BEA WebLogic Platform™

8.1 Supported Configurations: HP-UX 11.0, 11i on PA-RISC

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CHAPTER 1

HP-UX 11.0, 11i on PA-RISC with 8.1 SP6

BEA also supports WebLogic Integration 8.5 SP6 on this configuration.

Product Components Supported on this Configuration

	WebLogic Server	WebLogic Workshop	WebLogic Integration	WebLogic Portal
Run-time	✓	✓	✓	✓
Design/Dev Tools*	✓	✗	✗	✗

* For design and development tools support, see the "Configuration Requirements" section below.

✓ Supported
✗ Not supported

This section provides the following information:

- Related Information
- Configuration Requirements
- Known Issues
- WebLogic Platform 8.1 SP6 Installation Instructions

Related Information

- For information about supported database configurations, Web servers, and browsers, plus support for interoperability tools and WebLogic Platform product support information, see *WebLogic Platform 8.1 Supported Configurations.*
- For details about HP-UX 11.0 and 11i, visit HP's Web site: `http://www.hp.com`.

Configuration Requirements

Table 1-1 Requirements for 8.1 SP6 on HP-UX 11.0, 11i on PA-RISC

Operating System Version and Patches	HP-UX 11.0 and HP-UX 11i with required HP-UX patches for Java™, see http://www.hp.com/products1/unix/java/patches/index.html.	
Chip Architecture and Minimum Processor Speed	PA-RISC (240 MHz)	
SDK	HP-UX SDK 1.4.2.10 with Java HotSpot™ Server VM (32-bit)	WebLogic Platform 8.1 SP6 supports HP SDK 1.4.2.10 and all later SDK 1.4.2 service packs for development and production deployment on HP-UX.
Design and Development Tools	The WebLogic Workshop IDE and WebLogic Integration Format Builder are not supported on this system. This system is supported for the production deployment of applications developed in the WebLogic Workshop IDE, and for remote debugging of applications developed in the WebLogic Workshop IDE. This system is also supported for the development and production deployment of WebLogic Server applications developed with other tools.	
RAM	512 MB required; 1 GB recommended	
Performance Pack	Included	`lib/hpux11/libmuxer.sl`
Node Manager	Included	Native
BEA jDrivers for Oracle	**For this Oracle client version:**	**The following shared libraries are provided:**
	Oracle 9.2.0.5 and later patch sets	• `lib/hpux11/oci920_8/libweblogicoci39.sl` • `lib/hpux11/oci920_8/libweblogicoxa39.sl`

Known Issues

1. The HP-UX 11.0 default value for maximum threads per process is 64, which may be too low for WebLogic Server and many Java server applications in general. When the value is too low, WebLogic Server may have problems starting up.

   BEA recommends that you use the maximum kernel setting for the `max_thread_proc` and `maxusers` parameters. Setting `maxusers` to a higher value increases other machine-wide limits, such as `nkthread` (the maximum number of kernel threads). The following table provides some examples.

Parameter	Old Value	New Value	Description
`max_thread_proc`	64	1024	Maximum threads per process
`maxfiles`	60	256	Soft file limit per process
`maxusers`	32	256	Influences other parameters
`nkthread`	499	3635	Number of threads total on the system
`nproc`	276	2068	Maximum number of processes
`ncallout`	292	2084	Number of pending timeouts

2. If you upgrade from 8.1 SP4 or SP5 to 8.1 SP6 by using SmartUpdate or the Upgrade Installer on an HP-UX 11.0 or 11i on PA-RISC configuration, and then try to use the same tool to downgrade from 8.1 SP6 to 8.1 SP5 or SP4, the downgrade attempt may fail. BEA recommends that you set the `maxdsiz` kernel parameter to a minimum value of 1GB.

For more information about known issues with any components of this release, see the appropriate *Release Notes* document. For a complete list of *Release Notes* supporting WebLogic Platform 8.1, see:

`http://e-docs.bea.com/platform/docs81/interm/relnotes.html`

WebLogic Platform 8.1 SP6 Installation Instructions

To install WebLogic Platform 8.1 SP6 on HP 11.0 and 11i on PA-RISC:

1. Go to the BEA Downloads site (`http://commerce.bea.com`) and download the appropriate package installer:

- For WebLogic Platform: `platform816_hpux32.bin`
- For WebLogic Server: `server816_hpux32.bin`

2. Install WebLogic Platform or WebLogic Server following the instructions provided in the Starting Graphical-Mode Installation for .bin Installation Files section of *Installing WebLogic Platform*.

