

Barcode Labels, RFID Tags, and Electronic Forms Software for IBM System i Intermediate Concepts – Spooled File Field Selection

192.168.4.112 - Mocha W32 TN5250 File Edit View Settings Help						
	1 1 1					
Open Close Copy Paste Print About Dup Clear Erase	Attn Sysreq Help	Contraction of the second	7		(221251	
File: QSYSPRT Nu	mber: 000			PADEV0013/KWH		7
1			<b>+</b> 4		•6+	/ • • • •
2 Windows fo	r Less				21	250
3 167 Orchar	167 Orchard Street					
4 New York						
5 NY 11001	-0099				3/26/20	010
6						
	4 Consoled File V	-				
9 2/14/2007 1234	👙 Spooled File V	lewer				
<b>10</b> 3/10/2007 2534	Field Name			Length 25	Spool Line 2	Page Number 3 Total Pages 5
10 3/10/2007 2534 11 3/12/2007 2534	Field Name	JUSTNAME		Lengun 25	Spoor Line 2	
12 3/22/2007 2537					-	
<b>13</b> 3/28/2007 2539	= Desc: Cus	tomer Nami	9		Spool Column 11	
<b>1</b> 4 <b>5/01/2007 2539</b>						
<b>15</b> 5/15/2007 2900	Wind	lows for L	ess		21250	
<b>16</b> 5/20/2007 2901		Orchard S	treet			
17 6/30/2007 2955 18 7/01/2007 2965	0.000000000	York	1212			
	NY	11001-00	199		3/26/2010	
F3=Exit F5=Refre						
F12=Cancel $F17=Top$						
	2/14/2007	12345	Invoice	823.15	823.15	
	3/10/2007 3/12/2007	25345 25347	Invoice	1,080.00 25.10-	1,903.15	
	3/22/2007	25347	Adjustment Invoice	2,125.47	1,878.05 4,003.52	
	3/28/2007	25397	Invoice	490.98	4,494.50	
	5/01/2007	25399	Invoice	500.15	4,994.65	
	5/15/2007	29000	Invoice	20.00	5,014.65	
	5/20/2007	29011	Adjustment	5.10-	5,009.55	
	6/30/2007	29555	Invoice	3,000.17	8,009.72	
	7/01/2007	29655	Invoice	680.88	8,690.60	
	Spooled File	SYSPRT	Number	1 User KWH		Map All
	Job Name QP	ADEV0013	Job Numbe	er 331351		Change Spooled File
	© Copyright; CYBF	A Corporatio	n; 2009; All Rights Re:	served		
						OK Cancel Help

Deleting a Field	6
Adding New Fields	8
#1 – Variable Text Fields: Non-linked	11
#2 - Variable Text Fields: *LINK Barcode Field	26
#3 – Variable Text Field: *LINK Field	
Printing With Live Spooled File Data	41

# Welcome

Welcome to Part 2B of the MarkMagic and JMagic combined tutorials. This tutorial will introduce variable text and barcode fields that use information retrieved from a spooled file. As with the first tutorial, the steps are again split up and in different colors so you can focus only on the MarkMagic or JMagic steps separately.

#### Before we begin we are assuming:

- 1. You have completed the "Basic Concepts" tutorial and understand what was introduced. (You will be making use of the format that you created and also utilize many commands and methods that were introduced.)
- 2. You have a Hewlett Packard PCL compatible Laser Printer available at your location that is configured for printing on the System i server. (If not, you can use our PDF option to produce your output.)

#### In this tutorial, you will learn:

- 1. How to copy a format and why you would want to copy a format.
- 2. How to delete a field.
- 3. How to add a text field that is mapped to spooled file data.
- 4. How to copy the text field to easily map more lines in a spooled file.
- 5. How to add data fields that are mapped to spooled file data.
- 6. What a \*LINK field is.
- 7. How to add text and barcodes that are linked to the data fields.
- 8. How to print with data from your spooled file.

# Copying a Format

In this tutorial, you *could* make changes to your existing **HPPCL5/LEARNXXX** format, but you do not want to lose your original work. (It will be used again in future tutorials.) Therefore, it's best to make a copy of your original format and use the new copy during this tutorial.

#### **MarkMagic**

Start MarkMagic and make sure you are at the main menu. Press "F" for Format and then "C" for Copy. The Copy a format dialogue box will appear. You need to specify the source format device and name in the first two fields. *From device* will be **HPPCL5** and *From format* will be **LEARNXXX**. (Replacing XXX with your initials.) Now you must specify the new format device and name. Since this will still be an HPPCL5 format, *To device* will be HPPCL5. Now, specify a new name for the copied format. It cannot be the same name as your original. For this tutorial, you will add a "2" at the end. Type **LEARNXXX3** for *To format*. Leave *To User Library* as **\*USRLIB** (keep the copy within the same user library) and press ENTER.

Version .	: 7.2 MarkMagic Mod lvl : 100317
E	
Format	Print Utilities
<u>C</u>	
New	User library : <u>MRKMAGDTA</u>
Open	
Сору	
Rename	
Edit	Copy a format
Delete	
Generate.	From Device <u>HPPCL5</u> Name, F4 for list
eXit	From Format <u>LEARNXXX</u> Name, F4 for list
	To Device <u>HPPCL5</u> Name, F4 for list
F12=Cance	To Format <u>LEARNXXX3</u> Name
	To User Library <u>*USRLIB</u> Name, F4 for list
	F3=Exit F4=Prompt F5=Refresh F12=Cancel
Enterprise	
Edition	
F3=Exit F4	4=Prompt F9=Cmd line F10=List View
	(c) Copyright CYBRA Corp. 1991, 2010

You should eventually see a message stating that the copy completed successfully.



When you start making changes, open your new LEARNXXX3 format instead of your original LEARNXXX format.

#### **JMagic**

Start JMagic and open the format that we made in the first tutorial by going to *Format* and then *Open*. Or you can simply click the *Open Format* button.



On the *Choose a Format* window, click **HPPCL5** and then choose your existing **LEARNXXX** format to open

it. We will use the new "Save As" feature in JMagic to save your original format with a new name. This will result in a new version of the format that we can modify in this tutorial leaving the original intact. With your original format open, click *Format* and then *Save As*. Type **LEARNXXX3** as the new name and click Ok.

JMagic	
Format Edit View Fields Utilities	PrintTransformer Help
D New ← Open ← Reopen	
🛱 Close 🖪 Save	
🖪 Save As 💦 🕴	
© Copy I Rename I Edit Î Delete	<sup>ok</sup> , MarkMagic Tutorial
Change User Library	MarkMagic Save Complete
Preview     Print	ОК

You will get a message stating the save was complete. You will also notice that the format name has changed in the information bar at the bottom of the format. Any changes you make from here will be made on your new LEARNXXX3 format.

