

Compiling

wiki.allstarlink.org

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1 Compiling

Legacy Version - This page is about a legacy version of AllStarLink. See ¹

Obsolete - This page has obsolete information that is likely no longer relevant and will be deleted.

¹ <https://allstarlink.github.io/developers/source-install/>

2 Compiling AllStarLink

The following commands will allow you to compile AllStarLink's ASL 1.01+ release.

These instructions assume you are already familiar with compiling and installing software on Linux.

Note: These instructions are currently a Work In Progress. You are going to have to resolve dependency issues yourself if you follow them.

You will also need to have cloned the main AllStarLink repo at ¹

2.1 DO NOT BLINDLY RUN THE COMMANDS HERE WITHOUT UNDERSTANDING WHAT THEY DO!!

This is for more advanced users. If you are a novice user at building software in a Linux environment or only prefer/can use plug and play/turnkey setups ***THEN THIS IS NOT FOR YOU TO TRY!***

DO NOT TRY THIS ON A RASPBERRY PI UNLESS YOU KNOW HOW TO RESOLVE KERNEL SOURCE/DEPENDENCY ISSUES -- OTHERWISE YOU RUN THE RISK OF BLOWING UP YOUR SYSTEM!!

2.2 Install requirements for building

```
apt-get install -y git build-essential libss7-dev wget apt-utils dahdi-source
dahdi-linux aptitude tcsh gawk libusb-dev vim libblkid-dev
```

2.3 Install Linux Sources and Headers

```
apt-get install -y linux-headers-generic linux-source
```

2.4 Install Asterisk Prereqs

```
mkdir /etc/vpb
apt-get build-dep asterisk -y
```

¹ <https://github.com/AllStarLink/Asterisk>

```
apt-get purge -y libopenr2-3 libopenr2-dev
dpkg --configure -a
apt-get install -f
```

2.5 Build DAHDI

```
git clone https://github.com/AllStarLink/ASL-DAHDI-PATCHED-2.11.1.git
cd ASL-DAHDI-PATCHED-2.11.1
make distclean
make MODULES_EXTRA="dahdi_dummy"
make install MODULES_EXTRA="dahdi_dummy"
make config
```

2.6 Install GCC 4.9 to compile ASL 1.01+

```
echo "deb http://ftp.us.debian.org/debian/ jessie main contrib non-free" >> /etc/apt/sources.list
echo "deb-src http://ftp.us.debian.org/debian/ jessie main contrib non-free" >> /etc/apt/sources.list
apt-get update
apt-get install -y gcc-4.9 g++-4.9
```

2.7 Build Asterisk for ASL

```
git clone https://github.com/AllStarLink/Asterisk
cd Asterisk/asterisk
./bootstrap.sh
make distclean
./configure CXX=g++-4.9 CC=gcc-4.9 LDFLAGS="-zmuldefs -lasound" CFLAGS="-Wno-unused -Wno-all
-Wno-int-conversion"
make menuselect.makeopts
menuselect/menuselect --enable app_rpt --enable chan_beagle --enable chan_tlb
--enable chan_usrp --enable chan_rtpdir --enable chan_usbradio --enable
chan_simpleusb --enable chan_echolink --enable app_gps --enable chan_voter
--enable radio-tune-menu --enable simpleusb-tune-menu menuselect.makeopts
```

You will be taken to the main menuselect screen. Press ESC and "S" to save

```
make
make install
```

You can optionally install the sample Asterisk config files

```
make samples
```

Note: If you have made any changes and just wish to update the binaries without going through the entire install run:

```
make bininstall
```

2 <https://github.com/AllStarLink/ASL-DAHDI-PATCHED-2.11.1.git>

2.8 Final

There is no guarantee this will work for you. Your mileage may vary.

2.9 Contributors

- N8EI³
- This page was last edited on 23 October 2024, at 23:04.

³ <https://wiki.allstarlink.org/index.php?title=User:N8EI&action=edit&redlink=1>

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¹ Chapter 4 on page 15

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Version 3, 29 June 2007

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