



BEA WebLogic Platform™

**7.0 Supported
Configurations: HP-UX
11i on Itanium**

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HP-UX 11i V2 on Itanium with WebLogic Server 7.0 SP4

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 7.0 Supported Configurations](#).

- For details about HP-UX 11i, visit the following HP Web site:

<http://www.hp.com/products1/unix/operating/index.html>

Configuration Requirements

Table 1-1 Requirements for 7.0 SP4 on HP-UX 11i V2 on Itanium

Operating System Version and Patches	HP-UX 11i v2 with HP-UX patches for Java™. See http://www.hp.com/products1/unix/java/patches/index.html	
Chip Architecture and Minimum Processor Speed	Itanium	
SDK	HP-UX SDK 1.3.1.12 with Java HotSpot™ Server VM	
Design and Development Tools	Supports WebLogic Server development tools. For more information about WebLogic Platform design and development tools support, see “Supported Configurations for Design and Development Tools in Version 7.0 SP4” in <i>Supported Configurations for WebLogic Platform 7.0</i> .	
RAM	512 MB required; 1 GB recommended	
Disk Space	For any components of WebLogic Platform or for the full WebLogic Platform product, see Disk Space Requirements .	
Performance Pack	Included	hpux11/IPF32/libmuxer.so
Node Manager	Included	hpux11/IPF32/libNodeManager.so
BEA jDrivers for Oracle	For this Oracle client version:	The following shared libraries are provided:
	Oracle 9.2.0	<ul style="list-style-type: none">lib/hpux11/oci920_8/libweblogic38.sllib/hpux11/oci920_8/libweblogicoca38.sl

Known Issues

This section provides recommendations and workarounds for the following issues:

- [Maximum Threads Setting](#)
- [Maximum Kernel Setting](#)
- [QuickStart Does Not Invoke Netscape 4.7x](#)
- [Apache Server Hangs If ld and libld.sl Are Obsolete](#)

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 7.0, see:

<http://e-docs.bea.com/platform/docs70/interm/relnotes.html>

Maximum Threads Setting

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

Maximum Kernel Setting

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 shows recommendations for kernel configuration parameters.

Table 1-2 Recommended HP-UX 11.0 Kernel Settings

Parameter	Old Value	New Value	Description
<code>max_thread_proc</code>	64	1024	Maximum threads per process
<code>maxfiles</code>	60	256	Soft file limit per process
<code>maxusers</code>	32	256	Influences other parameters
<code>nkthread</code>	499	3635	Number of threads total on the system

Table 1-2 Recommended HP-UX 11.0 Kernel Settings

Parameter	Old Value	New Value	Description
nproc	276	2068	Maximum number of processes
ncallout	292	2084	Number of pending timeouts

QuickStart Does Not Invoke Netscape 4.7x

If, after launching QuickStart, you select a link, a dialog box might appear prompting you to choose a Web browser. Even if you select the correct Netscape browser, QuickStart may fail to start the application.

To resolve this problem, terminate QuickStart, unset the `LANG` environment variable (manually or by using a wrapper function), and restart the QuickStart application.

This problem is reported in CR082062.

Apache Server Hangs If ld and libdld.sl Are Obsolete

If the Apache server hangs when you are trying to use the BEA Apache plugin `mod_wl_20.so` on an HP-UX platform, then you are probably using an obsolete version of `ld` and/or `libdld.sl`. Apache binaries require the B.11.32 (or higher) version of `ld` and `libdld.sl`.

To determine which version of `ld` is installed on your system, complete the following procedure:

1. Enter: `ld -v`
2. Enter: `what /usr/lib/libdld.sl`

The version numbers of `ld` and `libdld.sl` are displayed.

- If both `ld` and `libdld.sl` have the same version number and that number is 11.32 or higher, then you are using the appropriate versions and you can quit this procedure; you are ready to run the `mod_wl_20.so` plugin.
 - If the version numbers for `ld` and `libdld.sl` do not match, or if the numbers match and that number is lower than 11.32, then you need to install an HP patch. For instructions, proceed to step 3.
3. Determine which patch you need for your system:
 - For an HP-UX 11.00 platform you need PHSS_26559.
 - For an HP-UX 11i (11.11) or higher platform, you need PHSS_26560.

4. Go to the appropriate IT Resource Center:
 - For the Americas and Asia Pacific: <http://us-support.external.hp.com>
 - For Europe: <http://europe-support.external.hp.com>
5. Under Maintenance/Support, click Individual Patches.
6. Scroll down to the following entry:

Retrieve a specific patch by entering the patch name
7. Enter the patch number in the input field.
8. Download and install the patch on your system.

