HP OpenVMS Systems

Another Neat Tool (Ant) for HP OpenVMS

Installation Guide and Release Notes

December 2008

Version 1.7-1

Introduction

Apache Another Neat Tool (Ant) 1.7-1 is a Java-based build tool, similar to make.

This kit is a port of Apache Ant 1.7-1 to the OpenVMS environment. This version of Ant 1.7-1 has been modified from the original Ant distribution found at http://ant.apache.org. The modifications were required to allow for differences in behavior on OpenVMS.

Requirements

Software Requirements

The following are the software requirements:

- Java 1.5.0-3 or later
- OpenVMS Alpha or Integrity server Version 8.2 or later
- All level 1 ECO kits
- Latest pthread ECO kit
- Latest CRTL ECO kit

Hardware Requirements

Ant 1.7-1 is available on Integrity server and Alpha platforms. The following are the hardware requirements for the Ant 1.7-1:

- Alpha or Itanium processor
- Installation disk must be formatted as an ODS-5 disk
- 1GB RAM (minimum)
- 600mhz processor (minimum)

Web Download Instructions

The ANT 1.7-1 for OpenVMS can be obtained in the following ways:

- Save the Ant 1.7-1 self-extracting archive (HP-VMS-ANT-V0107-1-1.PCSI_SFX_AXPEXE or HP-VMS-ANT-V0107-1-1.PCSI_SFX_I64EXE) to a temporary location by choosing the option to save the program to your disk.
- If you are downloading the file to a Windows machine, move the downloaded file to your OpenVMS machine using either using a shared network drive or FTP.

Installation Instructions

Ant has separate installation files for Integrity servers and Alpha systems. To install ANT 1.7-1:

1. Expand the Ant 1.7-1 compressed EXE file by entering one of the following commands, depending on the platform on which you are installing the kit:

   ```
   $ RUN HP-VMS-ANT-V0107-1-1.PCSI_SFX_I64EXE !
   ```
   for OpenVMS Integrity server

   ```
   $ RUN HP-VMS-ANT-V0107-1-1.PCSI_SFX_AXPEXE !
   ```
   for OpenVMS Alpha

   Each EXE file contains the files `HP-VMS-ANT-T0107--1.PCSI$COMPRESSED` and `HP-VMS-ANT-V0107-1-1.PCSI$COMPRESSED_ESW` (the signed manifest file).

2. Start PCSI, the utility that installs ANT 1.7-1 by entering the following command. (PCSI installs the PCSI$COMPRESSED file directly; you do not need to expand it.)

   ```
   $ PRODUCT INSTALL ANT
   ```

3. Follow the on-screen installation instructions. To proceed with a default installation, press Enter/Return in response to any other installation questions.

   ```
   Ant 1.7-1 will be installed into PCSI$DESTINATION:[ANT_17]
   ```

Using Ant

Follow these steps to define the logical name for Ant and to use Ant:

1. The logical name ANT$HOME must be defined to use Ant 1.7-1. The directories used in the following examples assume that Ant 1.7-1 has been installed in the default location,

   ```
   SYS$COMMON:[000000]

   $ DEFINE ANT$HOME SYS$COMMON:[ANT_17]
   ```

2. The symbol "ANT" must be defined, for example:

   ```
   $ ANT :== @SYS$COMMON:[ANT_17.BIN]ANT.COM
   ```

Then the command "ant" can be used, for example:

```
$ ant "-version" ! must quote DCL params
```

Sample OpenVMS Installation

The following is a log of a sample installation. Your log will look very similar depending on the platform and configuration settings.

```
$ run HP-VMS-ANT-V0107-1-1.PCSI_SFX_AXPEXE

UnZipSFX 5.40 of 28 November 1998, by Info-ZIP (Zip-
Bugs@lists.wku.edu).
```

```
  inflating: HP-VMS-ANT-V0107-1-1.PCSI$COMPRESSED

  inflating: HP-VMS-ANT-V0107-1-1.PCSI$COMPRESSED_ESW

$ product install ant

Performing product kit validation ...

%PCSI-I-VALPASSED, validation of

DSA0:[SYS0.][SYSMGR]HP-VMS-ANT-V0107-1-1.PCSI$COMPRESSED;1
succeeded

The following product has been selected:

    HP VMS ANT V1.7-1                        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.

```
HP VMS ANT V1.7-1

* This product does not have any configuration options.

Execution phase starting ...

The following product will be installed to destination:

   HP VMS ANT V1.7-1
DISK$I64SYS:[VMS$COMMON.]

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

The following product has been installed:

    HP VMS ANT V1.7-1                        Layered Product

HP VMS ANT V1.7-1
```

Post installation tasks

After the installation is complete, perform the following tasks.

1. The logical name ANT$HOME must be defined to use Ant 1.7-1.

```
$ DEFINE ANT$HOME <ANT Installation Directory>
```

2. The symbol "ANT" must be defined, for example:

```
$ ANT :== @<ANT Installation Directory>.BIN]ANT.COM
```

Then the command "ant" can be used, for example

```
$ ant "-version" ! must quote DCL params
$
```

These are the sample post installation steps, if installed into the default destination.

```
$ @sys$startup:java$150_setup fast ! setup Java
$ def ant$home sys$common:[ant_17]
$ ant:==@sys$common:[ant_17.bin]ant
$ ant "-version"
Apache Ant version 1.7.1 compiled on February 22 2008
```

Known Issues

This section provides descriptions of the known issues and limitations that exist in Ant 1.7-1 for OpenVMS; they are as follows:

- Any known Java restriction or limitation, which is documented in the OpenVMS Java User's guide or release notes. For more information, see the OpenVMS Technical documentation website:

  http://h18012.www1.hp.com/java/documentation/index.html

- Failures with several `org.apache.tools.ant.types.selectors` that rely on obtaining the current file size from "C" functions `fstat()` or `stat()`. These functions fail to return the correct file size under the following condition:

  - Files still open for write and have been modified

- Filename matching on OpenVMS is case insensitive, which can lead to issues if an application attempts to access two filenames that only differ by case.

- Java on OpenVMS does not allow redirecting `stdin` or `stdout` via the UNIX style file sharing methods.