1.1.1*is your iForms Server's IP address. • An iSeries printer: Choose one of the trays you created when you set up printing on the iSeries. The tray you choose here is the Source Drawer attribute of the output spool files.
Pages	If you are printing to a PC printer, the page or pages to print. Leave blank to print all pages. For example: 1, 3-7, 9, 15-17 **Note:** If you chose *PRINT* in [Format](), you can only type either one number (#) or one range (#-#), but not any combination.
Orientation	The page orientation: • *PORTRAIT* • *LANDSCAPE* • *REVERSELANDSCAPE* - Landscape orientation rotated 180°. • *REVERSEPORTRAIT* - Portraitorientation rotated 180°.
Duplex	Whether to print single-sided or double-sided: • *ONESIDED* • *TWOSIDEDLONGEDGE* - For pages in portrait orientation. • *TWOSIDEDSHORTEDGE* - For pages in landscape orientation.
Collate	If you are printing to a PC printer, whether to collate: • *NO* • *YES* **Note:** iSeries printers automatically collate.

5. (Optional) Press **F10**to set the following additional parameters:

Parameter(s)	Description
Template Parm Name & Parm Values	The **Parm Name** and **Parm Value** of any template parameters you created in the iForms Designer template. **Note:** You can enter up to 10 template parameters. **Best Practice:**When you name your parameters, use all upper-case letters.
Runtime Name & Values	The **Parm Name** and **Parm Value** of any additional parameters. Contact [[[Undefined variable hsvariavbles.hs_short]]] to discuss available options and to get the Name/Value syntax. **Note:** You can enter up to 25 run-time parameters.
Change Spool File user	If the Output Location is *SPOOL*, whether to move the output spool file to a New Output Queue & Library so that the user who initiated the merge has access to it: **Note:** Because this additional step makes form merges take longer, only use this option if users otherwise do not have access to the output spool files. • *YES* • *NO*
New Output Queue & Library	If you chose *YES* in Change Spool File user, the output queue and library to move the output spool files to, so that users have access to them.

6. Press **F14** to view the command string.
7. Copy and paste this command string into your CL program.

    Your CL program can now initiate an iForms merge from the iSeries.

Merging Spool Files from a Monitor

This section tells you how to monitor output queues for spool files and automatically initiate a form merge when spool files are found.

This section is divided into the following topics, which you should follow in order:

1. Adding an Output Queue to Monitor
2. Setting Up the iForms Parameters for Spool Files
3. Running the iForms Monitor

Adding an Output Queue to Monitor

iForms Library monitors specific output queues for new spool files. Then, when new spool files are created in the output queue, it sends a request to the iForms Server to merge those spool files. This topic shows you how to add an output queue to the list for monitoring, so that spool files in that output queue can be merged.

To add an output queue to the monitor list:

1. From the new main menu, choose **40. Edit iForms Monitor Queue List**.

    A list of output queues to monitor displays.

2. Press **F6** to add a new output queue to the list.

    Edit Output Queue List - Add displays.

3. Set up the output queue, based on the following descriptions:

Parameter	Description
Output Queue	The output queue to monitor.
Library	The library of the output queue to monitor.
Description	(Optional) A description to help you remember what this output queue is.
Activate Queue Y/N	Whether to monitor this output queue: • *Yes* • *No* - Save the page for set-up, debugging, or future use, but don't monitor it yet.

Parameter	Description
After Processing Option	What do to with the input spool files after they are merged: • *Mark* – Mark them with the user data *SENT* so that iForms monitor will not merge them again. • *Move* – Move them to the output queue you choose in Move to Output Queue below. • *Delete* Note: If you are setting up multiple parameter-maintenance pages for this output queue, each input spool file is deleted after merging with the *first* parameter-maintenance page it matches. So, if a spool file's attributes match two parameter-maintenance pages, the second page will be unable to merge it. If you need multiple parameter-maintenance pages to merge the same spool file, choose another after-processing option. • *None* – Do nothing. The spool files will be merged again on the next monitor pass.
Output Queue Group	(Optional) If you want to monitor only some output queues on the list, choose a group name for those output queues. For each output queue that you want that monitor to merge, type the group name here. Then, for that monitor, type the group name in Output queue dist group. For example: If you are monitoring 10 output queues and you use the same monitor for all 10, it can take a long time for the monitor to check them all in sequence. However, if you set up 10 groups and assign one output queue and one monitor to each group, you can submit each monitor as a different job, and all 10 jobs can run at once.

