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BEAWebLogic Platform™

8.1 Supported Configurations: HP Tru64 UNIX V5.1 on Alpha

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HP Tru64 UNIX V5.1 on Alpha with 8.1 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 8.1 Supported Configurations.*

- For details about HP Alpha and HP Tru64 UNIX (formerly Compaq Tru64 UNIX), see the HP Tru64 UNIX Web site.

Configuration Requirements

Table 1-1 Requirements for 8.1 SP4 on HP Tru64 UNIX V5.1 on Alpha

Operating System Version and Patches	Tru64 UNIX V5.1A	HP Tru64 UNIX 5.1A with Patch Kit 6 (`T64V51AB24AS0006-20031031.tar`)
	Tru64 UNIX V5.1B	HP Tru64 UNIX 5.1B with Patch Kit 3 (`T64V51BB24AS0003-20030929.tar`)
	Tru64 UNIX V5.1B-1	No patches required
	Tru64 UNIX V5.1B-2	No patches required
Chip Architecture and Minimum Processor Speed	Alpha (834 MHz)	
SDK	HP Tru64 SDK 1.4.2-4 Java™ 2 Runtime Environment, Standard Edition Fast VM (build 1.4.2-4, native threads, mixed mode, 12/23/2004-06:00)	These SDKs are not delivered with WebLogic Platform; you must download the appropriate SDK from the HP Web site and install it, manually, before installing WebLogic Server. For instructions, see "Download and Installation Instructions" on page 1-3.
	HP Tru64 SDK 1.4.2-4.p2 Java™ 2 Runtime Environment, Standard Edition Fast VM (build 1.4.2-4.p2, native threads, mixed mode, 05/10/2005-02:43)	
Design and Development Tools	Supports WebLogic Server development tools.	
RAM	512 MB required; 1 GB recommended	
Performance Pack	Included	`lib/tru64unix/libmuxer.so`

Table 1-1 Requirements for 8.1 SP4 on HP Tru64 UNIX V5.1 on Alpha

Node Manager	Included	Native
BEA jDrivers for Oracle	**For this Oracle client version:**	**The following shared libraries are provided:**
	Oracle 8.1.7 **Note:** Not supported by WebLogic Portal	• `lib/tru64unix/oci817_8/libweblogicoci39.so` • `lib/tru64unix/oci817_8/libweblogicoxa39.so`
	Oracle 9.0.1 **Note:** Not supported by WebLogic Portal	• `lib/tru64unix/oci901_8/libweblogicoci39.so` • `lib/tru64unix/oci901_8/libweblogicoxa39.so`
	Oracle 9.2.0	• `lib/tru64unix/oci920_8/libweblogicoci39.so` • `lib/tru64unix/oci920_8/libweblogicoxa39.so`

Known Issues

- Process Data Segment: The default maximum size of the Process Data Segment, 128 MB, is insufficient. BEA recommends increasing the default maximum size to at least 256 MB or, for a dedicated Web server, 1 GB. For example:

  ```
  $ ulimit -d 1048576
  ```

- Downgrade issue: Before using the Weblogic Server 8.1 SP4 upgrade installer (`pj_server814_upgrade_generic.jar`), make a backup copy of your WebLogic Server 8.1 SP1 installation, in case you later need to restore your upgraded installation to SP1.

Download and Installation Instructions

To install WebLogic Platform 8.1 SP4 on an HP Tru64 on Alpha configuration, you must complete the instructions provided in the following sections:

- Downloading and Installing Operating System Patches

- Installing the HP Tru64 SDK

- Downloading and Installing WebLogic Server

- Downloading and Installing WebLogic Portal

Downloading and Installing Operating System Patches

Before you can install WebLogic Platform 8.1 SP4 on your Tru64 UNIX V5.1A or V5.1B configuration, you must install the required operating system patches.

Note: No patches are required for a Tru64 UNIX V5.1B-1 or V5.1B-2 configuration.

OS Patches for HP Tru64 UNIX V5.1A

One patch is required for this configuration. To download and install it, complete the following procedure:

Note: Requires HP Tru64 UNIX with 5.1A with PK6 installed.