8				1	-
•				4	•
MRKMAGDTA	192.168.4.112	HPPCL5	LEARNXXX3	Description of your fi x, y: 1.35, 10.02	1.

# **Deleting a Field**

You will be using the space between the two lines on your format to add new variable text and barcode fields. There is a large barcode in the way though, so you are going to delete it to make way for your new fields.

### MarkMagic

Start MarkMagic and open your newly copied **HPPCL5/LEARNXXX3** format. Press the *PageUp* and/or *PageDown* keys to scroll the format up and down. Locate the barcode on your format. (Remember, to view left or right, you can Press **F19** or **F20**.)

De	evice:	HPPCL5	Design	a Format		Format:	LEARNXXX2
Form		fielDs	 Option	-	Print		ities
FULL							
	2.00	2.50	3.00	3.50	4.00	4.50	5.00
	69 F 8 F 8	<u>+!+</u>	e	<u>l+.</u>	20 E 2 E 2 E 40 E	<u></u>	en en et terre
6.80							
6.70							
6.60							
6.50			Tutorial	Barcode			
6.40					<u>&gt;</u>		
6.30							
6.20							
6.10							
6.00							
5.90							
5.80							
5.70							
5.60							
5.50							
5.40							
5.40							
F2=Edi	+	F3=Exit	F4=Re	vert	F5=Undo	E6=0	reate
							and the second
F7=Cop	by	F8=Delete	F11=M	love	F12=Cancel	F24=	More keys

Place your cursor anywhere inside of the box that represents the barcode and press F8. You will be told that the field is about to be deleted. Press ENTER to conform and delete the field.

Confirm Delete of Bar Code Field
Device : HPPCL5
Format : LEARNXXX2 Length: 11.00" Width: 8.50" Rotation: 0
Field # : 001
Field name *HEADING
Description : Tutorial Barcode
Length
Decimals :
Variable length Y
Row / Column : 5.00 3.00
Bar code type : 22 Code 128 (auto-switch)
Height 1.50
Narrow bar (module) width . : 3
Wide to narrow bar ratio . : .0
More
This record is about to be deleted.
Press Enter to confirm, or F12 to cancel.

#### *JMagic*

Using your mouse, click on the barcode field to select it. You should see the red selection handles in the corners of the barcode field. To delete the field, simply press the Delete key on your keyboard. You will be asked to confirm the deletion. Click **Yes** to accept. The barcode field is removed from the canvas.



*NOTE:* When editing in MarkMagic (green screen), changes are saved immediately when deleting/editing fields, but in JMagic they are not. You must click the Save icon at the top for the changes to be saved back to your System i.



Adding New Fields

You will be designing the format seen on the following page. All of the fields that you see in between the horizontal lines contain variable data retrieved from a spooled file. You will be using a spooled file that contains five pages of a sample statement. Once again, the steps are numbered so you can skip ahead to the explanations if you wish.

*NOTE*: Once in the MarkMagic design screen, you may not be able to view your entire format on the screen. You can scroll the format up and down with the PageUp and PageDown keys. You can scroll the format left and right using F19 (Shift+F7) and F20 (Shift+F8).

*NOTE*: When adding fields, MarkMagic provides coordinate, length and height values, etc. based off where you had your cursor on the screen at the time. You

will override these values in most of the steps in this tutorial to ensure that lines, text fields, etc are placed exactly where you want.

JMagic takes it once step further and provides a "WYSIWYG" (What you see is what you get.) view. This lets you see what the format will look like before you print it.

*IMPORTANT*: The example spooled file is not shipped with MarkMagic, you must create it. Doing so is very simple. At the MarkMagic main menu, press F9 for a command line. Type: **CALL STATEMENTS** and press ENTER. You will not receive any confirmation. A two page spooled file will be placed in an output queue called **MMEXQ** located in library **MMEXAMPLES**. The name of the spooled file will be **QSYSPRT** with user data **STATEMENTS**. Also note that, depending on which version of MarkMagic you are running, the spool file contents (customer names, number of detail lines and pages) might be different that what you see here in the screenshots.

# My MarkMagic Tutorial

MarkMagic tutorial line one.

MarkMagic tutorial line two.



# #1 – Variable Text Fields: Non-linked

There are two basic ways to print variable information retrieved from a spooled file. This section describes how to pass data directly to a MarkMagic text field. In the following sections, we will go over how to use a MarkMagic Data field combined with a \*LINK field to print the information.

#### **MarkMagic**

Place your cursor on the green design screen in the general area where the first letter of *Windows For Less* would be. Press **F6** and add a text field. Previously, you left the *Field Name* \*HEADING, but now you must prompt (**F4**) this field. You will be shown the *List Field Options* window.

List Fields Options					
Field type <u>3</u>	1=Database fields 2=Format fields 3=Spooled File				
Database file <u> </u> Library <u>*USRLIB</u>	Name, F4 for list Name, *USRLIB, *LIBL, F4 for list				
F3=Exit F4=Prompt F	5=Refresh F12=Cancel				

This is the window you use to tell MarkMagic the type and location of the file you want to retrieve information from. Type **3** for *Spooled File*. Press ENTER to accept. The *Display Spooled Files* screen in shown. Press ENTER to see your spooled files.

Display Spooled Files	
Type choices, press Enter.	
F3=Exit F5=Refresh F12=Cancel	

You will be shown a list of spooled files created under your user name. Find QSYSPRT with STATEMENTS and the "user data". Place a **1** next to it, meaning you want to use that file. Press ENTER and the spooled files specific information is displayed.

Sele	ct a Spoole	d File				
Select a Spooled File Type option, press Enter. 1=Select 3=Copy to PC file 5=Display 8=Attributes						
Opt File	User	Device	Usr-data	Pages		
= QSYSPRT	КШН	MMEXQ	STATEMEN	T 5		
F3=Exit F	5=Refresh	F11=View	F12=Canc	Bottom		

Select a Spooled File Type choices, press Enter.		
Spooled file Job name	<u>QPADEV0013</u> <u>KWH</u> <u>331351</u>	Name Name, * Name 000000-999999 1-999999, *ONLY, *LAST
F3=Exit F5=Refresh F12=0	Cancel	

Write this information down or save it on your PC as a text file. You will need this information later when you print. After saving this information, press ENTER. You will be brought to the MarkMagic spooled file viewer. As noted earlier, the data you may see on the first "page" of the sample spool file might be different than shown in the screenshots. All steps can still be followed exactly as described in the tutorial, though.

