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Hardware and Software Requirements
# Table of Contents

1. **ABOUT THIS DOCUMENT** ........................................................................................................ 7  
2. **REQUIREMENTS FOR THE ENTERPRISE VIEW ENGINE** ..................................................... 9  
   2.1. **LINUX SYSTEM** .................................................................................................................. 9  
      2.1.1. **Hardware Requirements for Linux** .................................................................................. 9  
      2.1.2. **Software Requirements for Linux** .................................................................................. 9  
   2.2. **SUN SYSTEM** ..................................................................................................................... 9  
      2.2.1. **Hardware Requirements for Sun** .................................................................................. 9  
      2.2.2. **Software Requirements for Sun** .................................................................................. 10  
   2.3. **AIX SYSTEM** ..................................................................................................................... 10  
      2.3.1. **Hardware Requirements for AIX** ................................................................................ 10  
      2.3.2. **Software Requirements for AIX** ................................................................................ 10  
   2.4. **COMMON REQUIREMENTS FOR LINUX, SUN AND AIX** ................................................ 10  
3. **REQUIREMENTS FOR THE ENTERPRISE VIEW DATABASE** .................................................. 13  
   3.1. **LINUX SYSTEM** ................................................................................................................ 13  
      3.1.1. **Hardware Requirements for Linux** ................................................................................. 13  
      3.1.2. **Software Requirements for Linux** ................................................................................. 13  
   3.2. **SUN SYSTEM** .................................................................................................................... 13  
      3.2.1. **Hardware Requirements for Sun** .................................................................................. 13  
      3.2.2. **Software Requirements for Sun** .................................................................................. 13  
   3.3. **AIX SYSTEM** ..................................................................................................................... 14  
      3.3.1. **Hardware Requirements for AIX** ................................................................................ 14  
      3.3.2. **Software Requirements for AIX** ................................................................................ 14  
   3.4. **COMMON REQUIREMENTS FOR LINUX, SUN AND AIX** ........................................... 14  
4. **REQUIREMENTS FOR THE ENTERPRISE VIEW CUSTOM AGENTS** .................................... 15  
   4.1. **MVS CUSTOM AGENT** ..................................................................................................... 15  
      4.1.1. **Hardware Requirements for MVS Custom Agent** ....................................................... 15  
      4.1.2. **Software Requirements for MVS Custom Agent** ....................................................... 15  
      4.1.3. **Required space for MVS Custom Agent** ................................................................. 15  
      4.1.4. **Authorization Requirements for MVS Custom Agent** ............................................. 15  
   4.2. **UNIX CUSTOM AGENT** .................................................................................................. 15  
5. **REQUIREMENTS FOR ENTERPRISE VIEW PORTAL** .............................................................. 17  
   5.1. **LINUX SYSTEM** .............................................................................................................. 17  
      5.1.1. **Hardware Requirements for Linux** ............................................................................... 17  
      5.1.2. **Software Requirements for Linux** ............................................................................... 17  
   5.2. **SUN SYSTEM** .................................................................................................................. 17  
      5.2.1. **Hardware Requirements for Sun** ............................................................................... 17  
      5.2.2. **Software Requirements for Sun** ............................................................................... 17  
   5.3. **AIX SYSTEM** .................................................................................................................. 17  
      5.3.1. **Hardware Requirements for AIX** ............................................................................... 17  
      5.3.2. **Software Requirements for AIX** ............................................................................... 17  
   5.4. **COMMON REQUIREMENTS FOR LINUX, SUN AND AIX** ........................................... 17  
   5.5. **ACCESSING ENTERPRISE VIEW PORTAL** ..................................................................... 18  
6. **PENTAHO TOOLKIT FOR ENTERPRISE VIEW** ....................................................................... 19  
7. **REQUIREMENTS FOR ENTERPRISE VIEW CLIENT MODULES** ............................................. 21
7.1 HARDWARE REQUIREMENTS ................................................................. 21
7.2 SOFTWARE REQUIREMENTS ............................................................... 21
7.3 AUTHORIZATIONS .............................................................................. 21
7.4 EXQL .................................................................................................... 21

