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Read Before Installing or Using VAX Ada Version 2.2

AV-EF83J-TE

Whether you are a new or a continuing VAX Ada customer, please take time to read the following information about your product.

New VAX Ada customers should receive the following:

- The media required for Version 2.2 of VAX Ada
- User documentation
- Supplemental materials and any additionally ordered items

Continuing VAX Ada customers should receive the following:

- The media required for Version 2.2 of VAX Ada
- Supplemental materials and any additionally ordered items

Installation Information

For this release, VAX Ada Version 2.2 requires VMS Version 5.4 or higher.

Note that for this release, an Ada run-time library is installed as part of the VAX Ada kit.

If you are installing VAX Ada Version 2.2 on a newly-licensed node or cluster, you must first register a License Product Authorization Key (License PAK) using the License Management Facility (LMF). The License PAK may be shipped along with the kit if you ordered the license and media together; otherwise, it is shipped separately to a location based on your license order.

If you are installing VAX Ada Version 2.2 as an update on a node or cluster already licensed for this software, you must register the Service Update PAK (SUP) that is included in your Service Update Kit. If you already registered a License PAK or a SUP for this product on this node or cluster, you do not need to register the SUP.

If you are installing an update of VAX Ada but lack a service contract, call your Digital representative for instructions on how to get a License PAK.

See the *VMS License Management Utility Manual* for registration instructions.

Previous versions of VAX Ada do not need to be installed before this version.

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The Version 2.2 media kit consists of the following:

1. A kit, named ADA022, that contains the following components:
   - The VAX Ada compiler (ADA.EXE)
   - The VAX Ada program library manager (ACS.EXE)
   - The VAX Ada run-time library (ADARTL.EXE)
   - The VAX Ada message file (ADAMSG.EXE)
   - The Ada-from-CDD translator utility (ADA$FROM_CDD.EXE)
   - DCL command definitions for the compiler, program library manager, and Ada-from-CDD translator
   - The VAX Ada predefined library [SYSLIB.ADALIB], which is associated with the logical name ADA$PREDEFINED
   - A predefined VAX Source Code Analyzer (SCA) library [SYSLIB.ADA$SCALIB], which is associated with the logical name ADA$SCA_PREDEFINED
2. A kit, named ADAHLP022, that contains the VAX Ada help file

Release Notes Information

The release notes for VAX Ada Version 2.2 contain important installation-related information, a summary of technical changes and new features, compatibility information, current restrictions and restrictions removed, and performance information.

You can read the release notes before installing VAX Ada by invoking VMSINSTAL with the release notes option, N.

After installing VAX Ada Version 2.2, you can obtain the release notes from the file SYS$HELP:ADA022.RELEAS NOTES. The release notes are also included in the VAX Ada help kit (ADAHLP022). After you install the help kit, you can obtain the release notes by typing:

```
$ HELP ADA Release_Notes
```

Note that the release notes in the help kit are more extensive: they accumulate information across point releases, and include validation and documentation information.

Compatibility Information

Before installing VAX Ada Version 2.2, you should read the release notes. The release notes contain important information on the compatibility of VAX Ada
Version 2.2 with previous versions of VAX Ada. In particular:

- The VAX Ada Version 2.2 compiler is incompatible with VAXELN Ada Version 2.0 or lower. It requires VAXELN Ada Version 2.2.
- VAX Ada Version 2.2 introduces support for library search paths. This support is compatible with Version 2.0 and 2.1 libraries; no library upgrade or conversion is required.
- Beginning with VAX Ada Version 2.0, VAX Ada uses a new program library format that is incompatible with the format for VAX Ada Versions 1.0 through 1.5. If you are installing VAX Ada Version 2.2 on a system that is currently running a Version 1 compiler, program library manager, and so on, you must convert any Version 1 libraries to the Version 2 format using the ACS CONVERT LIBRARY command. The conversion makes all units in the library obsolete; you must recompile before you can link or perform other operations that require units that are

current. You may also need to manually enter or reenter entered units, depending on the order in which you convert your libraries and make them current.

