

## How-To:

### Setting up the environment variables for the development kit GUIs

Note: The development kit GUIs heavily rely on the Quartus® II software version due to specific library requirements.

If you are having any issues launching the GUI for your development kit check following things:

Unlike other Altera® development tools, the GUI for the development kits do not have a relative path relationship to the Quartus II software, in some cases you will need to set the path manually. Below will be instructions that will help guide in checking for the path settings and if needed it will also show you how to set the paths.

#### 1) How to check and set up the environmental variable

To check the Path you can either issue the **set path** command in the DOS command prompt or you can check the **Path** Environment Variable in the Control Panel.

To check the **Path** in the Control Panel, open the **Control Panel => System => Advanced system settings =>**

Select the **Advanced** tab on the top, and then select the **Environment Variables**

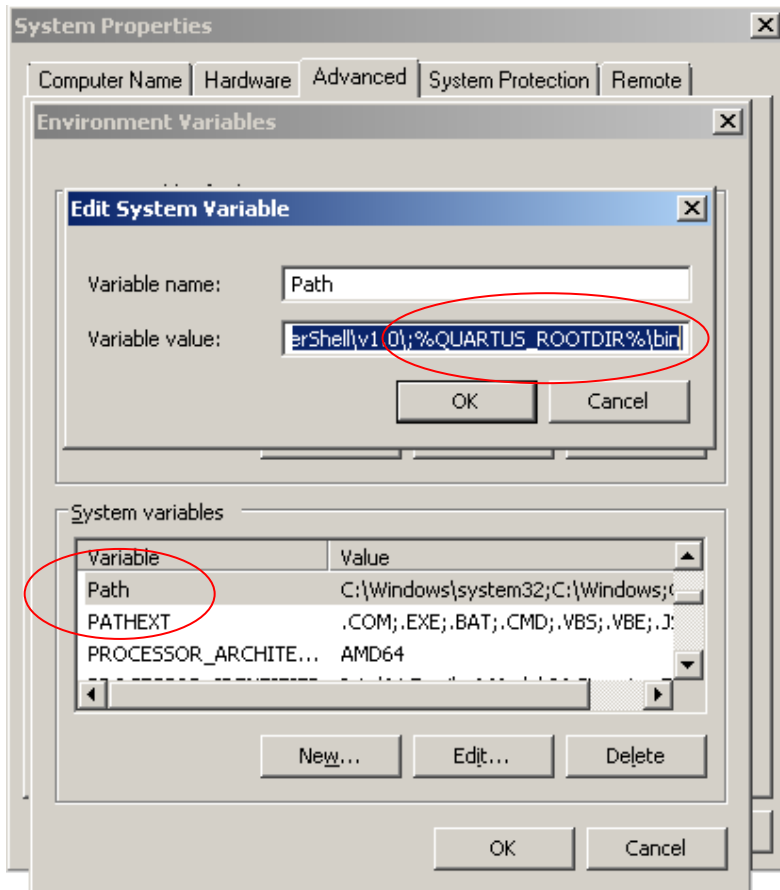


Figure 1-1. Edit System Variable

Verify that you have this **Path** entry:

For 32-bit operating systems: **%QUARTUS\_ROOTDIR%\bin**

For 64-bit operating systems: **%QUARTUS\_ROOTDIR%\bin64**

If you do not see this path setting then you will need to manually add it to the end of your existing path by using a semi-colon separator then adding the Path (see Figure 1-1).

In cases that you are NOT an Administrator on your machine, then you will need to add the **Path** into the **User variables for** section (see Figure 1-2).