4. Press **Enter**. Depending on the parameters you set above, additional options may display.

    a. If you choose *Move* in After Processing Option, choose the output queue to move the input spool files to.
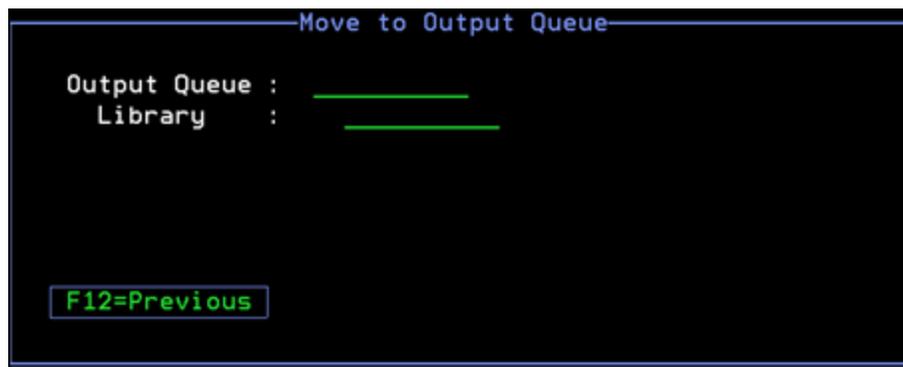
5. Press **F3=Exit & Save** to add this output queue to the list.
6. Set up the iForms parameters for these spool files.

Setting Up the iForms Parameters for Spool Files

Now that you have added an output queue to the monitor list, you need to set up *how* spool files in that output queue will be merged with iForms templates.

1. From the new main menu, choose **41. Edit iForms Parameters**.

    A list of parameters displays.

2. Press **F6** to create parameters for the output queue you just added.

    Parameter Maintenance - Add displays.

3. Set up the iForms parameters, based on the following descriptions:

Parameter	Description
Output Queue	Which output queue these parameters apply to.
Library	The library of the output queue.
Activate Entry	Whether to use these parameters: • **Yes** • **No** - Save the parameters for set-up, debugging, or future use, but don't use them yet.
Extended Select	Whether only some spool files in the output queue use these parameters: • **No**- Use these parameters for all spool files in the output queue. • **Yes**- Use these parameters only for spool files with the specific attributes you choose inExtended Select Options below.

Parameter	Description

Output Location	Where to save the final merged forms:
	
	• *Local* - The directory on the iForms Server that you choose in Output File Name below.
	
	• *IFS* - The IFS directory on the iSeries Resource that you choose in Output File Name below.
	
	  Note: The user ID on the iForms Server for this iSeries must have write access to this IFS directory.
	
	• *Spool* - Write as a spool file in an output queue and library on the iSeries Resource. You choose the attributes of these spool files in Spool File Attributes below.
	
	  Note: To print to an iSeries printer, choose this option and then, in Format, choose**GSPRINT**.
	
	• *PCPrinter* - Print directly to a PC printer on the iForms Server. Then, in Format, choose **PDFPRINT**. You choose the print settings in PC Driver Information below.

Priority	The priority of these merges: • *Batch* - Normal priority. Forms are merged first-in, first-out. • *Interactive* - High priority. These forms jump to the front of the queue before all batch merges.

Parameter	Description
Format	The format of output merged forms: *PDF* - A text-searchable PDF. *TIFF* - A multi-page TIFF. *XLS* - Microsoft Office 97-2003 Excel spreadsheet. *XML* *CSV* *RTF* *HTML* - Display HTML output once and then discard it. The HTML output is not meant for archiving and does not create a resource folder or a resource object. For example: To display a report on a web portal, you can embed the IFMEXEC URL on a webpage and the data will update every time someone loads that webpage. *JPG*- Saves one page as a JPG. By default, it saves page 1. To choose which page to save, set the **OUTPUT_IMAGE_PAGERANGE** run-time parameter to that page number in <u>step 6</u> below. *JPGZIP*- Saves each page as a JPG and zips all the JPGs together in one ZIP file. *PRINT* (Windows server only) - For many simple documents, like labels, print to a PC printer quickly but with lower quality, using the print settings you choose in <u>PC Driver Information</u> below. In most cases, you should use *PDFPRINT*to print to a PC printer. *PDFPRINT* (Windows server only) - Print to a PC printer, using the print settings you choose in <u>PC Driver Information</u> below. *AFPPRINT* (Windows server only) - Generate AFPDS spool files for the iSeries, using the print settings you choose in<u>PC Driver Information</u> below.
Change Spool File User	If the <u>Output Location</u> is *Spool*, whether to move the output spool file to the <u>Final Output Queue Options</u> so that the user who initiated the merge has access to it: **Note:** Because this additional step makes form merges take longer, only use this option if users otherwise do not have access to the output spool files. *YES* *NO*
Environment	The environment you have set up on the iForms Server to perform the merge in. **Note:** This field is not case-sensitive. For example: ACMECOPROD or ACMECOTEST

