

DECtalk™ Software

Installation Guide

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This guide describes how to install DECtalk Software.

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Software Version:	DECtalk Software Version 4.6

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Contents

Preface	vii
Purpose and Audiences	vii
Structure	vii
What's New in DECTalk Software V4.6?	vii
What's New in DECTalk Software V4.5?	viii
What's New in DECTalk Software V4.4?	ix
What's New in DECTalk Software V4.3?	x
Windows Online Help	x
FAQs: Frequently Asked Questions about DECTalk Software	xi
Conventions	xiv
 Chapter 1 — Installing DECTalk Software for Windows 95/98/NT	 1-1
Preparing for Installation	1-2
Release Notes	1-2
Software License	1-2
Hardware Requirements	1-2
Audio Output Device	1-3
Required Disk Space and Software	1-3
Installing DECTalk Software	1-4
Solving Installation Problems	1-8
 Chapter 2 — Installing DECTalk Software for Windows CE	 2-1
Preparing for Installation	2-3
Release Notes	2-3
Software License	2-3
Hardware Requirements	2-3

Audio Output Device	2-4
Required Disk Space and Software	2-4
Installing DECtalk Software	2-5
Solving Installation Problems	2-9
 Chapter 3 — Installing DECtalk Software for Tru64 UNIX	 3-1
What's the Difference Between the DECtalk Software Runtime Kit and the DECtalk Software Development Kit?	3-2
License Requirements	3-2
Installing DECtalk Runtime Software for Tru64 UNIX	3-3
Preinstallation Tasks	3-4
Accessing the Release Notes	3-4
Registering Your Software Licenses	3-5
Checking the Software Distribution Kit	3-6
Meeting Hardware Requirements	3-8
Meeting Software Requirements	3-9
Checking Current Disk Space	3-9
Increasing Disk Space by Using Alternative Disks	3-10
Installation Procedure	3-10
Using the CD-ROM	3-11
Using an RIS Distribution Area	3-11
Starting the Installation Procedure	3-12
Selecting Subsets	3-12
Stopping the Installation	3-16
Post-Installation Tasks	3-17
Running the Installation Verification Procedure	3-17
Deleting DECtalk Software from Your System	3-18
Displaying Documentation from the CD-ROM	3-18
Correcting Problems During Product Installation	3-18
Reporting Problems	3-19
Compaq Support	3-19
Installing DECtalk Software Development Kit for Tru64 UNIX	3-21
Preinstallation Tasks	3-22
Accessing the Release Notes	3-22
Registering Your Software Licenses	3-23

Checking the Software Distribution Kit.....	3-24
Meeting Hardware Requirements	3-25
Meeting Software Requirements.....	3-26
Checking Current Disk Space.....	3-26
Increasing Disk Space by Using Alternative Disks.....	3-27
Installation Procedure	3-27
Using the CD-ROM Consolidated Distribution Media.....	3-28
Using an RIS Distribution Area	3-28
Starting the Installation Procedure.....	3-29
Selecting Subsets	3-30
Stopping the Installation.....	3-33
Post-Installation Tasks	3-34
Running the Installation Verification Procedure	3-34
Deleting DECTalk Software from Your System	3-34
Displaying Documentation from the CD-ROM Distribution Disc.....	3-35
Reporting Problems	3-36
Compaq Support.....	3-36
Index.....	1

Figures

<i>Figure 1-1— Installing DECTalk Software for Windows 95/98/NT</i>	<i>1-6</i>
<i>Figure 2-1 Installing DECTalk Software for Windows CE</i>	<i>2-7</i>

Tables

<i>Table 1-1— Installing DECTalk Software for Windows 95/98/NT</i>	<i>1-7</i>
<i>Table 2-1 Installing DECTalk Software for Windows CE.....</i>	<i>2-8</i>

Preface

Purpose and Audiences

This guide describes how to install DECtalk Software Development Kits (SDKs) for:

- Windows 95, 98, and NT
- Windows CE
- Tru64 UNIX

In addition, this guide describes how to install the DECtalk runtime software on a Tru64 UNIX system.

The instructions documented in this guide do not cover basic user information for the operating system. Only information specific to installing DECtalk Software is included.

Structure

The guide is organized as follows:

- Chapter 1** Installing DECtalk Software for Windows 95/98/NT
- Chapter 2** Installing DECtalk Software for Windows CE
- Chapter 3** Installing DECtalk Software for Tru64 UNIX

What's New in DECtalk Software V4.6?

DECtalk Software V4.6 contains the following new features:

- Registry entries have been changed to reflect the transition of DECtalk Software from Compaq Computer Corporation to SMART Modular Technologies, Inc.
- Installation tested on Windows 98.
- Support for the German language.
- Disabled license error pop-up window from the DECtalk API (DAPI) engine.

- Significantly increased Microsoft Speech API (SAPI) compliance; see APPENDIX3.TXT.
- Enhanced Latin American and Castilian Spanish.
- CE version, which includes a static version of WINDIC .exe for the WINDOWS host to support a user-defined dictionary, and full registry support.
- Y2K compliance.
- Over 170 bugs have been fixed, including:
 - ❑ Various application or system hangs or crashes caused by data path, synchronization and dictionary failures have been corrected.
 - ❑ User dictionary compiler failures have been corrected.
 - ❑ Wave file headers have been corrected.
 - ❑ Use of extended ASCII characters have been corrected.
 - ❑ New in-line command **Say filtered-letter** added.
 - ❑ Number processing changes automatically by language.
 - ❑ Memory leaks have been corrected.
 - ❑ Main dictionary wordclass and function words added.
 - ❑ Word and number stressing have been corrected.
 - ❑ Diphthong, phoneme, homograph and allophone processing have been corrected.

What's New in DECTalk Software V4.5?

DECTalk Software V4.5 for Windows 95 and Windows NT contains the following new features:

- Distributed on CD-ROM.
- Year 2000 support speaks 4-digit year specifications as 4-digit year specifications. For example, the year 1998 is spoken as nineteen ninety eight. Year 2000 support speaks 2-digit year specifications as a 2-digit number without assuming the century. For example, the year 98 is spoken as ninety eight.
- United Kingdom English has been added.

- SAPI mark syntax (\mrk=\ tag) is working. The TextData interface now accepts tagged text. The \mrk=\ tag is the only tag supported. Other tags are ignored.
- ITTSBufNotifySink: The BookMark and WordPosition interfaces are now functional. The timing of the TextDataStarted and TextDataDone notifications has been corrected.
- ITTSNotifySink: The Visual interface is now functional; the timing of the AudioStart and AudioStop notifications has been corrected.
- DECTalk Software V4.6 provides better indexing performance than previous versions.
- Multi-Language (ML) support is functional.
- Sample programs Speak and dtsample have been updated to Multi-Language (ML) functionality. All sample applets are ML-compliant code. Some sample applets demonstrate ML-application programming.
- The User Dictionary compiler now handles accent characters (extended ASCII).
- OLE notification support, AudioStart and AudioStop, are now returned.

The current DECTalk Software implementation of the Microsoft Speech API (SAPI) is described in the appendix3.txt file that is included with the DECTalk Software installation files.

What's New in DECTalk Software V4.4?

DECTalk Software V4.4 for the Windows operating system contains the following new features:

- DECTalk Software is available in multiple languages: American English, Castilian Spanish, Latin-American Spanish, and German.
- Advanced preprocessing rules have been added.
- Email parsing has been added to the Mode in-line command to expand abbreviations and initialisms as well as stripping unwanted header and footer information.
- The SPEAK.EXE demonstration program now shows highlighting.
- The **Sync** command, which previously had to be reversed, now works as documented.

What's New in DECtalk Software V4.3?

In addition to the new features in DECtalk Software V4.4, the following DECtalk V4.3 features are new to users of DECtalk Software V4.2:

- Support for operation on the Windows operating system has been added.
- Support for SAPI has been added.
- Support for OLE has been added.
- Support for multi-threaded and multi-instance operation has been added.
- Expanded main dictionary has been added.
- A new document, the *DECtalk Software Reference Guide* has been added. This guide provides an overview and reference listings of the DECtalk in-line commands.
- User-dictionary suffix processing to help locate words in the user dictionary has been added.
- Expanded pronunciation rules and improved pronunciation have been added.
- Homograph processing has been added.
- Improved in-line index-mark processing has been added.
- The following in-line commands have been added:
 - Play command to play wave audio files in line with text.
 - Tone command to generate tones.
 - Dial command to generate DTMF tones used to dial telephone numbers.
 - Stereo volume control commands.
- A new Text-to-Speech Dynamic Data Exchange (DDE) server that can be used to run DECtalk Software from within an application, such as MS Word has been added.
- A speech-to-memory Sample program has been added.
- An enhanced User Dictionary Builder that automatically translates text strings into phonemes has been added.
- A new command-line applet named Say that runs DECtalk Software from the Windows command line has been added.

Windows Online Help

DECtalk Software online Help is part of the application and is easily accessed from any of the applets or from the Help icon in the DECtalk program group.

You can find specific information in Help by using keyword searches and the index. Windows Help has a powerful cross-referencing facility that allows you to access many related topics in the same session.

The DECtalk Help file provides help on:

- **DECtalk applets**

You also can access help on specific applets when you display help by double-clicking the Help icon, double-click the DECtalk Software Help book, and choose Graphical Programming Applet Master Index. Click the icon of the applet for which you want help.

- **DECtalk Software APIs and API function calls**

Display Help by double-clicking the Help icon:

- ☐ Double-click the DECtalk Software Help book, double-click the Programmer's Guide, and choose Introduction to the DECtalk Software API
- ☐ Double-click the DECtalk Software Help book, double-click the Reference Guide, and choose DECtalk Software API Function Calls

- **DECtalk Software in-line commands**

Display Help by double-clicking the Help icon, double-click the DECtalk Software Help book, double-click the Reference Guide and choose:

- ☐ DECtalk Software In-Line Commands
- ☐ Using In-Line Commands

- **DECtalk Software reference tables**

Display Help by double-clicking the Help icon, double-click the DECtalk Software Help book, double-click the Reference Guide, and choose DECtalk Software Reference Tables.

FAQs: Frequently Asked Questions about DECtalk Software

Q: What is DECtalk Software?

A: DECtalk Software is software that converts ASCII text into speech without the use of special or proprietary hardware.

Q: What hardware does it support? Does it work or require a DECtalk hardware device?

A: Although DECtalk Software does not need any specialized hardware (specialized hardware is defined as boards and devices released over the past 12

years with other DECTalk products) for the text-to-speech conversion process, you must have a sound card installed or built into your computer.

Q: Who is DECTalk Software for?

A: DECTalk Software is for users and developers.

For users, there are the Speak, Sample, and Dictionary applets. These provide a runtime environment in which users can speak text files directly with DECTalk or through other applications, such as Microsoft Word.

For the developer, DECTalk also provides an API that can be used to include text-to-speech synthesis in Windows applications.

Q: How long does it take DECTalk Software to start speaking?

