
CONVEX Fortran V9.1 Installation Procedures

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Installation Procedures
CONVEX Fortran V9.1
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Installation Procedures for CONVEX Fortran V9.1

Before you begin the installation, you should:

- gather the necessary information,
- ensure the specified resources are available, and
- ensure the required versions of certain other products are installed.

Required information, resource requirements, and pre-requisites:

- The pre-requisite software for CONVEX Fortran V9.1 includes:

ConvexOS 11.0 or later
Convex C V6.1 or later
Convex ALL (see below for required versions)

On CONVEX C4 machines, ALL V3.0.3 or later is required. All other CONVEX C Series machines can use ALL 3.0. Convex ALL includes the Fortran libraries, `ld`, and `as`. These should be installed PRIOR to installing CONVEX Fortran V9.1. On C4 machines, the compiler uses new instructions that are not present in versions of the assembler before V3.0.3. Be certain that ALL V3.0.3 is installed on C4 machines using this compiler.

- The activation key. This product is serial number protected. The necessary activation key is usually provided with the product tape. If it is not available, the TAC (CONVEX's Technical Assistance Center) can provide one. You can reach the TAC within the continental U.S. at (800)-952-0379; elsewhere, contact your CONVEX representative. The part number (required to get an activation key) for CONVEX Fortran V9.1 is 720-000515-233. You will also need to know the serial number of your system.

You will be prompted for the activation key during the installation process.

- Sufficient disk space to install the compiler and associated files:
 - The compiler executables and related files (module F) require about 5.9mb of space.
 - The man pages (module manpages) require about 250kb.
 - The release notes (module relnotes) require less than 50kb.
 - The installer will require about 10mb in the directory you supply for temporary use during the installation (usually in `/tmp`).

The installer will prompt you asking if you wish to install Convex Fortran V9.1 as the default software on the machine. If you are installing this software on a CONVEX C4 computer, we recommend answering "yes" to this question. If you are installing on a C Series machine other than a C4, we recommend replying "no" to the question.

Later, the installer will prompt you for the directories into which the various product components will be installed. The default directory is printed enclosed in square brackets (like these: `[]`). If you do not supply a directory name, the default directory is used. However, if you supply a directory name, the various files are installed relative to the directory you specify.

If you had answered "yes" to installing as the default software, a symbolic link will be made from the default location to the actual location you specify. Otherwise, if you replied "no" to installing as the default software, then no links will be created. If you do not want to install this software as the default, you should always supply a directory instead of using the default directory.

If installed as the default software, this compiler replaces any previously installed production release of

CONVEX Fortran (such as Fortran V7.0.2 or Fortran V8.0).

The installation script will check for the existence of several old Fortran libraries. These old libraries that were shipped with CONVEX Fortran V6.1 and were instrumented for use with CXpa. Only CONVEX Fortran V6.1 uses these libraries. If you no longer use CONVEX Fortran V6.1, and the installation script finds these libraries, you should answer "yes" when asked if these libraries should be deleted.

Users should read the release notice for CONVEX Fortran V9.1 before using this product. A copy will be installed in `/usr/doc/v9.1fc.relnotes`. A printed copy of the release notice is distributed with each tape.

How to install CONVEX Fortran V9.1

- Log in as *root* or another superuser.
- Mount the *installsw* tape that contains CONVEX Fortran. Remove the "write ring" from 9 track tapes first.
- Choose an appropriate device. A *no rewind* device is required. If you have a 9 track tape, `/dev/rmt20` is appropriate. If your tape is a DAT, `/dev/rdat0n` is appropriate.
- Enter commands and responses as shown in the example that follows. Please tailor your responses as needed.

The following example is an annotated "snapshot" of an installation. Text output by the installer is set in `monospace` type. User commands and responses are shown in **bold type**. Annotations are set in normal roman type. The word *return* indicates typing the "return" key.

CAUTION: This particular example does *not* show all possible interactions with the installer. Depending on disk space availability and other software installed (particularly the ALL product and ConvexOS), other messages may be written by the installer, and other questions may need to be answered. If the installation tape is "stacked" (contains other products), there will be additional steps in the installation process where the products to be installed can be selected.

Please note that the actual text printed during an installation may vary slightly, depending on the version of the installer used for a particular product tape.

Reserve the tape drive.

```
# tpmount -a /dev/rmt20 -m char -R
```

Tape device /dev/rmt20 allocated.