   For more information on installing WebLogic Platform or WebLogic Server, refer to Installing WebLogic Platform.

CHAPTER 2

HP-UX 11.0, 11i on PA-RISC with 8.1 SP5

BEA also supports WebLogic Integration 8.5 SP5 on this configuration.

Product Components Supported on this Configuration

	WebLogic Server	WebLogic Workshop	WebLogic Integration	WebLogic Portal
Run-time	✓	✓	✓	✓
Design/Dev Tools*	✓	✗	✗	✗

* For design and development tools support, see the "Configuration Requirements" section below.

✓ Supported
✗ Not supported

This section provides the following information:

- Configuration Requirements
- Known Issues

Related Information

- For information about supported database configurations, Web servers, and browsers, plus support for interoperability tools and WebLogic Platform product support information, see *WebLogic Platform 8.1 Supported Configurations.*
- For details about HP-UX 11.0 and 11i, visit HP's Web site: `http://www.hp.com`.

Configuration Requirements

Table 2-1 Requirements for 8.1 SP5 on HP-UX 11.0, 11i on PA-RISC

Operating System Version and Patches	HP-UX 11.0 and HP-UX 11i with required HP-UX patches for Java™, see http://www.hp.com/products1/unix/java/patches/index.html.	
Chip Architecture and Minimum Processor Speed	PA-RISC (240 MHz)	
SDK	HP-UX SDK 1.4.2.08 with Java HotSpot™ Server VM (32-bit)	WebLogic Platform 8.1 SP5 supports HP SDK 1.4.2.08 and all later SDK 1.4.2 service packs for development and production deployment on HP-UX.
Design and Development Tools	The WebLogic Workshop IDE and WebLogic Integration Format Builder are not supported on this system. This system is supported for the production deployment of applications developed in the WebLogic Workshop IDE, and for remote debugging of applications developed in the WebLogic Workshop IDE. This system is also supported for the development and production deployment of WebLogic Server applications developed with other tools.	
RAM	512 MB required; 1 GB recommended	
Performance Pack	Included	`lib/hpux11/libmuxer.sl`
Node Manager	Included	Native
BEA jDrivers for Oracle	**For this Oracle client version:**	**The following shared libraries are provided:**
	Oracle 9.2.0.5 and later patch sets	• `lib/hpux11/oci920_8/libweblogicoci39.sl` • `lib/hpux11/oci920_8/libweblogicoxa39.sl`

Known Issues

- The HP-UX 11.0 default value for maximum threads per process is 64, which may be too low for WebLogic Server and many Java server applications in general. When the value is too low, WebLogic Server may have problems starting up.

  BEA recommends that you use the maximum kernel setting for the `max_thread_proc` and `maxusers` parameters. Setting `maxusers` to a higher value increases other machine-wide limits, such as `nkthread` (the maximum number of kernel threads). The following table provides some examples.

Parameter	Old Value	New Value	Description
`max_thread_proc`	64	1024	Maximum threads per process
`maxfiles`	60	256	Soft file limit per process
`maxusers`	32	256	Influences other parameters
`nkthread`	499	3635	Number of threads total on the system
`nproc`	276	2068	Maximum number of processes
`ncallout`	292	2084	Number of pending timeouts

- If you upgrade from 8.1 SP4 to 8.1 SP5 by using SmartUpdate or the Upgrade Installer on an HP-UX 11.0 or 11i on PA-RISC configuration, and then try to use the same tool to downgrade from 8.1 SP5 to 8.1 SP4, the downgrade attempt may fail. BEA recommends that you set the `maxdsiz` kernel parameter to a minimum value of 1GB.