1. Go to the following HP download site:

   http://www.itrc.hp.com/service/patch/mainPage.do

2. Download and install the following HP Tru64 UNIX Patch Kit:
   T64V51AB24AS0006-20031031.tar

OS Patches for HP Tru64 UNIX V5.1B

One patch is required for this configuration. To download and install it, complete the following procedure:

Note: Requires HP Tru64 UNIX with 5.1B with PK3 installed.

1. Go to the following HP download site:

   http://www.itrc.hp.com/service/patch/mainPage.do

2. Download and install the following HP Tru64 UNIX Patch Kit:
   T64V51BB24AS0003-20030929.tar

Installing the HP Tru64 SDK

1. Go to the HP Tru64 SDK download page:

   http://h18012.www1.hp.com/java/download/

2. Download one of the following kits:

   – HP Tru64 SDK 1.4.2-4 for Alpha

   – HP Tru64 SDK 1.4.2-4.p2 for Alpha

3. Install the kit.

Downloading and Installing WebLogic Server

Note: If you are planning to run WebLogic Portal with WebLogic Server, do not perform the procedure in this section. See "Downloading and Installing WebLogic Portal" on page 1-6.

To download and install WebLogic Server, complete the following procedure:

1. Go to the BEA downloads site: `http://commerce.bea.com/index.jsp`.

2. Download the following items:

    – WebLogic Server 8.1 SP4 installer for HP Tru64 UNIX V5.1B-2 on Alpha configuration: `pj_server814_generic.jar`

    – Supplementary JAR file for the Tru64/Alpha platform: `wls814_tru64_supp.jar`

3. Install WebLogic Server 8.1 SP4 by completing the console-mode installation procedure for `.jar` files available in *Installing BEA WebLogic Platform* at `http://e-docs.bea.com/platform/docs81/install/console.html`.

4. Set and export the `WL_HOME` variable to point to the directory in which WebLogic Server is installed. For example:

   ```
   $ export WL_HOME=/your_installation_directory/weblogic81
   ```

5. Go to the `WL_HOME`/`server/lib` directory and apply the supplementary JAR file:

   ```
   $ cd $WL_HOME/server/lib
   $ jar -xvf wls814_tru64_supp.jar
   ```

6. Revise the `commEnv.sh` and `startWLS.sh` scripts, as follows:

    – In `commEnv.sh`:

      a. Remove the `MaxPermSize` parameter from the HP block. (The `MaxPermSize` option is not recognized by the Tru64 1.4.2_4 SDK.)

      b. Append the appropriate jDriver location to the `LD_LIBRARY_PATH` variable. For example, to make this change for the 920 jDriver, locate the following section of code:

      ```
      OSF1)

        if [ -n "${LD_LIBRARY_PATH}" ]; then
      LD_LIBRARY_PATH=${LD_LIBRARY_PATH}:${WL_HOME}/server/lib/tru64unix:

        else

          LD_LIBRARY_PATH=${WL_HOME}/server/lib/tru64unix

        fi
      ```

```
   export LD_LIBRARY_PATH
;;
```

Replace this section with the following code:

```
OSF1)

   if [ -n "${LD_LIBRARY_PATH}" ]; then
LD_LIBRARY_PATH=${LD_LIBRARY_PATH}:${WL_HOME}/server/lib/tru64unix:$
{WL_HOME}/server/lib/tru64unix/oci920_8

   else
LD_LIBRARY_PATH=${WL_HOME}/server/lib/tru64unix:${WL_HOME}/server/li
b/tru64unix/oci920_8

   fi

export LD_LIBRARY_PATH
;;
```

– In startWLS.sh:

Append the appropriate jDriver location to the LD_LIBRARY_PATH variable, as
described in the instructions for revising the commEnv.sh file. See the previous step
(6b).

7. Set the following execution modes on the weblogic81/server/bin and
weblogic81/server/lib directories:

```
$ chmod +x $WL_HOME/server/bin/*
$ chmod -R +x $WL_HOME/server/lib/tru64unix/*
```

You have now finished installing WebLogic Server 8.1 SP4.