Download and Installation Instructions

To install WebLogic Server 7.0 SP4 on a configuration of HP-UX 11.23 on Itanium, complete the following procedure:

1. Download HP-UX SDK1.3.1.12 from www.hp.com.
2. Install the SDK in your environment and configure your environment to support it:
 - Update the `JAVA_HOME` environment variable to reflect the SDK installation directory.
For example: `JAVA_HOME=/opt/java1.3; export JAVA_HOME`
 - Update the `PATH` environment variable to include `JAVA_HOME/bin`.
For example: `PATH=$JAVA_HOME/bin:$PATH; export PATH`
3. To download this platform:
 - a. Go to the BEA download site at <http://commerce.bea.com>.
 - b. Download WebLogic 7.0 SP4 for HP-UX 11.23.
4. Download the HP-UX (11i, v1.6) supplementary JAR file (`wls704_hpux1123_supp.jar`).
5. Install WebLogic Server 7.0 SP4. For standard installation instructions, see *BEA WebLogic Server and WebLogic Express Installation Guide*.
6. Export the `WL_HOME` variable to point to the WebLogic Server installation:


```
$ export WL_HOME=/your_installation_directory/weblogic700
```
7. Add `weblogic700/server/bin` to your execution path.

```
$ export PATH=$WL_HOME/server/bin:$PATH
```

8. Go to `$WL_HOME/server`:

```
$ cd $WL_HOME/server
```

9. Extract the contents of the `wls704_hpux1123_supp.jar` file:

```
$ jar -xvf wls704_hpux1123_supp.jar
```

This step overwrites some shell scripts and creates new directories for native libraries.

10. Replace all occurrences of `${WL_HOME}/server/lib/hpux11/oci817_8` with `${WL_HOME}/server/lib/hpux11/IPF32/oci920_8` in the following shell scripts:

- `${WL_HOME}/server/bin/startWLS.sh`
- `${WL_HOME}/server/bin/setWLSEnv.sh`
- `${WL_HOME}/server/bin/startNodeManager.sh`.

11. Modify the environment variable `SHLIB_PATH` in the following shell scripts so it points to the `IPF32` directory under `lib/hpux11`. Replace all occurrences of `${WL_HOME}/server/lib/hpux11` with `${WL_HOME}/server/lib/hpux11/IPF32`.

- `${WL_HOME}/server/bin/startWLS.sh`
- `${WL_HOME}/server/bin/setWLSEnv.sh`
- `${WL_HOME}/server/bin/startNodeManager.sh`

12. Modify the environment variable `JAVA_HOME` so it points to the SDK installed in step 1 in the following shell scripts:

- `${WL_HOME}/server/bin/startWLS.sh`
- `${WL_HOME}/server/bin/setWLSEnv.sh`
- `${WL_HOME}/server/bin/startNodeManager.sh`.

13. Set the correct execution modes on the contents of the `weblogic700/server/bin` and `weblogic700/server/lib` directories:

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

HP-UX 11i V1.6 on Itanium with WebLogic Server 7.0 SP1

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 7.0 Supported Configurations](#).

- For details about HP-UX, visit the following HP Web site:

<http://www.hp.com/products1/unix/operating/index.html>

Configuration Requirements

Table 2-1 Requirements for 7.0 SP1 on HP-UX 11i V1.6 on Itanium

Operating System Version and Patches	HP-UX 11i v1.6 with HP-UX patches for Java™. See http://www.hp.com/products1/unix/java/patches/index.html .	
Chip Architecture and Minimum Processor Speed	Itanium	
SDK	HP-UX SDK 1.3.1.06 through 1.3.1.09 with Java HotSpot™ Server VM	
Design and Development Tools	Supports WebLogic Server development tools. For more information about WebLogic Platform design and development tools support, see “Supported Configurations for Design and Development Tools in Version 7.0 SP1” in <i>Supported Configurations for WebLogic Platform 7.0</i> .	
RAM	512 MB required; 1 GB recommended	
Disk Space	For any components of WebLogic Platform or for the full WebLogic Platform product, see Disk Space Requirements .	
Performance Pack	Included	hpux11/IPF32/libmuxer.so
Node Manager	Included	hpux11/IPF32/libNodeManager.so
BEA jDrivers for Oracle	None	

Known Issues

This section provides recommendations and workarounds for the following issues:

- [Maximum Threads Setting](#)
- [Maximum Kernel Setting](#)
- [QuickStart Does Not Invoke Netscape 4.7x](#)
- [Apache Server Hangs If ld and libld.sl Are Obsolete](#)

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<http://e-docs.bea.com/platform/docs70/interm/relnotes.html>

Maximum Threads Setting

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

Maximum Kernel Setting

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 shows recommendations for kernel configuration parameters.