For more information about known issues with any components of this release, see the appropriate *Release Notes* document. For a complete list of *Release Notes* supporting WebLogic Platform 8.1, see:

`http://e-docs.bea.com/platform/docs81/interm/relnotes.html`

CHAPTER 3

HP-UX 11.0, 11i on PA-RISC with 8.1 SP4

BEA also supports WebLogic Integration 8.5 on this configuration.

Product Components Supported on this Configuration

	WebLogic Server	WebLogic Workshop	WebLogic Integration	WebLogic Portal
Run-time	✓	✓	✓	✓
Design/Dev Tools*	✓	✗	✗	✗

* For design and development tools support, see the "Configuration Requirements" section below.

✓ Supported
✗ Not supported

This section provides the following information:

- Configuration Requirements
- Known Issues

Related Information

- For information about supported database configurations, Web servers, and browsers, plus support for interoperability tools and WebLogic Platform product support information, see *WebLogic Platform 8.1 Supported Configurations.*
- For details about HP-UX 11.0 and 11i, visit HP's Web site: `http://www.hp.com`.

Configuration Requirements

Table 3-1 Requirements for 8.1 SP4 on HP-UX 11.0, 11i on PA-RISC

Operating System Version and Patches	HP-UX 11.0 and 11i with required HP-UX patches for Java™, see http://www.hp.com/products1/unix/java/patches/index.html.	
Chip Architecture and Minimum Processor Speed	PA-RISC (240 MHz)	
SDK	HP-UX SDK 1.4.2.05 with Java HotSpot™ Server VM (32-bit)	WebLogic Platform 8.1 SP4 supports HP SDK 1.4.2.05 and all later SDK 1.4.2 service packs for development and production deployment on HP-UX.
Design and Development Tools	The WebLogic Workshop IDE and WebLogic Integration Format Builder are not supported on this system. This system is supported for the production deployment of applications developed in the WebLogic Workshop IDE, and for remote debugging of applications developed in the WebLogic Workshop IDE. This system is also supported for the development and production deployment of WebLogic Server applications developed with other tools.	
RAM	512 MB required; 1 GB recommended	
Performance Pack	Included	`lib/hpux11/libmuxer.sl`
Node Manager	Included	Native
BEA jDrivers for Oracle	**For this Oracle client version:**	**The following shared libraries are provided:**
	Oracle 9.2.0.4 and later patch sets	• `lib/hpux11/oci920_8/libweblogicoci39.sl` • `lib/hpux11/oci920_8/libweblogicoxa39.sl`
	Oracle 8.1.7.4 and later patch sets	• `lib/hpux11/oci817_8/libweblogicoci39.sl` • `lib/hpux11/oci817_8/libweblogicoxa39.sl`

Known Issues

- The HP-UX 11.0 default value for maximum threads per process is 64, which may be too low for WebLogic Server and many Java server applications in general. When the value is too low, WebLogic Server may have problems starting up.

  BEA recommends that you use the maximum kernel setting for the `max_thread_proc` and `maxusers` parameters. Setting `maxusers` to a higher value increases other machine-wide limits, such as `nkthread` (the maximum number of kernel threads). The following table provides some examples.

Parameter	Old Value	New Value	Description
`max_thread_proc`	64	1024	Maximum threads per process
`maxfiles`	60	256	Soft file limit per process
`maxusers`	32	256	Influences other parameters
`nkthread`	499	3635	Number of threads total on the system
`nproc`	276	2068	Maximum number of processes
`ncallout`	292	2084	Number of pending timeouts

- If you upgrade from 8.1 SP3 to 8.1 SP4 by using SmartUpdate or the Upgrade Installer on an HP-UX 11.0 or 11i on PA-RISC configuration, and then try to use the same tool to downgrade from 8.1 SP4 to 8.1 SP3, the downgrade attempt may fail.

  BEA recommends that you set the `maxdsiz` kernel parameter to a minimum value of 2 GB.

For more information about known issues with any components of this release, see the appropriate *Release Notes* document. For a complete list of *Release Notes* supporting WebLogic Platform 8.1, see:

`http://e-docs.bea.com/platform/docs81/interm/relnotes.html`

HP-UX 11.0, 11i on PA-RISC with 8.1 SP3

Product Components Supported on this Configuration

	WebLogic Server	WebLogic Workshop	WebLogic Integration	WebLogic Portal
Run-time	✓	✓	✓	✓
Design/Dev Tools*	✓	✗	✗	✗

* For design and development tools support, see the "Configuration Requirements" section below.