For more information about installing WebLogic Platform, see *Installing BEA WebLogic
Platform 8.1*:

http://e-docs.bea.com/platform/docs81/install/index.html

Downloading and Installing WebLogic Portal

Note: If you are planning to run WebLogic Server only (that is, WebLogic Server without
WebLogic Portal), do not complete the procedure in this section. See "Downloading and
Installing WebLogic Server" on page 1-5.

To download and install WebLogic Portal, complete the following procedure:

1. Go to the BEA downloads site: http://commerce.bea.com/index.jsp.

2. Download the following items:

   – WebLogic Platform 8.1 SP4 installer for HP Tru64 UNIX V5.1B-2 on Alpha
     configuration: `pj_platform814_generic.jar`

   – Supplementary JAR file for the Tru64/Alpha platform: `wls814_tru64_supp.jar`

3. Install WebLogic Server and WebLogic Portal by completing the console-mode installation
   procedure for `.jar` files as described in *Installing WebLogic Platform* at:
   http://e-docs.bea.com/platform/docs81/install/console.html

   Note: When prompted, choose a custom installation and select the WebLogic Server and
   WebLogic Portal components only.

4. Set and export the `WL_HOME` variable to point to the directory in which WebLogic Server is
   installed. For example:

   ```
   $ export WL_HOME=/your_installation_directory/weblogic81
   ```

5. Go to the `WL_HOME`/server/lib directory and apply the supplementary JAR file:

   ```
   $ cd $WL_HOME/server/lib
   $ jar -xvf wls814_tru64_supp.jar
   ```

6. Revise the `commEnv.sh` and `startWLS.sh` scripts, as follows:

   – In `commEnv.sh`:

     a. Remove the `MaxPermSize` parameter from the HP block. (The `MaxPermSize` option
     is not recognized by the Tru64 1.4.2_4 SDK.)

     b. Append the appropriate jDriver location to the `LD_LIBRARY_PATH` variable. For
     example, to make this change for the 920 jDriver, locate the following section of code:

     ```
     OSF1)

       if [ -n "${LD_LIBRARY_PATH}" ]; then
     LD_LIBRARY_PATH=${LD_LIBRARY_PATH}:${WL_HOME}/server/lib/tru64unix:

       else

         LD_LIBRARY_PATH=${WL_HOME}/server/lib/tru64unix

       fi

       export LD_LIBRARY_PATH
     ;;
     ```

     Replace this section with the following code:

     ```
     OSF1)
     ```

```
  if [ -n "${LD_LIBRARY_PATH}" ]; then
LD_LIBRARY_PATH=${LD_LIBRARY_PATH}:${WL_HOME}/server/lib/tru64unix:$
{WL_HOME}/server/lib/tru64unix/oci920_8

  else
LD_LIBRARY_PATH=${WL_HOME}/server/lib/tru64unix:${WL_HOME}/server/li
b/tru64unix/oci920_8

  fi

export LD_LIBRARY_PATH
;;
```

– In `startWLS.sh`:

Append the appropriate jDriver location to the `LD_LIBRARY_PATH` variable, as described in the instructions for revising the `commEnv.sh` file. See the previous step (6b).

7. Set the following execution modes on the `weblogic81/server/bin` and `weblogic81/server/lib` directories:

```
$ chmod +x $WL_HOME/server/bin/*
$ chmod -R +x $WL_HOME/server/lib/tru64unix/*
```

You have now finished installing WebLogic Server and WebLogic Portal 8.1 SP4.

For more information about installing WebLogic Platform, see *Installing BEA WebLogic Platform 8.1*:

http://e-docs.bea.com/platform/docs81/install/index.html

HP Tru64 UNIX V5.1 on Alpha 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

- 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 Alpha and HP Tru64 UNIX (formerly Compaq Tru64 UNIX), see the HP Tru64 UNIX Web site.