F	ile: QSYSPRT	Number:	00000	Job: QPADEV	0011/KWH/	/332934	1
	*+1.	+ 2 +	····· <b>3</b> ····+·		5 + .	6	. + 7
1	N	o Pane No Gair					10050
3	3	4-22-36 Jackla	Lane				
4	L	os Angeles					
5	C	A 54532-1540	)			2	4/14/2010
6							
7							
8							
9	2/14/200	7 12345	Invoice		823.15		823.15
10	3/10/200	7 25345	Invoice	1	,080.00		L,903.15
11							
12							
13							
14							
15							
16							
17							
18							
19					Section 1 and sectors		
		F5=Refresh			page F		More
	F12=Cancel	F17=Top			t F		
	Select field	by moving the	cursor to	begining of	data & p	press En	ter.

This is where you will select the field to map. The company name is designed to always appear starting at Row 2 / Column 11. The name never extends past Column 35 on any spool file page. Place your cursor on the W and press ENTER. Move your cursor over to Column 35 and press ENTER again. You will see your mapped field highlighted.

F	ile: QSYSPRT	Number	: 00000	Job: QPADEV0011/KW	1/332934 1
	*+1.	+ 2	+3+.		+6+7
1	_		<b></b>		
2	N	o Pane No Gai	n		10050
3	3	4-22-36 Jackl	a Lane		
4	L	os Angeles			
5	C	A 54532-154	Ð		4/14/2010
6					
7					
8					
9	2/14/200	7 12345	Invoice	823.15	823.15
10	3/10/200	7 25345	Invoice	1,080.00	1,903.15
11					
12					
13					
14					
15					
16					
17					
18					
19				s - Theorem - Comment	
	F3=Exit	F5=Refresh	F6=New splf		F8=Prev More
	F12=Cancel	F17=Top	F18=Bottom	F19=Left	F20=Right
	Data was suc	cessfully sel	ected, press	Enter to continue	or F5 to refresh.

The idea with this "mapping" method is any data that appears in that area of your spooled file, on any page, will be retrieved by MarkMagic. Press ENTER and you will be brought back to the *Work With Text Field* screen. MarkMagic automatically gives the field a unique name. You can change this name to anything you want, though. Set the field name to **CUSTNAME** and description to **Customer Name**. The important part is that there are positive values entered for *Spool line/column* if you Page down twice.

	Work with Text Fi	eld	
Device : HPPCL5 Format : LEARNXXX3	Length: 11.00"	Width: 8.50"	Rotation: O
Field # : 015 Name : @SPLTXT015	Description: Winc	lows for Less	
Type choices, press Enter.			
Prompt	· · <u>*LIBL</u>	Y/y=Yes, K/k=Key, Name, F4 for list Name, *LIBL, *USF Name, *NONE Name, *LIBL, *USF	LIB
Spool Line / Column	$\cdot \cdot \underline{2}  \underline{11}$	1 - 255 / 1 - 378	
F3=Exit F4=Prompt F5=R	efresh F12=Canc	el	Bottom

Page back up and change the *Row / Column* to **7.00** and **1.00** respectively. Also change *Points* to **20**. Press ENTER twice to create your first spooled file text field. Next, you will create the group of detail lines that appear below the company name on the sample format above.

De	vice:	HPPCL5	Design a	Format	Format:	LEARNXXX3
Form	at	fielDs	Options	Print	Util	ities
7.50 7.40 7.30	+		.00 1.50	2.00 .+ +	2.50 3.0 !+	
7.20 7.10 7.00 6.90 6.80 6.70 6.60 6.50 6.40 6.30 6.20 6.10		I	=CUSTNAME	-		
F2=Edi F7=Cop		F3=Exit F8=Delet	F4=Reve e F11=Mov			reate More keys

Place your cursor in the general location of the beginning of the first detail line and add a new text field. Prompt the name and make sure **3** (spooled file) is still selected. Press ENTER and you will notice that MarkMagic takes you right to the spooled file viewer. (Remembers the spool file that you used before.)

Place your cursor on the first character of the first detail line and press ENTER. Move all the way to the last character on the line and press ENTER again.

Fi	le: QSYSPRT	Number	: 00000 J	ob: QPADEV000F/KWH	1/348504 1
	*+1	+ 2	+3+	4 + 5 +	+6+7
1					
2	ι	Vindows for Le	55		21250
з	1	167 Orchard St	reet		
4	1	New York			
5	1	NY 11001-009	9		9/08/2005
6					
7					
8					<b></b>
9	2/14/199	99 12345	Invoice	823.15	823.15
10	3/10/199	99 25345	Invoice	1,080.00	1,903.15
11	3/12/199	99 25347	Adjustment	25.10-	- 1,878.05
12	3/22/199	99 25377	Invoice	2,125.47	4,003.52
13	3/28/199	99 25397	Invoice	490.98	4,494.50
14					
15					
16					
17					
18					
19					
F	F3=Exit	F5=Refresh	F6=New splf	F7=Next page	F8=Prev More
F	F12=Cancel	F17=Top	F18=Bottom	F19=Left	F20=Right
	Data was suc	cessfully sel	ected, press	Enter to continue	or F5 to refresh.
_					

Press ENTER again and you will be brought back to the *Work With Text Field* screen. Change the "@SPLTXT" name to **DETAIL** and also change the *Description* to **Detail Line**. Change *Row/Column* to **6.50** and **1.00**. Change the *Font* to **Courier (27)**. Press ENTER twice to create your new detail line.

Since there are never more than 10 details lines in the example spool file, you will want to make 9 more of these detail lines, each mapping the next line down in the spooled file. Sure, you could create a whole new text field from scratch for each new detail line and just place them at different row positions. That would take too much time. You can avoid all of this by using the *Copy* function. MarkMagic can copy one field multiple times offsetting each field a specific amount. Each new field will inherit the settings of the original field (font, point size, style, etc.) Place your cursor in the white area of the first detail line you just made. Press **F7** and the *Copy a Field* window will appear.



You want to make **9** copies of the line (for a combined total of 10 detail lines). *Vertical offset* will be set to **20-.** This value represents hundredths of an inch and is negative so this means "down .2 inches". You do not want to offset the field horizontally, so set that to **0**. The **1** for *Spool line offset* means MarkMagic will map one *row* lower in the spooled file for each new copied field. You do not want a Spool column offset so set that to **0**. (The start position of the data in the spooled file does not move horizontally from row to row.) Press ENTER and your 9 copies will be made. All 10 detail lines in the spooled file are now mapped.