A: DECTalk Software is optimized for quick startup. However, speaking start time is hardware (processor type) and software (operating system) dependent.

Q: Can DECTalk Software be used in a telephony environment.

A: Yes, DECTalk Software supports 8-bit mu-law synthesis and a multi-instance environment with the proper licenses.

Q: Can I create my own DECTalk voice?

A: Yes! In addition to the nine predefined voices, you can create a customized voice of your own. See Chapter 5 in the *DECTalk Software Reference Guide*.

Q: What is the difference between DECTalk Software for the Windows operating system and other DECTalk products?

A: The DECTalk family of products is listed in the following table.

Product	Target Operating System	Comments
DECTalk Software SDK for the Windows NT Operating System	Windows 95/98/ NT	Has API and OLE
DECTalk Software SDK for the Windows NT Operating System	Windows CE	Has API and OLE
DECTalk Software SDK for Tru64 UNIX	Tru64 UNIX	Has API

Product	Target Operating System	Comments
DECTalk Software Runtime System for Tru64 UNIX	Tru64 UNIX	Provides access to Say, Speak, emacspeak, aclock, and windict
DECTalk-PC (DTC07)	DOS	Hardware assisted
DTC01	Custom	6800 cpu based, serial port, telephone interface product (assistive)
DTC03	Custom	Rack mount telephone interface product (non-assistive)
DTC05	Custom	
DECTalk Express (DTC08)	Custom	Box with a serial interface and speaker

Conventions

The following conventions are used in this guide:

Convention	Meaning
enter	<i>Enter</i> means type the required information and press the Enter key.
mouse	<i>Mouse</i> refers to any pointing device, such as a mouse, a puck, or a stylus.
MB1	<i>MB1</i> indicates the left mouse button.
click	<i>Click</i> means to press and release MB1.
Double click	<i>Double click</i> means to press and release MB1 twice in rapid succession without moving the mouse.
drag	The phrase <i>drag</i> means to press and hold MB1, move the mouse, and then release MB1 when the pointer is in the desired position.
Ctrl/x	Press the Ctrl key while you press another key.
Menu Command	The right arrow key indicates an abbreviated instruction for choosing a command from a menu. For example, <i>File Exit</i> means pull down the File menu, move the pointer to the Exit command, and release MB1.
Courier type	<i>Courier type</i> indicates text that is typed or displayed on the screen. This is most often used for program code examples.
User Input	Boldface type in interactive examples indicates information you enter from the keyboard. For example: A:> SETUP
XX YY and XXn YYn	In DECtalk Software in-line command syntax, XX and YY indicate options and parameters. When more than one choice of options or parameters is allowed, the symbol XXn or YYn with n replaced by a numeral indicates each option or parameter in the symbolic representations, such as [:phoneme XX1 XX2 YY]. Note that the number of characters in the symbolic representation does NOT represent the number of characters allowed in the actual option or parameter name.
DD and DDn	In DECtalk Software in-line command syntax, DD indicates a decimal (base 10) value. When more than one decimal values are allowed, the symbol DDn with n replaced by a numeral represents each allowed value, such as [:volume XX DD1 DD2]. Note that the number of characters in the symbolic representation does NOT represent the number of characters allowed in the actual decimal value.

Conventions used in API calls

Italics Italic text emphasizes important information.

Unless you are otherwise instructed, press **Enter** after typing responses to command prompts.

Chapter 1 — Installing DECtalk Software for Windows 95/98/NT

This chapter provides information you need to install the DECtalk Software Development Kit (SDK) for Windows 95/98/NT on a host computer system. The chapter also gives important instructions for registering your DECtalk Software product.

Specific topics include:

- Preparing for installation
- Installing DECtalk Software
- Solving installation problems

Preparing for Installation

DECTalk Software is installed from the installation media shipped with the product. The installation should take you no longer than ten minutes to complete. You can install DECTalk Software from the Windows command line or from within the File Manager.

Before installing DECTalk Software, make sure that all prerequisite software and hardware components are installed on your system. Consult the release notes and carefully read the DECTalk Software license agreement. You should back up the disk or file system on which you will be installing DECTalk Software before you perform the installation.

Release Notes

Before you install the DECTalk Software product, you should read the release notes in the `readme.txt` file found in the installation directory. These notes contain the latest information about the product.

Software License

The software license is subject to the software agreement enclosed in the product kit containing the installation disks and documentation.

Hardware Requirements

Hardware requirements include a standard audio sound card and adequate disk space for installation.

DECTalk Software performance is dependent on your system having enough computational power to perform all the computations involved in text-to-speech conversion. See the Software Product Description or release notes for a list of the latest supported systems.

Note

DECtalk Software performance can be affected in a heavily loaded multitasking environment where DECtalk Software could become starved for computational power and will not speak continuously. There might be pauses in output for any application running on such a system.

Audio Output Device

Your system must be configured with an audio device and appropriate driver that support 8-bit or 16-bit data format at an 11.025 kHz sample rate. You can install DECtalk Software without an audio device present and capture .WAV audio files; however, an audio device must be present to actually have DECtalk Software speak text.

Required Disk Space and Software

DECtalk Software requires:

- A minimum of 3 MB disk space for proper configuration and installation.
- The Windows NT or Windows 98, or Windows 95 operating system to be installed and running on your computer.

Installing DECtalk Software

You can install DECtalk Software from within Windows using the Windows Explorer or from the Windows operating system Run dialog.

If a previous version of DECtalk Software exists on your system, the new installation overwrites it.

Note

Before installing this version of DECtalk Software, close any running DECtalk applications and uninstall any existing DECtalk Software.

This Software Development Kit (SDK) is on a single CD-ROM that contains English U S, English U K, Castilian Spanish, Latin American Spanish, and Multi-Language (ML) installation disk image sets.

Each language specific image set consists of 7 disk images. These separate into a 3-disk image set for installation on Intel processors and a 4-disk image set for installation on Alpha processors. Each disk image set is further separated into install disk images and an incremental license/key disk image.

To install DECtalk Software:

1. Select the disk image set for the desired language. The languages are in separate directories on the CD-ROM and are identified as follows:
 - * "us" is English US
 - * "uk" is English UK
 - * "sp" is Spanish Castilian
 - * "la" is Spanish Latin American
 - * "gr" is German

2. Select the disk image set for the target processor (Intel or Alpha).

The ML install disk image set consists of one single disk image for Intel and one for Alpha. There is no incremental license/key disk image for ML.

3. Identify the install disk images that make up the install kit and the single disk image that has the incremental license/key program.
4. Run the program SETUP.EXE from the installation disk image 1.

You can do this in one of three ways, as shown in *Figure 1-1* and *Table 1-1*:

- Click program `SETUP.EXE` in the Windows Explorer.
- Use the Windows Run dialog box.
- Use the MS-DOS window to select the appropriate drive for the distribution media by typing the proper drive letter (for example, `e :`), change the default directory to the language or ML specific directory, then change the default directory to the processor type specific directory, (`cd us\intel`), then type `SETUP` and press Enter.

The setup program then prompts for any additional information (Username, company, destination drive). Possible distribution media include floppy disks and CD-ROMs. The drive for floppy disks is usually the `a :` drive; the drive for CD-ROMs can be `d :`, `e :`, or any other letter mapped to the CD-ROM reader drive.

When the installation is complete and if you are installing a specific language, find the incremental license/key directory (`license`) in the file manager, or in an MS-DOS window, change the default directory to the incremental license/key directory (`cd license`), and run the program `LICENINC3.EXE` to increment the license/key count to 4.

- Consult the DECtalk Software Documentation for additional information.
- For a listing of files contained in the source media, refer to file `APPENDIX1.txt`.
- For development hints, refer to file `APPENDIX2.txt`.
- For a list of Microsoft Speech API functions supported by DECtalk Software, refer to file `APPENDIX3.txt`.

