

Linux From Scratch - Version 12.1-systemd

Chapter 8. Installing Basic System Software

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About Debugging Symbols | Cleaning Up

8.82.

2GB

Linux

strip

LFS

strip -strip-unnneeded

() (

Zlib

BLFS

valgrind

gdb

strip

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/tmp

(8.2.1 " "



ELF

64

ld-linux-x86-64.so.2, 32

ld-

linux.so.2

g



) save_usrlib online_usrlib (

```
save_usrlib="$(cd /usr/lib; ls ld-linux*[^g])
libc.so.6
libthread_db.so.1
libquadmath.so.0.0.0
```

```
libstdc++.so.6.0.32
libitm.so.1.0.0
libatomic.so.1.2.0"

cd /usr/lib

for LIB in $save_usrlib; do
  objcopy --only-keep-debug --compress-debug-sections=zlib $LIB $LIB.dbg
  cp $LIB /tmp/$LIB
  strip --strip-unnneeded /tmp/$LIB
  objcopy --add-gnu-debuglink=$LIB.dbg /tmp/$LIB
  install -vm755 /tmp/$LIB /usr/lib
  rm /tmp/$LIB
done

online_usrbin="bash find strip"
online_usrlib="libbfd-2.42.so
             libsframe.so.1.0.0
             libhistory.so.8.2
             libncursesw.so.6.4-20230520
             libm.so.6
             libreadline.so.8.2
             libz.so.1.3.1
             libzstd.so.1.5.5
             $(cd /usr/lib; find libnss*.so* -type f)"

for BIN in $online_usrbin; do
  cp /usr/bin/$BIN /tmp/$BIN
  strip --strip-unnneeded /tmp/$BIN
  install -vm755 /tmp/$BIN /usr/bin
  rm /tmp/$BIN
done

for LIB in $online_usrlib; do
  cp /usr/lib/$LIB /tmp/$LIB
  strip --strip-unnneeded /tmp/$LIB
  install -vm755 /tmp/$LIB /usr/lib
  rm /tmp/$LIB
done

for i in $(find /usr/lib -type f -name \*.so* ! -name \*dbg) \
         $(find /usr/lib -type f -name \*.a) \
         $(find /usr/{bin,sbin,libexec} -type f); do
  case "$online_usrbin $online_usrlib $save_usrlib" in
    *$(basename $i)* )
      ;;
    * ) strip --strip-unnneeded $i
      ;;
  esac
done
```

```
unset BIN LIB save_usrlib online_usrbin online_usrlib
```

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