Parameter	Description
iForms Des. Template	The name of the iForms Designer template, without file path or extension, to use in the merge. This template must be in the Environment you chose on the iForms Server. **Note:** The name is case-sensitive only if the operating system of the iForms Server requires case-sensitive entries. For example: INVOICE
Datasource Name	The name of the connection to the table: • Leave this field blank to use the default Datasource on the iForms Server. Most spool-file merges use the default Datasource. • If you have set up a Datasource on the iSeries Resource that holds the spool files, type the name you gave that Datasource on the iForms Server. For example: If you are pulling data from both spool files and physical files on the iSeries into the table. **Note:** This field is not case-sensitive.
iSeries Resource Name	The name of the iSeries Resource that contains the spool files to merge. Leave this field blank to use the default iSeries Resource you set up on the iForms Server. **Note:** This field is not case-sensitive.
Spool Extractor	The name of the iForms Text Designer template, without file path or extension, that extracts the portions of the spool file to merge with the iForms Designer template. This template must be in the Environment you chose on the iForms Server. **Note:** The name is case-sensitive only if the operating system of the iForms Server requires case-sensitive entries. For example: INVOICE
Remote Server URL	The URL to the iForms Server. Use the format *http://<ipaddress or hostname>:<port>* For example: 'http://1.1.1.1:9615' **Note:** • The default port is 9615. • If you leave this field blank, iForms uses the iForms Server URL in the RMTSVRURL data area.

**Note:** You can enter hard-coded values or variables.

4. Press **Enter**. Depending on the parameters you set above, additional options may display. Press **Enter** again to move between the different additional options.

a. If you chose **Yes** in Extended Select, choose the attributes of the spool files to merge:
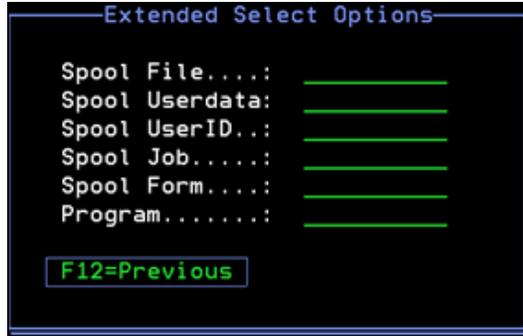
- The spool-file name.
- The user-data value.
- The user ID.
- The job name.
- The form type.
- The name of the program that opened the file.

b. If you chose **Local** or **IFS** in Output Location, type the full path, including file name and extension, to the PC or IFS directory to send the merged forms to.
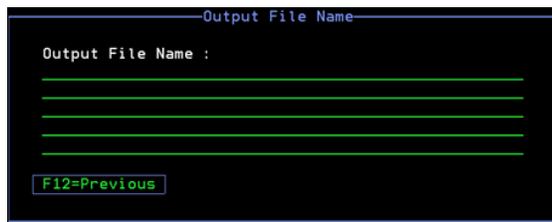

For example:

- For a PC directory, use the format: `C:\RJSDocs\Invoice1234.pdf`
- For an IFS directory, use the format: `/RJSDocs/Invoice1234.pdf`

c. If you chose **Spool** in Output Location, choose the attributes for the output spool files:
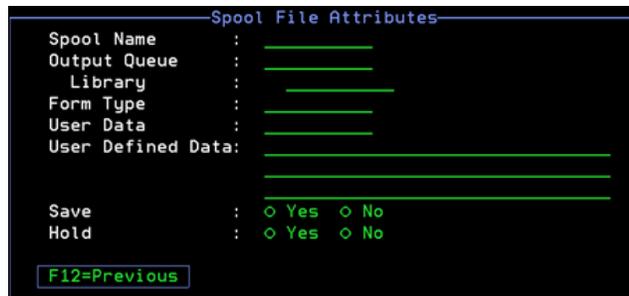
- The spool-file name.
- The output queue and library.
- The form type.
- The user data.
- The user-defined data.
- Whether to save the spool file after printing.
- Whether to hold the spool file or allow it to print.

d. If you chose **Yes** in Change Spool File User, choose the output queue and library to send the output spool files to:
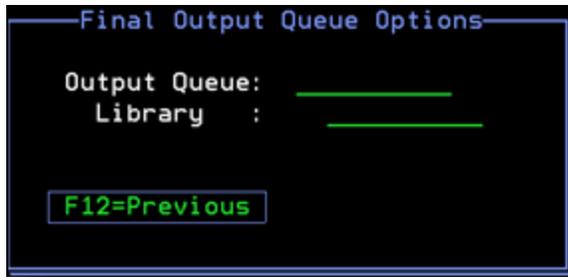
e. If you chose any of the print options in Output Location or Format, choose the printing settings:

Parameter	Description
Driver	If you are printing to: • A PC printer: For a list of all available printers and their trays, go to **https://1.1.1.1:9715/iforms/list/printers**, where *1.1.1.1*is your iForms Server's IP address. • An iSeries printer: Type **pxlmono** for grayscale printing or **pxlcolor** for color printing. If these options do not work, see Appendix C: iSeries Printer Drivers for a list of other driver options.
Copies	The number of copies to print. **Note:** If you are printing to an iSeries printer, the number you choose here is the Copies attribute of the output spool files.
Tray	If you are printing to: • A PC printer: For a list of all available printers and their trays, go to **https://1.1.1.1:9715/iforms/list/printers**, where *1.1.1.1*is your iForms Server's IP address. • An iSeries printer: Choose one of the trays you created when you set up printing on the iSeries. The tray you choose here is the Source Drawer attribute of the output spool files.