Figure 1-1— Installing DECTalk Software for Windows 95/98/NT

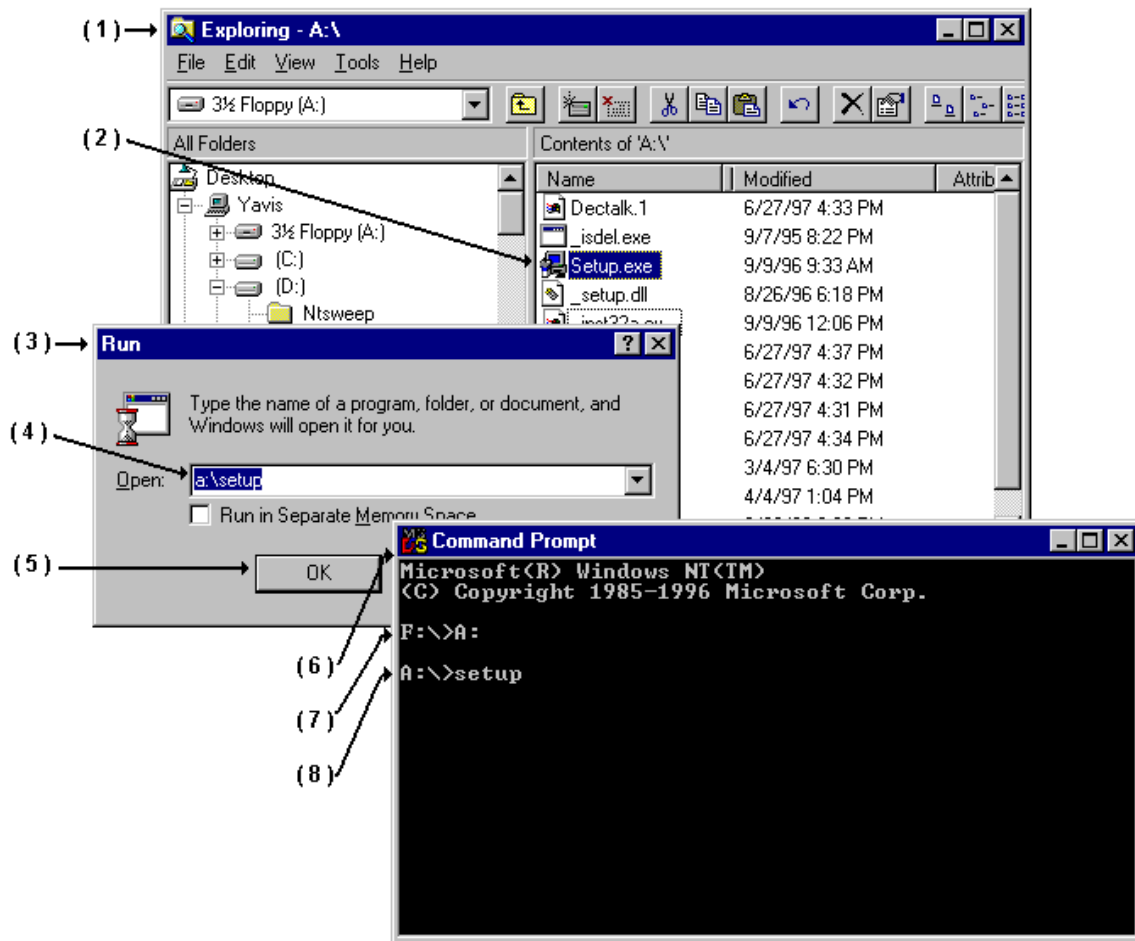


Table 1-1— Installing DECtalk Software for Windows 95/98/NT

Task/Location	Action	Result
Drive for the distribution media	For all installation procedures, insert the distribution media in an appropriate drive for that media.	
<i>Installing DECtalk Software from the Windows Explorer</i>		
With the Windows Explorer displayed (1)	<ul style="list-style-type: none"> Step 1 - Display the directory listing for the drive with the distribution media. Step 2 - Select the disk image set for the target processor. Step 3 - Double click the setup.exe file. (2) 	The DECtalk Software installation process begins.
<i>Installing DECtalk Software from the Windows Run dialog box</i>		
On the Task Bar	<ul style="list-style-type: none"> Step 1 - Click Start 	The Workstation menu is displayed.
On the Workstation menu	<ul style="list-style-type: none"> Step 2 - Click Run. 	The Run dialog box is displayed. (3)
Run dialog box (3)	<ul style="list-style-type: none"> Step 3 - Enter a:\setup. (4) (where a: is replaced by the appropriate drive letter for the drive with the distribution media.) Step 4 - Click on OK. (5) 	The DECtalk Software installation process begins.
<i>Installing DECtalk Software from the Windows Command Prompt dialog</i>		
On the Task Bar	<ul style="list-style-type: none"> Step 1 - Click Start, then click Programs. 	The Command Prompt dialog (6) displays.
Command Prompt dialog. (6)	<ul style="list-style-type: none"> Step 2 - From the programs list, click Command Prompt. Step 3 - Set the default directory to the drive letter for the drive with the distribution media by typing that letter followed by a colon. (7) Step 4 - Enter setup and respond to the prompts. (8) 	
		The DECtalk Software installation process begins.

Task/Location	Action	Result
For all installation procedures:	DECtalk Software prompts you for required installation information through a number of screen prompts. A message is displayed when installation is complete.	

Solving Installation Problems

If errors occur during the installation procedure, DECtalk Software returns an error message. Installation errors usually occur if any of the following conditions exist:

- The operating system version is incorrect.
- The prerequisite software and hardware components or version is missing or incorrect.
- Insufficient disk space is available.
- System files and parameters are not updated to reflect exact file locations and directory naming conventions.

If you have problems while using DECtalk Software and you believe the error is caused by the application, do one of the following based on the type of support service your organization has obtained from SMART:

- If you have a Software Product Services Support Agreement, contact your Customer Support Center for advisory and remedial advice.
- Submit a Software Product Report (SPR).

Chapter 2 — Installing DECtalk Software for Windows CE

This chapter provides information you need to install the DECtalk Software Development Kit (SDK) for Windows CE on a Windows NT host system running on an Intel processor. The NT system must host a Personal Digital Assistant (PDA) in one of the following configurations:

- MIPS hardware running Windows CE Version 2.0
- SH3 hardware running Windows CE Version 2.0
- Windows CE Emulator (X86EM), running on a Windows NT system

Speech is playable through audio hardware on a MIPS or SH3 PDA target system or an X86EM emulator.

Check the label on your CD-ROM media to make sure that you are using the right CD-ROM for your requirements.

Specific topics in this chapter include:

- Preparing for installation
- Installing DECtalk Software
- Solving installation problems
- Information about registering your DECtalk Software product

Notes

- The following formats are not supported in any TextToSpeech...() function call because of a limitation in the Windows CE operating system: WAVE_FORMAT_1M16 and WAVE_FORMAT_08M08.
- The Windows CE SDK includes English U S, English U K, Castilian Spanish, Latin American Spanish, and German. Multi-Language (ML) support is not provided.
- The Windows CE SDK does not support Microsoft Speech API (SAPI) functions.

Preparing for Installation

DECTalk Software is installed from the installation media shipped with the product. The installation should take you no longer than ten minutes to complete. You can install DECTalk Software from the Windows command line or from within the File Manager.

Before installing DECTalk Software, make sure that all prerequisite software and hardware components are installed on your system. Consult the release notes, carefully read the DECTalk Software license agreement, and read the section of this chapter labeled *Hardware Requirements*. You should back up the disk or file system you will be installing DECTalk Software on before you perform the installation.

Release Notes

Before you install the DECTalk Software product, you should read the release notes in the readme.txt file found in the installation directory. These notes contain the latest information about the product.

Software License

The software license is subject to the software agreement enclosed in the product kit containing the installation disks and documentation.

Hardware Requirements

Hardware requirements include a standard audio sound card and adequate disk space for installation.

DECTalk Software performance is dependent on your system having enough computational power to perform all the computations involved in text-to-speech conversion. See the Software Product Description or release notes for a list of the latest supported systems.

Note

DECTalk Software performance can be affected in a heavily loaded multitasking environment where DECTalk Software could become starved for computational power and will not speak continuously. There might be pauses in output for any application running on such a system.

Audio Output Device

Your system must be configured with an audio device and appropriate driver that support 8-bit or 16-bit data format at an 11.025 kHz sample rate. You can install DECTalk Software without an audio device present and capture .WAV audio files; however, an audio device must be present to actually have DECTalk Software speak text.

Required Disk Space and Software

DECTalk Software requires:

- A minimum of 3 MB disk space for proper configuration and installation.
- DECTalk Software SDK for Windows CE requires that you have the Windows NT, Windows 95, or Windows 98 operating systems installed and running on your computer.

Installing DECtalk Software

You can install DECtalk Software from within Windows using the Windows Explorer or from the Windows operating system Run dialog.

If a previous version of DECtalk Software exists on your system, the new installation overwrites it.

Note

Before installing this version of DECtalk Software, close any running DECtalk applications and uninstall any existing DECtalk Software.

This Software Development Kit (SDK) is available on a dedicated CD-ROM for Windows CE. The CD-ROM contains English U S, English U K, Castilian Spanish, Latin American Spanish, and German installation disk image sets. The Multi-Language (ML) installation disk image set is not available for Windows CE.

Each language specific image set consists of 3 or 4 disk images for installation on an Intel host system. Each disk image set includes an incremental license/key disk image.

To install DECtalk Software:

1. Select the disk image set for the desired language. The languages are in separate directories on the CD-ROM and are identified as follows:
 - "us" is English US
 - "uk" is English UK
 - "sp" is Spanish Castilian
 - "la" is Spanish Latin American
 - "gr" is German
2. Select the disk image set for the Intel host system.
3. Identify the install disk images that make up the install kit and the single disk image that has the incremental license/key program in the lock_mgr folder.
4. To run DECtalk Software on the Windows CE target system:
 - a) Set up the registry manually, using the Windows CE remote registry editor.

- b) Look into the registry setup on your NT host.
- c) copy that information to the CE device information location.
- d) Use the licensing information and other details in the registry already set up on the host system.

For a minimum setup, follow this example:

- a) Run the regedit utility.
- b) Look in HKEY_LOCAL_MACHINE.
- c) Configure the target system as follows:

HKEY_LOCAL_MACHINE\SOFTWARE\DECtalk Software\DECtalk\ 4.60
licenses "your license@onhost"

HKEY_LOCAL_MACHINE\SOFTWARE\DECtalk Software\DECtalk\4.60\US
MainDict "Dictionary path"

Language "ENGLISH,US"

5. Run the program SETUP.EXE from the installation disk image 1.

You can do this in one of three ways:

- Click on program SETUP . EXE in the file manager.
- Use the Windows Run dialog box.
- In an MS-DOS window, select the appropriate drive for the distribution media by typing the proper drive letter (for example, e :), change the default directory to the language or ML specific directory, then change the default directory to the processor type specific directory, (cd us\intel), then type SETUP and press Enter.

The setup program then prompts for any additional information (Username, company, destination drive). Possible distribution media include floppy disks and CD-ROMs. The drive for floppy disks is usually the a : drive; the drive for CD-ROMs can be d : , e : , or any other letter mapped to the CD-ROM reader drive.

If you are using the file manager to install a specific language, when the installation is complete, find the incremental license/key directory (license) in the file manager. If you are using an MS-DOS window, when the installation is complete, change default directory to the incremental license/key

directory (`cd license`), and run the program LICENINC3.EXE to increment the license/key count to 4.

- Consult the *DECtalk Software Programmer's Guide* for additional information.
- For a listing of files contained in the source media, please refer to file APPENDIX1.txt.
- For development hints, refer to file APPENDIX2.txt.