De	vice: HP	PCL5	De	∋ign a Forma	t	Format:	LEARNXXX3
Form	at	fielDs	 0p	tions	Print	Util	ities
			. 00				
	<u></u> *	<b>+</b>	<b>*</b>	a bara tara	nn+nnli		<u>+l</u>
6.10							
6.00							
5.90			=DETAIL0:	3			
5.80							
5.70			=DETAIL0	4			
5.60							
5.50			=DETAIL0	5			
5.40							
5.30			=DETAIL0	6			
5.20							
5.10			=DETAIL0	7			
5.00							
4.90			=DETAIL0	В			
4.80							
4.70			=DETAIL0	9			
			·				
F2=Edi	t	F3=Exit	F	4=Revert	F5=Undo	F6=C	reate
F7=Cop	y	F8=Delet	e F	11=Move	F12=Cancel	F24=	More keys

Tutorial 2B: Intermediate Concepts – Spooled File Field Selection Pg. 17

### **JMagic**

Click the *Create a Text Field* button at the top and then click on your form in the general location where the "W" in *Windows For Less* would be. You will be presented with the familiar *Create a New Text Field* window. Previously, you created constant text fields by leaving the *Field Name* as **\*HEADING**. Now you must press the *Browse* button.

😓 Create A New Text Field		
Device	Format	
Name HPPCL5	Name LEARNXXXX	Length 11.0" Width 8.5"
Description .5 & Compatible	Description Description of your format	Rotation A o
Properties Font Display		
Name and Description		
Field Name *HEADING -	Browse Field # 5	
Description		
Positioning Properties       Row     6.94"     Column     1       Attributes	43"	
Decimals Variable Length   Yes   No		
Font 20 Times  Point 12		
Copyright; CYBRA Corporation; 2009; All Rig	ghts Reserved	OK Cancel Help

The *Select a Field* window will be shown. This is the window you use to tell JMagic the type and location of the file you want to retrieve information from. Click on the *Spooled File* tab and then click on *Browse*.

👙 Select a Field	ile X
Spooled File Browse	User *CURRENT Number Job Number
Copyright; CYBRA Corporation	OK Cancel Help

You will be shown a list of spooled files under your user name. Find QSYSPRT with STATEMENT in the "user data". Click on it and then click OK.

👙 Select A Sp	ooled File						x
Name	Number	Job User	Job Name	Job Number	Date	User Data	
QSYSPRT	1	KWH	QPADEV0011	332092	20100406	STATEMENT	-
					_		
•							1

You will be brought back to the *Select a Field* screen. The spooled file information is now entered into the fields for you. Write this information down or save it on your PC as a text file. You will need this information later when you print. After saving this information, click OK. You will be brought to the JMagic spooled file viewer.

ield Name	ength	Spool Line	Page Number 1 Total Pages
Desc:		Spool Column	
No Pane No Gain 34-22-36 Jackla Lane Los Angeles		10050	
CA 54532-1540		4/06/2010	
2/14/2007 12345 Invoice	823.15	823.15	
3/10/2007 25345 Invoice	1,080.00	1,903.15	
11			
pooled File QSYSPRT Number 1	User KWH		Map All
ob Name QPADEV0011 Job Number	332092		Change Spooled File
Copyright; CYBRA Corporation; 2009; All Rights Rese	rved		OK Cancel Help

This is where you will select the area of the spool file line to map over. The company name will always start at the same spot. The name never extends more than 25 characters. Click and hold your mouse on the W and drag to the right, highlighting the entire name and a few extra spaces.

👙 Spooled File Viewer				×
Field Name @SPLTXTO	005	Length 27	Spool Line 2	Page Number 1 Total Pages 5
= Desc: No Pane No G	ain		Spool Column 11	
No Pane No 34-22-36 Ja	ickla Lane		10050	=
Los Angeles CA 54532-			4/06/2010	
2/14/2007 12345 3/10/2007 25345	Invoice	823.15 1,080.00	823.15 1,903.15	
<u> </u>				<b>  •</b>
Spooled File QSYSPRT	Number	1 User KWH		Map All
Job Name QPADEV001	1 Job Numbe	er 332092		Change Spooled File
Copyright; CYBRA Corpora	tion; 2009; All Rights Re	served		OK Cancel Help

Any data that appears in that area of your spooled file, on any page, will be processed by MarkMagic. Click OK and you will be brought back to the *Create a New Text Field* screen.

JMagic automatically generates a unique field name. You can change the name to anything you want, though Set the *Field name* to **CUSTNAME** and *Description* to **Customer Name**. The important part is that there are positive values entered for *Spool line/column* check on the *Display* tab.

Create A New Text Field						
Device	Format					-
Name HPPCL5	Name	LEARNXXXX3	Length	11.0"	Width	8.5"
Description .5 & Compatible	Description	n Description of your format	Rotation	n 🖪 or		
Properties Font Display						
Increment Type  Ascending  De Increment Value  Spooled Data Position  Spool Line  2  Spool Column	sending 0 \$	Sequence Reference				
Field Prompting          Key File	Browse Library *LIBL	Library *LIBL	Prompt Y Ye	s 🔻		
Fields Linking to this Field	0 Field(s)					
© Copyright; CYBRA Corporation; 2009; All Righ	nts Reserved			ок	Cancel	Help

Go back to the *Properties* tab and change the *Row* to **7.0** and the *Column* to **1.0** to position the name in the proper location on the canvas. Change the *Points* to **20.** Click OK to create your new spooled file text field. Next, you will create the group of detail lines that appear below the company name on the sample format above.

Add a new text field just below the company name you just made. Click *Browse* and make sure you are still on the *Spooled File* tab. JMagic remembers the file details, so click OK to open the spooled file viewer again. Click on the first character of the first detail line and drag your mouse all the way to the last character and let go. Also notice the orange highlighted area at the top. JMagic will let you know what has already been mapped. Orange means it is a mapped *text* field.

Spooled File V	liewer				
Field Name	@SPLTXT00	06	Length 68	Spool Line 9	Page Number 1 Total Pages 5
= Desc: 2/14	4/2007 123	45 Invoice		Spool Column 4	
34-2	<mark>Pane No Ga</mark> 2-36 Jack Angeles			10050	
CA	54532-15	40		4/06/2010	
		_			
2/14/2007 3/10/2007	12345 25345	Invoice Invoice	823.15 1,080.00	823.15 1,903.15	
					1)
pooled File C	ISYSPRT	Number	1 User KWH		Map All
ob Name QP.	ADEV0011	Job Numbe	r 332092		Change Spooled File
		h; 2009; All Rights Res			

Click OK and you will be brought back to the *Create a Text Field* window. Change the "@SPLTXT" name to **DETAIL** and also change the *Description* to **Detail Line**. Next, change the *Row* to **6.5** and the Column to **1.0**. Also, in the pull-down menu for *Font* choose **27 Courier**. Click OK to add your first detail line.

