Software Product Description

PRODUCT NAME: DECexpress Graphical Editor for RISC ULTRIX, Version 1.0

SPD 35.23.00

DESCRIPTION

DECexpress is Digital Equipment Corporation's program to implement EXPRESS-based tools of similar or like functionality, targeted to several host systems.

The DECexpress Graphical Editor is a windowsbased editing tool which will help users quickly draw EXPRESS_G ISO compliant graphical representations of EXPRESS informational models.

BACKGROUND

EXPRESS is the first internationally standardized formal language for information modeling as defined by the International Standards Organization (ISO 10303-11). EXPRESS information modeling has its origins modeling product data information, however, it is applicable to most database or information applications.

EXPRESS Language Features

· Formal Language

The EXPRESS language is intended to support rigorous specification of data. Schemas written in EXPRESS can be processed or compiled directly.

Object-Oriented

The EXPRESS language can be applied to structured object-oriented data modeling.

Enables Application Integration

EXPRESS enables application integrations based upon common, implementation-independent data models.

· Relationship to STEP

STEP is the standardization effort underway at ISO (Technical Committee 184, Sub-Committee 4) to standardize the exchange of product definition data. STEP is an abbreviation for the **St**andard for the **E**xchange of **P**roduct definition data, often referred to as the PDES standard. EXPRESS was developed within the STEP project and is used to specify the requirements of the other parts of ISO 10303,

however, EXPRESS is being applied to general information modeling applications outside of the STEP domain.

· The Information Model

In EXPRESS, a schema provides the basis for information partitioning and inter-communication. The main objects of a schema are entities and constraints. Entities are defined in terms of attributes. EXPRESS provides language elements for information objects to be defined simply, uniquely, and unambiguously with the constraint on the data clearly and concisely stated. The EXPRESS language is not a programming language, therefore it does not contain language elements that allow input/output, information programming, or exception handling.

DECexpress GRAPHICAL EDITOR FEATURES

The DECexpress Graphical Editor will automatically export EXPRESS code to a file. This exported EXPRESS code can then be edited using the DECexpress Starterkit, or any other editing tool, in order to add rules and constraints which cannot be represented graphically.

Additionally, the DECexpress Graphical Editor can output the drawing to Digital's Document Interchange Format (DDIF) and to PostScript® format.

Other notable characteristics of the DECexpress Graphical Editor are:

- Page referencing and object referencing
- · Multiple schema design
- · Combination of textual and graphical representations
- · Graphical screen navigational aid
- · Dynamic object sizing
- Context-sensitive pop-up menus

These functions are consistent with the rules of the ISO specification, ISO TC184/SC4/WG5 N17.



Restrictions

The DECexpress Graphical Editor diverts from the ISO EXPRESS specification by implementing connecting edges as lines with an arrowhead pointer at one end of the line. The ISO specification calls for mono-directional lines with circles at one end.

HARDWARE REQUIREMENTS

Processor and/or hardware configurations as specified in the System Support Addendum (SSA 35.23.00-x).

SOFTWARE REQUIREMENTS

For Workstations:

ULTRIX Worksystem Software

Refer to the System Support Addendum (SSA 35.23.00-x) for availability and required versions of prerequisite /optional software.

ORDERING INFORMATION

Software Licenses: QL-MMSA*-** Software Media: QA-MMSA*-**

Software Documentation: QA-MMSAA-GZ Software Product Services: QT-MMSA*-**

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

SOFTWARE LICENSING

This software is furnished under the licensing provisions of Digital Equipment Corporation's Standard Terms and Conditions. For more information about Digital's licensing terms and policies, contact your local Digital office.

License Management Facility Support

This layered product supports the ULTRIX License Management Facility.

License units for this product are allocated on an Unlimited System Use plus Personal Use and Concurrent Use basis.

Each Personal Use license allows one identified individual at a time to use the layered product.

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

For more information on the License Management Facility, refer to the ULTRIX Operating System Software Product Description (SPD 26.40.xx) or the *Guide to Software Licensing* in the ULTRIX Operating System documentation set.

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.

- ® PostScript is a registered trademark of Adobe Systems, Inc.
- The DIGITAL Logo, CDA, DEC, DECexpress, DECstation, DECsystem, DECwindows, Digital, TK, and ULTRIX are trademarks of Digital Equipment Corporation

System Support Addendum

PRODUCT NAME: **DECexpress Graphical Editor**

for RISC ULTRIX, Version 1.0

SSA 35.23.00-A

HARDWARE REQUIREMENTS

Processors Supported

DECstation: DECstation 2100, DECstation 3100,

DECstation 3100s

Personal DECstation 5000 Model 20/25 MX, Personal DECstation 5000 Model 20/25 HX, Personal DECstation 5000 Model 20/25 TX, Personal DECstation 5000 Model 20/25

PXG+.

Personal DECstation 5000 Model 20/25 PXG

Turbo+.

DECstation 5000 Model 120/125/133 MX. DECstation 5000 Model 120/125/133 CX, DECstation 5000 Model 120/125/133 HX, DECstation 5000 Model 120/125/133 PX, DECstation 5000 Model 120/125/133 TX, DECstation 5000 Model 120/125/133 PXG. DECstation 5000 Model 120/125/133 PXG+, DECstation 5000 Model 120/125/133 PXG

DECstation 5000 Model 120/125/133 PXG

Turbo+,

DECstation 5000 Model 200 MX. DECstation 5000 Model 200 CX, DECstation 5000 Model 200 HX, DECstation 5000 Model 200 PX, DECstation 5000 Model 200 TX, DECstation 5000 Model 200 PXG, DECstation 5000 Model 200 PXG+, DECstation 5000 Model 200 PXG Turbo, DECstation 5000 Model 200 PXG Turbo+,

DECstation 5000 Model 240 MX, DECstation 5000 Model 240 HX, DECstation 5000 Model 240 TX, DECstation 5000 Model 240 PXG+, DECstation 5000 Model 240 PXG Turbo+

Processors Not Supported

This product does not support any VAX-based processors running the ULTRIX Operating System.

Additionally, as this product is a DECwindows-based product, the following DECsystem processors will not be supported:

DECsystem 3100,

DECsystem 5000 Model 25, DECsystem 5000 Model 200, DECsystem 5000 Model 240,

DECsystem 5100, DECsystem 5400, DECsystem 5500, DECsystem 5810, DECsystem5820, DECsystem 5830, DECsystem 5840, DECsystem 5900

Disk Space Requirements

Disk space required for installation:

Root file system: 0 Kbytes Other file systems: usr 8,000 Kbytes

Disk space required for use (permanent):

Root file system: 0 Kbytes usr 6,000 Kbytes Other file systems:

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.

Memory Requirements for DECwindows Support

The minimum supported memory for this application running in a standalone DECwindows environment with both the client and server executing on that same system is 16 Mbytes.

The performance and memory usage of DECwindows applications are particularly sensitive to system configuration. Less memory may be required on the client system (the system where the software is installed and executed) if the server (the component that displays the application) resides on another system. More memory may be required on a system with several applications running or where it may be desirable to improve the performance of an application.



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The performance of windows-based functions is highly dependent upon the amount of physical memory present. At least 24 to 34 megabytes of physical memory are recommended for typical EXPRESS_G models.

SOFTWARE REQUIREMENTS

For Workstations:

• ULTRIX Worksystem Software V4.3

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

TK50 Streaming Tape

ORDERING INFORMATION

Software Licenses: QL-MMSA*-** Software Media: QA-MMSA*-**

Software Documentation: QA-MMSAA-GZ Software Product Services: QT-MMSA*-**

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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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