Parameter	Description
Pages	If you are printing to a PC printer, the page or pages to print. Leave blank to print all pages. For example: 1, 3-7, 9, 15-17 **Note:** If you chose *PRINT* in Format, you can only type either one number (#) or one range (#-#), but not any combination.
Orientation	The page orientation: • *Portrait* • *Landscape* • *Reverse Landscape* - Landscape orientation rotated 180°. • *Reverse Portrait* - Portraitorientation rotated 180°.
Duplex	Whether to print single-sided or double-sided: • *1 Sided* • *2 Sided Long* - For pages in portrait orientation. • *2 Sided Short* - For pages in landscape orientation.
Collate	If you are printing to a PC printer, whether to collate: • *Yes* • *No* **Note:** iSeries printers automatically collate.

5. (Optional) Press **F10** to display template parameters, and enter the **Name** and **Value** of any additional parameters you created in the iForms Designer template.

   Note: You can enter up to 10 template parameters.

   Best Practice: When you name your parameters, use all upper-case letters.

6. (Optional) Press **F11** to display run-time parameters, and enter the **Name** and **Value** of any additional parameters. Contact HelpSystems Document Management to discuss available run-time parameters and to get the Name/Value syntax.

   Note: You can enter up to 25 run-time parameters.

7. Press **F3=Exit & Save** to save all parameters.

8. Run the iForms monitor.

Running the iForms Monitor

Now that you have added an output queue to the monitor list and set up how spool files in that output queue are merged, you need to run the monitor so that it sends merge requests to the iForms Server.

1. From the new main menu, choose **10. iForms Output Queue Monitor 2 - IFMMON2**.

   iForms Monitor - New (IFMMON2) displays.

   ```
   iForms Monitor - New (IFMMON2)

   Type choices, press Enter.

   Delay processing or run once . .    *ONCE       *DELAY, *ONCE
   Delay between cycles (seconds)      300         1-999999
   Time to end program (HHMMSS) . .    160000      000000-235900
   Output queue dist group  . . . .    _____   Character value, *ALL
   ```

2. Set up the iForms parameters, based on the following descriptions:

Parameter	Description
Delay processing or run once	• *DELAY* – Monitor the output queue regularly for new spool files to process. • *ONCE* – Run the monitor once. This option is useful for testing.
Delay between cycles (seconds)	If you chose *DELAY* in Delay Processing or Run Once, the number of seconds between the end of one monitoring cycle and the beginning of the next.

Time to end program (HHMMSS)	If you chose *DELAY* in Delay Processing or Run Once:
	• *000000* - run the monitor continuously. The monitor will never end unless you end the job with the **ENDJOB** command.
	• The time each day that the monitor stops running. Use the format *HHMMSS* where:
	  ○ *HH* is the hour in 24-hour time, from 00 to 23.
	  ○ *MM* is the minute, from 00 to 59.
	  ○ *SS* is the second, from 00 to 59.
	For example:
	• 235900 is 11:59 p.m.
	• 160000 is 4:00 p.m.

Parameter	Description
Output queue dist group	(Optional) Which group of output queues to monitor. • *ALL* - monitor all output queues. • If you want to monitor only some output queues on the list, assign each of those output queues the same group name in Output Queue Group. Then, type the group name here. For example: If you are monitoring 10 output queues and you use the same monitor for all 10, it can take a long time for the monitor to check them all in sequence. However, if you set up 10 groups and assign one output queue and one monitor to each group, you can submit each monitor as a different job, and all 10 jobs can run at once.

3. Press **F14** to view the command string.

4. Submit this monitor to batch to run in a multi-threaded job queue like QSYSYNOMAX, which is part of the QSYSWRK subsystem. QSYSNOMAX allows the monitor to run along with other iSeries server jobs.

   Caution: If you use a single-threaded job queue like QBATCH, this monitor can block other jobs.

Assembling Document Packets

This topic shows you how to assemble many different documents into one output file.

1. From the new main menu, choose **2. Packet Assembly Command - IFMASM**.

   Assembly Spool to iForms Doc (IFMASM) displays.

