

# Beyond Linux® From Scratch

**Version 12.4**

2025 9 1

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**: Bruce Dubbs**

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LFS

LFS

I.

1.

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II.

2.

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3.

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III. LFS

5.

Binutils-2.45 - Pass 1  
GCC-15.2.0 - Pass 1  
Linux-6.16.1 API Headers  
Glibc-2.42  
Libstdc++ from GCC-15.2.0

6.

M4-1.4.20  
Ncurses-6.5-20250809  
Bash-5.3  
Coreutils-9.7  
Diffutils-3.12  
File-5.46  
Findutils-4.10.0  
Gawk-5.3.2  
Grep-3.12  
Gzip-1.14  
Make-4.4.1  
Patch-2.8  
Sed-4.9  
Tar-1.35  
Xz-5.8.1  
Binutils-2.45 - Pass 2  
GCC-15.2.0 - Pass 2

7. Chroot 가

가

Chroot

Gettext-0.26  
Bison-3.8.2  
Perl-5.42.0  
Python-3.13.7  
Texinfo-7.2  
Util-linux-2.41.1

IV. LFS

8.

Man-pages-6.15  
Iana-Etc-20250807  
Glibc-2.42  
Zlib-1.3.1  
Bzip2-1.0.8  
Xz-5.8.1  
Lz4-1.10.0  
Zstd-1.5.7

File-5.46  
Readline-8.3  
M4-1.4.20  
Bc-7.0.3  
Flex-2.6.4  
Tcl-8.6.16  
Expect-5.45.4  
DejaGNU-1.6.3  
Pkgconf-2.5.1  
Binutils-2.45  
GMP-6.3.0  
MPFR-4.2.2  
MPC-1.3.1  
Attr-2.5.2  
Acl-2.3.2  
Libcap-2.76  
Libxcrypt-4.4.38  
Shadow-4.18.0  
GCC-15.2.0  
Ncurses-6.5-20250809  
Sed-4.9  
Psmisc-23.7  
Gettext-0.26  
Bison-3.8.2  
Grep-3.12  
Bash-5.3  
Libtool-2.5.4  
GDBM-1.26  
Gperf-3.3  
Expat-2.7.1  
Inetutils-2.6  
Less-679  
Perl-5.42.0  
XML::Parser-2.47  
Intltool-0.51.0  
Autoconf-2.72  
Automake-1.18.1  
OpenSSL-3.5.2  
Libelf from Elfutils-0.193  
Libffi-3.5.2  
Python-3.13.7  
Flit-Core-3.12.0  
Packaging-25.0  
Wheel-0.46.1  
Setuptools-80.9.0  
Ninja-1.13.1  
Meson-1.8.3  
Kmod-34.2  
Coreutils-9.7  
Diffutils-3.12  
Gawk-5.3.2

```
Findutils-4.10.0
Groff-1.23.0
GRUB-2.12
Gzip-1.14
IPRoute2-6.16.0
Kbd-2.8.0
Libpipeline-1.5.8
Make-4.4.1
Patch-2.8
Tar-1.35
Texinfo-7.2
Vim-9.1.1629
MarkupSafe-3.0.2
Jinja2-3.1.6
Udev from Systemd-257.8
Man-DB-2.13.1
Procps-ng-4.0.5
Util-linux-2.41.1
E2fsprogs-1.47.3
Sysklogd-2.7.2
SysVinit-3.14
```

9.

LFS-Bootscripts-20250827

System V

```
/etc/inputrc
/etc/shells
```

10. LFS

```
/etc/fstab
Linux-6.16.1
GRUB
```

11.

LFS

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LFS

V.

- A.
- B.
- C.
- D.

version-20250827

```
/etc/rc.d/init.d/rc
/lib/lsb/init-functions
/etc/rc.d/init.d/mountvirtfs
/etc/rc.d/init.d/modules
```

```
/etc/rc.d/init.d/udev
/etc/rc.d/init.d/swap
/etc/rc.d/init.d/setclock
/etc/rc.d/init.d/checkfs
/etc/rc.d/init.d/mountfs
/etc/rc.d/init.d/udev_retry
/etc/rc.d/init.d/cleanfs
/etc/rc.d/init.d/console
/etc/rc.d/init.d/localnet
/etc/rc.d/init.d/sysctl
/etc/rc.d/init.d/sysklogd
/etc/rc.d/init.d/network
/etc/rc.d/init.d/sendsignals
/etc/rc.d/init.d/reboot
/etc/rc.d/init.d/halt
/etc/rc.d/init.d/template
/etc/sysconfig/modules
/etc/sysconfig/createtfiles
/etc/sysconfig/udev-retry
/sbin/ifup
/sbin/ifdown
/lib/services/ipv4-static
/lib/services/ipv4-static-route
```

E. Udev

55-lfs.rules

F. LFS

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