8. ORACLE REQUIREMENTS AND SETTINGS FOR ENTERPRISE VIEW AND ENTERPRISE
   VIEW PORTAL ..................................................................................... 23
   8.1 CERTIFIED VERSIONS ........................................................................ 23
   8.2 DB IDENTIFICATION .......................................................................... 23
   8.3 PRODUCTION SCHEMA AND TEST SCHEMA .................................. 24
   8.4 ORACLE TABLESPACE SETUP DETAILS ......................................... 24
   8.5 CURSORS .......................................................................................... 25
   8.6 SNAPSHOTS ..................................................................................... 25
   8.7 FILE SHARING OPTION .................................................................... 25

9. PRE-CHECK ............................................................................................ 27
1. About this Document

This document illustrates the hardware and software requirements and settings necessary for a successful Enterprise View 5.6 installation.

Enterprise View has been tested on the operating systems, databases and tool versions described in this document.

Enterprise View can probably be installed on a machine with later software versions but we cannot guarantee that the installation will complete successfully or that Enterprise View functionalities will work properly.

Enterprise View now has a facility which checks if your machine complies with the requirements for the Engine and Portal, before you start the installation. It is called Pre-Check and it creates an output file that contains information about your machine and the requirements of Enterprise View. For more information, see the Installation Guide and section 9. Pre-Check of this document.
Hardware and Software Requirements
2. Requirements for the Enterprise View Engine

“Engine” is defined as the core functionality of the Enterprise View product, excluding the repository.

2.1. Linux system

2.1.1. Hardware Requirements for Linux

- Linux Server with Pentium IV processor or equivalent: 64-bit machines are not supported
- RAM: 2 Gb minimum, 4 Gb recommended
- 150 Mb disk space for Enterprise View Builder module
- Disk space required for Enterprise View Repository depends on the size of the customer’s source files (only if this machine will host the database area too)
- 2 Gb minimum for temporary work space (may depend on the user’s source files too)
- Raid 5 strongly recommended

2.1.2. Software Requirements for Linux

- Red Hat Linux Enterprise 3 or 4 (32-bit only) with Oracle Client 9i (9.2) or 10g already installed (for more information refer to chapter 9)
- Run-time libraries for GCC that, if not already present on the system, can be downloaded by following these steps:
  1. Login to the Red Hat network site: https://rhn.redhat.com/
  2. Select ‘Channels’.
  3. Choose the operating system version installed on your system, for example: ‘Red Hat Enterprise Linux ES (v. 4 for 32-bit x86)’.
  4. Select ‘Packages download’.
  5. Use the search box to identify the following packages:
     - libgcc-3.4.6
     - libstdc++-3.4.6
  6. Follow the instructions specified on the website to install the above packages.

2.2. Sun system

2.2.1. Hardware Requirements for Sun

- Sun Server with UltraSPARC III processor: 32-bit machines are not supported (for example Solaris on x86)
- RAM: 2 Gb minimum, 4 Gb recommended
- 150 Mb disk space for Enterprise View Builder module
Hardware and Software Requirements

- Disk space required for Enterprise View Repository depends on the size of the customer’s source files (only if this machine will host the database area too)
- 2 Gb minimum for temporary work space (may depend on the user’s source files too)
- Raid 5 strongly recommended

2.2.2. Software Requirements for Sun

- Solaris 9 (64-bit only) with Oracle Client 9i (9.2) or 10g already installed (for more information refer to chapter 9)
- Run-time libraries for GCC that can be downloaded from:

LIBGCC
Libgcc-3.3-sol9-sparc-local.gz

Follow the instructions on the website to install the above packages.

