# BEA JRockit JDK

## Installing BEA JRockit JDK

Verson 5.0 Service Pack 2
June 2005

# Copyright

Copyright © 2005 BEA Systems, Inc. All Rights Reserved.

# Restricted Rights Legend

This software and documentation is subject to and made available only pursuant to the terms of the BEA Systems License Agreement and may be used or copied only in accordance with the terms of that agreement. It is against the law to copy the software except as specifically allowed in the agreement. This document may not, in whole or in part, be copied, photocopied, reproduced, translated, or reduced to any electronic medium or machine readable form without prior consent, in writing, from BEA Systems, Inc.

Use, duplication or disclosure by the U.S. Government is subject to restrictions set forth in the BEA Systems License Agreement and in subparagraph (c)(1) of the Commercial Computer Software-Restricted Rights Clause at FAR 52.227-19; subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013, subparagraph (d) of the Commercial Computer Software--Licensing clause at NASA FAR supplement 16-52.227-86; or their equivalent.

Information in this document is subject to change without notice and does not represent a commitment on the part of BEA Systems. THE SOFTWARE AND DOCUMENTATION ARE PROVIDED “AS IS” WITHOUT WARRANTY OF ANY KIND INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. FURTHER, BEA Systems DOES NOT WARRANT, GUARANTEE, OR MAKE ANY REPRESENTATIONS REGARDING THE USE, OR THE RESULTS OF THE USE, OF THE SOFTWARE OR WRITTEN MATERIAL IN TERMS OF CORRECTNESS, ACCURACY, RELIABILITY, OR OTHERWISE.

# Trademarks or Service Marks

BEA, BEA JRockit, BEA Liquid Data for WebLogic, BEA WebLogic Server, Built on BEA, Jolt, JoltBeans, SteelThread, Top End, Tuxedo, and WebLogic are registered trademarks of BEA Systems, Inc. BEA Builder, BEA Campaign Manager for WebLogic, BEA eLink, BEA Manager, BEA MessageQ, BEA WebLogic Commerce Server, BEA WebLogic Enterprise, BEA WebLogic Enterprise Platform, BEA WebLogic Enterprise Security, BEA WebLogic Express, BEA WebLogic Integration, BEA WebLogic Java Adapter for Mainframe, BEA WebLogic JDriver, BEA WebLogic JRockit, BEA WebLogic Log Central, BEA WebLogic Personalization Server, BEA WebLogic Platform, BEA WebLogic Portal, BEA WebLogic Server Process Edition, BEA WebLogic WorkGroup Edition, BEA WebLogic Workshop, and Liquid Computing are trademarks of BEA Systems, Inc. BEA Mission Critical Support is a service mark of BEA Systems, Inc. All other company and product names may be the subject of intellectual property rights reserved by third parties.

All other trademarks are the property of their respective companies.

# Contents

## Installing BEA JRockit JDK


Java 2 Standard Edition™ (J2SE™) Compatibility. . . . . 1-1

Platform Support . . . . . 1-2

Important Note on JDK Version Numbering in this Guide . . . . . 1-2

Installing and Uninstalling BEA JRockit JDK . . . . . 1-2

- Installing the JDK . . . . . 1-2
- Uninstalling the JDK . . . . . 1-7
  - Uninstalling Windows Versions. . . . . 1-7
  - Uninstalling Windows Versions from the Command Line . . . . . 1-8
  - Uninstalling Linux Versions . . . . . 1-8

Installing and Uninstalling BEA JRockit JDK in Console Mode . . . . . 1-8

- Installing Windows Versions in Console Mode . . . . . 1-8
  - Uninstalling Windows Versions in Console Mode . . . . . 1-9
- Installing Linux Versions in Console Mode . . . . . 1-9
  - Uninstalling Linux Versions in Console Mode . . . . . 1-10