2. Set up the assembly parameters based on the following descriptions:

```
              Assembly Spool to iForms Doc (IFMASM)

Type choices, press Enter.

Assembly File Name:              _
  Type  . . . . . . . . . . . .    _____       *LOCAL, *IFS, *SPOOL
  File Path  . . . . . . . . . .    _____
  Input Spool File Name  . . . .    _____    Name
  Job name  . . . . . . . . . .     *_____     Name, *
    User name  . . . . . . . . .    _____     Name
    Job number . . . . . . . . .    _____       000000-999999
  Spool file number  . . . . . .    *LAST        Number, *ONLY, *LAST
  Paper Size . . . . . . . . . .    _____
  Orientation  . . . . . . . . .    _____
  Scale  . . . . . . . . . . . .    _____       *NONE, *FIT, *SHRINK
  Center . . . . . . . . . . . .    _____       *NONE, *ALL, *VERTICAL...
  Left Margin  . . . . . . . . .    _____        Number
  Right Margin . . . . . . . . .    _____        Number
  Top Margin . . . . . . . . . .    _____        Number
```

Parameter	Description
Type	Where to find the file to add to the packet: • *LOCAL* - The directory on the iForms Server that you choose in **File Path**. • *IFS* - The IFS directory on the iSeries Resource that you choose in **File Path**. • *SPOOL* - The spool file on the iSeries Resource that you define in the following parameters: ○ **Input Spool File Name** ○ **Job name** ○ **User name** ○ **Job number** ○ **Spool file number**
Paper Size	The paper size for this document: • *LETTER*, *LEGAL*, *_11X17*, *A4*, and so on. For a list of all available paper sizes, see Appendix D: Paper Sizes. • To specify the exact size, type **'width height'**, where *width* is the page width in points and *height* is the page height in points. For example: '612 792'
Orientation	The page orientation for this document: • *PORTRAIT* • *LANDSCAPE* • *REVERSELANDSCAPE* - Landscape orientation rotated 180°. • *REVERSEPORTRAIT* - Portrait orientation rotated 180°. **Note:** If the Format is *PDF*, results of changing the page orientation may vary.

Parameter	Description
Scale	How to scale the contents of the document to the Paper Size: • *NONE* - Do not scale. • *FIT* - Shrink or expand the contents to best fit. • *SHRINK* - Shrink the contents to best fit, but do not expand.
Center	Whether to center the contents of the document on the page: • *NONE* - Do not center. • *ALL* - Center both horizontally and vertically. • *VERTICAL* - Center vertically. • *HORIZONTAL* - Center horizontally.
Left, **Right**, **Top**, and **Bottom Margin**	If you are scaling the document in Scale, the page margins in points (pt). The document scales to the Paper Size minus the margins you enter here.
+ for more values	Type **+**and press**Enter**to display file parameters for the next file to add to this packet. You can add up to 10 files per packet.
iSeries Resource Name	The name of the iSeries Resource that contains the spool files or IFS files to add. Leave this field blank to use the default iSeries Resource you set up on the iForms Server. **Note:** This field is not case-sensitive.
Priority	The priority of this request to the iForms Server: • *BATCH* - Normal priority. Requests are processed first-in, first-out. • *INTERACTIVE* - High priority. This request jumps to the front of the queue before all batch requests.
Format	The format of output document packet: • *PDF* - A text-searchable PDF. • *TIFF*- A multi-page TIFF. • *JPG*- Saves one page as a JPG. By default, it saves page 1. To choose which page to save, set the **OUTPUT_IMAGE_PAGERANGE** run-time parameter to that page number in step 4 below. • *JPGZIP* - Saves each page as a JPG and zips all the JPGs together in one ZIP file. • *GSPRINT* - Print to an iSeries printer, using the print settings you choose in step 3c below. Also choose *SPOOL* in Output Location to send the document to the output queue with attached printer. • *PDFPRINT* (Windows server only) - Print to a PC printer, using the print settings you choose in step 3c below. • *AFPPRINT* (Windows server only) - Generate AFPDS spool files for the iSeries, using the print settings you choose in step 3c below.

Parameter	Description
Output Location	Where to save the final document packet: • *LOCAL* - The directory on the iForms Server that you choose in step 3a below. • *IFS* - The IFS directory on the iSeries Resource that you choose in step 3a below. **Note:**The user ID for this iSeries on the iForms Server must have write access to this IFS directory. • *SPOOL* - Write as a spool file in an output queue and library on the iSeries Resource. You choose the attributes of these spool files in step 3b below. • *PCPRINTER* - Print directly to a PC printer on the iForms Server. Also choose *PDFPRINT* in Format. Then, choose the print settings in step 3c below.
Remote server URL	The URL to the iForms Server. Use the format *http://<ipaddress or hostname>:<port>* For example: 'http://1.1.1.1:9615' **Note:** • The default port is 9615. • If you leave this field blank, iForms uses the iForms Server URL in the RMTSVRURL data area.

3. Press **Enter**. Depending on the parameters you set above, additional options may display.

    a. If you chose *LOCAL* or *IFS* in Output Location, type the full path, including file name and extension, to the PC or IFS directory to send the document packet to.