2.3. AIX system

2.3.1. Hardware Requirements for AIX

- p5 Model 570, 2 CPU
- 4 Gb RAM minimum
- 150 Mb disk space for Enterprise View Builder module
- Disk space required for Enterprise View Repository depends on the size of the customer’s source files (only if this machine will host the database area too)
- 2 Gb minimum for temporary work space (may depend on the user’s source files too)

2.3.2. Software Requirements for AIX

- AIX 5.3 (64-bit only) with Oracle Client 9i (9.2) or 10g already installed (for more information refer to chapter 9)
- Run-time libraries for GCC that can be downloaded from:


Libgcc-3.3.2-5.aix5.3.ppc.rpm
Libstdcplusplus-3.3.2-5.aix5.3.ppc.rpm

Follow the instructions on the website to install the above packages.

2.4. Common Requirements for Linux, Sun and AIX

- GNU CTAGS v. 5.2.3.
- GNU DIFF v. 2.8.1.
- Samba (or any other file-sharing software that allows disk mapping from Windows systems)
- Java Virtual Machine is required for Enterprise View only if Java sources will be analyzed. The supported version is 1.5.0, available on the Installation CD.
- Oracle Client (for more information refer to chapter 9)

Users of the product must have the Oracle Client suitably configured to access the Oracle Database.

**Note:** You can use the Enterprise View Pre-Check to find out which run-time libraries should be installed.

**Note:** Enterprise View is **not** certified against SMBFS/CIFS file systems.
Hardware and Software Requirements
3. Requirements for the Enterprise View Database

The Enterprise View Oracle database can be installed on any platform supported by Oracle; if it is installed on the same machine as the Enterprise View Engine, then both requirements should be taken into consideration. Otherwise, you need consider only the Oracle requirements. A list of possible server configurations, for Oracle Database installation only, is provided below for reference.

3.1. Linux system

3.1.1. Hardware Requirements for Linux
- Linux Server with Pentium IV processor or equivalent
- RAM: 2 Gb minimum, 4 Gb recommended
- Disk space required for Enterprise View Repository depends on the size of the customer’s source files
- Raid 5 strongly recommended

3.1.2. Software Requirements for Linux
- Red Hat Linux Enterprise 3 or 4 (32-bit only) with Oracle Client 9i (9.2) or 10g already installed (for more information refer to chapter 9)

3.2. Sun system

3.2.1. Hardware Requirements for Sun
- Sun Server with UltraSPARC III processor
- RAM: 2 Gb minimum, 4 Gb recommended
- Disk space required for Enterprise View Repository depends on the size of the customer’s source files
- Raid 5 strongly recommended

3.2.2. Software Requirements for Sun
- Solaris 9 (64-bit only) with Oracle Client 9i (9.2) or 10g already installed (for more information refer to chapter 9)
3.3. AIX system

3.3.1. Hardware Requirements for AIX
- p5 Model 570, 2 CPU
- 4 Gb RAM minimum
- Disk space required for Enterprise View Repository depends on the size of the customer’s source files

3.3.2. Software Requirements for AIX
- AIX 5.3 (64-bit only) with Oracle Client 9i (9.2) or 10g already installed (for more information refer to chapter 9)

3.4 Common Requirements for Linux, Sun and AIX
- Oracle Database installed (Version 9i or 10g) (for more information refer to chapter 9)

Users of the product must have the Oracle Client suitably configured to access the Oracle Database.
4. Requirements for the Enterprise View Custom Agents

4.1. MVS Custom Agent

The term MVS Agent refers to the Enterprise View Custom Agent that resides on IBM Mainframe Systems (formerly referred to as MVS). Despite its name, the MVS Agent supports recent mainframe operating system releases (see 4.1.2).

