

Installation Procedure
CONVEX ALL V2.0.1
Document No. 720-005030-003

December 1992

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Richardson, Texas USA

Installation Procedure, CONVEX ALL V2.0.1

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Installation procedure

This document describes the installation of CONVEX ALL V2.0.1. The distribution media is either a 1600 bpi or a 6250 bpi GIP(8) format magnetic tape with part number 720-003515-003.

CONVEX ALL V2.0.1 contains the assembler (as), loader (ld), and the FORTRAN and C runtime libraries (except for libc.a, which is still a part of the ConvexOS release).

Requirements

This section contains general information and words of caution about the product.

- This release requires the installation of CONVEX Utilities V9.1 or higher, and the ConvexOS Operating System V9.1 or higher.
- The FORTRAN libraries must be installed before the FORTRAN compiler. The FORTRAN libraries are only compatible with CONVEX FORTRAN V8.0 and higher. If you are not going to install CONVEX FORTRAN V8.0 or higher, (or if it not already installed), do not install the FORTRAN libraries from this tape, because these libraries are not compatible with older versions of the compiler and the older compilers may not be compatible with these libraries.
- The C runtime libraries must be installed before the C compiler. The C runtime libraries are only compatible with CONVEX C V5.0 and higher. If you are not going to install CONVEX C V5.0 or higher compiler (or if it not already installed), do not install the C runtime libraries from this tape, because these libraries are not compatible with older versions of the compiler and the older compilers may not be compatible with these libraries.
- If you are doing an initial install of the operating system, you must install ALL before you do a sysgen or before you install any of the compilers.
- You will need approximately 26 megabytes of disk space in both /tmp and /usr/lib to install CONVEX ALL V2.0.1. If there is not enough free space in either partition, the installation script will prompt you for alternate directories.

Installation script

The installation script will prompt you on how your system is configured. It will ask if you have installed CONVEX FORTRAN, CONVEX C, CONVEX CXpa and CONVEX Consultant to determine which libraries to install. You should answer 'yes' to these questions if you have them installed or if you will install them afterwards.

The installation script will install all software in /usr/lib or /usr/bin. The assembler (as) and loader (ld) will be install in /usr/bin with symbolic links from /bin. All of the C and FORTRAN libraries are installed in /usr/lib.

To install this release, proceed as follows:

1. Mount the GIP tape that contains:
 - CONVEX ALL V2.0.1 release
2. Log in as root.
3. Allocate the tape device and run the `installsw` script as shown below. Note that `installsw` must be run on a machine with a tape drive.
4. If you are installing more than one product that has man pages, it is best to run `makewhatis` by hand after installing all products.

Installation on machine with tape drive

The installation instructions follow. User input is indicated in bold type.

```
tpmount -R -m char -a /dev/rmt20 (user input)
```

Tape device `/dev/rmt20` allocated.

```
/etc/installsw -i -d /dev/rmt20 (user input)
```

Tape device is `/dev/rmt20`

**** Installsw Header File From Tape ****

```
Copyright 1992 CONVEX Computer Corp.
All rights are reserved.
CREATED ON Wed May 20 14:56:36 CDT 1992
720-005030-003 CONVEX ALL (as, ld, libs), Release 2.0.1
```

Choose the type of installation you want to perform:

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

```
Enter your selection now --> local (user input)
Setting up installation environment. Hang on...
This tape contains only release 2.0 of CONVEX ALL (as, ld, libs).
```

```
Do you wish to install or de-install it? install (user input)
[Installing CONVEX ALL (as, ld, libs) v2.0]
Target directory [/?] / (user input)
Do you want to have the install script do the configuration (yn) [n] ? n (user input)
Install C libraries (C is not at version 5.0) (yn) [n] ? y (user input)
Install FORTRAN libraries (FC is not at version 8.0) (yn) [n] ? y (user input)
Install CXpa libraries (yn) [n] ? n (user input)
Install Consultant (prof) libraries (yn) [n] ? n (user input)
Reading tape...
Reading logical tape 0: install scripts
Reading logical tape 1: as/ld
Reading logical tape 2: libraries
```

Done Reading tape

Saving Previous ALL files

Moving ALL (as, ld, libs) files

ALL V2.0.1 installation complete.

Man pages have been installed during this installation. You need to update the man page whatis database. How do you want to run makewhatis:

- back - run makewhatis in the background
- fore - run makewhatis in the foreground (this will take some time)
- not - do not run makewhatis at this time (the default)

How do you want to run makewhatis (back|fore|not) [not]? **not** (*user input*)

Remember to run makewhatis by hand when you are finished installing software.

Done processing install tape

tpunmount (*user input*)

Possible error messages

This section lists and describes the error messages that can result during installation.

*** Drive /dev/rmt20 has no tape or a bad tape

Check the tape drive before attempting the installation again.

*** Only userid "root" may perform this installation.

This installation can only be done by userid *root*.

*** ar write error: No space left on device.

*** ranlib: ''ar rl /usr/lib/libF90_p.a __.SYMDEF'' failed.

You do not have enough room to ranlib the library from the file system
you are running the installation from. Changed to another file system
and ranlib the specified file by hand.

2**More on configuration**

The install script will install various libraries based upon the installation of the following products: CONVEX FORTRAN, CONVEX C, CONVEX CXpa and CONVEX Consultant. The installation script has been designed to only install what you need or want. The installation script will always install the CONVEX Assembler (as) and CONVEX Loader (ld).

The first question to configure your system is *"Do you want to have the install script do the configuration (yn) [n] ?"* The default answer is *no*.

If you answer *yes (y)* to this question, the installation script will determine what libraries to install based upon what is currently installed on your system. It will notify you as to which libraries will and will not be installed. After it has determined what to install, it will ask the following question *"Override automatic configuration (yn) [n] ?"*. If your answer is *no (n)*, then the installation script will install the libraries that it has deemed necessary.

If you answer *no (n)* to the first question or *yes (y)* to the second question, then the installation script will prompt you on a product by product basis as to whether you want to install associated libraries. In its prompting, it will indicate whether the product is installed or not. After it has finished prompting you, it will install the libraries that you have chosen.