✓ Supported
✗ Not supported

This section provides the following information:

- Configuration Requirements
- Known Issues

Related Information

- For information about supported database configurations, Web servers, and browsers, plus support for interoperability tools and WebLogic Platform product support information, see *WebLogic Platform 8.1 Supported Configurations.*
- For details about HP-UX 11.0 and 11i, visit HP's Web site: `http://www.hp.com`.

Configuration Requirements

Table 4-1 Requirements for 8.1 SP3 on HP-UX 11.0, 11i on PA-RISC

Operating System Version and Patches	HP-UX 11.0 and 11i with required HP-UX patches for Java™, see http://www.hp.com/products1/unix/java/patches/index.html.	
Chip Architecture and Minimum Processor Speed	PA-RISC (240 MHz)	
SDK	HP-UX SDK 1.4.2.03 with Java HotSpot™ Server VM (32-bit)	WebLogic Platform 8.1 SP3 supports HP SDK 1.4.2.03 and all later SDK 1.4.2 service packs for development and production deployment on HP-UX.
Design and Development Tools	The WebLogic Workshop IDE and WebLogic Integration Format Builder are not supported on this system. This system is supported for the production deployment of applications developed in the WebLogic Workshop IDE, and for remote debugging of applications developed in the WebLogic Workshop IDE. This system is also supported for the development and production deployment of WebLogic Server applications developed with other tools.	
RAM	512 MB required; 1 GB recommended	
Performance Pack	Included	`lib/hpux11/libmuxer.sl`
Node Manager	Included	Native
BEA jDrivers for Oracle	**For this Oracle client version:**	**The following shared libraries are provided:**
	Oracle 8.1.7.4	• `lib/hpux11/oci817_8/libweblogicoci39.sl` • `lib/hpux11/oci817_8/libweblogicoxa39.sl`
	Oracle 9.2.0.4	• `lib/hpux11/oci920_8/libweblogicoci39.sl` • `lib/hpux11/oci920_8/libweblogicoxa39.sl`

Known Issues

The HP-UX 11.0 default value for maximum threads per process is 64, which may be too low for WebLogic Server and many Java server applications in general. When the value is too low, WebLogic Server may have problems starting up.

BEA recommends that you use the maximum kernel setting for the `max_thread_proc` and `maxusers` parameters. Setting `maxusers` to a higher value increases other machine-wide limits, such as `nkthread` (the maximum number of kernel threads). The following table provides some examples.

Parameter	Old Value	New Value	Description
`max_thread_proc`	64	1024	Maximum threads per process
`maxfiles`	60	256	Soft file limit per process
`maxusers`	32	256	Influences other parameters
`nkthread`	499	3635	Number of threads total on the system
`nproc`	276	2068	Maximum number of processes
`ncallout`	292	2084	Number of pending timeouts

For more information about known issues with any components of this release, see the appropriate *Release Notes* document. For a complete list of *Release Notes* supporting WebLogic Platform 8.1, see:

`http://e-docs.bea.com/platform/docs81/interm/relnotes.html`

HP-UX 11.0, 11i on PA-RISC with 8.1 SP2

Product Components Supported on this Configuration

	WebLogic Server	WebLogic Workshop	WebLogic Integration	WebLogic Portal
Run-time	✓	✓	✓	✓
Design/Dev Tools*	✓	✗	✗	✗

* For design and development tools support, see the "Configuration Requirements" section below.

✓ Supported
✗ Not supported

This section provides the following information:

- Configuration Requirements
- Known Issues
- Download and Installation Instructions

Related Information

- For information about supported database configurations, Web servers, and browsers, plus support for interoperability tools and WebLogic Platform product support information, see *WebLogic Platform 8.1 Supported Configurations.*
- For details about HP-UX 11.0 and 11i, visit HP's Web site: `http://www.hp.com`.

