

Microprocessor Architectures [ELEC-H-473]

Troubleshooting MPLAB dsPIC build errors

2015–2016

Purpose

You will soon start your master thesis and your first job. There will not be someone to help you solve problems you can solve by yourself.

This document explains:

- Error solving methodology
- Tool suite location error

1 Error solving methodology

This section explains the general methodology to troubleshoot errors/bugs.

The general methodology is:

1. Read the error message¹
2. Understand the error message
3. Determine which part of the toolchain is involved
4. Imagine possible solutions
5. Fix your error

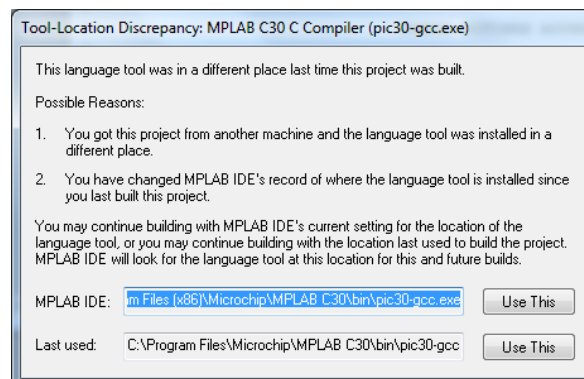
2 Tool suite location

Projects were written on a 32bit OS and the OS you are using to edit it now is 64bit, resulting in changes in the C:/Program Files directory structure.

2.1 Error message

|| "Couldn't locate build tool. Check tool locations."

or "Tool-Location Discrepancy" message box:



2.2 Meaning

You want me to use `pic30-gcc.exe`, but I can't find the executable file.

¹The assistant will **NOT** help you if you don't do that!

2.3 Part of the tool chain

This is a project management/makefile problem.

2.4 Possible solutions

- Move/install the compile chain in the expected directory (bad idea).
- Tell your project manager where the executable file is (good idea).

2.5 Fix the problem

1. Go to Project/Set Language Tool Locations
2. Then to Microchip C30 Toolsuite/Executables/MPLab C30 C Compiler
3. Browse to the correct location (C:\Program Files (x86)\Microchip\MPLAB C30\bin\pic30-gcc.exe see picture below).
4. Recompile your project.

