

Linux

200GB

GNU C	5.1	gcc -v
Clang/LLVM (optional)	11.0.0	clang --version
GNU make	3.81	make --version
bash	4.2	bash --version
binutils	2.23	ld -v
flex	2.5.35	flex --version
bison	2.0	bison --version
pahole	1.16	pahole --version
util-linux	2.10o	fdformat --version
kmod	13	depmod -V
e2fsprogs	1.41.4	e2fsck -V
jfsutils	1.1.3	fsck.jfs -V
reiserfsprogs	3.6.3	reiserfsck -V
xfsprogs	2.6.0	xfs_db -V
squashfs-tools	4.0	mksquashfs --version
btrfs-progs	0.18	btrfsck
pcmciautils	004	pccardctl -V
quota-tools	3.09	quota -V
PPP	2.4.0	pppd --version
nfs-utils	1.0.5	showmount --version
procps	3.2.0	ps --version
udev	081	udevadm --version
grub	0.93	grub --version grub-install --version
mcelog	0.6	mcelog --version
iptables	1.4.2	iptables -V
openssl & libcrypto	1.0.0	openssl version

bc	1.06.95	bc -version
Sphinx1	1.7	sphinx-build -version
cpio	any	cpio -version

Sphinx

GCC

gcc CPU

Clang/LLVM ()

clang LLVM release.llvClang/LLVM Linux

Make

GNU make 3.81

Bash

bash Bash 4.2

Binutils

Binutils 2.23

pkg-config

4.18 pkg-config kconfig ‘make {g,x}config’ pkg-config

Flex

Linux 4.16 flex 2.5.35

Bison

Linux 4.16

bison 2.0

pahole

Linux 5.2

CONFIG_DEBUG_INFO_BTF

vmlinux

DWARF

BTF BPF

'dwarves' 'pahole' <https://fedorapeople.org/~acme/dwarves/>

Mkinitrd

/lib/modules

mkinitrd

E2fsprogs

e2fsprogs

fsck

debugfs

JFSutils

jfsutils

- fsck.jfs

 - JFS
- mkfs.jfs

 - JFS
-

Reiserfsprogs

reiserfsprogs

reiserfs-3.6.x Linux

mkreiserfs

.

i3

resize_reiserfs

debugreiserfs

reiserfsck

Xfsprogs

xfsprogs

contains

mkfs.xfs

xfs_db

xfs_repair

XFS

2.0.0

XFS

PCMCIAutils

PCMCIAutils

pcmcia-cs.

PCMCIA

16

PCMCIA

Quota-tools

2

32

uid

gid

Quota-tools 3.07

Intel IA32 microcode

IA32

udev

```
mkdir /dev/cpu
mknod /dev/cpu/microcode c 10 184
chmod 0644 /dev/cpu/microcode
```

root microcode_ctl

udev

udev/devudev devfs

FUSE

libfuse 2.4.0 direct_iokernel_cache

Networking

General changes

ip-route2

Packet Filter / NAT /NAT

NAT 2.4.x (iptables) 2.2.x ipchains 2.0.x ipfwadm

PPP

PPP PPP pppd 2.4.0

udev /dev/ppp

```
mknod /dev/ppp c 108 0
```

NFS-utils

2.4 mountdexportfs /var/lib/nfs/rmtab.

rmtab rmtab

rmtab

mountd mountd

```
mount -t nfsd nfsd /proc/fs/nfsd
```

exportfs mountd

NFS

Internet

mcelog

x86

CONFIG_X86_MCE

CPU

Kernel documentation

Sphinx

Sphinx [Documentation/doc-guide/sphinx.rst](#) Sphinx

Getting updated software

Kernel compilation

gcc

- [<ftp://ftp.gnu.org/gnu/gcc/>](ftp://ftp.gnu.org/gnu/gcc/)

Clang/LLVM

- [Getting LLVM.](#)

Make

- [<ftp://ftp.gnu.org/gnu/make/>](ftp://ftp.gnu.org/gnu/make/)

Bash

- [<ftp://ftp.gnu.org/gnu/bash/>](ftp://ftp.gnu.org/gnu/bash/)

Binutils

- [<https://www.kernel.org/pub/linux/devel/binutils/>](https://www.kernel.org/pub/linux/devel/binutils/)

Flex

- [<https://github.com/westes/flex/releases>](https://github.com/westes/flex/releases)

Bison

- [<ftp://ftp.gnu.org/gnu/bison/>](ftp://ftp.gnu.org/gnu/bison/)

OpenSSL

- [<https://www.openssl.org/>](https://www.openssl.org/)

System utilities

Util-linux

- [<https://www.kernel.org/pub/linux/utils/util-linux/>](https://www.kernel.org/pub/linux/utils/util-linux/)

Kmod

- [<https://www.kernel.org/pub/linux/utils/kernel/kmod/>](https://www.kernel.org/pub/linux/utils/kernel/kmod/)
- [<https://git.kernel.org/pub/scm/utils/kernel/kmod/kmod.git>](https://git.kernel.org/pub/scm/utils/kernel/kmod/kmod.git)

Ksymoops

- <<https://www.kernel.org/pub/linux/utils/kernel/ksymoops/v2.4/>>

Mkinitrd

- <<https://code.launchpad.net/initrd-tools/main>>

E2fsprogs

- <<https://www.kernel.org/pub/linux/kernel/people/tytso/e2fsprogs/>>
- <<https://git.kernel.org/pub/scm/fs/ext2/e2fsprogs.git/>>

JFSutils

- <<http://jfs.sourceforge.net/>>

Reiserfsprogs

- <<https://git.kernel.org/pub/scm/linux/kernel/git/jeffm/reiserfsprogs.git/>>

Xfsprogs

- <<https://git.kernel.org/pub/scm/fs/xfs/xfsprogs-dev.git>>
- <<https://www.kernel.org/pub/linux/utils/fs/xfs/xfsprogs/>>

Pcmciautils

- <<https://www.kernel.org/pub/linux/utils/kernel/pcmcia/>>

Quota-tools

- <<http://sourceforge.net/projects/linuxquota/>>

Intel P6 microcode

- <<https://downloadcenter.intel.com/>>

udev

- <<https://www.freedesktop.org/software/systemd/man/udev.html>>

FUSE

- <<https://github.com/libfuse/libfuse/releases>>

mcelog

- <<http://www.mcelog.org/>>

cpio

- <<https://www.gnu.org/software/cpio/>>

Networking

PPP

- <<https://download.samba.org/pub/ppp/>>
- <<https://git.ozlabs.org/?p=ppp.git>>
- <<https://github.com/paulusmack/ppp/>>

NFS-utils

- <http://sourceforge.net/project/showfiles.php?group_id=14>

Iptables

- <<https://netfilter.org/projects/iptables/index.html>>

Ip-route2

- <<https://www.kernel.org/pub/linux/utils/net/iproute2/>>

OProfile

- <<http://oprofile.sf.net/download/>>

NFS-Utills

- <<http://nfs.sourceforge.net/>>

Kernel documentation

Sphinx

- <<https://www.sphinx-doc.org/>>

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