Configuration Requirements

Table 2-1 Requirements for WebLogic Platform 8.1 on HP Tru64 UNIX V5.1 on Alpha

Operating System Version and Patches	Tru64 UNIX V5.1A	HP Tru64 UNIX 5.1A with Patch Kit 6 (BL24) `(T64V51AB24AS0006-20031031.tar)`
	Tru64 UNIX V5.1B	• HP Tru64 UNIX 5.1B with Patch Kit 2 (BL22) • HP Tru64 UNIX ERP Patch `(T64KIT0019662-V51BB22-E-20030818.tar)`
	Tru64 UNIX V5.1B-1	No patches required
Chip Architecture and Minimum Processor Speed	Alpha (834 MHz)	
SDK	HP SDK 1.4.1-2 Java™ 2 Runtime Environment, Standard Edition Fast VM (build 1.4.1-2, native threads, mixed mode, 06/18/2003-17:51) HP SDK 1.4.1-2.bp1 Java™ 2 Runtime Environment, Standard Edition Fast VM (build 1.4.1-2.bp1, native threads, mixed mode, 04/16/2004-09:16)	• If you are running only WebLogic Server 8.1 SP1, you can choose between the two SDKs listed here (SDK 1.4.1-2 and SDK 1.4.1-2.bp1). If, however, you also want to run WebLogic Portal 8.1, then you must use HP SDK 1.4.1-2.bp1. • These SDKs are not delivered with WebLogic Platform; you must download the appropriate SDK from the HP Web site and install it, manually, before installing WebLogic Platform or WebLogic Server. For instructions, see "Download and Installation Instructions" on page 2-4.
Design and Development Tools	Supports WebLogic Server development tools.	
RAM	512 MB required; 1 GB recommended	
Performance Pack	Included	`lib/tru64unix/libmuxer.so`
Node Manager	Included	Java

Table 2-1 Requirements for WebLogic Platform 8.1 on HP Tru64 UNIX V5.1 on Alpha

BEA jDrivers for Oracle	For this Oracle client version:	The following shared libraries are provided:
	Oracle 8.1.7 **Note:** Not supported by WebLogic Portal	• `lib/tru64unix/oci817_8/libweblogicoci39.so` • `lib/tru64unix/oci817_8/libweblogicoxa39.so`
	Oracle 9.0.1 **Note:** Not supported by WebLogic Portal	• `lib/tru64unix/oci901_8/libweblogicoci39.so` • `lib/tru64unix/oci901_8/libweblogicoxa39.so`
	Oracle 9.2.0	• `lib/tru64unix/oci920_8/libweblogicoci39.so` • `lib/tru64unix/oci920_8/libweblogicoxa39.so`

Known Issues

This section provides workarounds for the following issues:

- Process Data Segment
- Oracle Usage Problem

Process Data Segment

The default maximum size of the Process Data Segment, 128 MB, is insufficient. BEA recommends increasing the default maximum size to at least 256 MB or, for a dedicated Web server, 1 GB. For example:

```
$ ulimit -d 1048576
```

Oracle Usage Problem

WebLogic jDriver for Oracle with the Oracle8i Server - Enterprise Edition 8.1.7 and the corresponding Oracle Call Interface (OCI)—A problem occurs when this driver, this database server, and this OCI are used together. The problem is an unresolved symbol in the `OCILobLocatorAssign` of the `libclntsh.so` library. The symbol is not resolved because the `$ORACLE_HOME/rdbms/admin/shrept.lst` file does not list every function in the RDBMS that can be called directly by user code. This list is used by the `genclntsh.sh` script when it builds the client shared library `libclntsh.so`.

Note: Other functions, such as `OCIEnvCreate` and `OCITerminate` are also absent, but they are not required by WebLogic Server 8.1. If you want to use applications that require these functions, you can add the functions by performing the following procedure.

