

# **MuntsOS Embedded Linux**

## ***Application Note #2: Development Environment Setup for non-Debian Linux***

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## **Introduction**

This application note describes how to install the application software development environment for **MuntsOS Embedded Linux** onto a computer running a 64-bit Linux distribution *other* than Debian 11. (For Debian 11, refer to [Application Note #1.](#))

The **MuntsOS Embedded Linux** cross-toolchain packages are built on and for 64-bit Debian 11 (Bullseye), but since the binaries with them are statically linked, it may be possible to use them on other 64-bit Linux distributions.

## **RPM Based Linux Distributions**

*At time of writing, this has only been tested on Fedora 37.*

We now publish RPM package files containing the **MuntsOS Embedded Linux** cross-toolchains. These RPM package files contain the exact same statically linked binaries built on Debian 11, but repackaged in RPM files. In order to install them, just fetch and install the RPM package files at:

<http://repo.munts.com/muntsos/rpms/>

with commands similar to the following:

```
wget -q -r -np http://repo.munts.com/muntsos/rpms/  
sudo rpm -U repo.munts.com/muntsos/rpms/*.rpm  
rm -rf repo.munts.com
```

## **Easy Setup Script**

An easy setup script for RPM based Linux distributions is available at:

<http://git.munts.com/muntsos/scripts/setup-fedora>

The following commands fetch and execute the easy setup script:

```
wget http://git.munts.com/muntsos/scripts/setup-fedora  
chmod 755 setup-fedora && ./setup-fedora && rm setup-fedora
```

## Other Linux Distributions

*Step 1:* Prepare the system for application software development by making sure the following Linux programs are installed:

- `git`
- `gprbuild`
- `make`
- `tar`
- `wget`

*Step 2:* Download one or more **MuntsOS** cross-toolchain tarballs from the following web server:

<http://repo.munts.com/muntsos/toolchains>

You can either download a **MuntsOS** cross-toolchain tarball with your favorite web browser, or with a `wget` command similar to the following:

```
wget http://repo.munts.com/muntsos/muntsos-dev-beaglebone-2022.040.1-  
amd64.tgz
```

*Step 3:* After you have downloaded one of the **MuntsOS** cross-toolchain tarballs, you can install it with a command similar to the following:

```
sudo tar xzf muntsos-dev-beaglebone-2022.040.1-amd64.tgz --  
directory=/usr/local
```

Each **MuntsOS** cross-toolchain package contains cross-compilers for the Ada, C, C++, Fortran, and Pascal programming languages.