

Installation Procedure
CONVEX VECLIB V8.0
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Introduction

CONVEX VECLIB is a collection of libraries of highly optimized, FORTRAN-callable subprograms that provides basic mathematical software and computational kernels for applications involving arrays on CONVEX C-Series supercomputers. This document tells how to install CONVEX VECLIB V8.0. Installation should take only a few minutes.

Before you begin the installation, you should:

- Read and understand these procedures
- Ensure the required versions of other products are installed
- Ensure the specified resources are available

Installation Prerequisites

The prerequisites for CONVEX VECLIB V8.0 are:

- ConvexOS V10.0 or higher
- CONVEX FORTRAN V6.0 or higher
- CONVEX ALL (Assembler, Loader, and Libraries) V2.0 or higher

Disk space requirements for CONVEX VECLIB V8.0 are shown in Table 1.

Table 1: Disk Space Requirements

Component	GIP module	Space Req.	Default Location
Object libraries	Libraries	30 megabytes	<i>/usr/lib/</i>
C header files	Libraries	500 kilobytes	<i>/usr/include/</i>
<i>man</i> (1) pages	ManPages	2 megabytes	<i>/usr/man/man8/</i>
Online release notice	ReleaseNotes	50 kilobytes	<i>/usr/doc/v8.0veclib.relnotes</i>
<i>verify</i> (8) database	VerifyDB	20 kilobytes	<i>/usr/lib/verify/veclib</i>

The installer will require approximately 32 megabytes in the directory you specify for temporary use during the installation (usually */tmp*).

Installation

This section explains how to do a basic installation of CONVEX VECLIB V8.0. The Generic Installation Procedures (GIP) support additional options, including tapeless installation. For more details, see *Installing CONVEX Software*, Doc. No. 700-045530-000.

Perform the following procedure to install VECLIB V8.0. **Boldface** type shows user input.

1. Log in as *root* or another superuser on the target system.
2. Choose an installation device that corresponds to your tape. A *no rewind* device is required. If you have a 9-track tape, */dev/rmt20* is appropriate. If you have a DAT tape, */dev/rdat0n* is appropriate.
3. Remove the write ring from the tape if it has one. Then mount the installation tape.
4. Enter the following ConvexOS commands, substituting the name of your installation device for *tape-device*:

```
# tpmount -a tape-device -m char -R  
# /etc/installsw -d tape-device -i
```

5. The installer will ask you to select various options, including the directories in which to install the various product components. When a directory is wanted, a default choice will be displayed, enclosed in square brackets. Simply press RETURN to accept the default. An alternate directory is required only when insufficient disk space is available in the file system containing the default directory. If you supply an alternate directory name, the component will be installed relative to that directory, and a symbolic link from the default location to the actual location will be created.
6. After the installation finishes, signaled by the superuser prompt "#", deallocate the tape unit by entering the following ConvexOS command:

```
# tpunmount
```