BEA JRockit JDK

Installing BEA JRockit JDK

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CHAPTER 1

Installing the BEA JRockit JDK

This section describes how to install BEA JRockit as a standalone application. It includes information on the following subjects:

- Platform Support
- Important Note on JDK Version Numbering in this Guide
- If You are Running Earlier Versions of BEA JRockit
- Installing and Uninstalling BEA JRockit JDK
- Installing and Uninstalling BEA JRockit JDK in Console Mode
- Installing and Uninstalling BEA JRockit JDK in Silent Mode
- Special Note About Root Access

Note: BEA JRockit JDK can be used by any application and does not interact with or create a BEA registry.

Platform Support

For a complete list of supported platforms, please visit:

`http://edocs.bea.com/jrockit/jrdocs/suppPlat/supp_plat.html`

Important Note on JDK Version Numbering in this Guide

Installing BEA JRockit JDK describes how to install BEA JRockit JDK. Throughout this document you will see the following notation:
`jrockit-<jrockit_version>-jdk<sun_version>-<platform>`, for example,
`jrockit-R26.0.0-jdk1.5.0_04-win-ia32.exe`

If You are Running Earlier Versions of BEA JRockit

This release of JRockit JRE does not ship with Java Web Start or Java Plugin. Some earlier releases did and the installers and uninstallers of those versions do not behave properly when this release is installed. In order to avoid problems with this release, you should perform one of the following procedures before continuing with your installation:

1. Uninstall all earlier JRockit JRE releases **before** installing this release. Java Web Start and Java Plugin will not be available after this procedure.
2. Install all earlier JRockit JRE releases that are needed **before** installing this release. Java Web Start and Java Plugin will be available if included in any of the earlier releases.

Note: Do **not** install or uninstall an earlier release of JRockit JRE while this release is installed. Doing so may corrupt the state of Java Web Start and Java Plugin.

Installing and Uninstalling BEA JRockit JDK

This section explains how to install and uninstall a standalone version of the BEA JRockit JDK for the following platforms:

- Windows 32-bit x86, 64-bit x86 (EM64T), and 64-bit Itanium
- Red Hat Linux 32-bit x86, 64-bit x86 (EM64T), and 64-bit Itanium
- Sun Solaris on 64-bit SPARC

Note: When installing on Linux and Solaris, the default location for system prefs will be:

`<JAVAHOME>/.systemPrefs`, where `<JAVAHOME>=<JDK_INSTALLDIR>/jre` or `<JRE_INSTALLDIR>`, unless the user is ‘root’ in which case `/etc/.java/.systemPrefs` is used.

Installing JRockit From an .exe or .bin File

In the following procedure you will run the self-installing executable (Windows) or the self-extracting binary.

To install BEA JRockit JDK

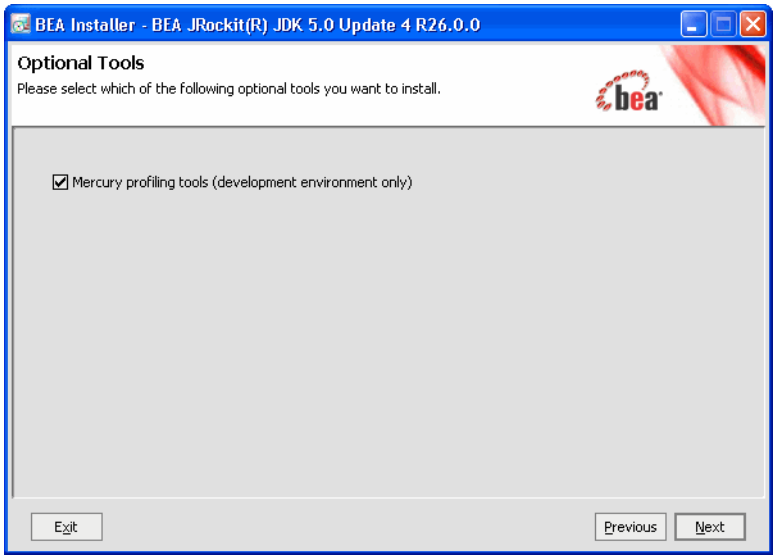
1. Make sure you have downloaded the appropriate version of the BEA JRockit JDK for your operating system.
2. On you local drive, locate the executable file for the version of BEA JRockit JDK you want to install:

   Note: If you install the JDK on Linux or Solaris by using the `.bin file`, you need to ensure the file is executable. You can use `chmod +x <filename>` to make the file executable.