Figure 2-1 *Installing DECtalk Software for Windows CE*

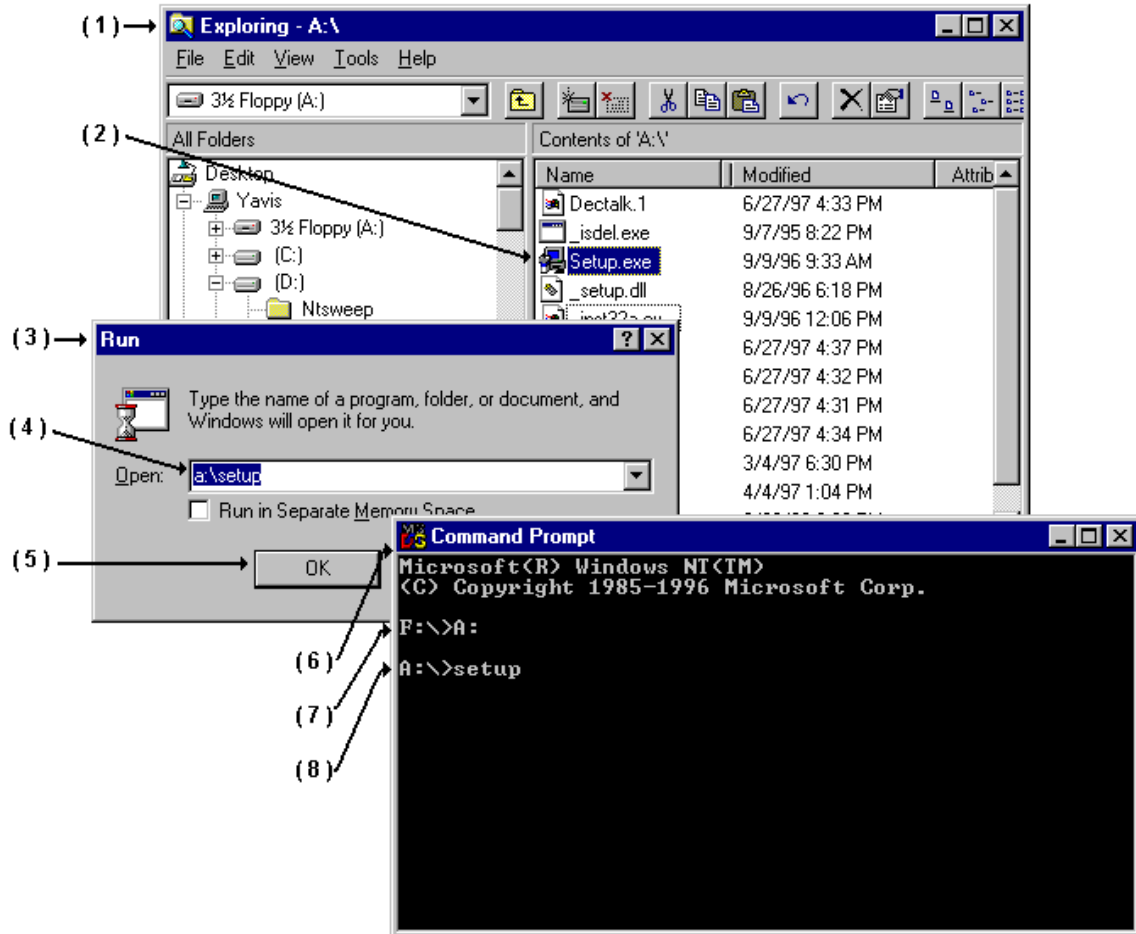


Table 2-1 *Installing DECtalk Software for Windows CE*

Task/Location	Action	Result
Drive for the distribution media	For all installation procedures, insert the distribution media in an appropriate drive for that media.	
<i>Installing DECtalk Software from the Windows Explorer</i>		
With the Windows Explorer displayed (1)	<ul style="list-style-type: none"> Step 1 - Display the directory listing for the drive with the distribution media. Step 2.- Select the disk image set for the target processor. Step 3 - Double click the setup.exe file. (2) 	The DECtalk Software installation process begins.
<i>Installing DECtalk Software from the Windows Run dialog box</i>		
On the Task Bar	<ul style="list-style-type: none"> Step 1 - Click Start 	The Workstation menu is displayed.
On the Workstation menu	<ul style="list-style-type: none"> Step 2 - Click Run. 	The Run dialog box is displayed. (3)
Run dialog box (3)	<ul style="list-style-type: none"> Step 3 - Enter a:\setup. (4) (where a: is replaced by the appropriate drive letter for the drive with the distribution media.) Step 4 - Click on OK. (5) 	The DECtalk Software installation process begins.
<i>Installing DECtalk Software from the Windows Command Prompt dialog</i>		
On the Task Bar	<ul style="list-style-type: none"> Step 1 - Click Start, then click Programs. Step 2 - From the programs list, click Command Prompt. 	The Command Prompt dialog (6) displays.
Command Prompt dialog. (6)	<ul style="list-style-type: none"> Step 3 – Set the default directory to the drive letter for the drive with the distribution media by typing that letter followed by a colon. (7) 	

Task/Location	Action	Result
For all installation procedures:	<ul style="list-style-type: none"> Step 1 - Enter setup and respond to the prompts. (8) <p>DECtalk Software prompts you for required installation information through a number of screen prompts.</p> <p>A message is displayed when installation is complete.</p>	The DECtalk Software installation process begins.

Solving Installation Problems

If errors occur during the installation procedure, DECtalk Software returns an error message. Installation errors usually occur if any of the following conditions exist:

- The operating system version is incorrect.
- The prerequisite software and hardware components or version is missing or incorrect.
- Insufficient disk space is available.
- System files and parameters are not updated to reflect exact file locations and directory naming conventions.

If you have problems while using DECtalk Software and you believe the error is caused by the application, do one of the following based on the type of support service your organization has obtained from SMART:

- If you have a Software Product Services Support Agreement, contact your Customer Support Center for advisory and remedial advice.

Chapter 3 — Installing DECtalk Software for Tru64 UNIX

This chapter describes the tasks required to install DECtalk runtime and development software on Tru64 UNIX systems. Topics include:

- Differences between the DECtalk Software Runtime Kit and the DECtalk Software Development Kit
- License requirements
- Installing DECtalk Runtime Software for Tru64 UNIX
- Installing DECtalk Development Software for Tru64 UNIX

What's the Difference Between the DECtalk Software Runtime Kit and the DECtalk Software Development Kit?

DECtalk Software for Tru64 UNIX is packaged as a runtime kit and a development kit. The runtime kit gives you access to the following DECtalk Software applications: say, speak, emacspeak, aclock, and windict.

To develop your own DECtalk Software applications, you must order the DECtalk Software Development Kit. The DECtalk Software Development Kit gives you access to the DECtalk Software API and sources for some sample application programs.

Note:

You must install the runtime kit before you install the development kit.

License Requirements

You can run one copy of any DECtalk Software application at a time without needing an LMF license. A license is required to run more than one copy of the runtime kit or to use the DECtalk Software Development Kit. See the sections labeled Registering Your Software Licenses under each software kit for more information.

Installing DECtalk Runtime Software for Tru64 UNIX

This section describes the preinstallation, installation, and post-installation tasks required to install the DECtalk Software runtime kit on Tru64 UNIX systems.

Topics include:

- Preinstallation tasks
 - Accessing the Release Notes
 - Registering your software licenses
 - Checking the software distribution kit
- Installation procedure requirements
 - Hardware requirements
 - Software requirements
 - Checking current disk space
 - Increasing disk space by using alternative disks
 - Installation tasks
 - Using the CD-ROM consolidated distribution media
 - Using an RIS distribution area
 - Starting the installation procedure
 - Selecting subsets
 - Stopping the installation
- Post-installation tasks
 - Running the installation verification procedure
 - Deleting DECtalk software from your system
 - Displaying documentation from the CD-ROM distribution disc
 - Correcting problems during product installation
 - Reporting problems

The runtime software installation procedure installs all files in subdirectories under:

```
/usr/opt/DTKRT460
```

After a successful installation, DECtalk Software online help is accessible in two forms:

- Manpages – Invoke manpage help from the UNIX command line with the **%man speak** command
- HTML Hypertext – Start hypertext help by launching a web browser and loading the online help html file `defaultdectalk.html` from the CD-ROM.

Preinstallation Tasks

This section covers the preinstallation tasks you must perform before installing the DECtalk Software runtime kit. Topics include:

- Accessing the Release Notes
- Registering your software licenses
- Checking the software distribution kit
- Meeting hardware requirements
- Meeting software requirements
- Checking current disk space
- Increasing disk space by using alternative disks

Accessing the Release Notes

DECtalk Software provides release notes containing information about changes to DECtalk Software for Tru64 UNIX. You should read these release notes before using the product. See the *Compact Disc User's Guide* shipped with your media for instructions about how to access the release notes prior to the software installation.

The release notes for the DECtalk Software runtime kit are in the following files after the DTKRTRELNOTES460 subset is installed:

```
/usr/opt/DTKRT460/docs/ascii/release_notes_rt.txt
```

```
/usr/opt/DTKRT460/docs/postscript/release_notes_rt.ps
```

To read the release notes for DECtalk Software use the following command:

```
# more  
/usr/opt/DTKRT460/docs/ascii/release_notes_rt.txt
```

You can also print either file.

Registering Your Software Licenses

DECTalk Software includes support for the License Management Facility (LMF). You must register your license product authorization keys (License PAKs) in the license database (LDB) to use DECtalk Software on a newly licensed system. The License PAKs are shipped with the kit if you ordered the licenses and media together; otherwise, they are shipped separately to a location specified on your license order.

LMF keys are created by Compaq Computer Corporation. Because of the transition of DECtalk Software from Compaq to SMART Modular Technologies, Inc., the source of LMF keys may be uncertain temporarily. Contact your support services organization at 1-800-297-4863.

Note:

You must have superuser privileges to install the DECtalk Software and to register the license PAK.

If you are installing DECtalk Software as an update on a node already licensed for this software, you have already completed the License PAK registration requirements.

To register a license under the Tru64 UNIX operating system:

1. Log in as root.
2. At the superuser prompt, edit an empty PAK template with the `lmf register` command as follows, and include all the information on your License PAK:

```
# lmf register
```

LMF displays a blank template and invokes an editor to allow you to edit the template. LMF invokes the editor that is defined by your `EDITOR` environment variable. If the environment variable is undefined, LMF invokes the `vi` editor.

You must enter the license information from the PAK accurately.

3. When you finish entering the license data, exit from the editor. If the license data is correct, LMF copies it into the license database. If the license data is incorrect, you may reenter the editor and correct mistakes.

Alternatively, you can create a command script enclosing the license information (the license information is in the cover letter with this kit) found between

```
lmf register - << ENDLMF
```

and

```
ENDLMF
```

Execute this script as root.

4. After you register your license, use the following commands to copy the license details from the license database (LDB) to the kernel cache:

```
# lmf load 0 DECTALK-SW97
```

For complete information on using the License Management Facility, see the *Guide to Software License Management* and the lmf reference page.

Checking the Software Distribution Kit

Use the bill of materials (BOM) to check the contents of your DECTalk Software distribution kit.

In addition to this guide, the software distribution kit includes the following:

- CD-ROM optical disc for systems with optical disc drives
- CD-ROM booklet

If your software distribution kit is damaged or incomplete, contact your SMART representative.

Directories and files included in the distribution kit are listed in the following screen display:

```
/usr/opt/DTKRT460/docs/ascii:  
dtk460_release_notes_rt.txt filelist_rt.txt
```

```
/usr/opt/DTKRT460/docs/html:  
defaultdectalk.html  
**other html filenames TBS**
```

```
/usr/opt/DTKRT460/docs/man/man1:  
aclock.1      emacspeak.1    speak.1  
dectalk.1     say.1       windict.1
```



```

/usr/opt/DTKRT460/docs/postscript:
dtk460_release_notes_rt.ps

/usr/opt/DTKRT460/emacspeak/Macros:
HELP emacspeak-ispell.el
Makefile emacspeak-keymap.el
dtk-macros.el emacspeak-kotl.el
dtk-mme* emacspeak-load-path.def
dtk-sh.el emacspeak-oo-browser.el
dtk-spatial.el emacspeak-outline.el
dtk-speak.el emacspeak-perl.el
dtk-voices.el emacspeak-redefine.el
emacspeak-advice.el emacspeak-replace.el
emacspeak-auctex.el emacspeak-setup.def
emacspeak-bbdb.el emacspeak-sounds.el
emacspeak-c.el emacspeak-speak.el
emacspeak-calc.el emacspeak-tabulate.el
emacspeak-calendar.el emacspeak-tcl.el
emacspeak-compile.el emacspeak-tempo.el
emacspeak-dired.el emacspeak-vm.el
emacspeak-dmacro.el emacspeak-w3.el
emacspeak-ediff.el emacspeak-wrolo.el
emacspeak-eterm.el emacspeak.def
emacspeak-fix-interactive.el emacspeak.el
emacspeak-folding.el html-voice.el
emacspeak-gnus.el play.def
emacspeak-hyperbole.el voice-lock.el
emacspeak-info.el w3-util.el

/usr/opt/DTKRT460/emacspeak/docs/ascii:
emacspeak-README.txt

/usr/opt/DTKRT460/emacspeak/docs/postscript:
emacspeak.ps

/usr/opt/DTKRT460/etc/dt/appconfig/appmanager/C/Multimedia:
dtk_speak* dtk_windict*

/usr/opt/DTKRT460/etc/dt/appconfig/icons/C:
dtk_speak.s.bm dtk_windict.m.bm
dtk_speak.s.pm dtk_windict.m.pm
dtk_speak.l.bm dtk_speak.t.bm dtk_windict.s.bm
dtk_speak.l.pm dtk_speak.t.pm dtk_windict.s.pm
dtk_speak.m.bm dtk_windict.l.bm dtk_windict.t.bm
dtk_speak.m.pm dtk_windict.l.pm dtk_windict.t.pm

/usr/opt/DTKRT460/etc/dt/appconfig/types/C:
dtk_speak.dt dtk_windict.dt

/usr/opt/DTKRT460/examples/dtk/dtsamples:
aclock* demo.txt say* user.dic