NOTE

If you are installing VAX Ada Version 2.2 on a system that is running VAX Ada Version 2.0 or 2.1, no new library conversion is required.

A number of feature changes may affect the compatibility of VAX Ada Version 2.2 with previous versions of VAX Ada. See the release notes for more information on new VAX Ada Version 2.2 features. In particular, note that the following VAX Ada predefined units have changed and/or have been recompiled:

ASSERT
ASSERT_GENERIC (specification and body)
CONTROL_C_INTERCEPTION (body)
DIRECT_MIXED_IO (specification and body)
DTK (specification)
FLOAT_TEXT_IO
INDEXED_MIXED_IO (specification and body)
INTEGER_TEXT_IO
LBR (specification)
LIB (specification)
LONG_FLOAT_TEXT_IO
LONG_LONG_FLOAT_TEXT_IO
MTH (specification)
NCS (specification)
OTS (specification)
PPL (specification)
RELATIVE_MIXED_IO (specification and body)
RMS_ASYNCH_OPERATIONS (specification and body)
SEQUENTIAL_MIXED_IO (specification and body)
SHORT_INTEGER_TEXT_IO
SHORT_SHORT_INTEGER_TEXT_IO
SOR (specification)
SMG (specification)
STARLET (specification)
STR (specification)
TASKING_SERVICES (specification and body)
TEXT_IO (specification and body)
VAXELN_SERVICES (specification and body)

- The installation procedure allows you to save the previous version of the compiler and its environment when you install VAX Ada Version 2.2. The installation procedure also creates command procedures that allow you to switch back and forth between the compilers that you have saved and the newly installed compiler.

Contents of This Kit

- **Indented Bill Report (BIL) and Bill of Materials (BOM)**

  Please read the BIL and BOM enclosed in this kit and check to see that all items listed are actually in your kit. If your kit is damaged or any items are missing, call your Digital representative.

- **Media**

  If you ordered media, you will find the media and the *VAX Ada Installation Guide* in this kit. Consult the *VAX Ada Installation Guide* for information about installing VAX Ada on your system.

- **Documentation**

  Depending on your order, this kit may include copies of the following VAX Ada documentation:

  – *VAX Ada and VAXELN Ada Technical Summary*—This booklet summarizes the features of VAX Ada and VAXELN Ada. It is designed to allow users and vendors to compare—at a very technical level—the VAX Ada and VAXELN Ada implementations with other Ada implementations.

  – *VAX Ada Language Reference Manual*—This manual combines the text of the Ada ANSI Standard (ANSI/MIL-STD-1815A-1983) with specific information about VAX Ada. Use it as a reference for preparing VAX Ada source programs.

  – *Developing Ada Programs on VMS Systems*—This manual describes how to use the VAX Ada program library manager, and shows how to compile, link, execute, and debug VAX Ada programs on the VMS operating system.

  – *VAX Ada Run-Time Reference Manual*—This manual gives system-specific information about input-output, storage allocation, mixed-language programming, system service calls, exception handling, and tasking. It also gives information on how to improve the run-time performance.

  Note that the *VAX Ada Installation Guide* is included with the media.

- **Software Product Description (SPD)**

  The SPD provides an overview of the VAX Ada kit and its features.

- **System Support Addendum (SSA)**

  The SSA describes the technical environment in which the product is supported.

- **Software Performance Report (SPR)**

  Use this form to report any problems with VAX Ada, provided you have purchased warranty services.

A Final Note

Digital prides itself on responding to customer needs. In order to continue serving you, we need your comments. Each manual contains preaddressed, postage-paid Reader's Comments forms at the back. If you find errors in a manual or want to make comments about it, please fill out one of these forms and send it to us. If you find errors in the software, please submit an SPR, provided you have purchased warranty services.