Installing and Uninstalling BEA JRockit JDK in Silent Mode . . . . . 1-10

- The silent.xml File . . . . . 1-10
- Installing and Uninstalling Windows Versions in Silent Mode . . . . . 1-11
  - Installing Windows Versions in Silent Mode . . . . . 1-11
  - Uninstalling Windows Versions in Silent Mode . . . . . 1-12
- Installing Linux Versions in silent mode . . . . . 1-12
  - Uninstalling Linux Versions in Silent Mode . . . . . 1-12

Using the Linux man Pages . . . . . 1-12
Special Note About Root Access. . . . . 1-13

# Installing the BEA JRockit JRE

Important Note on JDK Version Numbering in this Guide. . . . . 2-1
Installing the JRE. . . . . 2-1
Uninstalling the JRE . . . . . 2-5
Console and Silent Mode Installation and Uninstallation . . . . . 2-5

CHAPTER 1

# Installing BEA JRockit JDK

This section describes how to install BEA JRockit 5.0 as a standalone application. It includes information on the following subjects:

- Java 2 Standard Edition™ (J2SE™) Compatibility
- Platform Support
- Important Note on JDK Version Numbering in this Guide
- Installing and Uninstalling BEA JRockit JDK
- Installing and Uninstalling BEA JRockit JDK in Console Mode
- Installing and Uninstalling BEA JRockit JDK in Silent Mode
- Using the Linux man Pages

Be aware that BEA JRockit 5.0 JDK can be used by any application and does not interact with or create a BEA registry. Also note that the BEA WebLogic Platform is not certified with this version of BEA JRockit.

## Java 2 Standard Edition™ (J2SE™) Compatibility

BEA JRockit 5.0 is certified by Sun Microsystems, Inc. to be compatible with Java 2 Standard Edition (J2SE), version 5.0.

The JRE class files that are distributed with JRockit come directly from Sun except for a small number, which are tightly coupled to the JVM and are therefore overridden in BEA JRockit. The

class files that are overridden are in the `java.lang`, `java.io`, `java.net` and `java.util` packages. There are no omitted classes. For procedures on installing the JRE only, please refer to Installing the BEA JRockit JRE.

# Platform Support

For a complete list of supported platforms, please go to:

`http://e-docs.bea.com/wljrockit/docs50/certif.html`

# Important Note on JDK Version Numbering in this Guide

*Installing BEA JRockit JDK* describes how to install BEA JRockit JDK 5.0 Service Pack 2 with 1.5.0_03 class libraries. After step 1 in Installing the JDK, below, the JDK version will be referenced throughout this guide as `1.5.0_<version>`; for example, instead of `jrockit-jdk1.5.0_03`, you will see `jrockit-jdk1.5.0_<version>`. As you use this guide, please assume that `<version>` refers to `03`.

# Installing and Uninstalling BEA JRockit JDK

This section explains how to install and uninstall a standalone version of BEA JRockit 5.0 JDK for Windows 2000, Windows 2003, and Windows Server 2003 EE and on the Red Hat Linux 32-bit and 64-bit platforms from a GUI.

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

`JAVAHOME/.systemPrefs, where JAVAHOME=<JDK_INSTALLDIR>/jre or <JRE_INSTALLDIR>`

Alternatively, a root user may use the installer option `-Djava.util.prefs.SystemRoot.location=system`, changing the location for system prefs to:

`/etc/.java/.systemPrefs`

`-Djava.util.prefs.SystemRoot.location=javahome` is the default if not specified.

## Installing the JDK

**Note:** The following procedure assumes that you have already downloaded the appropriate version of BEA JRockit JDK for your operating system.

To install BEA JRockit JDK, do the following:

1. On you local drive, locate the executable file for the version of BEA JRockit JDK you want to install:
   - `jrockit-jdk1.5.0_03-win-ia32.exe` for Windows 2000 and Windows 2003
   - `jrockit-jdk1.5.0_03-win-ipf.exe` for Windows 2003 Server EE
   - `jrockit-jdk1.5.0_03-linux-ia32.bin` for supported Linux 32-bit versions
   - `jrockit-jdk1.5.0_03-linux-ipf.bin` for supported Linux 64-bit Itanium versions
   - `jrockit-jre1.5.0_03-linux-x64.bin` for supported Linux 64-bit (Intel EM64T and compatible) versions

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

2. In your file management system (for example, Windows Explorer) double-click the filename or icon.

   If you are using a Linux terminal, type `./jrockit-jdk1.5.0_<version>-linux-ia32.bin`.