```

```

birthday.txt noglass.txt startup.txt user.tab

/usr/opt/DTKRT460/examples/dtk/speak:
bitmaps/ speak* speak.uid

/usr/opt/DTKRT460/examples/dtk/speak/bitmaps:
bet16a.gif dtk.gif har16b.gif paul16b.gif urs16b.gif
bet16b.gif fra16a.gif kid16a.gif rit16a.gif wen16a.gif
den16a.gif fra16b.gif kid16b.gif rit16b.gif wen16b.gif
den16b.gif har16a.gif paul16a.gif urs16a.gif windict.gif

/usr/opt/DTKRT460/ivp:
DTKRT460.ivp

/usr/opt/DTKRT460/lib/dtk:
dectalk.dic dtalk_la.dic dtalk_uk.dic
dtalk_gr.dic dtalk_sp.dic dtalk_us.dic

/usr/opt/DTKRT460/share/man/man1:

aclock.1dtk    emacspeak.1dtk    speak.1dtk
dectalk.1dtk   say.1dtk        windict.1dtk

/usr/opt/DTKRT460/shlib:
libtts.so* libttsmme.so*

/usr/opt/DTKRT460/tools:
dumpdict* userdict* windict* windict.uid

```

Meeting Hardware Requirements

To install DECTalk Software, you need the following:

- Software distribution device (if installing from media)
- A drive for the CD-ROM software distribution media. The CD booklet or the documentation for the CD-ROM drive you are using explains how to load the CD-ROM media.
- A terminal. You can use either a hardcopy or video terminal to communicate with the operating system and respond to the prompts from the installation procedure.

See the DECTalk Software for Tru64 UNIX Software Product Description (SPD) for additional hardware requirements.

Meeting Software Requirements

DECTalk Software for Tru64 UNIX Version 4.6 requires the Tru64 UNIX operating system Version 3.x or 4.x. SMART also strongly recommends Multimedia Services for Tru64 UNIX Version 2.x is also recommended for use with the runtime kit.

Checking Current Disk Space

To check the current amount of free space for a directory path, log into the system where you will install DECTalk Software. You can check which directories are mounted and their locations by viewing the `/etc/fstab` file.

For example:

```
# more /etc/fstab
/dev/rz3a / ufs rw 1 1
/dev/rz3g /usr ufs rw 1 2
/dev/rz3b swap1 ufs sw 0 2
```

The display indicates that `/usr` mounted on `/dev/rz3g` is the only mount point that affects where DECTalk Software files will reside; the system has only one local disk drive, and the `/usr/opt` file system resides in the `g` partition of the disk on that drive.

To check the total space and the free space for the directories where DECTalk Software will reside, enter the `df` command. Given the previous display of the `/etc/fstab` file, which shows that only `/usr` is a mount point, you need to check free space only in the `/usr` file system. For example:

```
# df /usr
Filesystem 512-blocks  Used   Avail  Capacity Mounted on
/dev/rz3a   79608         45648  25998   64%      /
/dev/rz3g   1482190      921846  412124  69%      /usr
```

This display shows that there are 206062 kbytes free on the `/usr` file system. This free space must accommodate the subsets that you opt to install. If you choose to install all the subsets in the DECTalk Software Runtime kit you will need approximately 11 MB of free disk space. Of this, the unsupported Emacspeak subset uses 2 MB.

Increasing Disk Space by Using Alternative Disks

The DECtalk Software installation procedure creates and loads files into the subordinate directory:

```
/usr/opt/DTKRT460
```

If any of the previously listed directories already exists, the installation procedure uses it.

If you find that there is insufficient disk space for the DECtalk Software subsets and you know that you have additional space on alternative disks or disk partitions for your system, perform the following steps before installing DECtalk Software:

1. Log in as superuser.
2. Create the following directory:

```
/usr/opt/DTKRT460
```
3. Specify in the `/etc/fstab` file that one or more of the newly created directories are mount points to new disk partitions where there is additional space.
4. Enter the `mount -a` command so that the new mount points take effect.

Installation Procedure

This section explains how to install the DECtalk Software runtime kit. Topics include:

- Using the CD-ROM consolidated distribution media
- Using an RIS distribution area
- Starting the installation procedure
- Selecting subsets
- Stopping the installation

Installing DECtalk Software takes approximately 5 minutes, depending on your type of media and system configuration.

Using the CD-ROM

The following procedure loads DECtalk Software files onto a disk belonging to the system where you perform the installation. When DECtalk Software is run, its executable images are mapped into memory on your system.

To install DECtalk Software from CD-ROM media:

1. Mount the media on the appropriate disk drive.
2. Log in as superuser login name root to the system where you will install DECtalk Software.
3. Make sure that you are at the root (/) directory by entering the following command:

```
# cd /
```
4. Specify the /cdrom directory to be the mount point for the distribution file system on the drive. If your drive is rz4c, enter the following command:

```
# mount -dr /dev/rz4c /cdrom
```
5. Enter a setld command that requests the load function -l and identifies the directory in the mounted file system where DECtalk Software subsets are located. For example, if the directory location for these subsets is /cdrom/4.0/RT/, where "4.6" denotes a Tru64 UNIX Version 4 installation, enter the following command:

```
# /usr/sbin/setld -l /cdrom/4.0/RT/
```

For a Tru64 UNIX Version 3.2 installation, use:
/cdrom/3.2/RT/.
6. The installation procedure now displays the names of DECtalk Software runtime kit subsets and asks you to specify the subsets you want to load.

See Starting the Installation Procedure to continue the installation.

Using an RIS Distribution Area

If you are installing DECtalk Software subsets that reside in an /etc/ris RIS distribution area on a remote system, take the following steps:

1. Log in as superuser login name root to the system where you will install DECtalk Software runtime kit.

2. Make sure that you are at the root directory (/) by entering the following command:

```
# cd /
```
3. Enter a `setld` command that requests the load function (-l) option and identifies the system where the DECtalk Software subsets are located. For example, if you are loading DECtalk Software subsets from a RIS distribution area on node axpmme, enter the following:

```
/usr/bin/setld -l axpmme
```
4. RIS now displays a menu that lists all the software subsets available to you and asks you to specify the subsets you want to load.

See Starting the Installation Procedure to continue the installation.

Starting the Installation Procedure

Before starting the installation procedure:

1. Log in as a superuser and verify that you are at the root directory. Check to see if there are any previously installed DECtalk Software subsets by entering the following commands:

```
% su root
# cd /
# /usr/sbin/setld -i | grep DTK
```
2. Deinstall any installed subsets with the prefix DTK by entering the following commands:

```
# cd /
# /usr/sbin/setld -d (name of subset)
```
3. Start the installation procedure by entering the following command:

```
# /usr/sbin/setld -l /dev/rmt0h
```
4. Respond to the installation procedure prompts as described in Selecting Subsets.

Selecting Subsets

This section presents a complete installation procedure, including all messages that are displayed on your screen during the installation.

You must specify which DECtalk Software subsets you want to load. If you specify more than one number at the prompt, separate each number with a space, not a comma.

```
# /usr/sbin/setld -l /cdrom/4.0/RT/
```

The subsets listed below are optional:

There may be more optional subsets than can be presented on a single screen. If this is the case, you can choose subsets screen by screen or all at once on the last screen. All of the choices you make will be collected for your confirmation before any subsets are installed.

- 1) DECTalk Software V4.6 for Tru64 UNIX CDE Integration.
- 2) DECTalk Software V4.6 for Tru64 UNIX Release Notes.
- 3) DECTalk Software V4.6 for Tru64 UNIX Runtime Kit.
- 4) DECTalk Software V4.6 for Tru64 UNIX Documentation.
- 5) Emacspeak, Speech Enabled Emacs - Sample Program (unsupported).

Or you may choose one of the following options:

- 6) ALL of the above
- 7) CANCEL selections and redisplay menus
- 8) EXIT without installing any subsets

Enter your choices or press RETURN to redisplay menus.

Choices (for example, 1 2 4-6): 6

Next, the script lets you verify your choice. For example, if you enter 6 in response to the previous prompt, you will see the following display:

You are installing the following optional subsets:

DECTalk Software V4.6 for Tru64 UNIX CDE Integration.
DECTalk Software V4.6 for Tru64 UNIX Release Notes.
DECTalk Software V4.6 for Tru64 UNIX Runtime Kit.
DECTalk Software V4.6 for Tru64 UNIX Documentation.
Emacspeak, Speech Enabled Emacs - Sample Program.

Is this correct? (y/n):

If the displayed subsets are not the ones you intended to choose, enter n. In this case, the subset selection menu is displayed again and you can correct your choice of optional subsets. If the displayed subsets are the ones you want to load, enter y. After you respond to this question, the rest of the installation proceeds automatically and all the selected subsets are loaded. A sample of the rest of the installation script is listed below.

Checking file system space required to install selected subsets:

File system space checked OK.

5 subset(s) will be installed.

Loading 1 of 5 subset(s)....

```
*****
*
* DEctalk Software Application Services V4.6
* Runtime Subset
*
* Copyright(c) SMART Modular Technologies, Inc., 1999 All Rights Reserved *
*
* Unpublished rights reserved under the copyright laws of the United
* States. The software contained on this media is proprietary to
* and embodies the confidential technology of Digital Equipment
* Corporation. Possession, use, duplication or dissemination of the
* software and media is authorized only pursuant to a valid written
* license from SMART Modular Technologies, Inc..
*
* RESTRICTED RIGHTS LEGEND Use, duplication, or disclosure by the
* U.S. Government is subject to restrictions as set forth in
* Subparagraph (c) (1) (ii) of DFARS 252.227-7013, or in FAR 52.227-19,
* or in FAR 52.227-14 Alt. III as applicable.
*
*****
```

DEctalk Software V4.6 for Tru64 UNIX Runtime Kit.
Copying from . (disk)
Verifying

Loading 2 of 5 subset(s)....

DEctalk Software V4.6 for Tru64 UNIX Runtime Users Guide.
Copying from . (disk)
Verifying

Loading 3 of 5 subset(s)....