4.1.1. Hardware Requirements for MVS Custom Agent

- MVS mainframe system compatible with the software requirements
- CD-ROM (recommended) or UNIT 3390 (IBM Disk type)

4.1.2. Software Requirements for MVS Custom Agent

- OS/390 v. 2.9
- z/OS System v. 1.1.
- IBM DB2 database v. 7.1 with Distributed Data Facility (DDF) suitably configured
- FTP client (or any other File Transfer software)

4.1.3. Required space for MVS Custom Agent

- The disk space required for the installation of the product is about 30 Mb
- The database requires about 250 Mb of disk space for 50 MLOC of sources.

4.1.4. Authorization Requirements for MVS Custom Agent

- RACF authorizations (create, update, delete) on the product’s Partitioned Data Sets and sequential files
- DB2 authorizations (ONLY FOR THE INSTALLATION): SYSADM authorization, or alternatively: Authorization to create Databases, Storage Groups, Tablespaces, Views, Tables, Indexes, Bind Packages and Plan

4.2. UNIX Custom Agent

The UNIX Custom Agent must be installed on the same server as Enterprise View. There are no additional requirements.
5. Requirements for Enterprise View Portal

5.1. Linux system

5.1.1. Hardware Requirements for Linux

- Linux server with Pentium IV processor or equivalent: 64-bit machines are not supported
- RAM: 2 Gb minimum, 4 Gb recommended
- 200 Mb disk space for the Enterprise View Builder module
- Raid 5 strongly recommended

5.1.2. Software Requirements for Linux

- Red Hat Linux Enterprise 3 or 4 (32-bit only)

5.2. Sun system

5.2.1. Hardware Requirements for Sun

- Sun server with UltraSPARC III Processor: 32-bit machines are not supported (for example Solaris on x86)
- RAM: 2 Gb minimum, 4 Gb recommended
- 200 Mb disk space for the Enterprise View Builder module
- Raid 5 strongly recommended

5.2.2. Software Requirements for Sun

- Solaris 9 (64-bit only)

5.3. AIX system

5.3.1. Hardware Requirements for AIX

- p5 Model 570, 2 CPU
- 4 Gb RAM minimum
- 200 Mb disk space for the Enterprise View Builder module

5.3.2. Software Requirements for AIX

- AIX 5.3 (64-bit only)
5.4. Common Requirements for Linux, Sun and AIX

- JDBC is required to run Enterprise View Portal: ojdbc14.jar is included in the installation package.
- Java Virtual Machine is required for Enterprise View Portal: the supported version is 1.5.0, available on the Installation CD.

5.5. Accessing Enterprise View Portal

- Browser versions supported: Internet Explorer (v.6 and v.7) and Mozilla Firefox (v.2.0)
6. Pentaho toolkit for Enterprise View

The Pentaho toolkit for Enterprise View should be installed on a Windows workstation, with the same requirement as the Client Modules.
Hardware and Software Requirements
7. Requirements for Enterprise View Client Modules

7.1 Hardware Requirements

- Personal computer with Pentium III processor
- Display: SVGA 1024x768 with 65,536 colors
- 512 Mb of RAM: almost 128 Mb available
- 200 Mb of space available on disk for all the modules of the Enterprise View suite

7.2. Software Requirements

- Oracle Client (optional): the same version as the one installed on the Server Machine (Oracle 9i (9.2) or 10g). Required only if you want to use Oracle Call Interface (OCI) to connect to the database.
- If using OCI, you must have it perfectly aligned with the Oracle Server version that is used.
- Optional: if Citrix server is used, the supported version is Citrix Metaframe Presentation Server 4.0.

7.3. Authorizations

- When a project is opened for the first time, the User ID and the password for the connection to the database server, where the working environment resides, must be provided. The user who established the connection must have read and write privileges in all the tables created by Enterprise View during the product installation phase.