   The install process begins and the BEA installer window appears, followed shortly thereafter by the Welcome window.

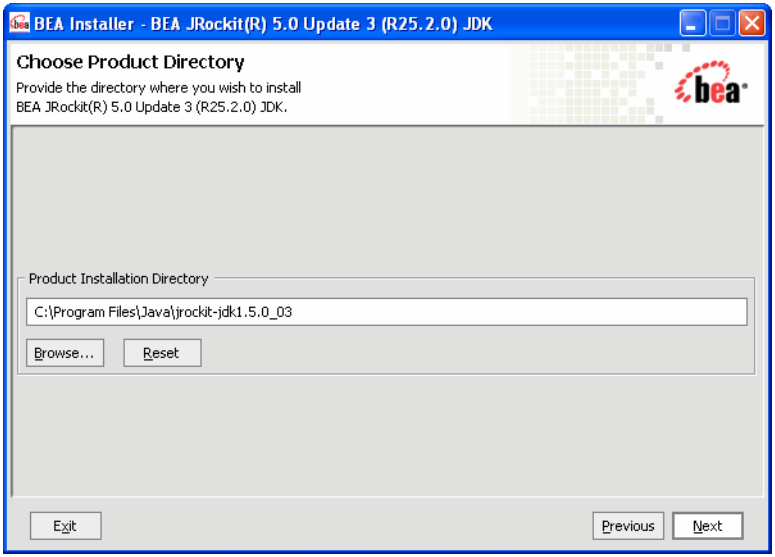
3. Click **Next**.

   The BEA License Agreement window appears.

4. Select **Yes** and click **Next**.

   The Choose Product Directory window appears.

**Figure 1-1 Choose Product Directory Window**




5. Select a product directory as described in Table 1-1.

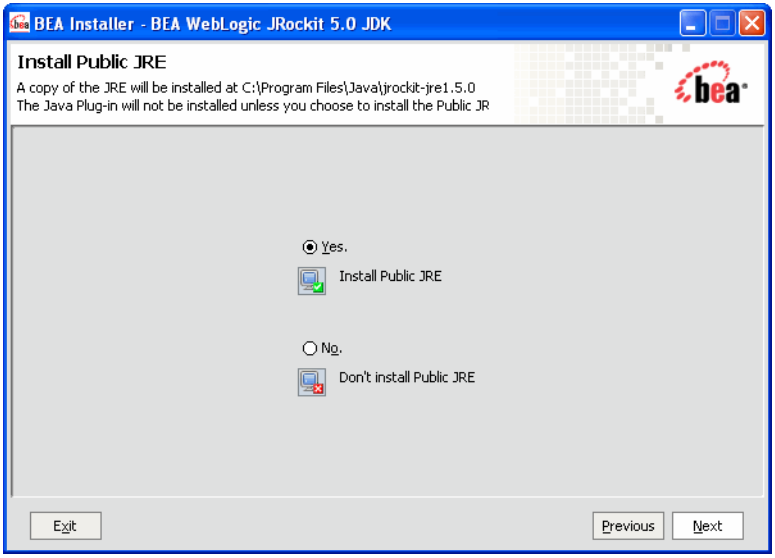
**Table 1-1 Selecting a Product Directory**

| If you want to... | Do this... |
|---|---|
| Select a default product directory | Continue the installation or, if you have changed the directory, click Reset to return to the default directory. |
| Create a new product directory | Either:<br>• Type the name of the new directory (full path) in the text box.<br>or<br>• Click the Browse button to display a directory tree and navigate to and select the appropriate directory. |

6. Click **Next**. If you are installing JRockit on other platforms than Windows 2000 and Windows 2003, please proceed to step 10. in "Installing the JDK".