1. Log in to the Oracle account:

   ```
   su - oracle
   ```

2. Open the following file in a text editor: `$ORACLE_HOME/rdbms/admin/shrept.lst`.

3. Add the following line to the file:

   ```
   rdbms: OCILobLocatorAssign
   ```

4. Rebuild the shared client library:

   ```
   $ cd $ORACLE_HOME/rdbms/lib
   $ make -f ins_rdbms.mk client_sharedlib
   ```

   The following files are updated in `/opt/oracle/product/8.1.7/lib`:

   ```
   clntsh.map
   ldap.def libclntsh.so
   libclntsh.so.8.0 libclntst8.a
   network.def
   plsql.def
   precomp.def
   rdbms.def
   ```

For more information about known issues, see the WebLogic Platform 8.1 *Release Notes*:

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

Download and Installation Instructions

This section provides procedures for users who plan to run either WebLogic Server or WebLogic Portal. All users with Tru64 UNIX V5.1A or V5.1B configurations must first download and install the required operating system patches. (No operating system patches are needed for V5.1B-1.) Next, all users must download the desired SDK. Finally, users must choose one of two product installation procedures, depending on which component of WebLogic Platform is going to be used: WebLogic Server or WebLogic Portal.

The following sections provide instructions for these tasks:

- Downloading and Installing Operating System Patches

- Downloading and Installing the SDK

- Downloading and Installing WebLogic Server

- Downloading and Installing WebLogic Portal

Downloading and Installing Operating System Patches

Before you can install WebLogic Server 8.1 SP1 on your Tru64 UNIX V5.1A or V5.1B configuration, you must install the required operating system patches.

Note: No patches are required for a Tru64 UNIX V5.1B-1 configuration.

OS Patches for HP Tru64 UNIX V5.1A

One patch is required for this configuration. To download and install it, complete the following procedure:

Note: Requires HP Tru64 UNIX with 5.1A with PK6 (BL24) installed.

1. Go to the following HP download site:

   http://www.itrc.hp.com/service/patch/patchDetail.do?patchid=T64V51AB24A
   S0006-20031031

2. Download and install the following HP Tru64 UNIX Patch Kit:
   T64V51AB24AS0006-20031031.tar

OS Patches for HP Tru64 UNIX V5.1B

One patch is required for this configuration. To download and install it, complete the following procedure:

Note: Requires HP Tru64 UNIX with 5.1B with PK2 (BL22) installed.

1. Go to the following HP download site:

   http://www.itrc.hp.com/service/patch/patchDetail.do?patchid=
   T64KIT0019662-V51BB22-E-20030818

2. Download and install the following HP Tru64 UNIX Patch Kit:
   T64KIT0019662-V51BB22-E-20030818.tar

Downloading and Installing the SDK

1. Go to the following HP Web site:

   http://h18012.www1.hp.com/java/archive_download/unix/1.4.1-2/index.html

2. Download and install one of the following SDKs:

   Note: If you plan to run only WebLogic Server, you can use either SDK. If, however, you plan to run WebLogic Portal, too, you must use HP SDK 1.4.1-2.bp1.

   – SDK 1.4.1-2 Java™ 2 Runtime Environment, Standard Edition Fast VM (build 1.4.1-2, native threads, mixed mode, 06/18/2003-17:51)

   – SDK 1.4.1-2.bp1 Java™ 2 Runtime Environment, Standard Edition Fast VM (build 1.4.1-2.bp1, native threads, mixed mode, 04/16/2004-09:16)

Downloading and Installing WebLogic Server

Note: If you are planning to run WebLogic Portal with WebLogic Server, do not perform the procedure in this section. See "Downloading and Installing WebLogic Portal" on page 2-7.

To download and install WebLogic Server, complete the following procedure:

1. Go to the BEA downloads site:

   http://commerce.bea.com/index.jsp

2. For WebLogic Server 8.1 SP1, select Compaq Tru64 UNIX (5.1A, 5.1B & B.1B-1) as your operating system, and download the WebLogic Server package installer, pj_server811_generic.jar.

3. From the same download page, download the supplementary JAR file for HP Tru64 (5.1) by selecting the link: weblogic810sp1_tru64_supp.jar.

   Now you have all the components required for your installation: the HP SDK 1.4.1-2 or 1.4.1-2.bp1, the WebLogic Server package installer, and the supplementary JAR file.