🖢 Edit A Text Field							• ×
Device Name Description	HPPCL5	Format Name Description	LEARNXXXX3	Lengti at Rotatio		Width	8.5"
Properties Font Name and Description Field Name DETA Description Detail		Browse	Field # 6				
Positioning Properties Row 6.5" Attributes Length 68 Decimals Variable Length (	]	1.0"	-				
Font 27 Courier Point 12 Usage 00 NONE		-					
© Copyright; CYBRA Co	prporation; 2009; All Rig	hts Reserved			ок	Cancel	Help

Tutorial 2B: Intermediate Concepts – Spooled File Field Selection Pg. 23

JMagic	
Format Edit View Fields Utilities PrintTransformer Help	
My MarkMagic Tutorial	
MarkMagic tutorial line one. MarkMagic tutorial line two.	=
CUSTNAME DETAIL	
Image: Mage:	▼ ▼

Since there are never more than 10 details lines in the example spool file, you will want to make 9 more of these detail lines, each mapping the next line down in the spooled file. Sure, you could create a whole new text field from scratch for each new detail line and manually place them at different row positions. That would take too much time. You can avoid all of this by using the *Copy* function. JMagic can copy one field multiple times offsetting each field a specific amount. Each new field will inherit the settings of the original field (font, point size, style, etc.) Click on the detail line that you just made so it has the red selection boxes surrounding it. Next, right-click on the field and click *Copy*.

	MarkMagic tutorial line two.	
CUSTI	NAME -	
DETAIL	Undo Redo	
	Fields Add Edit Alignment	
	Сору	
	Delete Rotation Style	
	Font  Color	
8	Spool Column Adjustment  Spool Line Adjustment	
	€ Zoom	
	Preferences	

Your cursor will turn into a "+" symbol indicating that JMagic wants you to click on the format where you want the copy to be placed. Click just below the selected detail text field. The *Copy Fields* dialogue box is shown.

	Copies			9	
CYBRA JMA Cybra JMacic	Horizontal Offset			0.0"	
	Vertical Offset			-0.2"	
	Spool File Column Offset		Offset	0	
	Spool Fil	le Line Offs	et 🗌	1	
© Copyright; CYBR	A Corporation	ОК	Cano	:el	Help

Since there is never more than 10 detail lines in the spool file, you should make **9** copies of the line (for a total of 10 lines). You do not want to offset each new field horizontally, so set that to **0**. *Vertical offset* will be set to **-.2**". This value is negative so this means "down .2 inches". You do not want JMagic to change the column value for the spooled file mapping, so set *Spool column offset* to **0**. (The spooled file data always starts on the same column for each row of data.) The **1** for *Spool line offset* means JMagic will map one *row* lower in the

spooled file for each copied field. Press ENTER and your 9 copies will be made. All detail lines in the spooled file are now mapped.

	MarkMagic tutorial line one.	
	the set of the set of the set of the set	
	MarkMagic tutorial line two.	
35		
	CUSTNAME	
	CUSINAME	
	DETAIL	
	DETAIL001	
	DETAIL002	
	DETAIL003	
	DETAIL004	
	DETAIL005	
	DETAIL006	
	DETAIL007	
	DETAIL008	
	DETAIL009	
10		

Click the save icon at the top left to save your work.

# #2 - Variable Text Fields: \*LINK Barcode Field

In many design scenarios, you would want to display the same bit of information more than once on a format and in more than one fashion (i.e.: a barcode with human readable text below it.). Using the method explained in Step #1, you would have to create two fields each with a different field name, but you would have map the same area of your spooled file twice. Obviously, this creates unnecessary extra work.

MarkMagic \*LINK fields extend MarkMagic formatting options by adding the capability to define a variable field *once*, and have that same data appear in multiple fields on a format, each edited and formatted differently if need be. You can link a text field to another text field for example, but the preferred method is to use *Data* fields.

A MarkMagic Data field is a placeholder — a temporary "bucket" to put information for further processing. A

Data field is a *non-printing* field that can have any of these MarkMagic special field names: \*HEADING, \*DATE, or \*TIME, or an OS/400 database fieldname. Just like a Text field or a Bar code field, a MarkMagic Data field can contain constant or variable data.

A \*LINK field can be composed of portions of different fields and can merge information from multiple bar code, data, or text fields. \*LINK fields enable printing of one bar code or text field from multiple sources of data. To see a good example of this, please reference #2 - Variable Text Fields: \*LINK Fields in the "Variable Data Retrieved From a Database" tutorial.

This tutorial will show you how to create a simple linked barcode and text field.

### MarkMagic

You are going to add your Data field first. You can add it just like any other field. Since they are non-printing it doesn't matter where you add them, so place your cursor somewhere on the design area and press **F6** and then **D** for data. You will be presented with the *Work With Data Field* screen.

Work with Data	Field
Device : HPPCL5 Format : LEARNXXX2 Length: 11.00"	Width: 8.50" Rotation: 0
Field # : 007	
Type choices, press Enter.	
Field name <u>*HEADING</u>	Name, *HEADING, *DATE, *TIME, F4 for list of fields
Description	
Length Decimals	1 - 3000 0 - 9
Increment type <u>I</u> Increment value	I=Incr, D=Decr, *=Seq reference 0 - 999
F3=Exit F4=Prompt F5=Refresh F12=Can	More

Since it is non-printing, you'll notice that there are no coordinate values or fonts to choose. You just need to tell MarkMagic that this is going to be a variable data field. Do this just like you did with the variable text field. Prompt the *Field name* and **3** should still be selected. Press ENTER and MarkMagic will take you directly to the spooled file viewer. You are going to map the number in the top right-hand corner. Place your cursor on the first position of the number and press ENTER. Move to the last number and press ENTER again. You will see the complete number highlighted. Notice, also, that MarkMagic displays the fields that are already mapped.

F	ile: QSYSPRT	Number	: 00000	Job: QPADEV0011/KWH	/332934 1
	*+1		++.	4+5+	6 + 7
1					
2		Pane No Gai			10050
3		-22-36 Jackl	a Lane		
4		s Angeles			
5	CA	54532-154	0		4/14/2010
6					
1					
9	2/14/2007	12345	Invoice	823.15	823.15
10	test strategictures to product the strategicture		Invoice	1,080.00	events entertainteren et anno
10	3/10/2007	25345	Invoice	1,000.00	1,903.15
12					
13					
14					
15					
16					
17					
18					
19					
	F3=Exit	F5=Refresh	F6=New splf	F7=Next page	F8=Prev More
	F12=Cancel	F17=Top	F18=Bottom	F19=Left	F20=Right
	Data was succ	essfully sel	ected, press	Enter to continue	or F5 to refresh.