Configuration Requirements

Table 5-1 Requirements for 8.1 SP2 on HP-UX 11.0, 11i on PA-RISC

Operating System Version and Patches	HP-UX 11.0 and 11i with HP-UX patches for Java™, see http://www.hp.com/products1/unix/java/patches/index.html.	
Chip Architecture and Minimum Processor Speed	• PA-RISC (240 MHz) • PA-RISC2.OW (650 MHz)—Supported for use with 64-bit HP-UX SDK 1.4.2.01	
SDK	HP-UX SDK 1.4.1.05 with Java HotSpot™ Server VM	• WebLogic Platform 8.1 SP2 supports HP SDK 1.4.1.05 for development and production deployment on HP-UX. • The HP SDK 1.4.1.05 has a limitation with respect to the character sets used by the WebLogic Platform GUI tools, such as the WebLogic Portal Content Management Administration Tools. Therefore, if you want to use the GUI tools provided with WebLogic Platform, you must install the HP-UX SDK 1.4.1.06, which is available for download from the HP Web site. For download and installation instructions, see Known Issues.
	HP-UX SDK 1.4.2.01	• Supported on WebLogic Server 8.1 SP2 only at this time. • For instructions on downloading and installing this SDK, see "Download and Installation Instructions" on page 5-5.
	HP-UX SDK 1.4.2.02 and all later service packs of 1.4.2	• Supported on WebLogic Server 8.1 SP2 only at this time. • You can download this SDK from HP at: http://www.hp.com/products1/unix/java
Design and Development Tools	The WebLogic Workshop IDE and WebLogic Integration Format Builder are not supported on this system. This system is supported for the production deployment of applications developed in the WebLogic Workshop IDE, and for remote debugging of applications developed in the WebLogic Workshop IDE. This system is also supported for the development and production deployment of WebLogic Server applications developed with other tools.	
RAM	512 MB required; 1 GB recommended	

Table 5-1 Requirements for 8.1 SP2 on HP-UX 11.0, 11i on PA-RISC (Continued)

Performance Pack	Included	• For 32-bit SDK: `lib/hpux11/libmuxer.sl` • For 64-bit SDK: `lib/hpux11/PA_RISC2.0W/libmuxer.sl`
Node Manager	Included	Native
BEA jDrivers for Oracle	**For this Oracle client version:**	**The following shared libraries are provided:**
	Oracle 8.1.7.4	For 32-bit SDK: • `lib/hpux11/oci817_8/libweblogicoci39.sl` • `lib/hpux11/oci817_8/libweblogicoxa39.sl`
	Oracle 9.0.1.4	For 32-bit SDK: • `lib/hpux11/oci901_8/libweblogicoci39.sl` • `lib/hpux11/oci901_8/libweblogicoxa39.sl` For 64-bit SDK: • `lib/hpux11/PA_RISC2.0W/oci901_8/libweblogicoci39.sl` • `lib/hpux11/PA_RISC2.0W/oci901_8/libweblogicoxa39.sl`
	Oracle 9.2.0.3	For 32-bit SDK: • `lib/hpux11/oci920_8/libweblogicoci39.sl` • `lib/hpux11/oci920_8/libweblogicoxa39.sl` For 64-bit SDK: • `lib/hpux11/PA_RISC2.0W/oci920_8/libweblogicoci39.sl` • `lib/hpux11/PA_RISC2.0W/oci920_8/libweblogicoxa39.sl`

Known Issues

- There is a known issue (CR128912) in the character set in HP-UX SDK 1.4.1.05 and as a result, `Charset.availableCharsets()` always fails. If you use this code in your applications or if you use WebLogic Portal, install HP-UX 1.4.1.06 by completing the following procedure:

a. Download and install HP-UX SDK 1.4.1.06 from the following HP site:

   http://www.hp.com/products1/unix/java

   The SDK is installed, by default, in the following directory: `/opt/java1.4`

b. Rename the original SDK:

   ```
   mv $BEA_HOME/jdk141_05 $BEA_HOME/jdk141_05.orig
   ```

c. Create a symbolic link to the new SDK:

   ```
   ln -s /opt/java1.4 $BEA_HOME/jdk141_05
   ```

- There is a known issue (CR127188) with the HP HotSpot Virtual Machine that may cause a core dump when WebLogic Platform applications are run. This problem may affect some WebLogic Portal users.