4. Install WebLogic Server 8.1 SP1 by completing the console-mode installation procedure for .jar files available in *Installing WebLogic Platform* at http://e-docs.bea.com/platform/docs81/install/console.html:

5. Set the JAVA_HOME environment variable to the directory in which Fast VM 1.4.1-2 is installed, and export JAVA_HOME. For example:

   export JAVA_HOME=/usr/opt/java141

   Verify that your PATH variable includes $JAVA_HOME/bin. For example:

   export PATH=$JAVA_HOME/bin:$PATH:.

6. Set the `WL_HOME` environment variable to the directory in which WebLogic Server is installed. For example:

```
export WL_HOME=/usr/bea/weblogic81
```

7. Go to the installation directory for WebLogic Server and apply the supplemental JAR file:

```
$ cd $WL_HOME
$ jar xvf absolute_path/weblogic810sp1_tru64_supp.jar
```

8. Open the `common/bin/commEnv.sh` script in a text editor. Modify the settings for `JAVA_HOME`, `BEA_HOME`, and `WL_HOME`, as necessary, so that they are set appropriately for your environment.

You have now finished installing WebLogic Server 8.1 SP1.

Downloading and Installing WebLogic Portal

Note: If you are planning to run WebLogic Server only (that is, WebLogic Server without WebLogic Portal), do not complete the procedure in this section. See "Downloading and Installing WebLogic Server" on page 2-6.

To download and install WebLogic Portal, complete the following procedure:

1. Go to the BEA downloads site:

   http://commerce.bea.com/index.jsp

2. For WebLogic Portal 8.1, select Tru64 UNIX (5.1) as your operating system, and download the WebLogic Platform package installer, `pj_platform811_generic.jar`, which is used to install WebLogic Portal.

3. From the same download page, download the supplementary JAR file for HP Tru64 (5.1) by selecting the link: `weblogic810sp1_tru64_supp.jar`.

   Now you have all the components required for your installation: the HP SDK 1.4.1-2.bp1, the WebLogic Platform package installer, and the supplementary JAR file.

4. Install WebLogic Portal 8.1 and WebLogic Server 8.1 SP1 by completing the console-mode installation procedure for `.jar` files as described in *Installing WebLogic Platform* at:

   http://e-docs.bea.com/platform/docs81/install/console.html

   Note: When prompted, choose a custom installation and select the WebLogic Portal and WebLogic Server components only.

5. Set the JAVA_HOME environment variable to point to the directory in which Fast VM 1.4.1-2.bp1 is installed, and export JAVA_HOME. For example:

   ```
   export JAVA_HOME=/usr/opt/java141
   ```

   Verify that your PATH variable includes $JAVA_HOME/bin. For example:

   ```
   export PATH=$JAVA_HOME/bin:$PATH:.
   ```

6. Set the WL_HOME environment variable to point to the directory in which WebLogic Portal is installed. For example:

   ```
   export WL_HOME=/usr/bea/weblogic81
   ```

7. Go to the installation directory for WebLogic Portal and apply the supplemental JAR file:

   ```
   $ cd $WL_HOME
   $ jar xvf absolute_path/weblogic810sp1_tru64_supp.jar
   ```

8. Open the common/bin/commEnv.sh script in a text editor. Modify the settings for JAVA_HOME, BEA_HOME, and WL_HOME, as necessary, so that they are set appropriately for your environment.

9. Go to $WL_HOME/samples/domains/portal and open the startWebLogic.sh script in a text editor. Set the following parameter: debug=false. (-Xdebug is not supported on Tru64 UNIX configurations.)

10. Go to the sample applications directory ($WL_HOME/samples/domains/portal) and run startWebLogic.sh to verify that WebLogic Portal is installed correctly.

Note: If you want to create a new Portal domain, you must set the debug flag to false (debug=false). If you create a Portal domain without setting debug to false, the Portal server does not start.

You have now finished installing WebLogic Server 8.1 SP1 and WebLogic Portal 8.1.