7.4. ExQL

The module Micro Focus ExQL should be installed on the same work station as the client modules. There are no additional requirements.
Hardware and Software Requirements
8. Oracle Requirements and Settings for Enterprise View and Enterprise View Portal

8.1. Certified Versions

Oracle version certified, depending on the operating system:

- **Linux**
  - V.9.i (9.2)
  - V.10g
- **AIX**
  - V.10g
- **Sun**
  - V.9.i (9.2)
  - V.10g

We strongly recommend that you keep your Oracle servers updated to the latest patch-set available from Oracle. At the moment, the latest patch-set for Oracle 9i is 9.2.0.8 and for Oracle 10g is 10.1.0.6 and 10.2.0.3.

The Oracle Client version must be exactly the same as that of the Oracle Server. There are documented Oracle bugs which may cause application errors in the case of a mismatch between the Oracle Server and the Oracle Client libraries used by the application.

For reference, the following links describe one of these problems:


Oracle 11g is not supported by this version of Enterprise View.

8.2. DB Identification

In order to identify the Oracle database, the following information must be provided (the values below are set for example):

<table>
<thead>
<tr>
<th>Info</th>
<th>Example value</th>
</tr>
</thead>
<tbody>
<tr>
<td>IpAddress (or server name)</td>
<td>172.20.118.17</td>
</tr>
<tr>
<td>SID</td>
<td>orasrv1.microfocus.com</td>
</tr>
<tr>
<td>Service Name</td>
<td>oradb</td>
</tr>
<tr>
<td>Listener Port</td>
<td>1521</td>
</tr>
<tr>
<td>Schema Name</td>
<td>ENTVIEW</td>
</tr>
<tr>
<td>User Name</td>
<td>ENTVIEW</td>
</tr>
<tr>
<td>Password</td>
<td>ENTVIEW</td>
</tr>
</tbody>
</table>
The Schema contains:
- Enterprise View Oracle tables and indexes
- Enterprise View Portal Oracle tables and indexes

### 8.3. Production Schema and Test Schema

The installation of Enterprise View 5.6 requires two separate database schemas: production schema and test schema. The production schema must contain production data (e.g. the complete inventory of application portfolio etc.). The test schema must contain a limited amount of static data in order to perform tests in case of upgrading to new releases or applying patches to Enterprise View.

Both schemas will contain a data tablespace, an index tablespace and a blob tablespace. An example test schema can be sized as follows:
- data tablespace: 1000 MB
- index tablespace: 1000 MB
- blob tablespace: 100 MB

But of course in particular cases the space request can be higher, depending on the test cases contents.

In order for you to start with enough space in the production schema, we strongly suggest you provide as much information as possible about the applications to be analyzed to SupportLine, who will be able to compute an indicative starting size to be used:
- Estimated number of sources by language
- Estimated number of Organization Views to be created
- Type of project: APM project (object level), technical project (detailed analysis requested)

We also strongly recommend you have two different engine machines, in order to be able to keep test and production environments completely separated.

### 8.4. Oracle Tablespace setup details

The creation of user, schema and tablespaces currently uses basic settings that might not fit your company standards: in order to allow a flexible creation of the schema, the last step in the DBInstall application lets you save a set of scripts needed to generate the Enterprise View repository. It is also possible to change the default ‘Storage Parameters’ for primary key, indexes and tables. Giving this tool to an Oracle DBA will ensure correct creation.

The Oracle database uses some additional tablespace for internal operations, which should also be correctly sized. Only the database Administrator can correctly set the size, but we can provide a minimum recommended size.
<table>
<thead>
<tr>
<th>Tablespace</th>
<th>Minimum size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rollback segments</td>
<td>Automatic segment management</td>
</tr>
<tr>
<td>Temporary tablespace</td>
<td>4 Gb (8 Gb suggested); autoextend option: disabled</td>
</tr>
<tr>
<td>UNDO tablespace</td>
<td>4 Gb (8 Gb suggested); autoextend option: disabled</td>
</tr>
</tbody>
</table>

The above values are examples: the Oracle Administrator should monitor the tablespace and the database behavior, and must take the appropriate action in order to be sure the database is working properly. For example, we strongly recommend you execute the Oracle Statistics on the Enterprise View schema every week, but this may vary depending on the number of jobs executed weekly, and the number of changed objects.