  The recommended workaround is to exclude the method causing the core dump. In your `$JAVA_HOME/jre/lib/PA_RISC1.1/server` and `$JAVA_HOME/jre/lib/PA_RISC2.0/server` directories, create a `.hotspot_compiler` file that contains the following:

  ```
  exclude javelin/threading/WorkItem ensureComplete
  ```

- The HP-UX 11.0 default value for maximum threads per process is 64, which may be too low for WebLogic Server and many Java server applications in general. When the value is too low, WebLogic Server may have problems starting up.

  BEA recommends that you use the maximum kernel setting for the `max_thread_proc` and `maxusers` parameters. Setting `maxusers` to a higher value increases other machine-wide limits, such as `nkthread` (the maximum number of kernel threads). The following table provides some examples.

Parameter	Old Value	New Value	Description
`max_thread_proc`	64	1024	Maximum threads per process
`maxfiles`	60	256	Soft file limit per process
`maxusers`	32	256	Influences other parameters
`nkthread`	499	3635	Number of threads total on the system
`nproc`	276	2068	Maximum number of processes
`ncallout`	292	2084	Number of pending timeouts

- When you use `libmuxer.sl` (the WebLogic Server pollmuxer), you may see an error in the log file caused by a client reset. Such an error looks similar to the following:

```
java.net.SocketException: Error in poll for fd=33, revents=at
weblogic.socket.PosixSocketMuxer.processSockets(PosixSocketMuxer.java:128
```

This condition is harmless; you can ignore it.

For more information about known issues with any components of this release, see the appropriate *Release Notes* document. For a complete list of *Release Notes* supporting WebLogic Platform 8.1, see:

http://e-docs.bea.com/platform/docs81/interm/relnotes.html

Download and Installation Instructions

If you want to run the 64-bit HP-UX SDK 1.4.2.01 on HP-UX 11.0 or 11i, your configuration must be built on the PA-RISC2.OW chip architecture, including a supplemental pack for this architecture. To set up a configuration with these components, complete the following procedure:

1. Go to the HP Web site (www.hp.com) and download the HP-UX SDK 1.4.2.01.
2. Go to the BEA download site (http://commerce.bea.com) and download the following:
   - WebLogic Server 8.1 SP2 package installer for HP-UX 11 (PA-RISC)
   - Supplemental pack for HP-UX PA_RISC2.0W:
     `wls812_hpux11PA_RISC2.0W_supp.jar`
3. Install WebLogic Server 8.1 SP2.

   Now WebLogic Server is installed. Next, install the 64-bit PA_RISC2.0W native libraries on your system, by completing steps 4-8.
4. Export the `WL_HOME` variable to point to the WebLogic Server installation:

   ```
   $ export WL_HOME=/your_installation_directory/weblogic81
   ```
5. Go to `$WL_HOME/server/lib/hpux11`:

   ```
   $ cd $WL_HOME/server/lib/hpux11
   ```
6. Extract the contents of the supplemental pack JAR file:

   ```
   $ jar -xvf wls812_hpux11PA_RISC2.0W_supp.jar
   ```
7. Modify the environment variable `SHLIB_PATH` in the following shell scripts to point to the `lib/hpux11/PA_RISC2.0W` directory. Specifically, replace all occurrences of `${WL_HOME}/server/lib/hpux11` with `${WL_HOME}/server/lib/hpux11/PA_RISC2.0W)`:

```
${WL_HOME}/server/bin/startWLS.sh
${WL_HOME}/common/bin/commEnv.sh
```

8. Set the correct execution modes on the contents of the `weblogic81/server/bin` and `weblogic/server/lib` directories:

```
$ chmod +x $WL_HOME/server/bin/*
$ chmod -R +x $WL_HOME/server/lib/hpux11/*
```

Note: To execute the 64-bit SDK, you must include the `-d64` option on the `java` command line.

HP-UX 11.0, 11i on PA-RISC with WebLogic Platform 8.1

Product Components Supported on this Configuration

	WebLogic Server	WebLogic Workshop	WebLogic Integration	WebLogic Portal
Run-time	✓	✓	✓	✓
Design/Dev Tools*	✓	✗	✗	✗

* For design and development tools support, see the "Configuration Requirements" section below.