Invoke installsw.

```
# /etc/installsw -d /dev/rmt20 -i
```

Tape device is /dev/rmt20

** Installsw Header File From Tape **

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CREATED ON Fri Jan 6 05:28:07 CST 1995 using GIP v1.4

720-000515-233 CONVEX Fortran, release 9.1 7

Choose the type of installation you want to perform:

```
LOCAL      --> install on this machine
REMOTE     --> install on a remote machine
ABORT      --> abort installation
```

Enter local or remote.

Enter your selection now --> **local**

Setting up installation environment. Please wait ...

CONVEX Fortran, V9.1

```
Number of files in distribution:      7
File offset from beginning of media:  3
Relocatable?                          no
De-installable?                       no
Unattended installation support?      no
Configurable?                         no
Activation key required?              no
Sysgen required?                     no
```

Enter install.

Do you wish to install or de-install CONVEX Fortran? **install**

Beginning product installation/de-installation ...

Locating CONVEX Fortran v9.1

```
--      CONVEX Fortran
--      Version 9.1
--      install started on Fri, Jan 6, 1995 at 05:29:53
--      using Generic Installer 1.4.0.4
```

Enter yes.

Do you wish to install CONVEX Fortran Version 9.1 as the default software on MachineName? **yes**

CONVEX Fortran Version 9.1 will be installed in a temporary location, verified, and then moved to the actual target location(s).

Enter return or a directory name.

What filesystem do you want to use for temporary work space [/tmp]?

Reading non-deliverable archive fortran.nondeliv.tar ...Done.
 Reading logical file fortran.relnotes.tar ...Done.
 Reading logical file fortran.manpages.tar ...Done.
 Reading logical file fortran.F.tar ...Done.

CONVEX Fortran must be stamped with an activation key that authorizes execution on machineName. Activation keys are unique for each installation; you must have activation keys for your specific machine(s).

Activation keys are shipped with the CONVEX Software Distribution tapes. If the activation keys cannot be located, the TAC (CONVEX's Technical Assistance Center) can provide you with the keys for your site. Please contact the TAC with the part number for this product and serial number(s) for the machine(s) you wish to install (the part number for CONVEX Fortran is 720-000515-233).

If you do not enter an activation key at this time, the installation of CONVEX Fortran will be aborted.

Enter the activation key.

What are your activation keys? **XXXXX-XXXXX-XXXX**

Now verifying CONVEX Fortran was installed or activated correctly...

--- running activation key and product tests
 --- fc activation key test passed
 --- fc product test passed

Test /tmp/install112997stage/tstfc.csh PASSED.

CONVEX Fortran normally installs relative to the following load point(s):

Module	Archive	Load point
relnotes	fortran.relnotes.tar	/usr/doc
manpages	fortran.manpages.tar	/usr/man
F	fortran.F.tar	/usr/convex

You may choose to install this product in an alternate location. The product structure will be duplicated in the alternate file system and appropriate links created. However, any files requiring an absolute load point will NOT be placed in an alternate location. An alternate may be specified for each load point listed above.

Enter *return* or a directory name.

Where do you wish to install F (fortran.F.tar) [/usr/convex]?

Enter *return* or a directory name.

Where do you wish to install manpages (fortran.manpages.tar) [/usr/man]?

Enter *return* or a directory name.

Where do you wish to install relnotes (fortran.relnotes.tar) [/usr/doc]?

Enter *yes*.

If a version of this product exists in the target location, it will be moved to /usr/convex/oldfc. Any existing files will be overwritten. Do you wish to continue? *yes*

Removing the temporary files ...

Done.

Installation of CONVEX Fortran completed successfully!

Trace file may be found in machineName:/tmp/install110104script.

Product summary:

CONVEX Fortran

no warnings, no errors

Beginning product configuration...

makewhatis should be run on the newly installed manpages. Please select one of the following options:

Pick one of these options (1-4).

- 1 Run makewhatis in foreground
- 2 Run makewhatis in background (Not valid for remote installation)
- 3 Don't run makewhatis
- 4 Save the makewhatis command file to run later

Select [3]? 1

libcfc.3f: truncating cmdlist from 317 to 300 bytes for DBM's sake

makewhatis: processing man tree /usr/convex/fc9.1/man...

makewhatis: /usr/convex/fc9.1/man: found 32 entries in 10 files

catman should be run on the newly installed manpages. Please select one of the following options:

Pick one of these options (1-4).

- 1 Run catman in foreground
- 2 Run catman in background (Not valid for remote installation)
- 3 Do not run catman
- 4 Save the catman command file to run later

Select [3]? 3

Processing of installation media complete.

Master Rewinding tape

Trace file may be found in machineName:/tmp/install10104script.

Free the tape drive.

tpunmount