    ```
    Output File Name . . . . . . . . _____
    _____
    _____
    _____
    ```

    For example:

    • For a PC directory, use the format:
      `C:\RJSDocs\Invoice1234.pdf`

    • For an IFS directory, use the format:
      `/RJSDocs/Invoice1234.pdf`

    b. If you chose *SPOOL* in Output Location, choose the attributes for the output spool files:

```
Output Spool File:
  Spool Name . . . . . . . .         _____     Character value
  Output queue . . . . . . .         _____     Name
    Library  . . . . . . . .         *LIBL____      Name, *LIBL
  Form Type  . . . . . . . .         _____     Character value
  User Data  . . . . . . . .         _____     Character value
  User Defined Data  . . . . .                      _____
  Save . . . . . . . . . . .         *NO            *NO, *YES
  Hold . . . . . . . . . . .         *NO            *NO, *YES
```

- The spool-file name.
- The output queue and library.
- The form type.
- The user data.
- The user-defined data.
- Whether to save the spool file after printing.
- Whether to hold the spool file or allow it to print.

c. If you chose any of the print options in Output Location or Format, choose the printing settings:

```
PC Driver Info:
  Driver . . . . . . . . . . .        _____
  Copies . . . . . . . . . . .        _____           Character value
  Tray . . . . . . . . . . . .        _____
  Pages  . . . . . . . . . . .        _____
  Orientation  . . . . . . . .        _____
  Duplex . . . . . . . . . . .        _____
  Collate  . . . . . . . . . .        *NO             Character value, *NO, *YES
```

Parameter	Description
Driver	If you are printing to: - A PC printer: For a list of all available printers and their trays, go to **https://1.1.1.1:9715/iforms/list/printers**, where *1.1.1.1*is your iForms Server's IP address. - An iSeries printer: Type *pxlmono* for grayscale printing or *pxlcolor* for color printing. If these options do not work, see Appendix C: iSeries Printer Drivers for a list of other driver options.
Copies	The number of copies to print. **Note:** If you are printing to an iSeries printer, the number you choose here is the Copies attribute of the output spool files.

Parameter	Description
Tray	If you are printing to: - A PC printer: For a list of all available printers and their trays, go to **https://1.1.1.1:9715/iforms/list/printers**, where *1.1.1.1*is your iForms Server's IP address. - An iSeries printer: Choose one of the trays you created when you set up printing on the iSeries. The tray you choose here is the Source Drawer attribute of the output spool files.
Pages	If you are printing to a PC printer, the page or pages to print. Leave blank to print all pages. For example: 1, 3-7, 9, 15-17
Orientation	The page orientation: *PORTRAIT* *LANDSCAPE* *REVERSELANDSCAPE* - Landscape orientation rotated 180°. *REVERSEPORTRAIT* - Portrait orientation rotated 180°.
Duplex	Whether to print single-sided or double-sided: *ONESIDED* *TWOSIDEDLONGEDGE* - For pages in portrait orientation. *TWOSIDEDSHORTEDGE* - For pages in landscape orientation.
Collate	If you are printing to a PC printer, whether to collate: *NO* *YES* **Note:** iSeries printers automatically collate.

4. (Optional) Press **F10** to set the following additional parameters:

Parameter(s)	Description
Runtime Name & Values	The **Parm Name** and **Parm Value** of any additional parameters. Contact HelpSystems Document Management to discuss available options and to get the Name/Value syntax. **Note:** You can enter up to 25 run-time parameters.
Change Spool File user	If the Output Location is *SPOOL*, whether to move the output spool file to a New Output Queue & Library so that the user who initiated the packet assembly has access to it: **Note:** Because this additional step makes packet assembly take longer, only use this option if users otherwise do not have access to the output spool files. • *YES* • *NO*
New Output Queue & Library	If you chose *YES* in Change Spool File user, the output queue and library to move the output spool files to, so that users have access to them.

5. Press:
   - **Enter** to run the command now.
   - **F14** to view a command string that you can copy into programs.

Appendices

The following appendices provide supplemental information:

Appendix A: Reference of Variables

Below is a list of all the variables you can use in Setting Up the iForms Parameters for Spool Files.

To insert this attribute of the input spool file...	Use this variable...
The spool-file name.	**@SPOOL**
The job name.	**@JOBNAME**
The user ID.	**@USERID**
The job number.	**@JOBNBR**
The spool-file number.	**@SPLNBR**
The user data.	**@USERDATA**
The number of copies.	**@NBRCOPIES**
The form type.	**@FORMTYPE**
The date in the format *yy-mm-dd*.	**@DATE**
Current time in the format *hh:mm:ss*.	**@TIME**

Appendix B: Reference of User-Defined Data Parameters

You can set the following iForms parameters in the user-defined data of the input spool files you are merging from a monitor. iForms looks in the user-defined data of each spool file it merges and, if it finds a parameter defined there, uses that value instead of any value defined elsewhere.

