

## What's New#

The latest [M2](#) head branch build from October 22, 2007 has the following features:

- [POSIX PSE52 Certification](#)
- [ARM 11/ARMv6 architectures support](#)
  - You'll find a `procnto-v6` in the `armle/boot/sys` directory
- Improved performance
  - [Variable Page Size](#)
    - NOTE to disable use the `-m~v` option to `procnto*`
  - [PPCBE BAT Addressing](#)
  - [Cached confstr values](#)
- [PPC 900 series family architecture support](#)
- [Cross Endian TDP capable kernel](#)

Also, new to M2 is:

- [Memory Partitioning](#)

## Installation Instructions#

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**NOTE** Since this is a destructive procedure, we recommend that you create a backup of the affected files. For example, you can untar the package into your `/tmp` directory and then create a file list from this directory structure. Use this list file to tar up the files using your Base Directory as the root directory.

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1. Log in as root (or with administrator privileges on Windows).
2. **Download** the M2 package for your QNX Momentics host at: [M2](#)
3. Determine the base directory of your QNX Momentics installation by opening a command shell and using the `qconfig` command. For example:

```
$ qconfig
QNX Installations
```

```
Installation Name: QNX Momentics Development Suite 6.3.2
Version: 6.3.2
Base Directory: /usr/qnx632/
QNX_HOST: /usr/qnx632/host/qnx6/x86/
QNX_TARGET: /usr/qnx632/target/qnx6/
```

The base directory in this example is `/usr/qnx632/`, but it could be different on your machine, depending on your host and where you installed QNX Momentics.

4. Extract the archive you downloaded into the base directory:

Command-line based

Windows hosts:

1. Open a command prompt (`cmd.exe`) and switch to the drive indicated in the base directory that you found in step 2 (e.g. C:).
2. Copy the archive to your base directory, replacing `base_dir` with the path you found in step 2:  
`copy drive:\ntocore_win32.tar.gz base_dir`

3. Use the following commands to extract the archive contents. Don't specify the drive letter in the archive path:

```
cd base_dir
tar -zxvf ntocore_win32.tar.gz
```

Neutrino and Linux hosts:

Open a command shell and use the following commands (replacing `base_dir` with the path found in step 2, and `archive_path` with the full path to the downloaded archive):

```
cd base_dir
tar -x -v -f archive_path/ntocore_nto.tar.gz  NOTE replace _nto with _linux on Linux hosts
```

If you are using a QNX Neutrino host you may want to install the runtime components and run Trinity2. To do this you will have to populate your host's runtime with the M2 build components, rebuild your image and reboot your board.

To install the runtime update:

```
cd $QNX_TARGET/x86
cp -fRp . /
```

To rebuild your boot image using the runtime update:

1. Backup your build file

```
cp /.boot /.altboot
```

2. Then rebuild your boot image so that it will now include the updated shared objects and procnto. In this example, we are assuming that you are

using `/boot/build/qnxbasedma.build`

```
cd /boot/build
mkifs -vv qnxbasedma.build /.boot
```

3. Reboot your machine and voila, you are now running Trinity2!