Press ENTER to accept the selection. You will be brought back to the *Work With Data Field* screen. MarkMagic, again, gives the variable spool file field a new name. Change the *Field name* to **CUST#** and changed the *Description* to **Customer Number**. Press ENTER twice to accept your new data field. You should now see a +DATA in the top left hand corner. This flag lets you know that your format contains data fields.

De	vice:	HPPCL5		Ī
		_	_	
Form	at	fielD	)s	(
+Data		0.50	1.00	
	· · · + ·	! +	•••••	. + .
11.00				
10.90				
10.80				
10.70				
10.60				

Place your cursor just below the last detail line you made earlier with the copy command. Add a new **Standard** barcode field. The key here is to make the field name **\*LINK**. Doing this will unlock the *Work with \*LINK Source Fields* screen. You must *Page Down* 3 times to get to it.

_ Work with ×	LINK Source Fie	lds	
Device : HPPCL5 Format : LEARNXXX2 Lengt	th: 11.00" W	lidth: 8.50" R	otation: 0
Link field . : Text 010 Desc	cription :		
Type option, press Enter. 2=Change 4=Delete 5=Di	splay		
Opt Order Type Fld Name	Description		Start Length
F3=Exit F5=Refresh F6=Add	F10=View 2	F12=Cancel	Bottom
There are no links for this field.	Press F6 to a	dd a source field	l

Press F6 to add a source field. You will be presented with a list of fields that have already been added to your format. The data field you just made should be listed at the top. Place your cursor on the Data field and press ENTER. You will be brought to the *Add a Source Field* screen.

Work with *LINK Source Fields				
Device : Format	HPPCL5			
Link field .		Se	lect a Field	
Type option, 2=Change		to type . to field #		
Opt Order T	Data 001 Text 001 Text 002 Text 003 Text 004 Text 005 Text 006 Text 007	*HEADING *HEADING CUSTNAME DETAIL DETAIL01	Description Customer Number My MarkMagic Tutorial MarkMagic tutorial line one. MarkMagic tutorial line two. Made by: Your Name Customer Name Detail Line Detail Line 512-5-2-2-1 521-5-1-2-1	Length 5 v 22 28 28 18 25 v 68 v 68 v 68 v
F3=Exit F	F3=Exit	F4=Prompt	F12=Cancel F21=Select r	ange
There are no				

At this screen, you decide whether you want to link the whole source field or link to just a segment of it,

Tutorial 2B: Intermediate Concepts – Spooled File Field Selection Pg. 30

(substring). You would like to encode the entire number, so set the *Start position* to 1 and *Length* to 5. (These values should already be present; MarkMagic always starts by linking the whole field.) Press ENTER twice to accept your settings. You will see your new source field added to the list.

Add a Source Field	
Device : HPPCL5 Format : LEARNXXX3 Length: 11.00" Width: 8.50"	Rotation: 0
Link field . : BarCd 001 Description :	
Link to: Field type / number : Data 001 Field name : CUST# Description : Customer Number Length : 5	
Type choices, press Enter.	
Start position	
F3=Exit F4=Prompt F5=Refresh F12=Cancel	
Work with *LINK Source Fields Device : HPPCL5 Format : LEARNXXX3 Length: 11.00" Width: 8.50"	Rotation: 0
Link field . : BarCd 001 Description : Customer Number	
Type option, press Enter. 2=Change 4=Delete 5=Display	
Opt Order Type Fld Name Description <u>10</u> Data 001 CUST# Customer Number	Start Length 1 5
F3=Exit F5=Refresh F6=Add F10=View 2 F12=Cancel	Bottom

Tutorial 2B: Intermediate Concepts – Spooled File Field Selection Pg. 31

Page back up (do not use F12 or you will lose your link) three times to the *Work With Barcode* screen again and set the *Row / Column* to **4.0** and **3.00**. Also, set the *Barcode type* to **22**, *Height* to **.50** and *Narrow bar width* to **3**. Press ENTER twice to create your new barcode.

	ith Bar Code Field
Device : HPPCL5 Format : LEARNXXX3 Length	: 11.00" Width: 8.50" Rotation: 0
Field # : 001	
Type choices, press Enter.	
Field name <u>*L</u>	INKName, *HEADING, *LINK, *CALC, *SEQ, F4 for list of fields
Description	
Length	5 1 - 50
Decimals	0 - 9
Variable length <u>Y</u>	Y=Yes, N=No
Row / Column <u>4</u>	<u>.00</u> <u>3.00</u> .01 - 11.00 / .01 - 8.50
Bar code type <u>22</u>	F4 for list
Height	<u>.50</u> .10 - 2.00
Narrow bar (module) width <u>3</u>	1 - 30
Wide to narrow bar ratio	_ 2.0 - 4.0
	More
F3=Exit F4=Prompt F5=Refresh	F12=Cancel

### **JMagic**

You are going to add your Data field first. Click the *Create a Data Field* button at the top. The *Create a New Data Field* window appears. Click *Browse* next to thee *Field name*. JMagic will remember the spooled file information, so go ahead and hit OK. The *Spooled File Viewer* will be shown.



Click and drag your mouse to highlight the number in the top right-hand area of the spooled file. Notice that JMagic shows you which fields are already mapped. Once the number is highlighted, click OK.

Spooled File Viewer		<u> </u>
Field Name @SPLDTA001 Length 5	Spool Line 2	Page Number 1 Total Pages 5
= Desc: 10050	Spool Column 68	
No Pane No Gain 34-22-36 Jackla Lane	10050	
Los Angeles CA 54532-1540	4/15/2010	
2/14/2007 12345 Invoice 3/10/2007 25345 Invoice .	823.15 823.15 1,080.00 1,903.15	
II		•
pooled File QSYSPRT Number 1	User KWH	Map All
Job Name QPADEV0011 Job Number 333056		Change Spooled File
Copyright; CYBRA Corporation; 2009; All Rights Reserved		OK Cancel Help

You will be brought back to the *Create a Data Field* window. to create your data field. JMagic gives the new Data field an "@SPL" name. Change the *Field name* to **CUST#** and changed the *Description* to **Customer Number**. Press OK create your new data field.

👙 Create A New Data Field								
Name HPPCL5 Description .5 & Compatible	Format Name LEARNXXX3 Description Description of your format	Length 11.0" Width 8.5" Rotation 🛕 o*						
Properties     Settings       Name and Description       Field Name     CUST#       Browse       Field # 1								
Attributes Length 5 Decimals								
Field Increment Increment Type  Ascending  Desending  Sequence Reference Increment Value								
Usage 00 NONE	•							
Copyright; CYBRA Corporation; 2009; All Righ	ts Reserved	OK Cancel Help						

Next, click the Add a Barcode button at the top and create a new barcode just below the last detail line that you made earlier. Make sure to choose **22 Code 128 (auto switch)** as the barcode type.



