

GCC and Linux Architectures

Check Architecture

To check if system is running a 32 (Raspberry) or 64 (X86) architecture, use one of the following commands:

```
# dpkg --print-architecture
-----
armhf
```

```
# getconf LONG_BIT
-----
32
```

```
# file /lib/systemd/systemd
-----
/lib/systemd/systemd: ELF 32-bit LSB pie executable, ARM, EABI5 version 1
(SYSV), dynamically linked, interpreter /lib/ld-linux-armhf.so.3,
BuildID[sha1]=1dc619f043235803cc3339a671c7f0821b733d93, for GNU/Linux 3.2.0,
stripped
```

Required compilers

GCC is also used to cross compile Linux applications. Applications can be compiled for 32-bit or 64-bit Linux systems.

Architecture	Compilers
32-bit	arm-linux-gnueabi-gcc arm-linux-gnueabi-g++
64-bit	aarch64-linux-gnu-gcc aarch64-linux-gnu-g++

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