3. Run the JDK installer.
   The install process begins and the BEA installer window appears, followed by the **Welcome** window.
4. Click **Next**.
   The **BEA License Agreement** window appears.
5. Select **Yes** and click **Next**.
   The **Optional Tools** window appears (see Figure 1-1).

   Note: If you are installing BEA JRockit JDK 1.4.2, the **Optional Tools** window does not appear. Please proceed to step 8 in "Installing JRockit From an .exe or .bin File".

Figure 1-1 Optional Tools Window

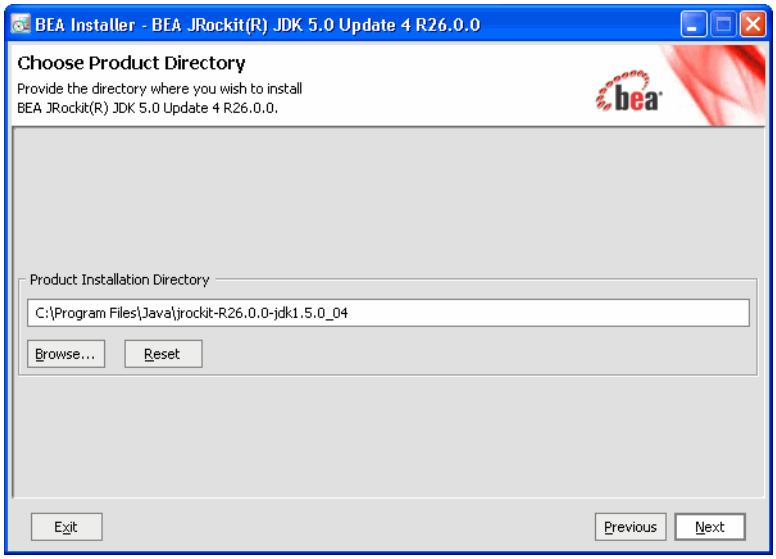


6. Select the optional tools that you want to install and click **Next**.
   The optional tool's licence agreement window appears.

7. Select **Yes** and click **Next**.
   The **Choose Product Directory** window appears (see Figure 1-2).

   Note: The Mercury profiling tools are not allowed for use in a production type environment.

Figure 1-2 Choose Product Directory Window



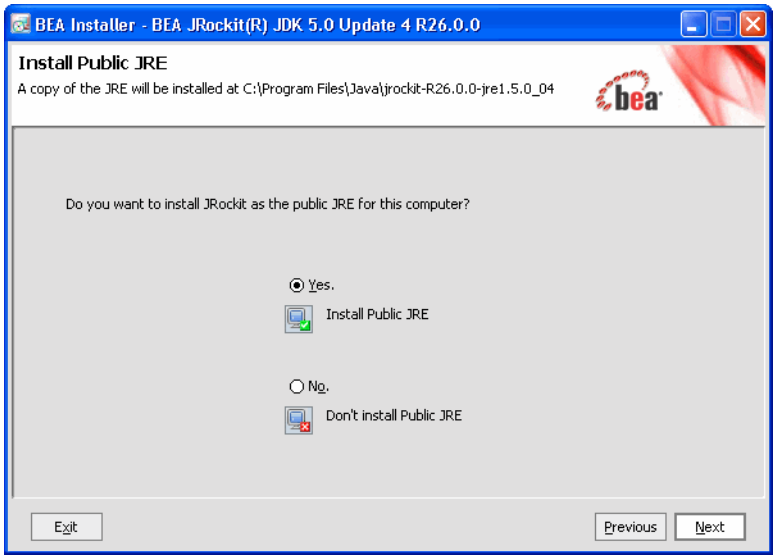
8. Click **Next** if you are satisfied with the suggested installation directory.
   The **Install Public JRE** window appears (see Figure 1-3).

   Note: If you are not installing BEA JRockit on Windows 32-bit x86, the **Install Public JRE** window does not appear. Please proceed to step 10 in "Installing JRockit From an .exe or .bin File".

   If you want a different location for the installation you can pick one by clicking **Browse** or type a new directory into the **Product Installation Directory** field.

   By clicking **Reset**, you set the selection back to the default directory.

Figure 1-3 Install Public JRE Window (available for Windows 32-bit x86 machines only)



9. Do one of the following:
   - Click **Yes** to install public JRE
   - Click **No** not to install public JRE
10. Click **Next** (the installation starts immediately after you click **Next**).
    The **BEA Installer** window appears and the installation process continues, as indicated on the progress meter in the lower right corner of the window (see Figure 1-4).

Figure 1-4 BEA Installer Window with Progress Meter

When the installation is complete, the **Installation Complete** window appears.

11. Click **Done**.

    The BEA JRockit JDK is now installed.