Pull the Field Name menu down and select \*LINK. (We are going to link this barcode to the Data field we just created.) The Link Fields tab will then become available. Click it to reveal the linking interface. The list on the Tutorial 2B: Intermediate Concepts – Spooled File Field Selection Pg. 34 left displays all of the available fields already added to your format. Scroll down to the new Data field you just created "CUST#" and then click Insert to add the field to the Linked to Fields list on the right.

Create A New B	lar Code Fi	eld							
			HPPCL5	Format Name Descriptio	LEARNXXX3	our format	Length 11.0" Rotation A or	Width 8.5"	
Properties   Di	isplay S	Settings	🖉 Link Fields						
	ype	Field #	Length	Field Name *LINK	Description				
ink Properties	Course	Fields: 16 F	iold(a)				Linked To Fields: 1 Field	Ko)	
Options OFF Sort Search	Text 6 DI Text 7 DI Text 8 DI Text 9 DI Text 9 DI Text 10 I Text 11 I Text 12 I Text 12 I Text 13 I Text 14 I Text 15 I	ETAIL Detai ETAIL01 De ETAIL02 De ETAIL03 De DETAIL03 D DETAIL05 D DETAIL05 D DETAIL06 D DETAIL07 D DETAIL08 D DETAIL09 D	il Line itail Line itail Line itail Line itail Line ietail Line ietail Line ietail Line ietail Line	-		Insert Remove Move Up Move Down Details	Data CUST# Customer N	19.30.	
ink To Field Type Text Name CUSTNAM Description Cus Length 25	ME stomer Na		5						
Copyright; CYBRA	A Corporatio	n; 2009; All	Rights Reserved					OK Can	el Help

Click back to the *Properties* tab so we can force the barcode to a position that we want. Set the *Row* to **4.0**, set *Column* to **3.0**. Since we already chose **22 Code 128 (auto-switch)** for *Bar code type,* it will already be chosen for us at the bottom.

👙 Edit A Bar Code Field		
Device	Format	
Name HPPCL5	Name LEARNXXX3	Length 11.0" Width 8.5"
Description .5 & Compatible	Description Description of your format	
Properties Display Settings	Link Fields	
Name and Description		
Field Name *LINK	Browse Field # 1	
Description		
Positioning Properties Row 4.0" Column 3.	0"	
Attributes		
Length 5		
Decimals		
Variable Length 💿 Yes 🔾 No		
Bar Code Type	×	
Bar code Type 22 Code 128 (auto-switch	0 -	
Copyright; CYBRA Corporation; 2009; All Right	s Reserved	OK Cancel Help

There are two more settings to change and they can be found on the *Display* tab. Set the *Height* to **.5** and *Narrow Bar Width* to **3.** Click OK to create your linked barcode field.

Edit A Bar Code Field							
Device Name HPPCL5 Description .5 & Compatible	Format Name LEARNXXX3 Description Description of your format	Length 11.0" Width 8.5" Rotation 🗛 °*					
	🖉 Link Fields						
Appearance Human Readable 00 No human reada	able characters 💌						
Alignment							
Rotation							
Rotation A 0° 0° 0° 180° 270	9						
Attributes							
Height 0.5"							
Narrow Bar Width3 <	-						
Wide to Narrow BarRatio							
Number of Columns 0							
Number of Mils 10							
Spooled Data Position							

JMagic		x
Format Edit Vi	w Fields Utilities PrintTransformer Help	
8 	DETAIL DETAILO1 DETAILO2 DETAILO3 DETAILO5 DETAILO5 DETAILO6 DETAILO7 DETAILO8 DETAILO9	
3	70	
	192.168.4.112 HPPCL5 LEARNXXX3 Description of your fi x, y: 0.00, 0.00	

Tutorial 2B: Intermediate Concepts – Spooled File Field Selection Pg. 37

# #3 – Variable Text Field: \*LINK Field

The last field to be added to the format is a text field placed directly below the barcode. The text will contain the same information that is encoded in the barcode. You will create a text field that is linked to the *same* Data field that the barcode is linked to. This highlights the benefits of using Data fields and the \*LINK feature. You only need to map the data once in the spool file and you can print it as many times as you like via \*LINK.

#### **MarkMagic**

Add a new text field just below the barcode you just made. This text field will be a link field, so name it **\*LINK**. Page down 3 times to the *Work With \*LINK Source Fields* screen. Press **F6** and select the same data field that you selected for the barcode.



Page up to the first screen and change the *Row / Column* to 3.70 and 3.00 respectively. Prompt the *Font* field and choose 36 Arial. Also, set the *Points* to 20.



Page down once and change the Style to I Italic. Press ENTER twice to create your last field on the format.

	Work with Text F	ield
Device : HPPCL5 Format : LEARNXXX3	Length: 11.00"	Width: 8.50" Rotation: 0
Field # : 009 Name : *LINK	Description:	
Type choices, press Enter.		
Edit code Check digit Increment type Increment value	<u>0</u> I	F4 for list F4 for list I=Incr, D=Decr, *=Seq reference 0 - 999
Rotate Field	0	0, 90, 180, 270
Style		F4 for list of styles F4 for list of colors
F3=Exit F4=Prompt F5=F	Refresh F12=Can	More

#### **JMagic**

Add a new text field just below the barcode you made. The familiar *Create a New Text Field* window is shown. To tell JMagic that this text field will be a linked field, select **\*LINK** from the pull down menu next to *Field name*. The *Link Fields* tab becomes available. Click it to reveal the linking interface. Find the same data field that you used earlier and Insert it to the *Linked to Fields* list on the right.

	Source Fields: 16 Field(s)		sert	Linked To Fields: 1 Field(s)	
Options	Text 9 DETAIL03 Detail Line	<b>A</b>		Data CUST# Customer Number	
OFF	Text 10 DETAIL04 Detail Line	R	emove		
	Text 11 DETAIL05 Detail Line				
Sort	Text 12 DETAIL06 Detail Line	M	ove Up		
Search	Text 13 DETAIL07 Detail Line				
	Text 14 DETAIL08 Detail Line	= M	ove Down		
	Text 15 DETAIL09 Detail Line				
	Data 1 CUST# Customer Number	👻 Di	etails		-

Click back to the *Properties* tab and set the *Row* to 3.7 and the *Column* to 3.0. For *Font* choose 36 Arial from the pull down menu. Change the *Points* to 20. There is one last formatting change and it is available on the *Font* tab. In the pull down menu for *Style* select I Italic. Click OK to create your text field.

