NetBeans™ Version 3.6 for OpenVMS Alpha

INSTALLATION GUIDE

June 2004

This document contains instructions for installing NetBeans Version 3.6 on the OpenVMS Alpha operating system.

Operating System:	OpenVMS Alpha Version 7.3-1 or higher
Software Version:	NetBeans Version 3.6 for OpenVMS

Hewlett-Packard Development Company, L.P.

CONTENTS

Purpose of This Document

This document contains instructions for installing NetBeans™ for OpenVMS on Alpha systems. It is intended primarily for system administrators. General usage information is contained in:

NETBEANS36_RELEASE_NOTES_OPENVMS.TXT|PS|PDF|HTML

Conventions

The following conventions are used in this document:

UPPERCASE/lowercase	Since Java™ is a case-sensitive language and NetBeans requires an ODS-5 disk, commands are mixed-case as required.
$	Indicates the DCL prompt. This prompt may be different on your system.
[optional-name]	Square brackets indicate that the enclosed item is optional (unless within a file specification).
<variable-name>	Angled brackets indicate a placeholder for a command-line option, a system-specific name, or some other variable.

1. SYSTEM REQUIREMENTS

NetBeans for OpenVMS is available for the Alpha platform only. It requires the following products to be preinstalled and properly configured.

Operating System

- OpenVMS Alpha Version 7.3-1 or higher

Software

- Software Development Kit (SDK) v 1.4.2 (or higher) for the OpenVMS Alpha Operating System for the Java™ Platform (Includes Fast VM)

  Available free of charge from the
  Java Technology Software Download Page
  http://h18012.www1.hp.com/java/download/index.html

  For information about required operating system patches (ECOs)
  http://h18012.www1.hp.com/java/download/ovms/1.4.2/sdk1.4.2_patches.html

Important: By default, NetBeans 3.6 uses Java 1.4.2 or the JVM. If you have an earlier version of Java installed on your system, you must set the NETBEANS$JDK_HOME logical to point to that JVM. See the Release Notes for more information.

Hardware

- 500MHz minimum Alpha processor
- 128MB minimum RAM
- 75,000 blocks minimum free disk space on an ODS-5 disk

ODS-5 Disk Required
NetBeans must be installed on an ODS-5 disk. If NetBeans is installed on an ODS-2 disk, it will not operate properly.

See the OpenVMS System Manager's Manual:
Initializing a New Volume with ODS-5 Format
http://h71000.www7.hp.com/doc/72final/6017/6017pro_031.html

The NetBeans user directory must be on an ODS-5 disk. This directory is set the first time you start NetBeans. By default, the directory is automatically created by NetBeans as a subdirectory under your `SYS$LOGIN` directory. You may specify a different directory on the command line. The default is `[.NETBEANS3_6]` under your `SYS$LOGIN` directory.

Performance Recommendations

Systems that do not meet the minimum memory requirement of 128MB per concurrent NetBeans user will exhibit poor performance.

For best performance

The memory and CPU speed recommendations are:

- At least 256MB of memory per concurrent user
- At least a 667MHz Alpha processor

Using X Window System

Maximum performance is obtained by using NetBeans on an OpenVMS workstation without hosting the display across a local area network to another machine. Hosting an X Window display on a different workstation from the OpenVMS machine running NetBeans may result in performance degradation due to network traffic.

eXcursion Fonts

If you are an eXcursion user, to ensure that the appearance of the NetBeans user interface is optimal, the following font sets should be installed in eXcursion:

```
Speedo
Type 1
Misc
100dpi
75dpi
```

Check their presence by opening the eXcursion Control Panel and selecting the Fonts tab.

If one or more font sets is not present, you can reinstall eXcursion (and choose the option to install all fonts) or you can do the following:

1. Locate the directory location of the font sets that come with the eXcursion kit.
2. Open the eXcursion Control Panel and select the Fonts tab.
3. Specify the full path of each missing font set in the New Font Path Elements group box and click Add.
4. Once you have all five sets installed and activated, restart the eXcursion server.

