

Software Update Tutorial



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Revision History

V1.0: June 19, 2018 (JD)

V1.1: July 3, 2018 (KN)

V1.2: August 1, 2018 (JD)

V1.3: September 4, 2018 (KN) added troubleshooting section

Introduction

This document contains the instructions for users to upgrade the software that their machine is running

If you have any questions about how to use this tutorial, please contact us [here](#).

Release Notes for Software Versions

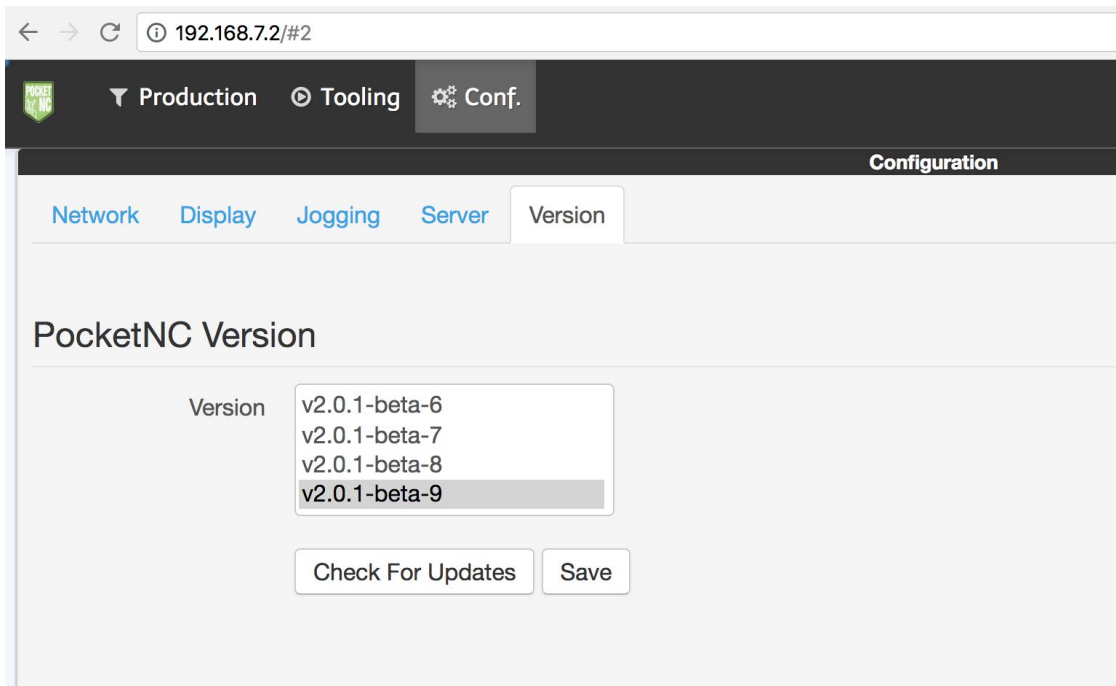
Version	Date	Notes
v3.3.0	July 15, 2018	Removed unnecessary Power and Stop buttons, renamed Shutdown to E-Stop and added a power button for properly shutting down the beaglebone
v3.2.0	July 5, 2018	Improved the compensation table UI for added flexibility in calibrating a machine
v3.1.0	July 4, 2018	Added the ability to upload and download the machine specific calibration data.
v3.0.0 and v3.0.1	June, 2018	Fixed bug that caused UI to freeze if changing tabs after running a program.
V2.0.1-beta-9 and 10	May, 2018	Fixed tool table issues with units set to mm. Added A and B compensation tables to Linux CNC settings.
v2.0.1-beta-8	January, 2018	Fix to prevent freezing when large files are loaded.
v2.0.1-beta-7	November, 2017	Fixed scrolling and better program line number following.
V2.0.1-beta-3 -6	October, 2017	Can use tool probe after running a program. Fixed ability to delete files before loading a file, fixed update script to properly call pre- and post-scripts.

Tools Needed

- Ethernet cord
- Ethernet port with internet access

Section 1: Software Update

You can check the version of the software that you are running by opening the user interface and going to the Conf > Version tab. Scroll down in the version window until you find the one that is highlighted.



If you are running an earlier version of the software, plug in an ethernet cord that is connected to a port with internet access into the ethernet port on the front of the machine. You should see green and yellow LED's light up next to port when the machine detects an internet connection.

Click on the “Check for Updates” button. The machine will populate any new versions of the software into the version window. You may need to wait a few minutes for connection to be established and for the updates to populate. Click on the software version that you would like to install and then click “Save.” The Beaglebone will save the new version of the software then reboot. This process may take several minutes.

Do not unplug the machine or the ethernet cord while the software is updating!

Once the machine has rebooted, check that the desired version of the software was installed by going to the Conf > Version tab and checking which version is currently being run.

Section 2: Troubleshooting

While it can take 5 minutes or so to see the software versions available, sometimes the new versions do not come up. Be sure that you have an internet connection through the ethernet first, but if there is connection and you still don't see the updates try the following:

The Beaglebone doesn't have a battery to maintain a system clock, so it relies on the network to properly set the time. Sometimes it can't establish a connection with the time setting server. The date defaults to Feb 2015, which causes issues with contacting secure sites over https.

1. Go into the terminal window (Mac) or open Putty (Windows - can download this to your computer from the internet - search Putty).
2. We can test that the time stamp is the problem with this command:
`curl https://www.github.com/PocketNC`
3. If it complains about SSL certificate problems, then the date issue is likely what's wrong.
Type in the command:
`date`
4. Here's the command to set the date to something reasonable (can change it to the current time, but anything after the latest software update date will work):
`sudo date -s '2018-08-29 08:44:00'`