Propertie	s Font	Display	🕼 Link Fields	
Font Proper	ties			
Color B	Black -	Alignm	ent L Left -	
Style I	Italic	•	Character Ga	p (Dots) 0
N	Normal			
Rotation U	Rotation U Underline		-	
	Italic			1
Field	Bold I Italic Under Condensed		○ ○ 180° 270°	Character Rotation
Field Edit	l Condensed I Italic Bold	l Italic		
Edit Code	e No edit (	code		-

Your finished format should look something like this:

JMagic					
Format Edit V	fiew Fields Utilities Pr	rintTransformer Help			
1	1 💊 🗟 🖣				
10 		My MarkMagio	e Tutorial		
		MarkMagic tutori MarkMagic tu	al line one. Itorial line two		
7	CUSTNAN	ЛЕ			=
	DETAIL DETAILO1 DETAILO2 DETAILO3 DETAILO4 DETAILO5 DETAILO6 DETAILO7				
	DETAILOS DETAILO9	*LINK			
			Made by:	Your Name	
4			made by.		
	192.168.4.112	IPPCL5 LEARNXXX3	Description of your f	2 45 2.00	►
MIKKMAGDIA	192.168.4.112	IFFUES [LEARNXXX3	Description of your f	IX, Y. 7.45, 7.86	

Printing With Live Spooled File Data

If you have already completed the *Variable Data from a Database* tutorial, you'll know that there is one extra step that must be taken before printing. That step being the creation of a label file. When printing with spooled file data, however, a label file is not needed. All you need are the attributes of a spooled file held anywhere on the system that corresponds to the format you have designed.

### MarkMagic

At the MarkMagic main menu, type **P** for *Print* and then **L** for *Label file*. The *Print a Label File* command is shown. Remember those spooled file attributes that you saved earlier in the tutorial? You will need them here.

Select a Spooled File	
Type choices, press Enter.	
Spooled file Job name	<u>QPADEV000F</u> Name, * <u>KWH</u> Name <u>348504</u> 000000-999999
F3=Exit F5=Refresh F12=Cand	cel

To tell the PRTLBLF command that you want to print using spooled file data, type **\*SPOOLFILE** for *Label file*. If you press ENTER, previously hidden options will now be available to you. These parameters are circled in the screenshot. They are: *Spooled file, Job name, User, Number* and *Spooled file number*. Type in your spooled file's attributes in these fields. Make sure you have **LEARNXXX3** as the *Format name* and **HPPCL5** as *Printer type*. If your printer is set up as an OS400 device, then you will want to type that name into the *Printer device* field. If you use a remote output queue, you will want to press **F10** for *Additional Parameters* and PageDown to *Spooled output queue* and type your queue's information there.

Print a Label File (PRT	LBLF)
Type choices, press Enter.	
Label file	Name, *NONE, *DTAQ
Library	Name, *LIBL
Label file member	Name, *FIRST
Spooled file	Name
	Name, *
User	Name
Number	000000-999999
Spooled file number $\ldots$ $\ldots$ $2$	1-999999, *ONLY, *LAST
Format name <u>LEARNXXX3</u>	Name, *FILE, F4 for list
Printer device	Name, F4 for list
Form type	Character value, *STD
Spooled printer output > <u>*YES</u>	*YES, *NO
Spooled file name > <u>*FMT</u>	Character value, *PRTF, *FMT
Quantity	1-9999, *DEFAULT
Printer type	Name, F4 for printer list
	More
F3=Exit F4=Prompt F5=Refresh F10=Additiona	al parameters F12=Cancel
F13=How to use this display F24=More keys	5

Press ENTER to print your format with the spooled file data. MarkMagic will output one page for every page in the source spool file. The example spool file has 5 pages, so you will get five pages of MarkMagic output.

#### **JMagic**

At the top, click *Format*, *Print*, and then *Print label file*. The *Print a Label File* command window is displayed. Remember those spooled file attributes that you saved earlier in the tutorial? You will need them here.

To print using spooled file data, the first thing to do is select **\*SPOOLFILE** from the list for *Label file*. Once you do this, previously hidden option become available.

File Edit View Help				
Label file:	*SPOOLFILE	<ul> <li>Name</li> </ul>		
Library:	*NONE *DTAQ	Name		
Label file member:	*SPOOLFILE	Name		
Spooled file:	*FORMAT *LAYOUT	Name		
Job name:	*TEST	Name		
User:		Name		

These parameters are circled in the following screenshot. They are: *Spooled file, Job name, User, Number* and *Spooled file number*. Type in your spooled file's attributes in these fields. Make sure you have **LEARNXXX3** as the *Format name* and **HPPCL5** as *Printer type*. If your printer is set up as an OS400 device, then you will want to type that name into the *Printer device* field. If you use a remote output queue, you will want may need to press the *Advanced* button on the bottom left and scroll down to *Spooled output queue* and type your queue's information there.

ile <u>E</u> dit ⊻iew <u>H</u> elp		
_abel file:	*SPOOLFILE	✓ Name
Library:	*LIBL	✓ Name
_abel file member:	*FIRST	✓ Name
Spooled file:	QSYSPRT	Name
lob name:	QPADEV000F	✓ Name
User:	KWH	Name
Number:	348504	00000-999999
Spooled file number: 🔷	2	- 1-999999
format name:	LEARNXXX3	✓ Name
Printer device:		✓ Name
'orm type:	*STD	<ul> <li>Character value</li> </ul>
Spooled printer output:	💿 *YES 🛛 *NO	2
Spooled file name:	*FMT	<ul> <li>Character value</li> </ul>
Quantity:	*DEFAULT	✓ 1-9999
Printer type:	HPPCL5	<ul> <li>Name, F4 for printer list</li> </ul>
	Advanced Parameters	
Spooled output queue:		▼ Name
	( <u></u>	
Library:	LIBRARY	✓ Name
Jser library name:	MRKMAGDTA	▼ Name

Press OK to print your format with the spooled file data. MarkMagic will output one page for every page in the source spool file. The example spool file has 5 pages, so you will get five pages of MarkMagic output.

Congratulations! If all went well, you should have five nice looking pages with spool file data! Let's review what was covered in this Intermediate Concepts "Spoolfile" tutorial:

- 1. How to copy a format and why you would want to copy a format.
- 2. How to delete a field.
- 3. How to add a text field that is mapped to spooled file data.
- 4. How to copy the text field to easily map more lines in a spooled file.
- 5. How to add data fields that are mapped to spooled file data.
- 6. What a \*LINK field is.
- 7. How to add text and barcodes that are linked to the data fields.
- 8. How to print with data from your spooled file.

This tutorial only covered methods of printing information from a spooled file. If you are looking for a tutorial that covers printing data retrieved from a database file, please read the Intermediate Concepts "Database" tutorial.