VMS Software

Apache Ant V1.10-14A
for VSI OpenVMS

Installation Guide and Release Notes

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1. Introduction

Thank you for your interest in this port of Apache Ant to VSI OpenVMS. The current release of Apache Ant for VSI OpenVMS is based on the Apache Ant V1.10-14A distribution.

Apache Ant (Another Neat Tool) is a Java library and command-line tool primarily used for building Java-based applications, based on supplied description files and build target specifications; however, the design of Ant is sufficiently flexible that it can be used more generally to drive essentially any process that can be described in terms of targets and tasks and be executed by Java.

Ant provides a number of built-in tasks allowing to compile, assemble, test, and run Java applications. Ant can also be used effectively to build non-Java applications. Users of Ant can develop their own library extensions containing Ant tasks and types and are offered a large number of ready-made commercial or open-source extensions. Ant is extremely flexible and does not impose coding conventions or directory layouts upon the projects that use it as a build tool.

This VSI OpenVMS port of Apache Ant has been modified from the original Ant distribution found at https://ant.apache.org/. The modifications were required to allow for differences in behaviour on VSI OpenVMS compared to other operating systems such as Windows and Linux.

2. Software Prerequisites

Apache Ant V1.10-14A for OpenVMS requires the following software:

- VSI OpenVMS IA64 V8.4-2L1 or VSI OpenVMS x86-86 V9.2-2 Update 2 or higher

- OpenJDK 8 for VSI OpenVMS x86-64 (any version)

- Apache Ant must be installed on an ODS-5 enabled disk

3. Documentation

For detailed information about using Apache Ant, see the official Apache Ant documentation available at https://ant.apache.org/.

4. Installing Ant

The kit is provided as an OpenVMS PCSI kit that can be installed by a suitably privileged user using the following command:

```
$ PRODUCT INSTALL ANT
```

The installation will then proceed as follows (output may differ slightly from that shown):

```
The following product has been selected:
    VSI I64VMS ANT V1.10-14A                 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.
```

```
Configuring VSI I64VMS ANT V1.10-14A

    VMS Software Inc.

* This product does not have any configuration options.

Execution phase starting ...

The following product will be installed to destination:
    VSI I64VMS ANT V1.10-14A                DISK$I64V842SYS2:[VMS$COMMON.]

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

The following product has been installed:
    VSI I64VMS ANT V1.10-14A                Layered Product

VSI I64VMS ANT V1.10-14A

    Post-installation tasks are required for Ant for OpenVMS.

    After the installation is complete, perform the following tasks.

        1.  The logical name ANT$HOME must be defined to use V1.10-14A.

            $ 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
```

5. Using Ant

Before you can start using Apache Ant V1.10-14A for OpenVMS, you must define the ANT$HOME logical name. To do so, follow these steps:

Warning

The steps below assume that you have installed Apache Ant V1.10-14A for OpenVMS into the default location, which is SYS$COMMON:[000000].

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1. Define the logical name by entering the following command:

    ```
    $ DEFINE ANT$HOME SYS$COMMON:[ANT_110]
    ```

2. Define the ANT symbol by entering the following command:

    ```
    $ ANT :== @SYS$COMMON:[ANT_110.BIN]ANT.COM
    ```

Now you can boot Apache Ant V1.10-14A for OpenVMS via the **ANT** command. Note that depending on the parse style that is enabled on your system, you might need to put the **-VERSION** parameter in quotation marks as shown below:

```
$ ANT "-VERSION"
```

6. Known Issues

The following issues and limitations are known to exist in Apache Ant V1.10-14A for OpenVMS:

- Any known Java restrictions or limitations, that are documented in the VSI OpenVMS OpenJDK Release Notes.

- Failures with several org.apache.tools.ant.types.selectors that rely on obtaining the current file size from the C functions `fstat()` or `stat()`, which will fail to return the correct file size for files still open for write that 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 VSI OpenVMS does not allow redirecting `stdin` or `stdout` via the UNIX style file sharing methods.