

Beyond Linux® From Scratch

Version 12.4

2025 9 1

Gerard Beekmans

: Bruce Dubbs

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LFS

LFS

I.

1.

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II.

2.

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3.

4.

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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

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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/createfiles
/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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