Adding JRockit to Your Path

Once you have installed JRockit, you need to add it to your path.

Use this command for Windows platforms:

set
`PATH=%ProgramFiles%\Java\jrockit-<jrockit_version>-jdk<sun_version>\bin;%PATH%`

Use this command for Linux and Solaris platforms:

```
export PATH=$HOME/jrockit-<jrockit_version>-jdk<sun_version>/bin:$PATH
```

Uninstalling the JDK

This section describes how to uninstall the Windows, Linux, and Solaris versions of BEA JRockit JDK

Uninstalling Windows Versions

To uninstall BEA JRockit JDK, do the following:

1. Click **Start** and open the **All Programs** menu.
2. Select **BEA JRockit(R) JDK [version]** > **Uninstall BEA JRockit(R) JDK [version]**. The **BEA Uninstaller** confirmation message appears.
3. Click **OK**.
   – The **BEA Uninstaller** appears and the uninstall process commences.
4. Click **OK**.

The JDK is removed from your computer.

Uninstalling Windows Versions from the Command Line

Run the following command from a console window:

```
%SystemRoot%\Installer\BEA\JRockit_JDK_<sun_version>\uninstall.exe
```

Uninstalling Linux and Solaris Versions from the Command Line

To uninstall Linux and Solaris versions of BEA JRockit, do the following:

1. Ensure you are one step below the appropriate BEA JRockit product directory.
2. From the command line, type:

   ```
   rm -rf jrockit-<jrockit_version>-jdk<sun_version>
   ```

   (where the product directory corresponds to your currently installed JRockit version) and press **Enter**.

The JDK is removed from your computer.

Installing and Uninstalling BEA JRockit JDK in Console Mode

You can install JDK in console mode, rather than from a GUI. This section describes how to install BEA JRockit using console mode for Windows, Linux, and Solaris operating systems.

Installing Windows Versions in Console Mode

To install Windows version of BEA JRockit in console mode, enter the command for the version you want to install at the command line; for example, to install the Windows 32-bit x86 version of the JDK, do the following:

1. Open a command prompt box on your computer.
2. Change to the directory from which you want to install BEA JRockit.
3. At the command line, enter:

   ```
   jrockit-<jrockit_version>-jdk<sun_version>-<platform>.exe -mode=console
   ```

   The installation will commence with a new DOS window showing the extraction process. Once the extraction process is complete, the system will prompt you through the installation, replicating the procedures described in Installing and Uninstalling BEA JRockit JDK.

Note: If you don't specify `-mode=console` at the command line, the installer will revert to GUI mode, as described in Installing and Uninstalling BEA JRockit JDK.

Uninstalling Windows Versions in Console Mode

You cannot uninstall Windows versions of BEA JRockit JDK in the console mode. Instead, use the method described in Uninstalling Windows Versions.

Installing Linux and Solaris Versions in Console Mode

To install BEA JRockit in console mode, do the following:

Note: If you install the JDK on Linux or Solaris by using the `.bin` file, you need to ensure the file is executable. You can use `chmod +x <filename>`to make the file executable.

1. Change to the directory from which you want to install BEA JRockit.
2. At the prompt, type:

   ```
   jrockit-<jrockit_version>-jdk<sun_version>-<platform>.bin -mode=console
   ```

   (where *NN* is your machine type; the following example is for a 32-bit machine) and press **Enter**.

   The system responds:

   ```
   Extracting 0%.....................................100%
   ```

Once the extraction process is complete, the system will prompt you through the installation, replicating the procedures described in Installing and Uninstalling BEA JRockit JDK.

Uninstalling Linux and Solaris Versions in Console Mode

You cannot uninstall Linux and Solaris versions of BEA JRockit JDK in the console mode. Instead, use the method described in Uninstalling Linux and Solaris Versions from the Command Line.

Installing and Uninstalling BEA JRockit JDK in Silent Mode

The silent installation mode lets you set installation configurations only once and then use those configurations to duplicate the installation on many machines. During installation in silent mode, the installation program reads installation options from an XML file that you create prior to beginning the installation (see The silent.xml File). The installation program does not display any configuration options during the installation process. For more information on silent mode, please refer to "Installing WebLogic Platform Using Silent-Mode Installation" in the BEA WebLogic Server *Installation Guide*.

The silent.xml File

For a silent mode installation to be successful, you will need to create the file `silent.xml` and store it on your computer. This file contains the values you want included in your set-up; for example, whether or not you want the Public JRE installed. Listing 1-1 shows an example of a silent.xml file.