   If installing on Windows 2000 or Windows 2003, the Install Public JRE window appears (Figure 1-2), prompting you to install or not install the public JRE (see "Java Runtime Environment (JRE)" for more information about the JRE).

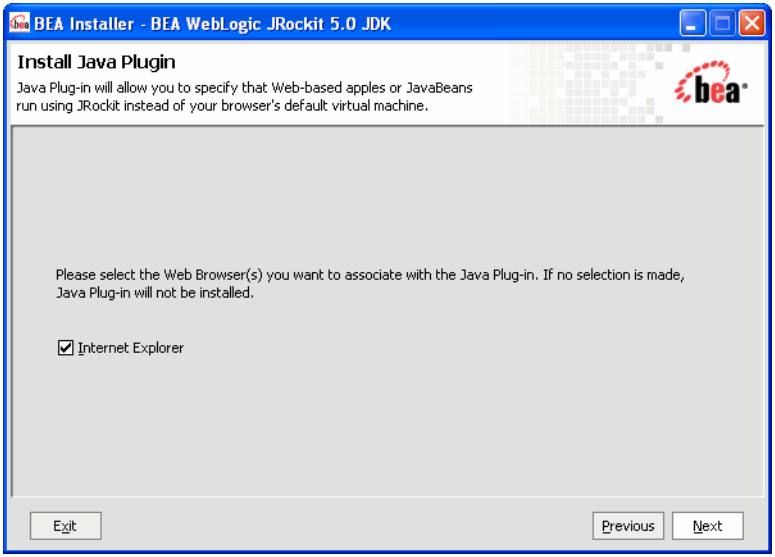
**Figure 1-2 Install Public JRE Window (only visible for Windows 2000 and 2003)**




7. Do one of the following:
   - To install the Public JRE, click **Yes** Install Public JRE
   - To omit the public JRE, click **No** Don't Install Public JRE
8. Click **Next**.

   The Install Java Plug-in window appears (Figure 1-3).The Java Plug-in extends the functionality of a web browser. For more information on the Plug-in, please refer to "Using the Java Plug-in."

**Figure 1-3 Install Java Plugin Window**

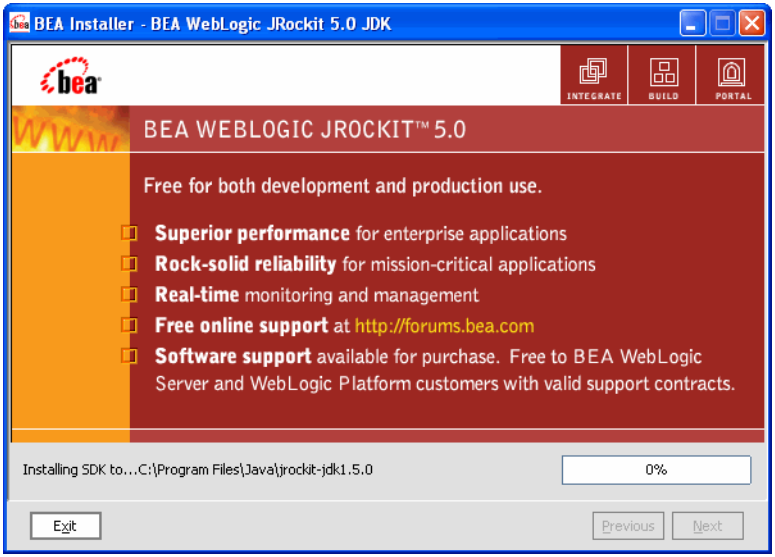



9. Select the browser(s) you want to associate with the Java Plug-in and click **Next**. This screen will only list the browsers installed on your computer and the screen only appears on Windows platforms.

10. Click **Next**.

    The install splash screen appears and the installation process continues, as indicated on the progress meter in the lower right corner of the window (Figure ).

