

Compiling_DD-WRT_sources

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New Instructions

More streamlined, up-to-date instructions with automated scripts can be found here [Development#Building DD-WRT from Source](#).

Old Instructions <deprecated>

Install a LINUX-System like KNOPPIX and open a root shell (or become "root" by issuing "su" and type your root password), then issue the following commands (the example uses the "0528-2006-svn2242.snapshot.tar.bz2" source distribution)

```
cd /
mkdir /home/dd-wrt
cd /home/dd-wrt
wget http://www.dd-wrt.com/dd-wrtv2/downloads/sourcecode/toolchains.x86.debian.sp1.tar.bz2
tar -xjvf toolchains.x86.debian.sp1.tar.bz2
mv /home/dd-wrt/toolchains/3.4.6-uclibc-0.9.28 /home/dd-wrt/toolchains/3.4.6
mv /home/dd-wrt/toolchains/4.1.0-uclibc-0.9.28 /home/dd-wrt/toolchains/4.1.0
cd /home/dd-wrt
mkdir /home/dd-wrt/snapshot
cd /home/dd-wrt/snapshot
wget http://www.dd-wrt.com/dd-wrtv2/downloads/sourcecode/0528-2006-svn2242.snapshot.tar.bz2
tar -xjvf 0528-2006-svn2242.snapshot.tar.bz2
cd /home/dd-wrt/snapshot/DD-WRT/opt
rm libgcc_s.so
ln -s libgcc/libgcc_s.so.1 libgcc_s.so
cd /home/dd-wrt/snapshot/DD-WRT/src/linux
ln -s brcm/linux.v23
ln -s brcm/linux.v24
ln -s brcm/linux.v23 linux
cd /home/dd-wrt
mkdir /home/dd-wrt/image
ln -s /home/dd-wrt/image /GruppenLW
cd /home/dd-wrt/snapshot/DD-WRT/opt
```

then start compiling with

```
./install.sh
```

your images should be in

```
/home/dd-wrt/image
```

32bit operating system

Howto compile dd-wrt on a 32bit operating system.

Problem:

Compilation stops, because mksquashfs-lzma is a 64bit file. Can't execute file....

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Solution:

BrainSlayer added the source code for mksquashfs-lzma to the current svn. So it only needs to be compiled on your 32bit OS. Please install toolchain 3.4.6 on your system.

step 1:

```
mkdir /home/dd-wrt/tools
cd /home/dd-wrt/tools
```

step 2:

```
svn co svn://svn.dd-wrt.com/DD-WRT/src/squashfs-tools
```

or

take a look at `./DD-WRT/src/squashfs-tools` (included in new snapshots)

step 3:

source code of mksquashfs-lzma should be in `/home/dd-wrt/tools/squashfs-tools`

step 4:

```
cd /home/dd-wrt/tools/squashfs-tools
```

step 5:

create a shell script -> vi `install.sh`

```
[code]
```

```
#!/bin/sh
```

```
export PATH=/home/dd-wrt/toolchains/3.4.6/bin:$PATH
```

```
make
```

```
[/code]
```

save -> ESC ; wq!

step 6:

start compiling `./install.sh`

step 7:

copy mksquashfs-lzma to the right directory

```
cp mksquashfs-lzma /home/dd-wrt/snapshot/DD-WRT/src/linux/linux.v23/scripts/squashfs/
```