#### 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  QSYS SYS  QSYS2 SYS  QHLPSYS SYS  QUSRSYS SYS  JSMITH CUR  IBCTESTLIB USR  IBCLIB01 USR  IBCLIB02 USR  IBCLIB03 USR  QGPL USR  QTEMP USR | Where are the default values for the system portion of the library list stored?  Where is the default for the current portion of the library list stored?  Where are the default values for the user portion of the library list stored? |

**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 WDSC will be used for discussion purposes only. No program will be run from WDSC. (We could but seeing the status messages is much easier when the programs are run in a ‘Green Screen’ terminal.)

You should see:

|  |  |
| --- | --- |
|  | Assuming that \*LIBL is used as the default for all commands, answer the following questions:  If you entered the command CALL PAYROLL. Which library will the program be found in?  Write down your answer: |

Now try it in an interactive test environment – return to ‘Green Screen’.

‘Green Screen’ and WDSC 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.

ADDLIBLE – 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 Sequence Sequence   
 Number Library Number Library 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:

Edit Library List   
 System: ZEUS  
Type new/changed information, press Enter.   
   
Sequence Sequence Sequence   
 Number Library Number Library Number Library   
 0 150 300   
 10 IBCTESTLIB 160 310   
 20 IBCLIB01 170 320   
 30 IBCLIB02 180 330   
 40 IBCLIB03 190 340   
 50 QGPL 200 350   
 60 QTEMP 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

Exit the Exit Library List screen and enter CALL PAYROLL on the command line. What status message do you see?

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

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

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?

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?

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

Now CALL BENEFITS What status message do you see?

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**

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

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.

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?

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.