Listing 1-1 Example of a silent.xml File

```
<?xml version="1.0" encoding="UTF-8" ?>
<domain-template-descriptor>
 <input-fields>
   <!--  Installation dir   -->
   <data-value name="USER_INSTALL_DIR" value="c:\Program
Files\Java\jrockit-R26.0.0-jdk1.5.0_04" />
   <!--
      Install Public JRE
        This option is available in Windows IA32 JDK installer
   -->
   <data-value name="INSTALL_PUBLIC_JRE" value="true" />
   <!--
```

```
      Optionally install Mercury profiling tools (not valid for JRockit 1.4.2),
         possible values “true”,”yes”,”false” and “no”.
         The default value for this option is “true”.
   -->
  <data-value name=”INSTALL_MERCURY_PROFILING_TOOLS” value=”true” />
 </input-fields>
</domain-template-descriptor>
```

Installing and Uninstalling Windows Versions in Silent Mode

These procedures apply to supported Windows platforms. See BEA JRockit JDK Platform Support for a list of supported platforms.

Installing Windows Versions in Silent Mode

To install the JDK in silent mode on Windows machines, enter at the command line (this procedure assumes that `silent.xml` is stored in `D:\Works\`):

```
>jrockit-<jrockit_version>-jdk<sun_version>-<platform>.exe -mode=silent
-silent_xml=”D:\Works\silent.xml”
```

You will receive a message advising that files are being extracted and no other confirmation. If you want to confirm installation, click **Start** > **Programs**. If the installation is successful, you will see BEA JRockit JDK in your Program menu. If you installed the JRE (that is, you specified `<data-value name=”INSTALL_PUBLIC_JRE” value=”true” />` in the `silent.xml` file, you will also see BEA JRockit JRE in your Program menu.

Note: If you want to create an install log, add the option `-log=log.log` at the end of the command.

Uninstalling Windows Versions in Silent Mode

You cannot uninstall Windows versions of BEA JRockit JDK in silent mode. Instead, use the method described in Uninstalling Windows Versions.

Installing Linux and Solaris Versions in Silent Mode

These procedures apply to supported Linux and Solaris platforms. See BEA JRockit JDK Platform Support for a list of supported platforms.

To install the JDK in silent mode on Linux and Solaris machines, enter at the command line (this procedure assumes that `silent.xml` is stored in `/localhome/works/`):

```
>jrockit-<jrockit_version>-jdk<sun_version>-<platform>.bin -mode=silent -silen
t_xml="/localhome/works/silent.xml"
```

Note: You need to ensure the `.bin` file is executable. You can use `chmod +x <filename>` to make the file executable.

You will receive a message advising that files are being extracted and no other confirmation. You can confirm installation by looking at your file system and finding the product directory you specified for BEA JRockit JDK.

Note: If you want to create a log of your installation, add the option `-log=log.log` at the end of the command.

Uninstalling Linux and Solaris Versions in Silent Mode

You cannot uninstall Linux and Solaris versions of BEA JRockit JDK in silent mode. Instead, use the method described in Uninstalling Linux and Solaris Versions from the Command Line.

Using the Linux and Solaris man Pages

Note: This information is only valid if you are running a linux_ia64 version of JRockit. For other releases, starting from R26.3, man pages have been removed.

The Linux and Solaris version of BEA JRockit JDK and BEA JRockit JRE contain tool documentation as "man" (manual) pages. Most tools in `<installdir>/bin` have man pages. They are available in English and Japanese.

If you have the BEA JRockit JDK as your default JDK, i.e. updated `PATH` as described in Adding JRockit to Your Path:

then you simply enter the command `man` followed by the tool name, for example:

```
man javac
```

Special Note About Root Access

If you choose to install BEA JRockit JDK or BEA JRockit JRE into a system-wide location such as `/usr/local`, you must first become the root user to gain the necessary permissions. If you do not have root access, simply install BEA JRockit JDK or BEA JRockit JRE into a directory where you have permission to write, for example, your home directory.

CHAPTER 2

Installing the BEA JRockit JRE

The BEA JRockit JVM is a component of Java Runtime Environment (JRE) included in the BEA JRockit JDK. In instances where you want to exploit the full power of the JVM without dealing with the overhead of the entire JDK, you can install just the JRE as described in this document and run it separately.

This section includes information on the following subjects:

- Installing the JRE From an .exe or .bin File
- Uninstalling the JRE
- Console and Silent Mode Installation and Uninstallation

Installing the JRE From an .exe or .bin File

In the following procedure you will run the self-installing executable (Windows) or the self-extracting binary (Linux and Solaris).