On your Alpha system, do the following:

1. Copy the eXcursion font properties file to your `LOGIN` directory.

   The standard location for this file is `SYS$COMMON:[JAVA$142.JRE.LIB]FONT_PROPERTIES.EXCURSION`

2. Copy it to `SYS$LOGIN:FONT.PROPERTIES`

   See the SDK Release Notes for important information about Java, eXcursion, and fonts. (http://h18012.www1.hp.com/java/documentation/index.html)

2. INSTALLATION PREREQUISITES

Authorized Privileges

To install NetBeans for OpenVMS, you must be logged in to an account that has at least the following authorized privileges:

```
BYPASS*
CMKRNL
GRPNAM*
SYSLCK
SYSNAM*
SYSPRV
```

*These privileges must be enabled prior to beginning the installation. If these privileges are authorized but not enabled by your process, you should use the following command to enable them:

```
$ SET PROCESS/PRIVILEGE=<privilege_name>
```

Disk Storage Space

NetBeans requirements for free disk storage space are slightly greater during installation than after installation:

Blocks Needed During Installation	90,000
Blocks After Installation	75,000

To determine the number of free disk blocks on the ODS-5 disk where you will be installing NetBeans, enter the following command:

```
$ SHOW DEVICE <dev_name>
```

where `<dev_name>` is the actual device name to check.

Quotas

The recommended minimum quotas for the account installing and using NetBeans are:

ASTLM	300
BIOLM	1024
BYTLM	2000000
DIOLM	1024
ENQLM	2000
FILLM	1000
JTQUOTA	60000
PGFLQUOTA	1500000
PRCLM	10
TQELM	400

WSEXTENT	524288

The recommended SYSGEN values are:

CHANNELCNT	at least 2000
WSMAX	at least the value of WSEXTENT

See NetBeans for OpenVMS Release Notes for information about performance tuning. Also see the SDK Release Notes. (http://h18012.www1.hp.com/java/documentation/index.html)

Backing Up Your System Disk

HP recommends that you do a system disk backup before installing any software.

Use the backup procedures that are established at your site. For details on performing a system disk backup, see the OpenVMS System Management Utilities Reference Manual Chapter 7: Backup Utility.
http://h71000.www7.hp.com/doc/731final/6048/6048pro.html

3. INSTALLING NETBEANS FOR OPENVMS

Before proceeding, review the installation requirements and release notes.

1. Installing NetBeans using the PCSI installation utility

Important NetBeans must be installed on an ODS-5 disk to work properly.

Be sure to specify this disk type as the destination device.

To initialize an ODS-5 disk, select a nonsystem disk, move all data to other disks, and use the following command:

```
$ INITIALIZE /STRUCTURE_LEVEL=5 <device-name> <volume-label>
```

Choosing an installation destination

Before you run the PRODUCT INSTALL command, decide on the installation destination. There are two ways you can specify where NetBeans should be installed. The third option (not specifying and permitting the default installation) is valid only if SYS$SYSDEVICE is an ODS-5 disk. If this is not the case, you must choose the first or second option:

Use the /DESTINATION=<DIR_SPEC> on the installation command line. This option overrides the use of the PCSI$DESTINATION logical name.

If you do not use the /DESTINATION=<DIR_SPEC> and do define the logical name PCSI$DESTINATION, the value of this logical is used as the destination device for the kit.

If you do not use the /DESTINATION=<DIR_SPEC> and do not define the PCSI$DESTINATION logical, the kit will be installed to SYS$SYSDEVICE:[VMS$COMMON.]

Running PRODUCT INSTALL

To install NetBeans to either the location pointed to by PCSI$DESTINATION or the default location, run the command:

```
$ PRODUCT INSTALL NETBEANS36
```

To install to a specified destination, run the command:

```
$ PRODUCT INSTALL NETBEANS36/DESTINATION=<ODS5$DISK>:[<DIRECTORY>]
```

Respond to the PCSI installation questions.

[See Appendix A for a representative installation procedure.]

Incomplete requirements

If the installation process detects that your system does not fulfill the installation requirements and prerequisites, it will give you the opportunity to cancel the installation. For example, the following message may appear:

```
Java is either not installed on your system or its version is
```

```
below the minimum necessary to run NetBeans. If you choose to
continue the installation, NetBeans cannot be used until the
appropriate version of Java is installed. Terminating is
strongly recommended.  Do you want to terminate? [YES]
```

License Agreements

You must accept the license agreements, which are displayed during the installation process. If you decline the agreements, the installation will terminate with no files moved to the destination.