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<code>nkthread</code>	499	3635	Number of threads total on the system

Table 2-2 Recommended HP-UX 11.0 Kernel Settings

Parameter	Old Value	New Value	Description
nproc	276	2068	Maximum number of processes
ncallout	292	2084	Number of pending timeouts

QuickStart Does Not Invoke Netscape 4.7x

If the `LANG` environment variable is set to `C` on your system (`LANG=C`) and you select Netscape 4.7.x as your browser, then QuickStart may fail to start. To fix this problem, terminate QuickStart, unset the `LANG` environment variable (manually or by using a wrapper function), and restart the QuickStart application.

This problem is reported in CR082062.

Apache Server Hangs If `ld` and `libdld.sl` Are Obsolete

If the Apache server hangs when you are trying to use the BEA Apache plugin `mod_wl_20.so` on an HP-UX platform, then you are probably using an obsolete version of `ld` and/or `libdld.sl`. Apache binaries require the B.11.32 (or higher) version of `ld` and `libdld.sl`.

To determine which version of `ld` is installed on your system, complete the following procedure:

1. Enter: `ld -v`
2. Enter: `what /usr/lib/libdld.sl`

The version numbers of `ld` and `libdld.sl` are displayed.

- If both `ld` and `libdld.sl` have the same version number and that number is 11.32 or higher, then you are using the appropriate versions and you can quit this procedure; you are ready to run the `mod_wl_20.so` plugin.
 - If the version numbers for `ld` and `libdld.sl` do not match, or if the numbers match and that number is lower than 11.32, then you need to install an HP patch. For instructions, proceed to step 3.
3. Determine which patch you need for your system:
 - For an HP-UX 11.00 platform you need PHSS_26559.
 - For an HP-UX 11i (11.11) or higher platform, you need PHSS_26560.

4. Go to the appropriate IT Resource Center:
 - For the Americas and Asia Pacific: <http://us-support.external.hp.com>
 - For Europe: <http://europe-support.external.hp.com>
 5. Under Maintenance/Support, click Individual Patches.
 6. Scroll down to the following entry:

Retrieve a specific patch by entering the patch name
 7. Enter the patch number in the input field.
- Download and install the patch on your system.

Download and Installation Instructions

To install WebLogic Server 7.0 SP1 on a configuration of HP-UX 11.23 on Itanium, complete the following procedure:

1. Download the HP-UX SDK 1.3.1.06 from www.hp.com.
2. Install the SDK in your environment and configure your environment to support it:
 - Update the `JAVA_HOME` environment variable to reflect the SDK installation directory.
For example: `JAVA_HOME=/opt/java1.3; export JAVA_HOME`
 - Update the `PATH` environment variable to include `JAVA_HOME/bin`.
For example: `PATH=$JAVA_HOME/bin:$PATH; export PATH`
3. To download WebLogic Server 7.0 and the supplementary JAR file for it provided by BEA:
 - a. Go to the BEA download site at <http://commerce.bea.com>.
 - b. Download WebLogic Server 7.0 SP1 for HP-UX.
 - c. Download BEA's supplementary JAR file (`weblogic700sp1_hpipf_supp.jar`) for the HP-UX (11i, v1.6).
4. Install WebLogic Server 7.0 SP1. For standard installation instructions, see *BEA WebLogic Server and WebLogic Express Installation Guide*.
5. Export the `WL_HOME` variable to point to the WebLogic installation.


```
$ export WL_HOME=/your_installation_directory/weblogic700
```
6. Add `weblogic700/server/bin` to your execution path:

```
$ export PATH=$WL_HOME/server/bin:$PATH
```

7. Go to `$WL_HOME/server`:

```
$ cd $WL_HOME/server
```

8. Extract the contents of the `weblogic700sp1_hpipf_supp.jar` file. This step overwrites some shell scripts and creates new directories for native libraries.

```
$ jar -xvf weblogic700sp1_hpipf_supp.jar
```

9. Update the environment variables `WL_HOME` and `JAVA_HOME` in the following shell scripts:

- `setWLSenv`
- `startWLS`

10. Update the environment variables

11. In the `startNodeManager` shell script, update the following environment variables:

- `BEA_HOME`
- `WL_HOME`
- `JAVA_HOME`

12. Set the correct execution modes on the contents of the `weblogic700/server/bin` and `weblogic700/server/lib` directories:

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