To Install BEA JRockit JRE

1. Make sure you have downloaded the appropriate version of the BEA JRockit JRE for your operating system.
2. On you local drive, locate the executable file for the version of BEA JRockit JDK you want to install:

Note: If you install the JDK on Linux or Solaris by using the `.bin file`, you need to ensure the file is executable. You can use `chmod +x <filename>` to make the file executable.

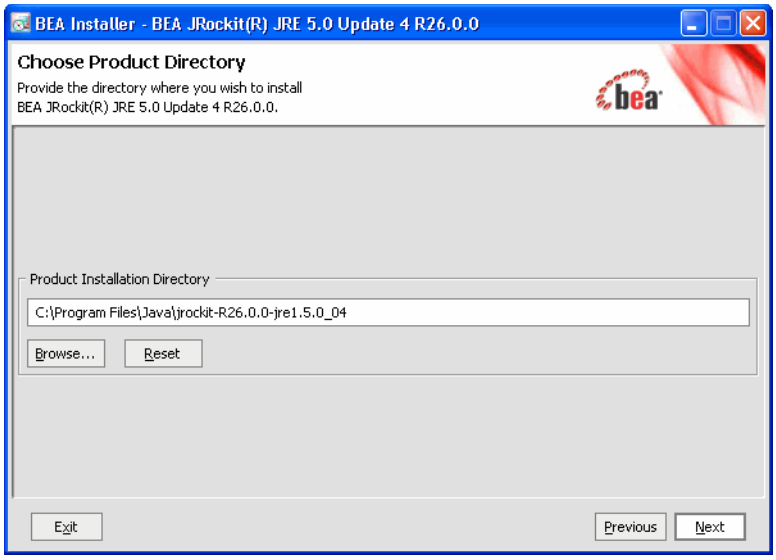
3. Run the JRE installer.
   The install process begins and the BEA installer window appears, followed by the **Welcome** window.

4. Click **Next**.

   The **BEA License Agreement** window appears.

5. Select **Yes** and click **Next**.
   The **Choose Product Directory** window appears (see Figure 2-1).

Figure 2-1 Choose Product Directory Window



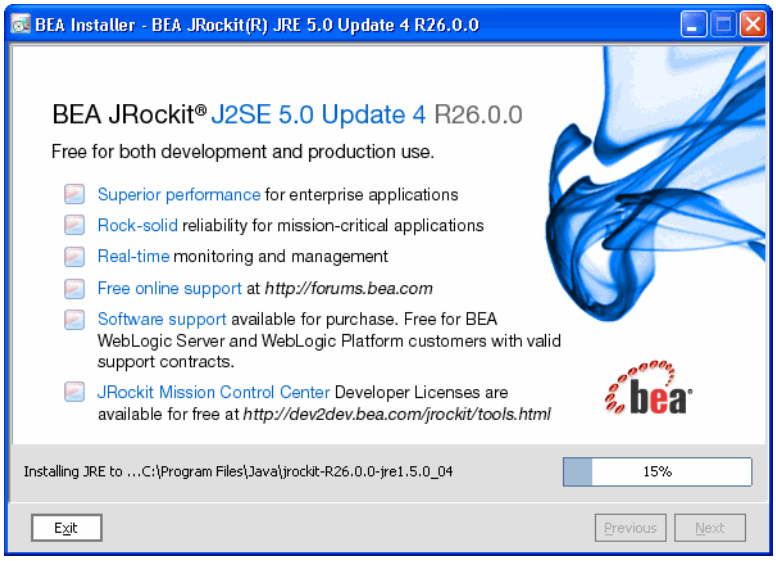
6. Click **Next** if you are satisfied with the suggested installation directory.

   If you want a different location for the installation you can pick one by clicking **Browse** or type a new directory into the **Product Installation Directory** field.

   By clicking **Reset**, you set the selection back to the default directory.

7. Click **Next** (the installation starts immediately after you click **Next**).
   The **BEA Installer** window appears and the installation process continues, as indicated on the progress meter in the lower right corner of the window (see Figure 2-2).

Figure 2-2 BEA Installer Window with Progress Meter



When the installation is complete, the **Installation Complete** window appears.

8. Click **Done**.

   The BEA JRockit JRE is now installed.

Uninstalling the JRE

To uninstall the JRE, see Uninstalling the JDK for instructions on how to perform the uninstallation. Replace JDK specifics with JRE.

Console and Silent Mode Installation and Uninstallation

Like the BEA JRockit JDK, the BEA JRockit JRE can be installed and uninstalled in both console mode and silent mode. See Installing and Uninstalling BEA JRockit JDK in Console Mode and Installing and Uninstalling BEA JRockit JDK in Silent Mode. The procedure for these functions

is identical to that used to install and uninstall the JDK, except that you need to execute different installation files.