Note:

- You can enter hard-coded values or variables.
- Separate multiple entries with a tilde (**~**). For example:

```
TEMPLATE:INVOICE~EXTRTEMPLT:INVOICE~
```

To set the following iForms parameters for a spool file...	Use the following sample syntax in the user-defined data...
The iForms Designer template.	TEMPLATE:INVOICE~ **Note:** Do not include the file extension.
The iForms Text Designer template.	EXTRTEMPLT:INVOICE~ **Note:** Do not include the file extension.
The environment.	ENVIRON:ACMETEST~
If you are printing, the printer driver.	• PC printer: DRIVER:HP LaserJet 4000 Series PCL6~ • iSeries printer: DRIVER:PXLMONO~ or DRIVER:PXLCOLOR~
If you are printing, the number of copies to print.	COPY:3~
The PC or IFS directory to send the merged forms to.	• PC directory: LOCATION:C:\RJSDocs~ • IFS directory: LOCATION:/RJSDocs~
The file name for the merged form.	ATTACHNAME:INVOICE1234~
The file extension for the merged form.	EXT:PDF~
The value of a run-time parameter. **Note:** The number corresponds to the row you entered for this parameter in Setting Up the iForms Parameters for Spool Files.	• If the parameter name is in the first row of Run Time Parameters in Setting Up the iForms Parameters for Spool Files: RUNTIME1:*YES~ • If the parameter name is in the 25th row of Run Time Parameters in Setting Up the iForms Parameters for Spool Files: RUNTIME25:ALL~
The value of a template parameter. **Note:** The number corresponds to the row you entered for this parameter in Setting Up the iForms Parameters for Spool Files.	• If the parameter name is in the first row of Template Parameters in Setting Up the iForms Parameters for Spool Files: NAMEVAL1:*YES~ • If the parameter name is in the 10th row of Template Parameters in Setting Up the iForms Parameters for Spool Files: NAMEVAL10:ALL~

Appendix C: iSeries Printer Drivers

If you are printing merged forms to an iSeries printer, you need to choose the driver for Ghostscript to convert the merged form to PCL.

Try these two drivers first:

- **pxlmono** – HP black-and-white PCL XL printers (LaserJet 5 and 6 family)
- **pxlcolor** – HP color PCL XL printers

If those drivers do not work, try the following other common drivers:

- **lj5gray** – HP LaserJet 5 & 6 family, gray-scale bitmap
- **ljet4** – HP LaserJet 4 (defaults to 600 dpi)
- **lj4dith** – HP LaserJet 4 with Floyd-Steinberg dithering
- **ljetplus** – HP LaserJet Plus
- **lj5mono** – HP LaserJet 5 & 6 family (PCL XL), bitmap

If none of those drivers work, the following is a list of all other drivers that Ghostscript supports:

- **ap3250** – Epson AP3250 printer
- **appledmp** – Apple Dot Matrix Printer (should also work with Imagewriter)
- **bj10e** – Canon BubbleJet BJ10e
- **bj200** – Canon BubbleJet BJ200
- **bjc600** – Canon Color BubbleJet BJC-600, BJC-4000 and BJC-70; also good for Apple printers like the StyleWriter 2x00
- **bjc800** – Canon Color BubbleJet BJC-800
- **ccr** – CalComp Raster format
- **cdeskjet** – HP DeskJet 500C with 1 bit/pixel color
- **cdjcolor** – HP DeskJet 500C with 24 bit/pixel color and high-quality color (Floyd-Steinberg) dithering; also good for DeskJet 540C and Citizen Projet IIc (-r200x300)
- **cdjmono** – HP DeskJet 500C printing black only; also good for DeskJet 510, 520, and 540C (black only)
- **cdj500** – HP DeskJet 500C (same as cdjcolor)
- **cdj550** – HP DeskJet 550C/560C
- **cp50** – Mitsubishi CP50 color printer
- **declj250** – Alternate DEC LJ250 driver
- **deskjet** – HP DeskJet and DeskJet Plus
- **djet500** – HP DeskJet 500
- **djet500c** – HP DeskJet 500C alternate driver (does not work on 550C or 560C)