DEctalk Software V4.6 for Tru64 UNIX Release Notes.
Copying from . (disk)
Verifying

Loading 4 of 5 subset(s)....

```
*****
*
* DEctalk Software Application Services V4.6
* Emacspeak Subset
*
* Copyright(c) SMART Modular Technologies, Inc., 1999 All Rights
* Reserved
*
```



```

*
* Unpublished rights reserved under the copyright laws of the United
* States. The software contained on this media is proprietary to
* and embodies the confidential technology of Digital Equipment
* Corporation. Possession, use, duplication or dissemination of the
* software and media is authorized only pursuant to a valid written
* license from SMART Modular Technologies, Inc..
*
*
* RESTRICTED RIGHTS LEGEND Use, duplication, or disclosure by the
* U.S. Government is subject to restrictions as set forth in
* Subparagraph (c)(1)(ii) of DFARS 252.227-7013, or in FAR 52.227-19,
* or in FAR 52.227-14 Alt. III as applicable.
*
*****

Emacspeak, Speech Enabled Emacs - Sample Program.
Copying from . (disk)
Verifying

Loading 5 of 5 subset(s)....

DECTalk Software V4.6 for Tru64 UNIX CDE Integration.
Copying from . (disk)
Verifying

5 of 5 subset(s) installed successfully.

*****

DECTalk Software V4.6 runtime subset (DTKRT460) installation completed
successfully.

To verify that the kit installed properly please run the Installation
Verification Program by typing:

/usr/sbin/setld -v DTKRT460

*****

Configuring "DECTalk Software V4.6 for Tru64 UNIX Runtime Kit."
(DTKRT460)

*****

DECTalk Software V4.6 runtime documentation subset (DTKRTDOC460)
installation completed successfully. This installation puts the
DECTalk Software online help in html format in the following directory:

    /usr/opt/DTKRT460/docs/html

You can view the online help with a web browser. Open the file

```

```

/usr/opt/DTKRT460/docs/html/defaultdectalk.html

*****

Configuring "DEctalk Software V4.6 for Tru64 UNIX Documentation."
(DTKRTDOC460)

*****<>

DEctalk Software V4.6 runtime release notes subset (DTKRTRELNOT460)
installation completed successfully. This installation put DEctalk
Software development subset release notes in the following directories:

/usr/opt/DTKRT460/docs/ascii and
/usr/opt/DTKRT460/docs/postscript

*****<>

Configuring "DEctalk Software V4.6 for Tru64 UNIX Release Notes."
(DTKRTRELNOT460)

*****

DEctalk Software V4.6 runtime subset (DTKEMSRT460) installation
completed successfully.

To run the program, please refer to the emacspeak-README.txt file
in:
/usr/opt/DTKRT460/emacspeak/docs/ascii

*****

Configuring "Emacspeak, Speech Enabled Emacs - Sample Program."
(DTKEMSRT460)

*****<>

DEctalk Software V4.6 CDE Integration subset (DTKRTCDE460) installation
completed successfully.

*****<>

Configuring "DEctalk Software V4.6 for Tru64 UNIX CDE Integration."
(DTKRTCDE460)
#

```

Stopping the Installation

To stop the installation procedure at any time, press Ctrl/C. Then, interactively delete the files created by the installation up to the point where you stopped the

installation. The directories and files created during the DECtalk Software installation are listed in the following file:

```
/usr/opt/DTKRT460/docs/ascii/filelist.txt
```

If you encounter any failures during installation, see Reporting Problems.

You may interrupt the installation procedure at any point. However, if you do, the installation may not be left in a useful state. Remove all the subsets you installed and reinstall them.

Post-Installation Tasks

This section explains the post-installation tasks you need to do after the runtime kit installation to make DECtalk Software ready for use. Topics include:

- Running the installation verification procedure
- Deleting DECtalk Software from your system
- Displaying documentation from the CD-ROM distribution disc
- Correcting problems during product installation
- Reporting problems

Running the Installation Verification Procedure

You can run the Installation Verification Procedure (IVP) during the installation or you can run the IVP independently after installing DECtalk Software to verify that the software is available on your system. You might also want to run the IVP after a system failure to be sure that users can access DECtalk Software.

To run the IVP, enter these commands:

```
% su root
#/usr/sbin/setld -v DTKRT460
```

The DECtalk Software IVP verifies the installation as follows:

1. A check for a valid LMF license is made. If no license is found, the IVP fails because the software cannot be tested.
2. DECtalk Software requires that the Multimedia Software for Tru64 UNIX server mmeserver be up and running. If the mmeserver is not already running then the IVP fails. Start the server and try again. To start the server follow the sequence shown below:

```
% su root
# mmeserver&
```

Deleting DECtalk Software from Your System

If you must remove a version of DECtalk Software from your system, delete each subset that you previously installed.

For example to delete a subset, do the following:

1. Log in as superuser login name root, as follows:

```
% su root
```
2. Verify that you are at the root directory (/) by entering the following command:

```
# cd /
```
3. Enter the following form of the `setld` command:

```
# setld -i | grep DTK
```
4. Look for the word "installed" in the listing produced, and then delete the installed subsets. For example:

```
# setld -d DTKRT460  
# setld -d DTKDEV460
```

Displaying Documentation from the CD-ROM

The DECtalk Software documentation is provided in html file format. You can display the files on your workstation using a browser application such as Netscape Navigator(TM).

Correcting Problems During Product Installation

If errors occur during the installation, the system displays failure messages. For example, if the installation fails due to insufficient disk space, a message similar to the following is displayed:

```
There is not enough space for subset SUBSET_NAME  
SUBSET_DESCRIPTION (SUBSET_NAME) will not be loaded.
```

where SUBSET_NAME is the name of the subset and
SUBSET_DESCRIPTION is the description of the subset.

For example, DTKRTRELN0460 is a subset name and DECtalk Software for Tru64 UNIX Release Notes V4.6 is a subset description.

Errors can occur during the installation if any of the following conditions exist:

- Operating system version is incorrect.
- Prerequisite software version is incorrect.
- Disk space is insufficient.
- System parameter values for successful installation are insufficient.

For descriptions of error messages generated by these conditions, see the Tru64 UNIX documentation on system messages, recovery procedures, and software installation.

Reporting Problems

Problem resolution services for DECtalk Software are in transition. If services are still provided by Compaq Computer Corporation, refer to *Compaq Support*, following. If services are being supplied by SMART Modular Technologies, Inc., call 1-800-297-4863 or check the SMART web site at www.smartm.com.

Compaq Support

If an error occurs while DECtalk Software is in use and you believe the error is caused by a problem with the product, take one of the following actions:

- If you have a Software Product Services Support Agreement, contact your Customer Support Center (CSC) by telephone or by using the electronic means provided with your support agreement (such as DSNlink). The CSC provides telephone support for high-level advisory and remedial assistance. When you initially contact the CSC, indicate the following:
 1. The name and version number of the operating system you are using
 2. The version number of DECtalk Software you are using
 3. The hardware system you are using (such as a model number)
 4. A brief description of the problem (one sentence, if possible)
 5. How critical the problem is
- If you have a Self-Maintenance Software Agreement, you can submit a Software Performance Report (SPR).
- If you do not have any type of software services support agreement and you purchased DECtalk Software within the past year, you can submit an SPR if you think the problem is caused by a software error.

When you submit an SPR, take the following steps:

1. Describe as accurately as possible the circumstances and state of the system when the problem occurred. Include the description and version number of the DECtalk Software being used. Explain the problem with specific examples.
2. Reduce the problem to its elements.
3. Remember to include listings of any command files, include files, relevant data files, and so forth.
4. Provide a listing of the program.

If the program is longer than 50 lines, submit a copy of it on machine-readable media (floppy diskette or magnetic tape). If necessary, also submit a copy of the program library used to build the application.

For information about submitting media, see the tar(1) reference page.

5. Report only one problem per SPR. This will facilitate a faster response.
6. Mail the SPR package to Compaq.

If the problem is related to DECtalk Software documentation, you can report the problem to the CSC (if you have a Software Product Services Support Agreement and the problem is severe).

Installing DECtalk Software Development Kit for Tru64 UNIX

This section describes the preinstallation, installation, and post-installation tasks required to install the DECtalk Software development kit on Tru64 UNIX systems. Topics include:

- Preinstallation tasks
 - Accessing the Release Notes
 - Registering your software licenses
 - Checking the software distribution kit
- Installation procedure requirements
 - Hardware requirements
 - Software requirements
 - Checking current disk space
 - Increasing disk space by using alternative disks
 - Installation tasks
 - Using the CD-ROM consolidated distribution media
 - Using an RIS distribution area
 - Starting the installation procedure
 - Selecting subsets
 - Stopping the installation
- Post-installation tasks
 - Running the installation verification procedure
 - Deleting DECtalk Software from your system
 - Displaying documentation from the CD-ROM distribution disc
 - Correcting problems during product installation
 - Reporting problems

The development software installation procedure installs all files in subdirectories under:

`/usr/opt/DTKDEV460`

After a successful installation, DECtalk Software online help is accessible in two forms:

- Manpages – Invoke manpage help from the UNIX command line with the **%man speak** command
- HTML Hypertext – Start hypertext help by launching a web browser and loading the online help html file `defaultdectalk.html` on the CD-ROM..

Preinstallation Tasks

This section covers the preinstallation tasks you must perform before installing the DECtalk Software development kit. Topics include:

- Accessing the Release Notes
- Registering your software licenses
- Checking the software distribution kit
- Meeting hardware requirements
- Meeting software requirements
- Checking current disk space
- Increasing disk space by using alternative disks

Accessing the Release Notes

DECTalk Software provides release notes containing information about changes to DECtalk Software for Tru64 UNIX. You should read these release notes before using the product. See the *Compact Disc User's Guide* shipped with your media for instructions about how to access the release notes prior to the software installation.

The release notes for the DECtalk Software development kit are in the following files after the DTKDEVRELNOTES460 subset is installed:

`/usr/opt/DTKDEV460/docs/ascii/release_notes_dev.txt`
`/usr/opt/DTKDEV460/docs/postscript/release_notes_dev.ps`

To read the release notes for DECtalk Software use the following command:


```
# more /usr/opt/DTKDEV460/docs/ascii/release_notes_dev.txt
```

You can also print either file.

Registering Your Software Licenses

DECtalk Software includes support for the License Management Facility (LMF). You must register your license product authorization keys (License PAKs) in the license database (LDB) in order to use DECTalk Software on a newly licensed system. The License PAKs are shipped with the kit if you ordered the licenses and media together; otherwise, they are shipped separately to a location specified on your license order.

LMF keys are created by Compaq Computer Corporation. Because of the transition of DECTalk Software from Compaq to SMART Modular Technologies, Inc., the source of LMF keys may be uncertain temporarily. Contact your support services organization at 1-800-297-4863.

Note:

You must have superuser privileges to install the DECTalk Software and to register the license PAK.

If you are installing DECTalk Software as an update on a node already licensed for this software, you have already completed the License PAK registration requirements.

