

CORE32 Toolchain Setup

for MIO32 application development on Linux

You must ensure that you have the basic developer tools (make etc) installed. The procedure for this varies depending on your distribution. For Ubuntu/Debian the command "sudo aptitude install build-essential subversion wget" should install the necessary tools.

Download the MIO32 repository

Create a directory to download the toolchain to (~/midibox is my personal favourite). and download the repository:

```
mkdir ~/midibox
chdir ~/midibox
svn checkout svn:svnmios.midibox.org/mios32
```

==== Install the CORE32 toolchain ====

The MIDiBox community have created a modified GNU Compiler Collection, ready for use with the ARM Cortex M3 platform. The toolchain contains all of the tools required to build MIO32 applications including GCC and NEWLIB.

The Toolchain has currently been compiled for Windows (2000+), Mac OS X (Leopard or newer) and Linux x86 (built on Ubuntu 10.10).

The download directory for the toolchain is
<ftp://ftp.lansystems.co.uk/pub/midibox>


Download the latest "linux86" file and extract into your favorite directory, If you extract into /usr/local the toolchain will create /usr/local/mios32_toolchain and various sub-directories containing the toolchain files.

```
chdir /usr/local
sudo wget
ftp://ftp.lansystems.co.uk/pub/midibox/mios32\_toolchain\_linux86\_xxxxxxxx.tgz
sudo tar zxvf mios32_toolchain_linux86_xxxxxxxx.tgz''
```

replace xxxxxxxx with the date of the latest linux toolchain in
<ftp://ftp.lansystems.co.uk/pub/midibox>

You now need to set the path variable for the toolchain bin directory (/usr/local/mios32_toolchain/bin), see the next section about this
==== Environment variables =====

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Last update: **2010/11/30 20:52**