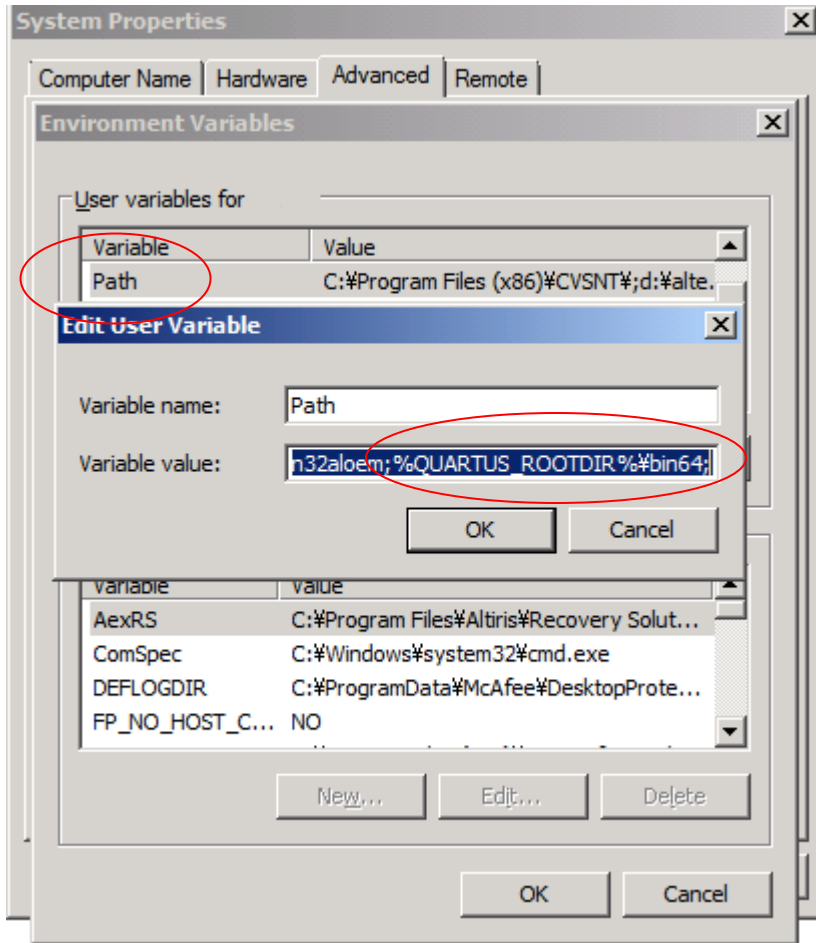
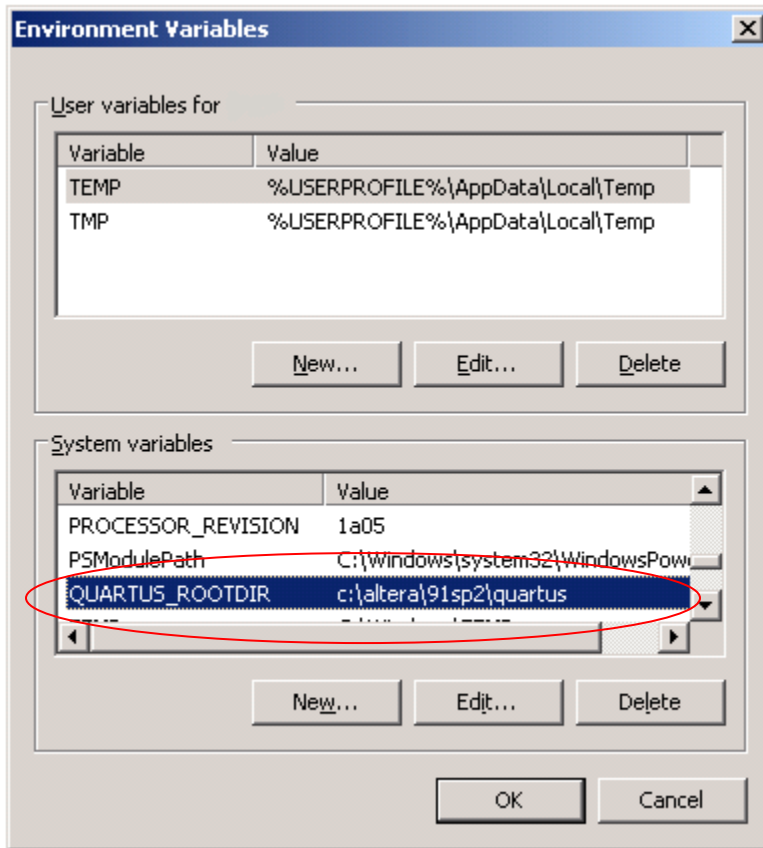


Figure 1-2. Edit User Variable

- 2) Verify the **QUARTUS\_ROOTDIR** variable matches the Quartus II version that the development kit GUI is requesting.



**Figure 2-1.** Environment Variables

If you are not an administrator, then you will have same entry under the **User variables for** area.

If the version does not match the Quartus II software version requested by the development kit GUI then you will need to edit the **QUARTUS\_ROOTDIR** variable with path to the requested Quartus II software version.

- 3) Verify the **jtagconfig** version

```
C:\>jtagconfig --version
jtagconfig
Version 12.1 Build 177 11/07/2012 SJ Full Version
Copyright (C) 1991-2012 Altera Corporation
```

**Figure 2-2.** Command Prompt

To verify the current activated Quartus II software version issue the **jtagconfig** command in the command prompt.

This command will be launched from the **%QUARTUS\_ROOTDIR%/bin** directory. This also will verify that you have setup the Path variable correctly.

**Additional Options:**

- 1) Automatically set the Path using the **qreg.exe** tool.

From a DOS command prompt navigate to your Quartus II software install folder which matches the Quartus II software version your GUI is requesting:

32-bit version: **<install folder>\altera\bin**

64-bit version: **<install folder>\altera\bin64**

Execute this command: **qreg.exe --force --jtag --setqdir**

- 2) Launch the development kit from a Nios® II Command Shell

Open the Nios II command shell in the version of the Quartus II software that the GUI is requesting.

Navigate to where you installed the development kit GUI. You should be able to see `bts.jar`, `pt.jar`, or `clk_cont.jar` files. These will be java bit files that you can execute from the command shell.

Depending on the GUI you would like launch select from the commands below:

- To start the (Board Test System) BTS GUI: **java -jar bts.jar**
- To start the CLK GUI : **java -jar clk\_cont.jar**
- To start the Power GUI: **java -jar pt.jar**

<b>Revision</b>	<b>Changes Made</b>	<b>Date</b>
V1.0	Initial release.	March 2013

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