The following software products found in the NetBeans Build are governed by the Binary Code License Agreement including its applicable Supplemental Terms and Conditions ("BCL") set out in the scroll window displayed during the installation:

XML Parser 1.1 (jaxp and parser)
JavaHelp 2.0
JavaC Compiler
JavaMake
J2EE Deployment APIs 1.1
J2EE Management 1.0
EJB Enterprise JavaBeans 2.0
JMX 1.2
J2EE Editor
XML Resolver 1.0

The Ant, Crimson, Jasper, Regexp, Webserver and Xerces software products included in the NetBeans Build are governed by the terms of the Apache Software License found at http://www.apache.org/LICENSE.txt.

The Ant software product included in the NetBeans Build is governed by the terms of the Apache Software License found at http://www.apache.org/licenses/LICENSE-2.0.

The Flute 1.1 and SAC 1.1 software products included in the NetBeans Build are governed by the terms of the W3C® SOFTWARE NOTICE AND LICENSE found at http://www.w3.org/Consortium/Legal/copyright-software-19980720.

The JUnit v.3.8.x software products included in the NetBeans Build are governed by the terms of the Common Public License Version 1.0 found at http://www.opensource.org/licenses/cpl.php.

The Xalan-Java v.2.6.x (including SAX and DOM APIs) and Xerces2 Java Parser v.2.x (including SAX and DOM APIs) software products included in the NetBeans Build are governed by the terms of following three licenses:

Apache Software License found at http://www.apache.org/LICENSE.txt
DOM License found at http://www.w3.org/Consortium/Legal/copyright-software-19980720
SAX License found at http://www.saxproject.org/?selected=pd

All other code is governed by the terms of the Sun Public License ("SPL"), the full text of which can be found at http://www.netbeans.org/about/legal/spl.html. The source code licensed by the SPL can be found at http://www.netbeans.org/.

2. NetBeans post-installation tasks

If you want to create a symbol so that all users on the system can simply type `NETBEANS` to start the IDE, add the following lines to `SYS$MANAGER:SYLOGIN.COM`:

```
$ NetBeans :== @<DEVICE>[<DIRECTORY>.BIN]RUNIDEOPENVMS.COM
```

Example:

```
$ NetBeans :== @EFS$:[NETBEANS36.BIN]RUNIDEOPENVMS.COM
```

If the Java 2 SDK for OpenVMS is not installed in its default location, or if you want to use a version of the Java 2 SDK other than 1.4.2, define `NETBEANS$JDK_HOME` so NetBeans can find the Java directory:

Example:

```
$ DEFINE/SYSTEM NETBEANS$JDK_HOME <jdk_installation_dir>
```

Replace <jdk_installation_dir> with the actual location of the Java product installation. Defining this logical is necessary so that NetBeans can find the Java directory.

Running NetBeans

Instructions for running NetBeans for OpenVMS are contained in the `NETBEANS36_RELEASE_NOTES_OPENVMS.TXT|PS|PDF|HTML`.

See Section 3: Importing from Previous Versions for information about importing existing projects and settings.

Installing Plug-in Modules

NetBeans for OpenVMS provides access to both the NetBeans Update Center and the NetBeans for OpenVMS Update Center. The OpenVMS Update Center contains modules that are designed to enhance the usability and productivity of NetBeans for OpenVMS customers.

For installation information, see NetBeans for OpenVMS Release Notes: Downloading and Installing NetBeans Plug-in Modules.

NetBeans for OpenVMS Modules Page
http://h71000.www7.hp.com/openvms/products/ips/netbeans/modules.html

4. REPORTING AND RESOLVING PROBLEMS

Support for NetBeans for OpenVMS is provided under existing OpenVMS service agreements through standard support channels.

http://www.hp.com/country/us/eng/contact_us.html

As an open-source application, NetBeans is also supported through peer-support channels. NetBeans.org is home to the NetBeans Open Source project and is the best resource for general support information and links to peer-support groups.