✓ Supported
✗ Not supported

Note: WebLogic Platform 8.1 includes WebLogic Server 8.1 Service Pack 1 (SP1).

This section provides the following information:

- Configuration Requirements
- Known Issues

Related Information

- For information about supported database configurations, Web servers, and browsers, plus support for interoperability tools and WebLogic Platform product support information, see *WebLogic Platform 8.1 Supported Configurations.*
- For details about HP-UX 11.0 and 11i, visit HP's Web site: `http://www.hp.com`

Configuration Requirements

Table 6-1 Requirements for WebLogic Platform 8.1 on HP-UX 11.0, 11i on PA-RISC

Operating System Version and Patches	HP-UX 11.0 and 11i with HP-UX patches for Java™. See http://www.hp.com/products1/unix/java/patches/index.html.	
Chip Architecture and Minimum Processor Speed	PA-RISC (240 MHz)	
SDK	HP-UX SDK 1.4.1.02 with Java HotSpot™ Server VM (32-bit)	HP-UX SDK is supported for development and production on HP-UX.
	HP-UX SDK 1.4.1.03 with Java HotSpot™ Server VM (32-bit)	Supported on WebLogic Server only.
Design and Development Tools	The WebLogic Workshop IDE and WebLogic Integration Format Builder are not supported on HP-UX. This system is supported for the production deployment of applications developed in the WebLogic Workshop IDE, and for remote debugging of applications developed in the WebLogic Workshop IDE. HP-UX is also supported for the development and production deployment of WebLogic Server applications developed with other tools.	
RAM	512 MB required; 1 GB recommended	
Performance Pack	Included	`lib/hpux11/libmuxer.sl`
Node Manager	Included	Native

Table 6-1 Requirements for WebLogic Platform 8.1 on HP-UX 11.0, 11i on PA-RISC (Continued)

BEA jDrivers for Oracle	For this Oracle client version:	The following shared libraries are provided:
	Oracle 8.1.7.4	• `lib/hpux11/oci817_8/libweblogicoci39.sl` • `lib/hpux11/oci817_8/libweblogicoxa39.sl`
	Oracle 9.0.1.4	• `lib/hpux11/oci901_8/libweblogicoci39.sl` • `lib/hpux11/oci901_8/libweblogicoxa39.sl`
	Oracle 9.2.0.3	• `lib/hpux11/oci920_8/libweblogicoci39.sl` • `lib/hpux11/oci920_8/libweblogicoxa39.sl`

Known Issues

- The HP-UX 11.0 default value for maximum threads per process is 64, which may be too low for WebLogic Server and many Java server applications in general. When the value is too low, WebLogic Server may have problems starting up.

  BEA recommends that you use the maximum kernel setting for the `max_thread_proc` and `maxusers` parameters. Setting `maxusers` to a higher value increases other machine-wide limits, such as `nkthread` (the maximum number of kernel threads). The following table provides some examples.

Parameter	Old Value	New Value	Description
`max_thread_proc`	64	1024	Maximum threads per process
`maxfiles`	60	256	Soft file limit per process
`maxusers`	32	256	Influences other parameters
`nkthread`	499	3635	Number of threads total on the system
`nproc`	276	2068	Maximum number of processes
`ncallout`	292	2084	Number of pending timeouts

- The `cacerts` file under `${BEA_HOME}/jdk141_01/jre/lib/security` is corrupt. For a new version, see HP's developer site. For demonstration purposes use the following file: `${WL_HOME}/server/lib/cacerts`.

- To avoid OutOfMemory exceptions or JVM crashes, increase the values of three Java options: `-Xms`, `-Xmx`, and `-XX:MaxPermSize`.

  The following values are suggested: `-Xms200m`, `-Xmx512m`, and `-XX:MaxPermSize=128m`.

For more information about known issues with any components of this release, see the appropriate *Release Notes* document. For a complete list of *Release Notes* supporting WebLogic Platform 8.1, see:

http://e-docs.bea.com/platform/docs81/interm/relnotes.html

HP-UX 11.0, 11i on PA-RISC with WebLogic Server 8.1

Product Components Supported on this Configuration

	WebLogic Server	WebLogic Workshop	WebLogic Integration	WebLogic Portal
Run-time	✓	✗	✗	✗
Design/Dev Tools*	✓	✗	✗	✗

* For design and development tools support, see the "Configuration Requirements" section below.

