

SORT:

Make clean

```
nsh /home/matias/xv6-public
matias@pop-os ~/xv6-public (master)> make clean
Makefile:193: warning: overriding recipe for target 'fs.img'
Makefile:190: warning: ignoring old recipe for target 'fs.img'
rm -f *.tex *.dvi *.idx *.aux *.log *.ind *.ilg \
*.o *.d *.asm *.sym vectors.S bootblock entryother \
initcode initcode.out kernel xv6.img fs.img kernelmemfs \
xv6memfs.img mkfs .gdbinit \
_cat _echo _forktest _grep _init _kill _ln _ls _mkdir _rm _sh _stressfs _user
matias@pop-os ~/xv6-public (master)>
```

Make

```
matias@pop-os ~/xv6-public (master)> make
Makefile:193: warning: overriding recipe for target 'fs.img'
Makefile:190: warning: ignoring old recipe for target 'fs.img'
gcc -fno-pic -static -fno-builtin -fno-strict-aliasing -O2 -Wall -MD -ggdb -mc
gcc -fno-pic -static -fno-builtin -fno-strict-aliasing -O2 -Wall -MD -ggdb -mS
ld -m elf_i386 -N -e start -Ttext 0x7C00 -o bootblock.o bootasm.o bootmain.o
objdump -S bootblock.o > bootblock.asm
objcopy -S -O binary -j .text bootblock.o bootblock
./sign.pl bootblock
boot block is 451 bytes (max 510)
gcc -fno-pic -static -fno-builtin -fno-strict-aliasing -O2 -Wall -MD -ggdb -mc
gcc -fno-pic -static -fno-builtin -fno-strict-aliasing -O2 -Wall -MD -ggdb -mc
10000+0 records in
10000+0 records out
5120000 bytes (5.1 MB, 4.9 MiB) copied, 0.0313037 s, 164 MB/s
dd if=bootblock of=xv6.img conv=notrunc
1+0 records in
1+0 records out
512 bytes copied, 8.6394e-05 s, 5.9 MB/s
dd if=kernel of=xv6.img seek=1 conv=notrunc
393+1 records in
393+1 records out
201416 bytes (201 kB, 197 KiB) copied, 0.00105747 s, 190 MB/s
matias@pop-os ~/xv6-public (master)>
```

Make qemu-nox

- Command line version

```
make qemu-nox /home/matias/xv6-public
SeaBIOS (version 1.15.0-1)

iPXE (https://ipxe.org) 00:03.0 CA00 PCI2.10 PnP PMM+1FF8B4A0+1FECB4A0 CA00

Booting from Hard Disk..xv6...
cpu0: starting 0
sb: size 1000 nblocks 941 ninodes 200 nlog 30 logstart 2 inodestart 32 bmap start 58
init: starting sh
$
```

Filename: test

Command: sort test

```
make qemu-nox /home/matias/xv6-public
Booting from Hard Disk..xv6...
cpu0: starting 0
sb: size 1000 nblocks 941 ninodes 200 nlog 30 logstart 2 inodestart 32 bmap start 58
init: starting sh
$ sort test

1.
  112
12.
122.
123.
-123.
13.
1787.
2.
-2.
-23.
23.
232.
3.
33.
  {41.
8.
aaaaaa
asdasdasdasdf
  bbbbbb
  (ccc
zz
$
```

Command: sort -r test

```
make qemu-nox /home/matias/xv6-public
Booting from Hard Disk..xv6...
cpu0: starting 0
sb: size 1000 nblocks 941 ninodes 200 nlog 30 logstart 2 inodestart 32 bmap start 58
init: starting sh
$ sort -r test
zz
  (ccc
  bbbbbb
asdasdasf
asdasdaaaaa
8.
  {41.
33.
3.
232.
23.
-23.
-2.
2.
1787.
13.
-123.
123.
122.
  112
1.
$
```

Command: sort -o outputfile test

```
make qemu-nox /home/matias/xv6-public
iPXE (https://ipxe.org) 00:03.0 CA00 PCI2.10 PnP PMM+1FF8B4A0+1FECB4A0 CA00

Booting from Hard Disk..xv6...
cpu0: starting 0
sb: size 1000 nblocks 941 ninodes 200 nlog 30 logstart 2 inodestart 32 bmap start 58
init: starting sh
$ sort -o outputfile test
outputfile created successfully
successful write to outputfile
print the contents of the file with 'cat'

$ cat outputfile
1.
  112
12.
122.
123.
-123.
13.
1787.
2.
-2.
-23.
23.
232.
3.
33.
```

Command: sort -n test

```
make qemu-nox /home/matias/xv6-public
Booting from Hard Disk..xv6...
cpu0: starting 0
sb: size 1000 nblocks 941 ninodes 200 nlog 30 logstart 2 inodestart 32 bmap start 58
init: starting sh
$ sort -n test
-123.
-23.
-2.

aaaaaa
asdasdasdasdasf
  bbbbbb
  (ccc
zz
1.
2.
3.
8.
12.
13.
23.
33.
  {41.
  112
122.
123.
232.
1787.

$
```