**Figure 1-4 Install Splash Screen with Progress Meter**




When the installation is complete, the Installation Complete screen appears.

11. Click **Done**.

BEA JRockit JDK is now installed. To use JRockit, you need to add it to your path.

**On Linux use this command:**

```
export PATH=<your_install_dir>/bin:$PATH
```

Replace `<your_install_dir>` with the absolute path of the directory where you installed jrockit. The command could look like the following example:

```
export PATH=/home/user/jrockit-jdk1.5.0_<version>/bin:$PATH
```

**On Window use this command:**

```
set PATH=c:\Program Files\Java\jrockit-jdk1.5.0_<version>\bin;%PATH%
```

# Uninstalling the JDK

This section describes how to uninstall both Windows and Linux versions of BEA JRockit JDK

## Uninstalling Windows Versions

To uninstall BEA JRockit JDK, do the following:

1. Click **Start** and open the Programs menu.
2. Select BEA JRockit 5.0 JDK>Uninstall JRockit 5.0 JDK.

   The Uninstall confirmation message box appears.
3. Click **OK**.
   - The Uninstalling BEA JRockit JDK screen appears and the uninstall process commences.
4. Click **OK**.

This removes the JDK from your computer.

### Uninstalling Windows Versions from the Command Line

Run the following command from a console window:

`%systemroot%\Installer\BEA\JRockit_JDK_1.5.0_<version>\uninstall.exe`

### Uninstalling Linux Versions

To uninstall Linux 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-jdk1.5.0_<version>`

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

This removes the JDK 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 both Windows and Linux 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 theWin-ia32 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-jdk1.5.0_<version>-win-ia32.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 though the installation, replicating in text the option GUIs 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 5.0 in the console mode. Instead, use the method described in Uninstalling Windows Versions.

## Installing Linux Versions in Console Mode

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

**Note:** If you install the JDK on Linux 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-jdk1.5.0_<version>-linux`*`xx`*`.bin -mode=console`

   (where *xx* is your machine type, either 32 or 64; 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 though the installation, replicating in text the option GUIs described in Installing and Uninstalling BEA JRockit JDK.

### Uninstalling Linux Versions in Console Mode

You cannot uninstall Linux versions of BEA JRockit 5.0 in the console mode. Instead, use the method described in Uninstalling Linux Versions.

## 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 Server 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, and which browser(s) you want to associate with the Java Plugin. Listing 1-1 shows an example of a typical silent.xml file.

**Listing 1-1 Typical 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-jdk1.5.0_03\bin" />
   <!--
      Install Public JRE
        This option is available in Win32 JDK installer
   -->

   <data-value name="INSTALL_PUBLIC_JRE" value="true" />
   <!--
      Install Java plugin for Internet Explorer (IE)
        if Internet Explorer is installed on the system.
        This option is available in Win32 JRE installer.
        It also works in Win32 JDK installer, but the
```

```
        INSTALL_PUBLIC_JRE option must be "true"
    -->

  <data-value name="REGISTER_PLUGIN_WITH_IE" value="true" />

  <!--
     Install Java plugin with Netscape and Mozilla web browsers
       if Netscape and Mozilla are installed on the system.
       This option is available in Win32 JRE installer.
       It also works in Win32 JDK installer, but the
       INSTALL_PUBLIC_JRE option must be "true"
  -->

  <data-value name="REGISTER_PLUGIN_WITH_NS_AND_MOZILLA" value="true" />
```

# Installing and Uninstalling Windows Versions in Silent Mode

These procedures apply to supported Windows 32-bit and 64-bit platforms. See BEA JRockit JDK Platform Support for a list of supported Windows 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\):

**For win-ia32:**

```
>jrockit-jdk1.5.0_<version>-win-ia32.exe -mode=silent
-silent_xml="D:\Works\silent.xml"
```

**For win-ipf:**

```
>jrockit-jdk1.5.0_<version>-win-ipf.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 5.0 JDK on 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 5.0 JRE on 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 5.0 in silent mode. Instead, use the method described in Uninstalling Windows Versions.

