

SETTING UP YOUR ENVIRONMENT TO USE COBOL AND JAVA

In order to use Micro Focus Server Express COBOL and JAVA together you need a JAVA runtime system on the machine that is going to execute a JAVA application. With Micro Focus Server Express the runtime is “cobjrun”.

Naturally if you are going to use COBOL and JAVA together you will require a JAVA development environment. You can use the JAVA Software Development Kit (SDK), available from Sun, or any JAVA IDE which is based on either Sun or Microsoft JAVA runtime environment. On the other hand you can have a Java Virtual Machine (JVM), which provides both a development and runtime environment.

In previous version of Micro Focus Server Express you had to setup the JAVA environment manually. This was sometime very difficult to set the environment variables correctly. With Server Express v4.0 SP1 we have provide the cobsje script that will setup the JAVA environment for you. The only information you need to know is the full path where JAVA is installed. Following is an example on how to run the script:

```
.$COBDIR/bin/cobsje [-n|-v][-J java_home]
```

Where the options are:

- n Do not change the environment settings but display what they are set to.
- v Verbose mode: apply the changes and display the new settings.
- J Sets the Java_home environment variable.

java_home The full path of where Java is installed. The environment variable \$JAVA_HOME is also set to this path. If you do not specify a path, the value of the environment variable \$JAVA_HOME is used for cobsj.

The script sets up the environment as follows. It:

- Displays a list of the supported JVMs for you choose from
- Checks that the COBOL environment is valid by checking that COBDIR is set and that cobrun -v returns zero
- Sets the environment variable \$JAVA_HOME to the specified value, if specified
- Checks that \$JAVA_HOME/bin/java is executable
- Runs \$JAVA_HOME/bin/java WhatJava to obtain the Java version
- Checks that the version of Java is supported
- Determines whether to run 32-bit or 64-bit
- Updates the COBOL environment to run Java by:
 - Updating the load library path
 - Updating CLASSPATH
 - Updating PATH

Setting COBJVM for all platforms other than HP PA-RISC and HP IA64
Unsetting COBJVM if the platform is HP PA-RISC and HP IA64
Updating COBCPY

Runs cobjrun WhatJava to check that the environment is now correctly set up

If your platform supports multiple JVMs, you can change the default JVM set when Server Express was installed by running the script **java_setup**. Use this method when you are sure that you want to change the default JVM on a more or less permanent basis.

To run the script:

Login as superuser.

Set the COBDIR environment variable to the directory where Server Express is installed.

Change directory to **\$COBDIR/bin**.

Enter **java_setup**

When requested, select the version of Java that you want to be the default.