To register a license under the Tru64 UNIX operating system:

1. Log in as root.
2. At the superuser prompt, edit an empty PAK template with the lmf register command as follows, and include all the information on your License PAK:

```
# lmf register
```

LMF displays a blank template and invokes an editor to allow you to edit the template. LMF invokes the editor that is defined by your EDITOR environment variable. If the environment variable is undefined, LMF invokes the vi editor.

You must enter the license information from the PAK accurately.

3. When you finish entering the license data, exit from the editor. If the license data is correct, LMF copies it into the license database. If the license data is incorrect, you may reenter the editor and correct mistakes.

Alternatively, you can create a command script enclosing the license information (the license information is in the cover letter with this kit) found between

```
lmf register - << ENDLMF
```

and

```
ENDLMF
```

Execute this script as root.

4. After you register your license, use the following commands to copy the license details from the license database (LDB) to the kernel cache:

```
# lmf load 0 DECTALK-SW97
# lmf load 0 DECTALK-SW97-USER
```

For complete information on using the License Management Facility, see the Guide to Software License Management and the lmf reference page.

Checking the Software Distribution Kit

Use the bill of materials (BOM) to check the contents of your DECTalk Software distribution kit.

In addition to this guide, the software distribution kit includes the following:

- CD-ROM optical disc for systems with optical disc drives
- CD-ROM booklet

If your software distribution kit is damaged or incomplete, contact your SMART representative.

Directories and files included in the distribution kit are listed in the following screen display:

```
/usr/opt/DTKDEV460/docs/ascii:
dtk460_prog_guide.txt filelist_dev.txt
dtk460_release_notes_dev.txt
```

```
/usr/opt/DTKDEV460/docs/html:
defaultdectalk.html
**other html filenames TBS**
```

```
/usr/opt/DTKDEV460/docs/man/man3:
```

```

TextToSpeechAddBuffer.3      TextToSpeechPause.3
TextToSpeechCloseInMemory.3  TextToSpeechReset.3
TextToSpeechCloseLogFile.3  TextToSpeechResume.3
TextToSpeechCloseWaveOutFile.3 TextToSpeechReturnBuffer.3
TextToSpeechGetCaps.3       TextToSpeechSetLanguage.3
TextToSpeechGetLanguage.3   TextToSpeechSetRate.3
TextToSpeechGetRate.3       TextToSpeechSetSpeaker.3
TextToSpeechGetSpeaker.3    TextToSpeechShutdown.3
TextToSpeechGetStatus.3     TextToSpeechSpeak.3
TextToSpeechLoadUserDictionary.3 TextToSpeechStartup.3
TextToSpeechOpenInMemory.3   TextToSpeechSync.3
TextToSpeechOpenLogFile.3    TextToSpeechUnloadUserDictionary.3
TextToSpeechOpenWaveOutFile.3 **updated list TBS**

```

```

/usr/opt/DTKDEV460/docs/postscript:
dtk460_prog_guide.ps  dtk460_release_notes_dev.ps

```

```

/usr/opt/DTKDEV460/examples/dtk/dtsamples:
Imakefile  aclock.c  say.c  xmsay.uil
README.txt dtmemory.c xmsay.c

```

```

/usr/opt/DTKDEV460/include/dtk:
dtmmedefs.h  engphon.h  l_sp_ph.h  l_us_ph.h
dtmmiodefs.h l_gr_ph.h  l_uk_ph.h  ttsapi.h

```

```

/usr/opt/DTKDEV460/share/man/man3:
TextToSpeechAddBuffer.3dtk      TextToSpeechPause.3dtk
TextToSpeechCloseInMemory.3dtk  TextToSpeechReset.3dtk
TextToSpeechCloseLogFile.3dtk   TextToSpeechResume.3dtk
TextToSpeechCloseWaveOutFile.3dtk TextToSpeechReturnBuffer.3dtk
TextToSpeechGetCaps.3dtk        TextToSpeechSetLanguage.3dtk
TextToSpeechGetLanguage.3dtk    TextToSpeechSetRate.3dtk
TextToSpeechGetRate.3dtk        TextToSpeechSetSpeaker.3dtk
TextToSpeechGetSpeaker.3dtk     TextToSpeechShutdown.3dtk
TextToSpeechGetStatus.3dtk      TextToSpeechSpeak.3dtk
TextToSpeechLoadUserDictionary.3dtk TextToSpeechStartup.3dtk
TextToSpeechOpenInMemory.3dtk    TextToSpeechSync.3dtk
TextToSpeechOpenLogFile.3dtk     TextToSpeechUnloadUserDictionary.3dtk
TextToSpeechOpenWaveOutFile.3dtk **updated list TBS**

```

Meeting Hardware Requirements

To install DECTalk Software, you need the following:

- A software distribution device (if installing from media)
- A drive for the CD-ROM software distribution media. The CD booklet or the documentation for the CD-ROM drive you are using explains how to load the CD-ROM media.

- A terminal. You can use either a hardcopy or video terminal to communicate with the operating system and respond to the prompts from the installation procedure.

See the DECTalk Software for Tru64 UNIX Software Product Description (SPD) for additional hardware requirements.

Meeting Software Requirements

DECTalk Software for Tru64 UNIX Version 4.6 requires:

- The Tru64 UNIX operating system, Version 3.x or 4.x.
- The Multimedia Services for Tru64 UNIX Version 2.x.
- The Realtime extension.
- DECTalk Software runtime kit V4.6.

Checking Current Disk Space

To check the current amount of free space for a directory path, log in to the system where you will install DECTalk Software. You can check which directories are mounted and their locations by viewing the `/etc/fstab` file. For example:

```
# more /etc/fstab
/dev/rz3a / ufs rw 1 1
/dev/rz3g /usr ufs rw 1 2
/dev/rz3b swap1 ufs sw 0 2
```

The display indicates that `/usr` mounted on `/dev/rz3g` is the only mount point that affects where DECTalk Software files will reside; the system has only one local disk drive, and the `/usr/opt` file system resides in the `g` partition of the disk on that drive.

To check the total space and the free space for the directories where DECTalk Software will reside, enter the `df` command. Given the previous display of the `/etc/fstab` file, which shows that only `/usr` is a mount point, you need to check free space only in the `/usr` file system. For example:

```
# df /usr
Filesystem 512-blocks Used Avail Capacity Mounted on
/dev/rz3a 79608 45648 25998 64% /
/dev/rz3g 1482190 921846 412124 69% /usr
```

This display shows that there are 206062 kbytes free on the `/usr` file system. This free space must accommodate the subsets that you opt to install. If you

choose to install all the subsets in the DECtalk Software development kit you need approximately 2 MB of free disk space.

Increasing Disk Space by Using Alternative Disks

The DECtalk Software installation procedure creates and loads files into the sub directory:

```
/usr/opt/DTKDEV460
```

If any of the previously listed directories already exists, the installation procedure uses it.

If you find that there is insufficient disk space for the DECtalk Software subsets and you know that you have additional space on alternative disks or disk partitions for your system, perform the following steps before installing DECtalk Software:

1. Log in as root
2. Create the directory `/usr/opt/DTKDEV460`
3. Specify in the `/etc/fstab` file that one or more of the newly created directories are mount points to new disk partitions where there is additional space.
4. Enter the `mount -a` command so that the new mount points take effect.

Installation Procedure

This section explains how to install the DECtalk Software Development Kit. Topics include:

- Setting up the installation procedure
- Using the CD-ROM consolidated distribution media
- Using an RIS distribution area
- Starting the installation procedure
- Selecting subsets
- Stopping the installation

Installing DECtalk Software takes approximately 5 minutes, depending on your type of media and system configuration.

Using the CD-ROM Consolidated Distribution Media

The following procedure loads DECtalk Software files onto a disk belonging to the system where you perform the installation. When DECtalk Software is run, its executable images are mapped into memory on your system.

To install DECtalk Software from CD-ROM media:

1. Mount the media on the appropriate disk drive.
2. Log in as superuser login name root to the system where you will install DECtalk Software.
3. Make sure that you are at the root (/) directory by entering the following command:

```
# cd /
```
4. Specify the /cdrom directory to be the mount point for the distribution file system on the drive. If your drive is rz4c, enter the following command:

```
# mount -dr /dev/rz4c /cdrom
```
5. Enter a setld command that requests the load function -l and identifies the directory in the mounted file system where DECtalk Software subsets are located. For example, if the directory location for these subsets is /cdrom/4.0/DEV/, where "4.0" denotes a Tru64 UNIX Version 4 installation, enter the following command:

```
# /usr/sbin/setld -l /cdrom/4.0/DEV/
```

For a Tru64 UNIX Version 3.2 installation, you use /cdrom/3.2/DEV/.
6. The installation procedure now displays the names of DECtalk Software subsets and asks you to specify the subsets you want to load.

See Starting the Installation Procedure to continue the installation.

Using an RIS Distribution Area

If you are installing DECtalk Software subsets that reside in an /etc/ris RIS distribution area on a remote system, take the following steps:

1. Log in as superuser login name root to the system where you will install DECtalk Software.

2. Make sure that you are at the root directory (/) by entering the following command:

```
# cd /
```
3. Enter a `setld` command that requests the load function (-l) option and identifies the system where the DECtalk Software subsets are located. For example, if you are loading DECtalk Software subsets from a RIS distribution area on node axpmme, enter the following:

```
/usr/bin/setld -l axpmme
```
4. RIS now displays a menu that lists all the software subsets available to you and asks you to specify the subsets you want to load.

See Starting the Installation Procedure to continue the installation.

Starting the Installation Procedure

Before starting the installation procedure:

1. Log in as a superuser and verify that you are at the root directory.
Check to see if there are any previously installed DECtalk Software subsets by entering the following commands:

```
% su root  
# cd /  
# /usr/sbin/setld -i | grep DTKDEV
```
2. Deinstall any installed subsets with the prefix DTKDEV by entering the following commands:

```
# cd /  
# /usr/sbin/setld -d (name of subset)
```
3. Start the installation procedure by entering the following command:

```
# /usr/sbin/setld -l /dev/rmt0h
```
4. Respond to the installation procedure prompts as described in Selecting Subsets.

Selecting Subsets

This section presents a complete installation procedure, including all messages that are displayed on your screen during the installation.

You must specify which DECTalk Software subsets you want to load. If you specify more than one number at the prompt, separate each number with a space, not a comma.

```
# /usr/sbin/setld -l .
```

The subsets listed below are optional:

There may be more optional subsets than can be presented on a single screen. If this is the case, you can choose subsets screen by screen or all at once on the last screen. All of the choices you make will be collected for your confirmation before any subsets are installed.

- 1) DECTalk Software V4.6 for Tru64 UNIX Development Documentation.
- 2) DECTalk Software V4.6 for Tru64 UNIX Development Kit.
- 3) DECTalk Software V4.6 for Tru64 UNIX Release Notes.
- 4) DECTalk Software V4.6 for Tru64 UNIX Sample Programs.

Or you may choose one of the following options:

- 5) ALL of the above
- 6) CANCEL selections and redisplay menus
- 7) EXIT without installing any subsets

Enter your choices or press RETURN to redisplay menus.

