

Software Product Description

PRODUCT NAME: DEC FUSE Version 1.2A for Sun

SPD 37.25.02

DESCRIPTION

This Software Product Description includes the following three products:

- DEC FUSE for Sun®
- DEC FUSE EnCASE for Sun
- DEC FUSE C++ Support for Sun

DEC FUSE for Sun is a prerequisite for either DEC FUSE EnCASE for Sun or DEC FUSE C++ Support for Sun.

DEC FUSE products are also available on DEC OSF/1® AXP Version 2.0 operating systems. DEC FUSE products licensed for use on DEC OSF/1 AXP Systems are described in SPD 44.71.xx.

DEC FUSE for Sun

DEC FUSE for Sun is a workstation-based programming environment for Sun C, Sun FORTRAN, and Sun Pascal. It is based on SunOS commands and utilities and features a DEC OSF/Motif® user interface which makes extensive use of dynamic, graphical capabilities.

DEC FUSE features the following tools:

- Builder with distributed building capabilities
- Debugger
- FUSE Editor
- Call Graph Browser
- Profiler
- Cross-Reference
- Code Manager
- Learn Modules
- On-line, context-sensitive Help
- "Getting started" tutorial as part of the documentation

In addition, integration support for the EMACS and vi editors is included in DEC FUSE though neither editor is licensed or shipped with DEC FUSE.

Most DEC FUSE tools feature extensive use of mouse-sensitive capabilities. For example, clicking on any part of the program calling structure displayed in the Call-Graph Browser or on a reply to a query in the Cross-Referencer causes the supported editors to focus on code relevant to that object.

Integration of tools in the environment is accomplished with the Multi-Cast Message Server (MCMS). Each tool in the DEC FUSE environment has registered input and output information with MCMS. The MCMS uses this information and appropriate directions to effect tool to tool integration of the DEC FUSE components, as exemplified above in the discussion of editors. Additional applications can be integrated into DEC FUSE through DEC FUSE EnCASE, an optional product described below.

DEC FUSE appeals to programmers and programming work groups who are not necessarily UNIX® experts, but who are looking for an integrated suite of software development tools. It also appeals to programmers familiar with UNIX who want an integrated suite of graphically oriented, workstation-based tools (in contrast to terminal-based, command-line-oriented tools).

Application development using DEC FUSE requires no conversion, filtering, or any other special preparation of SPARCstation™ based applications. DEC FUSE is an excellent tool for both new system development and system maintenance. The dynamic, mouse sensitive, graphical tools greatly simplify problem identification and program navigation, including updates to make files.

DEC FUSE EnCASE for Sun

DEC FUSE EnCASE for Sun provides a tool integration capability for DEC FUSE for Sun. Once tools are integrated within DEC FUSE, users can install them in the DEC FUSE environment, start them from the DEC FUSE Control Panel, interoperate with other DEC FUSE tools by receiving messages from DEC FUSE tools and sending messages to DEC FUSE tools, and complete tasks for tools using other DEC FUSE tool functions. The work involved in integrating additional functions and

/or tools into DEC FUSE is straightforward. If there are problems, users can debug their EnCASEd applications using DEC FUSE. In addition, DEC FUSE EnCASE provides a Message Monitor which allows users to literally see message traffic as managed by the MCMS.

Two levels of integration are supported by DEC FUSE EnCASE for Sun. The first level, script services, offers a means for quickly and easily integrating the existing features, functions, switches, options, etc., of third-party applications, utilities, or products. Integration using script services requires no modifications to the application, utility, or product being integrated. The second level of integration is provided by an Application Programming Interface (API). This not only supports integration of applications, utilities, or products into DEC FUSE but also allows for the addition or tuning of functionality resulting from the integration effort. Both script services and the API support triggers, allowing specific actions to be taken given specific causative events.

DEC FUSE EnCASE for Sun includes the following facilities for integrating new functions and tools into DEC FUSE for Sun.

- Tool Integration Language (TIL) and compiler — Used to define how the new tool is to be integrated into the DEC FUSE environment. TIL is a high-level specification language used to describe the behavior of the tool to be integrated. Attributes that are specified include its name, location, start-up specifications, and messages that will be used to the larger DEC FUSE environment. The TIL specification, when compiled, generates C Code or a UNIX script interface, which provides the integration template.
- Callable interface functions and commands — The full specification of the DEC FUSE messages that are available to an integrator.
- Message Monitor — Allows users doing integration work to view messages sent among DEC FUSE tools and is helpful in solving problems during the integration exercise. In addition, the Message Monitor logs other tool activity, such as changes in states.