## Installing Linux Versions in silent mode

**Note:** These procedures apply to supported Linux 32-bit and 64-bit platforms. See BEA JRockit JDK Platform Support for a list of supported Linux platforms.

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

**For linux-ia32:**

```
>jrockit-jdk1.5.0_<version>-linux-ia32.bin -mode=silent -silent_xml="/localhom
e/works/silent.xml"
```

**For linux-ipf:**

```
>jrockit-jdk1.5.0_<version>-linux-ipf.bin -mode=silent -silent_xml="/localhome
/works/.xml"
```

**For Linux x64 (Intel EM64T and compatible):**

```
jrockit-jre1.5.0_<version>-linux-x64.bin
-mode=silent -silent_xml="/localhome/works/.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 5.0.

**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 Versions in Silent Mode

You cannot uninstall Linux versions of BEA JRockit 5.0 in silent mode. Instead, use the method described in Uninstalling Linux Versions.

## Using the Linux man Pages

The Linux version of BEA JRockit 5.0 JDK and BEA JRockit 5.0 JRE now ships with tools documentation on "man" (manual) pages. Most tools in `<installdir>/bin` has a man page.

English man pages are located in `<installdir>/man1` and Japanese man pages are located in `<installdir>/ja/man1`.

If you have the BEA JRockit JDK as your default JDK, i.e. updated `PATH` as in the following example:

`export PATH=/home/user/jrockit-jdk1.5.0_<version>/bin:$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 the JRockit Java 2 Runtime Environment into a system-wide location such as `/usr/local`, you must first become the root in order to gain the necessary permissions. If you do not have root access, simply install the JRockit Java 2 Runtime Environment into your home directory or a subdirectory to which you have permission to write.

CHAPTER 2

# Installing the BEA JRockit JRE

The BEA JRockit 5.0 JVM is a component of Java Runtime Environment (JRE) included in the BEA JRockit 5.0 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
- Important Note on JDK Version Numbering in this Guide
- Uninstalling the JRE
- Console and Silent Mode Installation and Uninstallation


## Important Note on JDK Version Numbering in this Guide

*Installing BEA JRockit JRE* describes how to install BEA JRockit JRE 5.0 Service Pack 2 with 1.5.0_03 class libraries. After step 1 in Installing the JRE, below, the class libraries version will be referenced throughout this guide as `1.5.0_<version>`; for example, instead of `jrockit-jdk1.5.0_03`, you will see `jrockit-jdk1.5.0_<version>`. As you use this guide, please assume that `<version>` refers to `03`.

## Installing the JRE

To install the JRE, do the following:

