

Playing with Library Lists

The following libraries exist on ZEUS:

IBCLIB01		IBCLIB02		IBCLIB03		IBCTESTLIB	
Object	Type	Object	Type	Object	Type	Object	Type
Payroll	*file	Payroll	*pgm	Cheques	*outq	Payroll	*pgm
Hours	*file	Salary	*pgm			Cheques	*outq
Employees	*file	Hourly	*pgm			Hours	*file
Benefits	*file	Benefits	*pgm				

The Payroll Manager (JSMITH) signs on to use the Payroll system.  
Unbeknownst to JSMITH, a new programmer has been working on the payroll system.  
The DSPLIBL command output for JSMITH's UserID looks like

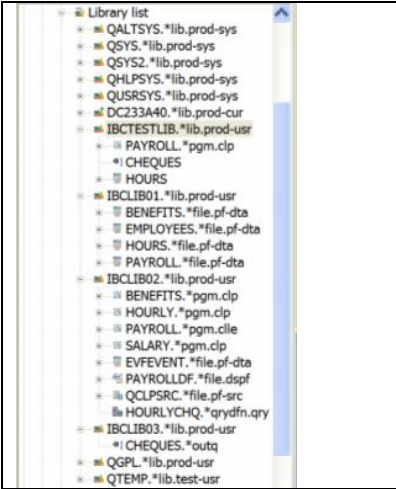
QALTSYS	SYS	Where are the default values for the system portion of the library list stored?
QSYS	SYS	
QSYS2	SYS	
QHLP SYS	SYS	
QUSRSYS	SYS	
JSMITH	CUR	Where is the default for the current portion of the library list stored?
IBCTESTLIB	USR	
IBCLIB01	USR	
IBCLIB02	USR	
IBCLIB03	USR	
QG PL	USR	Where are the default values for the user portion of the library list stored?
QTEMP	USR	

Using Rational Developer for Power Systems (RDp):

Change your library list to look like the above. Expand the "Library list" and let's examine your options. Right click on your current library to "Change" it, but you don't need to in this lab. Instead of JSMITH, keep your own current library. Right click on any user library: you could "Add Library List Entry" before or after it; you could also Remove or Move it in the List.

The setup of the library list in RDp will be used for discussion purposes only. No program will be run from RDp. (We could but seeing the status messages is much easier when the programs are run in a 'Green Screen' terminal.)

You should see:

	<p>Assuming that *LIBL is used as the default for all commands, answer the following questions:</p> <p>If you entered the command CALL PAYROLL. Which library will the program be found in? Write down your answer: _____</p> <p>_____</p>
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Now try it in an interactive test environment – return to 'Green Screen'.

'Green Screen' and RDp run as different jobs on power systems so we have to change our 'Green Screen' session's library list also. The Library List is an attribute of a job and each job is different. You can use the following commands:

CHGLIBL – allows you to change your current library and the user portion of the library list at the same time. Since we only need to maintain the User portion of our library list, this command is a little bit of overkill for what we need.

ADDLIBL – allows you to add one library to the user portion of the library list at one time – we need to add 4 libraries – so a little cumbersome for our purposes. If we make a mistake – we could use RMVLIBLE if we make a mistake!

CHGCURLIB – only changes the current library – so not what we need.

EDTLIBL – allows us to maintain the User portion of the library list. This is the one to use.

At the command line type: EDTLIBL and press ENTER.

Change your library list by entering something like this (the sequence numbers are arbitrary):

Edit Library List

System: ZEUS

Type new/changed information, press Enter.

Sequence Number	Library	Sequence Number	Library	Sequence Number	Library
1	ibctestlib	2	ibclib01	3	ibclib02
4	ibclib03			310	
20	QGPL	170		320	
30	QTEMP	180		330	
40		190		340	
50		200		350	
60		210		360	
70		220		370	
80		230		380	
90		240		390	
100		250		400	
110		260		410	
120		270		420	
130		280		430	
140		290		440	

F3=Exit F5=Refresh F12=Cancel

Press Enter and the screen should look like this:

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                                Edit Library List
                                System:  ZEUS

Type new/changed information, press Enter.

Sequence      Sequence      Sequence
Number  Library      Number  Library      Number  Library
  0      IBCTESTLIB    150      300
 10      IBCLIB01     160      310
 20      IBCLIB02     170      320
 30      IBCLIB03     180      330
 40      QGPL         190      340
 50      QTEMP        200      350
 60      210          210      360
 70      220          220      370
 80      230          230      380
 90      240          240      390
100      250          250      400
110      260          260      410
120      270          270      420
130      280          280      430
140      290          290      440

F3=Exit  F5=Refresh  F12=Cancel
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Exit the Exit Library List screen and enter CALL PAYROLL on the command line. What status message do you see?

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To see all the Payroll programs in your \*LIBL, enter WRKPGM PAYROLL.

Return to RDP. Which libraries contain the HOURS data file? Write down your answer.

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Return to 'Green Screen'. Enter the DSPPFM HOURS command. What is this command? Look at the screen title and use the F1-help key to find out.

Look at the Top right hand corner – what library is this object in?

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To see all the HOURS files in your \*LIBL, enter WRKF HOURS.

To see nicely formatted data from the first HOURS file in your \*LIBL, enter RUNQRY \*N HOURS

To see all the objects in your current and user libraries, type WRKOBJ OBJ(\*USRLIBL/\*ALL) then press F4 to see the command parameters. Press Enter and review the objects in the library list.

Try this command: WRKOBJ BENEFITS **F4 & Enter**

You want to CALL BENEFITS. What kind of object would BENEFITS be?

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Which library will BENEFITS be found in? Write down your answer.

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Now CALL BENEFITS What status message do you see?

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The HOURLY program is run to create a report for cheque printing. This program uses the EMPLOYEES AND HOURS files as it finds them in the library list. The report is sent to the CHEQUES \*OUTQ in the \*LIBL.

Which files will be used from which libraries? Try: WRKF \*USRLIBL/\*ALL **F4 & Enter**

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Which library contains the CHEQUES \*OUTQ that will be used? Try this command: WRKOUTQ CHEQUES\* **F4 & Enter**

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Call the HOURLY program. Try the WRKSPLF command to find the output. Press the F-key to display View 4 to see the output queue your spooled file is in. (You could also use the WRKOUTQ command above to display the output.) Display the spooled file.

Which library (or libraries) did the EMPLOYEES and HOURS data come from -- look at the spooled file report to confirm your answer above.

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Adjust the library list so that you are no longer using objects from IBCTESTLIB. Rerun HOURLY and check the results. Are the EMPLOYEES and HOURS file called from the same library as the previous run?

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You enter the command CRTOUTQ REPORTS. In which library will the new object be stored? Enter WRKOBJPDM to view the object. What kind of object is it? Now enter the option to delete this object since we don't need it.

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