

Installation Procedure
CONVEX ALL V1.1
Document No. 720-005030-001

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CONVEX Computer Corporation
Richardson, Texas USA

Installation Procedure, CONVEX ALL VI.1

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Installation procedure

This document describes the installation of CONVEX ALL V1.1. The distribution media is either a 1600 bpi or a 6250 bpi GIP(8) format magnetic tape with part number 720-003515-001.

CONVEX ALL V1.1 is the first version of ALL that contains 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.
- To install the FORTRAN libraries, this release requires that you have installed CONVEX FORTRAN V7.0 or higher.
- To install the C bit and math libraries, this release requires that you have installed CONVEX C V4.3 or higher.
- 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 V1.1. If there is not enough free space in either partition, the installation script will prompt you for alternate directories.

CAUTION

The assembler (`as`) and loader (`ld`) will have to be reinstalled if ConvexOS 9.1 Utilities are reinstalled on this system.

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 the assembler (`as`) and loader (`ld`) in `/usr/bin` with symbolic links to them from `/bin`. All of the C and FORTRAN libraries are installed in `/usr/lib`. The installation script will save the old versions of `as`, `ld` and C and FORTRAN libraries in `/usr/convex/oldall`.

To install this release, proceed as follows:

1. Mount the GIP tape that contains:
 - CONVEX ALL V1.1 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
720-003515-001 CONVEX ALL (as, ld, libs), Release 1.1
```

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 1.1 of CONVEX ALL (as, ld, libs).
```

```
Do you wish to install or de-install it? install (user input)
```

```
[Installing CONVEX ALL (as, ld, libs) v1.1]
```

```
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 installed) (yn) [y] ? y (user input)
```

```
Install FORTRAN libraries (FORTRAN is installed) (yn) [y] ? 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

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.

ALL V1.1 installation complete.

Done processing install tape

tpunmount *(user input)*
/usr/lib/makewhatis *(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.

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.