Only through correct monitoring of the database can the Oracle Administrator understand the actions to be taken.

### 8.5. Cursors

If there is a limitation in the database on the maximum number of open cursors, an error might appear while working with the client modules. This can be fixed by raising the Oracle parameter `open_cursors` to 100.

### 8.6. Snapshots

The Materialized Views (snapshots) are used in the Enterprise View Repository.

### 8.7. File sharing option

From the Enterprise View Client applications it is possible to directly access the source code of the cataloged software parts (if requested by the Configuration settings); this can be achieved using the Oracle Engine. The Client application will perform a request to the Oracle Engine giving the full path of the desired file, and Oracle will retrieve it and send it back to the client application using the standard network protocol. To enable this feature:

- Change the value of the `utl_file_dir` parameter of the Oracle Engine to `*`. The SYS account is required for this operation, as well as a database restart.
- Assign the `oracle` User Read Access to the repository folder

If the Oracle machine is different from the Enterprise View Engine machine, a mount of the Repository folder should be performed on the Oracle machine to reflect its full path.
Hardware and Software Requirements
9. Pre-Check

Enterprise View contains a Pre-Check facility which shows if your UNIX host machine meets the requirements. It creates an output file that contains the collected information. You can then send this file to SupportLine who will guide you in understanding the report, and take any appropriate actions.

**Step 1:** Connect to the host machine and log on it.

**Step 2:** The Pre-Check tool is provided in the CD folder /PreCheck as precheck.tar.gz. Untar it in the directory where Enterprise View will be installed: type `tar xzvf precheck.tar.gz` followed by the name of the directory.

Sometimes the tar version does not fully support unzip:

```
-bash-2.05b$ tar xzvf precheck.tar.gz
Usage: tar \{c|r|t|u\} \[-D\] \[-b Blocks\] \[-S [ Feet ] | [ Feet@Density ] | [ Blocksb ]\] \[-L InputList\] \[-X ExcludeFile\] \[-N Blocks\] \[-C Directory\] File
...
```

If this is the case, you must perform the unzip in two steps as follows:

```
-bash-2.05b$ gunzip precheck.tar.gz
-bash-2.05b$ tar xvf precheck.tar
x precheck
x precheck/precheck.sh, 427 bytes, 1 tape blocks
x precheck/aix
x precheck/aix/precheck_aix.sh, 12091 bytes, 24 tape blocks
x precheck/doc
x precheck/doc/readme.txt, 1222 bytes, 3 tape blocks
x precheck/linux
x precheck/linux/precheck_linux.sh, 12045 bytes, 24 tape blocks
x precheck/sun
x precheck/sun/precheck_sun.sh, 12161 bytes, 24 tape blocks
```

**Step 3:** Go to the directory where Enterprise View will be installed and run the Pre-Check application by typing the command `./precheck.sh` and press **Enter**.

**Note:** If an error occurs when untarring and the executable attribute is lost, type `chmod +x precheck.sh`.

You should run the Pre-Check in the folder where the product will be installed, and with the user who will run it, because Pre-Check will check for write permissions which are necessary for the installation of the product.

If you want to use the default Oracle login credentials, type **n**. If you prefer to use other login credentials, type **y**.
To obtain the Oracle version, the Pre-Check needs to connect to Oracle. It is necessary to login as an actual Oracle user (by default, the user is system, the password is manager).

**Step 4:** To see how the Pre-Check works, type `.precheck.sh -h`.

The options are:

- `-v` verbose -> Displays a print table of the collected information.
- `-o "output file"` -> Writes an output filename if you do not want to use the default one which is "ev_precheck.out".
- `-j "path to Java"` -> Types the path to Java to inform the Pre-Check where the Java version is. If you do not write it, the Pre-Check will perform a check with the Java that is the default for the current machine (on most machines the default Java set in the environment is not SUN Java but, for example, GCJ).
- `-h` help -> Displays the options.