1. On your local drive, locate the JRE version executable file that matches your machine and operating system:
   - `jrockit-jre1.5.0_03-win-ia32.exe` for Windows 2000 and Windows 2003
   - `jrockit-jre1.5.0_03-win-ipf.exe` for Windows 2003 Server EE
   - `jrockit-jre1.5.0_03-linux-ia32.bin` for supported Linux 32-bit versions
   - `jrockit-jre1.5.0_03-linux-ipf.bin` for supported Linux 64-bit Itanium versions
   - `jrockit-jre1.5.0_03-linux-x64.bin` for supported Linux 64-bit (Intel EM64T and compatible) versions

     **Note:** If you install the JRE on Linux by using the `.bin file`, you need to ensure the file is executable. You can use `chmod +x <filename>` to make the file executable.
2. Double-click the appropriate file name.

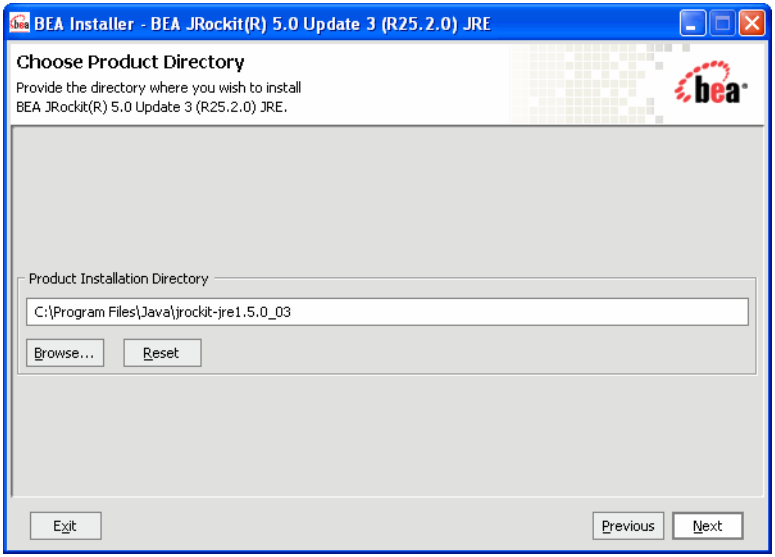
   The install process begins and the BEA installer window appears, followed shortly thereafter by the Welcome window.
3. Click **Next**.

   The BEA License Agreement window appears.
4. Select **Yes** and click **Next**.

   **Note:** Selecting No will abort the installation process.

   The Choose Product Directory window appears.

**Figure 2-1 Product Directory Window for JRE Install**



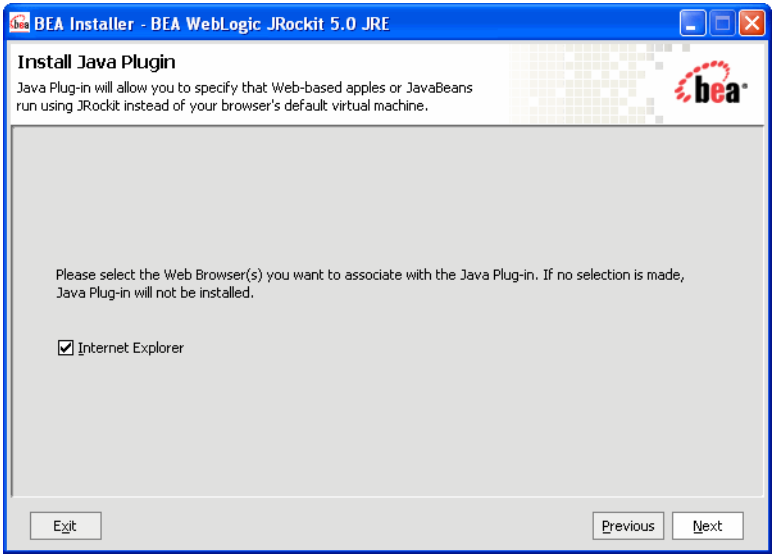

5. Do one of the following:
   - Select the default directory provided.
   - Type a new directory name into the Product Installation Directory field
   - Click Browse to open the Product Directory Selection window and select an existing directory.
6. Click **Next**.

   If you are installing an IA32 version of BEA JRockit JRE, the Install Java Plug-in window appears (Figure 2-2).The Java Plug-in extends the functionality of a web browser. For more information on the Plug-in, please refer to "Using the Java Plug-in."

   **Note:** The Java Plugin is available only on IA32 systems (Windows and Linux). This screen will not appear if you are installing an IA64 version. Proceed to step 8.

   For more information on the Plug-in, please refer to "Using the Java Plug-in."

**Figure 2-2 Install Java Plugin Window**




7. Select the browser(s) you want to associate with the Java Plug-in and click **Next**.

   The installation process begins and the installer window appears, showing a progress meter in the lower right corner of the window, as shown in Figure 2-3.

**Figure 2-3 Installer Window with Progress Meter**

When the installation is successfully completed, the Installation Completer window appears with that message.

8. Click **Done**.

   The installer window closes and JRE installation process is complete.

# Uninstalling the JRE

To uninstall the JRE, see Uninstalling the JDK for instructions on how to perform the unistallation. 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.