Choices (for example, 1 2 4-6): 5

Next, the script lets you verify your choice. For example, if you enter 7 in response to the previous prompt, you will see the following display:

You are installing the following optional subsets:

```
DECTalk Software V4.6 for Tru64 UNIX Development Documentation.  
DECTalk Software V4.6 for Tru64 UNIX Development Kit.  
DECTalk Software V4.6 for Tru64 UNIX Release Notes.  
DECTalk Software V4.6 for Tru64 UNIX Sample Programs.
```

Is this correct? (y/n): y

If the displayed subsets are not the ones you intended to choose, enter n. In this case, the subset selection menu is displayed again and you can correct your choice of optional subsets. If the displayed subsets are the ones you want to load,

enter y. After you respond to this question, the rest of the installation proceeds automatically and all the selected subsets are loaded. A sample of the rest of the installation script is listed below.

Checking file system space required to install selected subsets:

File system space checked OK.

4 subset(s) will be installed.

Loading 1 of 4 subset(s)....

DECTalk Software V4.6 for Tru64 UNIX Development Documentation.

Copying from . (disk)

Verifying

Loading 2 of 4 subset(s)....

```
*****
*
* DECTalk Software Application Services V4.6
* Development Subset
*
* Copyright(c) SMART Modular Technologies, Inc., 1999 All Rights
* Reserved
*
* Unpublished rights reserved under the copyright laws of the United
* States. The software contained on this media is proprietary to
* and embodies the confidential technology of Digital Equipment
* Corporation. Possession, use, duplication or dissemination of the
* software and media is authorized only pursuant to a valid written
* license from SMART Modular Technologies, Inc..
*
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* U.S. Government is subject to restrictions as set forth in
* Subparagraph (c)(1)(ii) of DFARS 252.227-7013, or in FAR 52.227-19,
* or in FAR 52.227-14 Alt. III as applicable.
*
*****
```

DECTalk Software V4.6 for Tru64 UNIX Development Kit.

Copying from . (disk)

Verifying

Loading 3 of 4 subset(s)....

```
*****
*
* DECTalk Software Application Services V4.6
* Sample Programs Subset
*
* Copyright(c) SMART Modular Technologies, Inc., 1999 All Rights
*
```

```

* Reserved
*
* Unpublished rights reserved under the copyright laws of the United
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* and embodies the confidential technology of Digital Equipment
* Corporation. Possession, use, duplication or dissemination of the
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* Subparagraph (c)(1)(ii) of DFARS 252.227-7013, or in FAR 52.227-19,
* or in FAR 52.227-14 Alt. III as applicable.
*
*****

DECTalk Software V4.6 for Tru64 UNIX Sample Programs.
  Copying from . (disk)
  Verifying

Loading 4 of 4 subset(s)....

DECTalk Software V4.6 for Tru64 UNIX Release Notes.
  Copying from . (disk)
  Verifying

4 of 4 subset(s) installed successfully.

*****

DECTalk Software V4.6 development documentation subset (DTKDEVDOC460)
installation completed successfully. This installation puts the DECTalk
Software online help in html format in the following directory:

  /usr/opt/DTKDEV460/docs/html

You can use a web browser to view the online help. Start by
opening the file:

  /usr/opt/DTKDEV460/docs/html/defaultdectalk.html

*****

Configuring "DECTalk Software V4.6 for Tru64 UNIX Development
Documentation." (DTKDEVDOC460)

*****

DECTalk Software V4.6 development subset (DTKDEV460) installation
completed successfully.

*****

```

```

Configuring "DECtalk Software V4.6 for Tru64 UNIX Development Kit."
(DTKDEV460)

*****

DECtalk Software V4.6 sample program subset (DTKSAMP460) installation
completed successfully. This installation puts the sample programs in
the following directory:

    /usr/examples/dtk/dtsamples

*****

Configuring "DECtalk Software V4.6 for Tru64 UNIX Sample Programs."
(DTKSAMP460)

*****

DECtalk Software V4.6 development release notes subset (DTKDEVRELNOT460)
installation completed successfully. This installation put DECtalk
Software development kit release notes in the following directories:

    /usr/opt/DTKDEV460/docs/ascii
    /usr/opt/DTKDEV460/docs/postscript

*****

Configuring "DECtalk Software V4.6 for Tru64 UNIX Release Notes."
(DTKDEVRELNOT460)
#

```

Stopping the Installation

To stop the installation procedure at any time, press Ctrl/C. Then, interactively delete the files created by the installation up to the point where you stopped the installation. The directories and files created during the DECtalk Software installation are listed in the following file:

```

/usr/opt/DTKDEV460/docs/ascii/filelist.txt

```

If you encounter any failures during installation, see Reporting Problems.

You may interrupt the installation procedure at any point. However, if you do, the installation may not be left in a useful state. Remove all the subsets you installed and reinstall them.

Post-Installation Tasks

This section explains post-installation tasks you need to do after the development kit installation to make DECtalk Software ready for use. Topics include:

- Running the installation verification procedure
- Deleting DECtalk Software from your system
- Displaying documentation from the CD-ROM distribution disc
- Correcting problems during product installation
- Reporting problems

Running the Installation Verification Procedure

You can run the installation verification procedure (IVP) during the installation or you can run the IVP independently after installing DECtalk Software to verify that the software is available on your system. You might also want to run the IVP after a system failure to be sure that users can access DECtalk Software.

To run the IVP, enter the commands:

```
% su root
#/usr/sbin/setld -v DTKRT460
```

The DECtalk Software IVP verifies the installation as follows:

1. A check for a valid LMF license is made. If no license is found, the IVP fails because the software cannot be tested.
2. DECtalk Software requires that the Multimedia Software for Tru64 UNIX server mmeserver be up and running. If the mmeserver is not already running, the IVP fails. Start the server and try again.

To start the server follow the sequence shown below:

```
% su root
# mmeserver&
```

Deleting DECtalk Software from Your System

If you must remove a version of DECtalk Software from your system, delete each subset that you previously installed.

For example to delete a subset, do the following:

1. Log in as superuser login name root, as follows:

```
% su root
```

2. Verify you are at the root directory (/) by entering the following command:

```
# cd /
```

3. Enter the following form of the `setld` command:

```
# setld -i | grep DTK
```

4. Look for the word installed in the listing produced, and then delete the installed subsets. For example:

```
# setld -d DTKDEV460
```

```
# setld -d DTKDEVDOC460
```

Displaying Documentation from the CD-ROM Distribution Disc

The DECtalk Software documentation is provided on the DECtalk CD-ROM in html file format. You can display the files on your workstation using a browser application such as Netscape Navigator(TM). **Correcting Problems During Product Installation**

If errors occur during the installation, the system displays failure messages. For example, if the installation fails due to insufficient disk space, a message similar to the following is displayed:

```
There is not enough space for subset SUBSET_NAME
SUBSET_DESCRIPTION (SUBSET_NAME) will not be loaded.
```

where `SUBSET_NAME` is the name of the subset and `SUBSET_DESCRIPTION` is the description of the subset.

For example, "DTKDEVRELNOT460" is a subset name, and "DECtalk Software for Tru64 UNIX Release Notes V4.6" is a subset description.

Errors can occur during the installation if any of the following conditions exist:

- Operating system version is incorrect.
- Prerequisite software version is incorrect.
- Disk space is insufficient.
- System parameter values for successful installation are insufficient.

For descriptions of error messages generated by these conditions, see the Tru64 UNIX documentation on system messages, recovery procedures, and software installation.

Reporting Problems

Problem resolution services for DECtalk Software are in transition. If services are still provided by Compaq Computer Corporation, refer to *Compaq Support*, following. If services are being supplied by SMART Modular Technologies, Inc., call 1-800-297-4863 or check the SMART web site at www.smartm.com.

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- 1 The name and version number of the operating system you are using
- 2 The version number of DECtalk Software you are using
- 3 The hardware system you are using (such as a model number)
- 4 A brief description of the problem (one sentence, if possible)
- 5 How critical the problem is

If you have a Self-Maintenance Software Agreement, you can submit a Software Performance Report (SPR).

If you do not have any type of software services support agreement and you purchased DECtalk Software within the past year, you can submit an SPR if you think the problem is caused by a software error.

When you submit an SPR, take the following steps:

1. Describe as accurately as possible the circumstances and state of the system when the problem occurred. Include the description and version number of the DECtalk Software being used. Explain the problem with specific examples.
2. Reduce the problem to its elements.

3. Remember to include listings of any command files, include files, relevant data files, and so forth.
4. Provide a listing of the program.

If the program is longer than 50 lines, submit a copy of it on machine-readable media (floppy diskette or magnetic tape). If necessary, also submit a copy of the program library used to build the application.

For information about submitting media, see the tar(1) reference page.

5. Report only one problem per SPR. This will facilitate a faster response.
6. Mail the SPR package to SMART.

If the problem is related to DECtalk Software documentation, you can report the problem to the CSC (if you have a Software Product Services Support Agreement and the problem is severe).

Index

A

authorization keys, 3-5

B

bill of materials, 3-6

D

DECTalk

audio sound card, requirements for,
1-3, 2-4, 3-37

disk space requirement, 1-3, 2-4, 3-
37

installation procedure, 1-4, 2-5, 3-37

licensing agreement, 1-2, 2-3, 3-37

using online help, x

DECTalk Software runtime kit, 3-3

delete a subset, 3-35

distribution area, RIS, 3-11, 3-28

documentation, 3-18, 3-35

E

errors, 3-35

F

free space, 3-26, 3-28

H

Hardware requirements, 1-2, 2-3, 3-37

I

Installation

disk space requirement, 1-3, 2-4, 3-
37

from the NT console window, 1-7,
2-8

from the program manager, 1-7, 2-8

hardware requirements, 1-2, 2-3, 3-
37

preparation for, 1-2, 2-3, 3-37

reading the release notes, 1-2, 2-3,
3-37

software license agreement, 1-2, 2-3,
3-37

software requirement, 1-3, 2-4, 3-37

trouble shooting, 1-8, 2-9, 3-37

installation verification procedure
(IVP), 3-34

installation procedure

stop, 3-16

Installation Verification Procedure
(IVP), 3-17

K

kit

runtime, 3-10

L

license, 3-5

License agreement, 1-2, 2-3, 3-37

License Management Facility, 3-5, 3-
23

License PAK registration requirements,
3-23

License PAKs, 3-5

license product authorization keys, 3-5

O

Online help

how to use, x

P

PAKs, 3-5

post-installation tasks, 3-17, 3-34

preinstallation tasks, 3-4, 3-22

product authorization keys, 3-5

R

register a license, 3-5, 3-23
registration requirements, 3-23
release notes, 3-4, 3-22
Release notes, 1-2, 2-3, 3-37
RIS distribution area, 3-11, 3-28
runtime kit, 3-3
runtime kit, 3-10

S

software development kit, 3-27
software distribution kit, 3-6
stop the installation procedure, 3-16

T

tasks
 post-installation, 3-17, 3-34
 preinstallation, 3-4, 3-22
total space, 3-26, 3-28