✓ Supported
✗ Not supported

This section provides the following information:

- Configuration Requirements
- Known Issues

Related Information

- For information about supported database configurations, Web servers, and browsers, plus support for interoperability tools and WebLogic Platform product support information, see *WebLogic Platform 8.1 Supported Configurations.*
- For details about HP-UX 11.0 and 11i, visit HP's Web site: `http://www.hp.com`.

Configuration Requirements

Table 7-1 Requirements for WebLogic Server 8.1 on HP-UX 11.0, 11i on PA-RISC

Operating System Version and Patches	HP-UX 11.0 and 11i with HP-UX patches for Java™. See http://www.hp.com/products1/unix/java/patches/index.html.	
Chip Architecture and Minimum Processor Speed	PA-RISC (240 MHz)	
SDK	HP-UX SDK 1.4.1.01 with Java HotSpot™ Server VM (32-bit)	WebLogic Server 8.1 supports HP-UX SDK 1.4.1.01 SDK and will support 1.4.1.02.
Design and Development Tools	Supports WebLogic Server development tools.	
RAM	512 MB required; 1 GB recommended	
Performance Pack	Included	`lib/hpux11/libmuxer.sl`
Node Manager	Included	Native
BEA jDrivers for Oracle	**For this Oracle client version:**	**The following shared libraries are provided:**
	Oracle 8.1.7.4	• `lib/hpux11/oci817_8/libweblogicoci39.sl` • `lib/hpux11/oci817_8/libweblogicoxa39.sl`
	Oracle 9.0.1.4	• `lib/hpux11/oci901_8/libweblogicoci39.sl` • `lib/hpux11/oci901_8/libweblogicoxa39.sl`
	Oracle 9.2.0.3	• `lib/hpux11/oci920_8/libweblogic39.sl` • `lib/hpux11/oci920_8/libweblogicoxa39.sl`

Known Issues

- The HP-UX 11.0 default value for maximum threads per process is 64, which may be too low for WebLogic Server and many Java server applications in general. When the value is too low, WebLogic Server may have problems starting up.

  BEA recommends that you use the maximum kernel setting for the `max_thread_proc` and `maxusers` parameters. Setting `maxusers` to a higher value increases other machine-wide limits, such as `nkthread` (the maximum number of kernel threads). The following table provides some examples.

Parameter	Old Value	New Value	Description
`max_thread_proc`	64	1024	Maximum threads per process
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`maxusers`	32	256	Influences other parameters
`nkthread`	499	3635	Number of threads total on the system
`nproc`	276	2068	Maximum number of processes
`ncallout`	292	2084	Number of pending timeouts

- When you start a server the following entry appears in the server log file:

  ```
  ####<Apr 25, 2003 4:04:13 PM EDT> <Critical> <EmbeddedLDAP> <mymach>
  <server1> <main> <<WLS Kernel>> <> <BEA-171517> <An error occurred
  while attempting to get exclusive access to the embedded LDAP data
  files directory - .//server1/ldap/ldapfiles. The exception thrown is
  java.io.IOException: Invalid argument.>
  ```

  This message is not critical; it is a known issue with the HP-UX SDK that should be fixed in HP-UX SDK 1.4.1.02.

- The `cacerts` file under `${BEA_HOME}/jdk141_01/jre/lib/security` is corrupt. For a new version, visit HP's developer site. For demonstration purposes use the following file: `${WL_HOME}/server/lib/cacerts`.

- To avoid OutOfMemory exceptions or JVM crashes, increase the values of three Java options: `-Xms`, `-Xmx`, and `-XX:MaxPermSize`.

  The following values are suggested: `-Xms200m`, `-Xmx512m`, and `-XX:MaxPermSize=128m`.

For more information about known issues with this release, see the WebLogic Server 8.1 *Release Notes*, available at:

http://e-docs.bea.com/wls/docs81/notes/index.html