DEC FUSE EnCASE for Sun provides examples for integrating command-line oriented tools, such as grep, the UNIX file searching utility. The examples ship with the product and are included in the documentation.

DEC FUSE C++ Support for Sun

DEC FUSE C++ Support for Sun provides special support features for programmers using Glockenspiel C++ 2.0B. This includes special debugging support and the window and graphics-based DEC FUSE C++ Class Browser. DEC FUSE C++ Support for Sun does not

provide a C++ license. Customers must purchase that separately.

HARDWARE REQUIREMENTS

Processors Supported

SPARCstation: SPARCstation 1, SPARCstation1+,
SPARCstation IPC, SPARCstation IPX,
SPARCstation 2, SPARCstation ELC

32 MB of memory is required for DEC FUSE Version 1.2A for Sun alone or in combination with the optional DEC FUSE EnCASE Version 1.2A and/or DEC FUSE C++ Support Version 1.2A for Sun.

Other Hardware Required:

A QICtape cartridge tape drive is required for installation.

Disk Space Requirements

Disk capacity to support 130 MB swap space for DEC FUSE Version 1.2A for Sun alone or in combination with the optional DEC FUSE EnCASE Version 1.2A for Sun and/or DEC FUSE C++ Support Version 1.2A for Sun.

Note: The DEC FUSE installation procedure installs all DEC FUSE products referred to in this document. The user must purchase a license and install a License Key for any optional DEC FUSE components.

Certain limitations of an X server may prevent the full suite of FUSE tools from being run concurrently when the display is set to an MS-DOS® or MS® Windows™ based X server.

The presence of any such limits depends upon the particular X server used. In particular cases limits might be due to the amount of physical X server memory, the amount of virtual X server memory, or the maximum size of certain MS Windows structures or tables.

Such X server limits can generally be overcome by limiting the non-FUSE applications running on or displaying to the server machine, and by invoking only those FUSE tools actually used in the current activity. Inactive FUSE tools should be terminated in such instances.

Disk space required for installation:

Root File System:	/0 MB
Other File Systems:	/usr 52 MB
	/var 0 MB

Disk space required for use (permanent):

Root File System:	/0 MB
Other File Systems:	/usr 52 MB
	/var 0 MB

These counts refer to the disk space required on the system disk. The sizes are approximate; actual sizes may vary depending on the user's system environment, configuration, and software options.

SOFTWARE REQUIREMENTS

- SunOS, Release 4.1.1 - Release 4.1.3

Note: DEC FUSE for Sun is a prerequisite for either DEC FUSE EnCASE for Sun or DEC FUSE C++ Support for Sun.

OPTIONAL SOFTWARE

- Sun C, Sun FORTRAN, Sun Pascal and Glokenspiel C++ 2.0B for DEC FUSE C++ Support for Sun.

GROWTH CONSIDERATIONS

The minimum hardware/software requirements for any future version of this product may be different from the requirements for the current version.

DISTRIBUTION MEDIA

QICtape Cartridge Tape

ORDERING INFORMATION

DEC FUSE for Sun

Software License: QL-MAVAJ-3B
 Software Media: QA-MAVAA-H*
 Software Documentation: QA-MAVAA-GZ
 Software Product Services: QT-MAVA*-**

DEC FUSE EnCASE for Sun

Software License: QL-MAWAJ-3B
 Software Documentation: QA-MAWAA-GZ
 Software Product Services: QT-MAWA*-**

DEC FUSE C++ Support for Sun

Software License: QL-MAXAJ-3B
 Software Documentation: N/A
 (Provided with DEC FUSE documentation)
 Software Product Services: QT-MAXA*-**

* Denotes variant fields. For additional information on available licenses, services, and media, refer to the appropriate price book.

SOFTWARE LICENSING

Included in your DEC FUSE License package is a Software License File Request Form. The Software License File Request Form enables the customer to request the license file necessary for the installation of DEC FUSE products for Sun.

This software is furnished only under a license. For more information about Digital's licensing terms and policies, contact your local Digital office.

License Management Facility Support:

This layered product supports the GLOBEtrötter Software, Inc. FLEXIm™ License Management Facility.

This layered product offers a Concurrent Use license. Each Concurrent Use license allows any one individual at a time to use the layered product.

SOFTWARE PRODUCT SERVICES

A variety of service options are available from Digital. For more information, contact your local Digital office.

SOFTWARE WARRANTY

Warranty for this software product is provided by Digital with the purchase of a license for the product as defined in the Software Warranty Addendum of this SPD.

The above information is valid at time of release. Please contact your local Digital office for the most up-to-date information.

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