- **dnj650c** – HP DesignJet 650C
- **epson** – Epson-compatible dot matrix printers (9- or 24-pin)
- **eps9mid** – Epson-compatible 9-pin, interleaved lines (intermediate resolution)
- **eps9high** – Epson-compatible 9-pin, interleaved lines (triple resolution)
- **epsonc** – Epson LQ-2550 and Fujitsu 3400/2400/1200 color printers
- **ibmpro** – IBM 9-pin Proprinter
- **imagen** – Imagen ImPress printers
- **iwhi** – Apple Imagewriter in high-resolution mode
- **iwlo** – Apple Imagewriter in low-resolution mode
- **iwlq** – Apple Imagewriter LQ in 320 x 216 DPI mode
- **jetp3852** – IBM Jetprinter ink-jet color printer (Model #3852)
- **laserjet** – HP LaserJet
- **la50** – DEC LA50 printer
- **la70** – DEC LA70 printer
- **la70t** – DEC LA70 printer with low-resolution text enhancement
- **la75** – DEC LA75 printer
- **la75plus** – DEC LA75plus printer
- **lbp8** – Canon LBP-8II laser printer
- **lips3** – Canon LIPS III laser printer in English (CaPSL) mode
- **ln03** – DEC LN03 printer
- **lj250** – DEC LJ250 Companion color printer
- **ljet2p** – HP LaserJet IId/IIp/III* with TIFF compression
- **ljet3** – HP LaserJet III* with Delta Row compression
- **ljet3d** – HP LaserJet IIID with duplex capability
- **lp2563** – HP 2563B line printer
- **lp8000** – Epson LP-8000 laser printer
- **lq850** – Epson LQ850 printer at 360 x 360 DPI resolution; also good for Canon BJ300 with LQ850 emulation
- **m8510** – C.Itoh M8510 printer
- **necp6** – NEC P6/P6+/P60 printers at 360 x 360 DPI resolution
- **nwp533** – Sony Microsystems NWP533 laser printer (Sony only)
- **oce9050** – OCE 9050 printer
- **oki182** – Okidata MicroLine 182
- **okiibm** – Okidata MicroLine IBM-compatible printers
- **paintjet** – Alternate HP PaintJet color printer
- **pj** – HP PaintJet XL driver
- **pjetxl** – Alternate HP PaintJet XL driver
- **pjxl** – HP PaintJet XL color printer

- **pjxl300** – HP PaintJet XL300 color printer; also good for PaintJet 1200C
- **r4081** – Ricoh 4081 laser printer
- **sj48** – StarJet 48 inkjet printer
- **sparc** – SPARCprinter
- **st800** – Epson Stylus 800 printer
- **stcolor** – Epson Stylus Color
- **t4693d2** – Tektronix 4693d color printer, 2 bits per R/G/B component
- **t4693d4** – Tektronix 4693d color printer, 4 bits per R/G/B component
- **t4693d8** – Tektronix 4693d color printer, 8 bits per R/G/B component
- **tek4696** – Tektronix 4695/4696 inkjet plotter
- **uniprint** – Unified printer driver. Configurable Color ESC/P-, ESC/P2-, HP-RTL/PCL mono/color driver
- **xes** – Xerox XES printers (2700, 3700, 4045, etc.)

Appendix D: Paper Sizes

If you are assembling document packets, you can choose the following standard paper sizes:

- **LETTER** - 8.5 × 11 in
- **NOTE** - 8.5 × 11 in
- **LEGAL** - 8.5 × 14 in
- **TABLOID** - 11 × 17 in
- **EXECUTIVE** - 7.25 × 10.5 in
- **POSTCARD** - 100 × 147 mm
- **HALFLETTER** - 5.5 × 8.5 in
- **_11X17** - 11 × 17 in
- **LEDGER** - 17 × 11 in
- **LETTER_LANDSCAPE** - 11 × 8.5 in
- **LEGAL_LANDSCAPE** - 14 × 8.5 in
- **A4_LANDSCAPE** - 297 × 201 mm
- **A0** - 841 × 1189 mm
- **A1** - 594 × 841 mm
- **A2** - 420 × 594 mm
- **A3** - 291 × 420 mm
- **A4** - 201 × 297 mm
- **A5** - 148 × 210 mm
- **A6** - 105 × 148 mm
- **A7** - 74 × 105 mm
- **A8** - 52 × 74 mm
- **A9** - 37 × 52 mm
- **A10** - 26 × 37 mm

- **B0** - 1000 × 1414 mm
- **B1** - 707 × 1000 mm
- **B2** - 500 × 707 mm
- **B3** - 353 × 500 mm
- **B4** - 250 × 353 mm
- **B5** - 176 × 250 mm
- **B6** - 125 × 176 mm
- **B7** - 88 × 125 mm
- **B8** - 62 × 88 mm
- **B9** - 44 × 62 mm
- **B10** - 31 × 44 mm

- **ARCH_E** - 36 × 48 in
- **ARCH_D** - 24 × 36 in
- **ARCH_C** - 18 × 24 in
- **ARCH_B** - 12 × 18 in
- **ARCH_A** - 9 × 12 in
- **FLSA** - 8.5 × 13 in
- **FLSE** - 8.5 × 13 in
- **ID_1** - 85.60 × 53.98 mm
- **ID_2** - 105 × 74 mm
- **ID_3** - 125 × 88 mm

- **CROWN_QUARTO** - 189 × 246 mm
- **LARGE_CROWN_QUARTO** - 201 × 258 mm
- **DEMY_QUARTO** - 219 × 276 mm
- **ROYAL_QUARTO** - 237 × 312 mm
- **CROWN_OCTAVO** - 123 × 186 mm
- **LARGE_CROWN_OCTAVO** - 129 × 198 mm
- **DEMY_OCTAVO** - 138 × 216 mm
- **ROYAL_OCTAVO** - 156 × 234 mm
- **SMALL_PAPERBACK** - 111 × 178 mm

Index