To ask questions or give feedback
Send your technical questions and feedback about NetBeans for OpenVMS directly to the engineering team at:

NetBeans@hp.com

To participate in peer groups
NetBeans.org provides a variety of mailing lists and newsgroups that can answer most user questions.

http://www.netbeans.org/community

To report bugs
NetBeans.org provides a bug-entering system called IssueZilla, which you can use to enter and track issues. The submission form includes an operating system selection field that lists OpenVMS.

http://www.netbeans.org/community

General Comments and Feedback
If you would like to provide comments or general feedback about the e-business offerings for OpenVMS Alpha, please send mail to:

OpenVMS.eBusiness@hp.com

APPENDIX

A. Sample Installation

The following is a representative installation of NetBeans for OpenVMS:

Install the PCSI Kit

```
$ PRODUCT INSTALL NETBEANS36/DEST==EFS$:[000000]

The following product has been selected:
    NETBEANS AXPVMS NETBEANS36 V3.6        Layered Product


Do you want to continue? [YES]

Configuration phase starting ...

You will be asked to choose options, if any, for each selected product and for
any products that may be installed to satisfy software dependency requirements.

NETBEANS AXPVMS NETBEANS36 V3.6: NetBeans IDE

  .  .  .    .    . .   .   [LICENSE AGREEMENTS]   .   . .   .   . .   .

I have read and accept the above licenses, including the Binary Code License
and Supplemental Terms and Conditions.

[Y = I Accept, N = I Reject]: y

* This product does not have any configuration options.

    ODS-5 device

    NetBeans must be installed on an ODS-5 device to work properly. If
    you have specified a non-ODS-5 device as the destination, you should
    terminate the installation now. Then, restart the installation and
    specify an ODS-5 device as the destination using the /DESTINATION
    qualifier with the PRODUCT INSTALL command.

    Example: $ PRODUCT INSTALL NETBEANS36 /DESTINATION=ODS5$DEV:[000000]

    Do you want to continue? [YES]
    The installation will now continue without requesting further user input.

Execution phase starting ...

The following product will be installed to destination:
    NETBEANS AXPVMS NETBEANS36 V3.6        ODS5$DISK:[000000.]


Portion done: 0%...10%...20%...30%...40%...50%...60%...70%...80%...90%...100%
```

```
The following product has been installed:
    NETBEANS AXPVMS NETBEANS36 V3.6        Layered Product

NETBEANS AXPVMS NETBEANS36 V3.6: NetBeans IDE

    Quotas

    For NetBeans to work properly, the following system and user process
    parameters must be set:

      System parameter CHANNELCNT greater than or equal to 2000
      Process parameter ASTLM greater than or equal to 300
      Process parameter BIOLM greater than or equal to 1024
      Process parameter BYTLM greater than or equal to 2000000
      Process parameter DIOLM greater than or equal to 1024
      Process parameter ENQLM greater than or equal to 2000
      Process parameter FILLM greater than or equal to 1000
      Process parameter JTQUOTA greater than or equal to 60000
      Process parameter PGFLQUOTA greater than or equal to 1500000
      Process parameter PRCLM greater than or equal to 10
      Process parameter TQELM greater than or equal to 400
      Process parameter WSEXTENT greater than or equal to 524288


    Defining a NetBeans symbol

    If desired, a symbol may be defined in the system-wide login command
    file to start NetBeans. To do this, insert the following line in
    SYS$MANAGER:SYLOGIN.COM:

      $ NetBeans :== @<dev>:[<dir>.BIN]RUNIDEOPENVMS.COM

    Where <dev> and <dir> comprise the location where NetBeans was installed.

    Example:

      $ NetBeans :== @EFS$:[NETBEANS36.BIN]RUNIDEOPENVMS.COM

    Please refer to the release notes for additional information.

    Even if you have already installed and used a previous version of NetBeans
    for OpenVMS Alpha, please review the release notes included
    with this release for important new information.
```

B. Files Installed on Your System

The following command shows the files installed by the NetBeans for OpenVMS installation:

```
$ PRODUCT SHOW OBJ */PRODUCT=NETBEANS36
```