**Step 5:** To see the print table of the gathered information, type `.precheck.sh -v` by default. To see information about Java, type `-j` and the java path. E.g. `.precheck.sh -v -j /usr/java/jdk1.5.0_09/bin`

**Step 6:** Look at the output.

This is an example of the Linux Pre-Check output:

```
=    Enterprise View Linux Pre-Check =

Host Name      : srv008bg.microfocus.com

= Hardware Requirements for Linux =

Processor               : OK (i686)
Min. Memory             : OK (5067 MB : required 2048 MB, recommended 4GB)
Disk Space ./           : OK (183603 MB : required 150 MB)

= Software Requirements for Linux =

Oracle launched         : OK
Oracle Client           : FAIL ()
Samba launched          : OK
LIBGCC                  : OK (/usr/lib/gcc/i386-redhat-linux/3.4.6/libgcc.a)
LIBSTDC++               : OK (/usr/lib/gcc/i386-redhat-linux/3.4.6/libstdc++.a)
GNU CTAGS               : OK (5.5.4)
GNU DIFF                : OK (2.8.1)
Java                    : OK (1.6.0)
Java Location           : /usr/bin/java
Write permissions ./    : OK

= Software Requirements for Portal =
```

Hardware and Software Requirements
Hardware and Software Requirements

JAVA_HOME : OK (/usr/java/default)
Java version : OK (1.6.0)
Java Location : /usr/bin/java

==========================================================

Host Name: Displays the name of the host machine.

Engine Hardware Requirements:
Processor: Shows if the processor complies with the requirements (OK if it does, FAIL if it does not), and its type, in brackets.
Min. Memory: Shows if the minimum requirements for memory are met. The information in the brackets refers to the memory of the host machine, the required minimum memory and the recommended memory.
Disk Space: Shows if there is enough disk space. The information in the brackets refers to the free disk space of the machine and the disk space required by the product.

Engine Software Requirements:
Oracle launched: Shows if Oracle is launched (OK) or not (FAIL).
Oracle Client: Shows if there is an Oracle Client and its version.
Samba launched: Shows if Samba is launched (OK) or not (FAIL).
LIBGCC: If this library is present (OK), the brackets display its path. If it is not present (FAIL), the brackets display its name.
LIBSTDC++: The same as above.
GNU CTAGS: If present (OK), the brackets display the version.
GNU DIFF: If present (OK), the brackets display the version.
Java: If found (OK), the brackets display its version.
Java Location: Shows the path to the Java whose version is being checked. If you have not specified a path to a specific Java, it will display the path to the default Java.
Write permissions: Shows whether you have write permissions (OK) or not (FAIL). You should run the Pre-Check in the folder where the product will be installed, and with the user who will run it, because Pre-Check will check for write permissions which are necessary for the installation of the product.

Portal Software Requirements:
JAVA_HOME: Shows if this environment variable has been exported (OK) or not (FAIL).
Java version: Shows the Java version. The minimum requirements for the Java version for the Portal (1.5.0) differ from those for the Engine (1.3.0). That is why, in the example above, the Java version 1.4.2 meets the requirements for the Engine, but does not meet those for the Portal.
Java Location: Shows the path to the Java whose version is being checked. If you have not specified a path to a specific Java, it will display the path to the default Java.

The AIX Pre-Check output table is very similar to that of Linux. The only difference between it and Linux is that the Pre-Check checks if the AIX version complies with the requirements of the product. If so (OK), the information displayed in the brackets is about the version.

The Sun Pre-Check result table is similar to that of Linux.
Detailed information about how to set all the required environment variables is available in the 'Installation Guide – Step by Step'.

**Note:** On AIX and Sun, the paths to **LIBGCC** and **LIBSTDC++** must be contained in the environment variable **LD_LIBRARY_PATH**.