

3B Software Installation & Configuration Guide

The purpose of this guide is to install & configure the software used to develop ASM programs and generate executables in CS3B.

To do this you will need to install and configure the software below:

- Textpad – the editor for ASM programs
- Debugging Tools for Windows – the debugging environment for ASM programs
- MASM615 – the assembler for Intel ASM programs
- MASM6.sym – the style formatter for ASM programs

The directions for installation and configuration are below.

3B Software Installation

To install Textpad:

- 1) Download [txpeng710.zip](#)
- 2) Unzip the **txpeng710.zip**
- 3) Run **setup.exe**

To install Debugging Tools for Windows:

- 1) Download [dbg_x86_6.3.5.exe](#)
- 2) Run/Install dbg_x86_6.3.5.exe

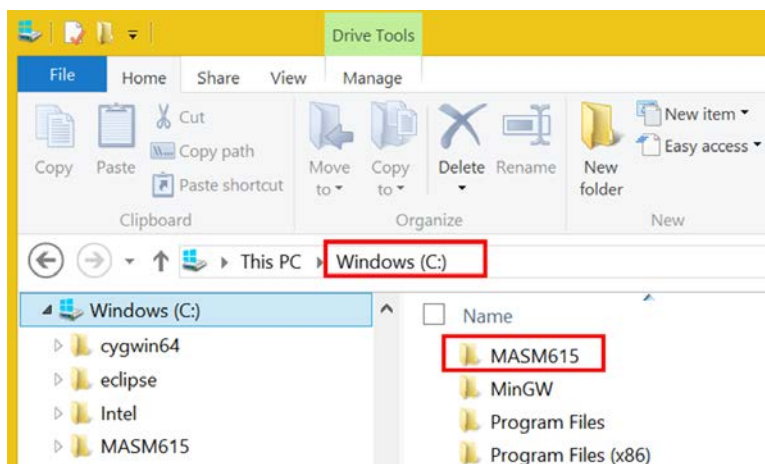
To install MASM615:

There are two parts for installing MASM615:

- **Part 1:** Downloading/installing the software.
- **Part 2:** Configuring your computer to run the MASM615 assembler by updating the system Path environment variables.

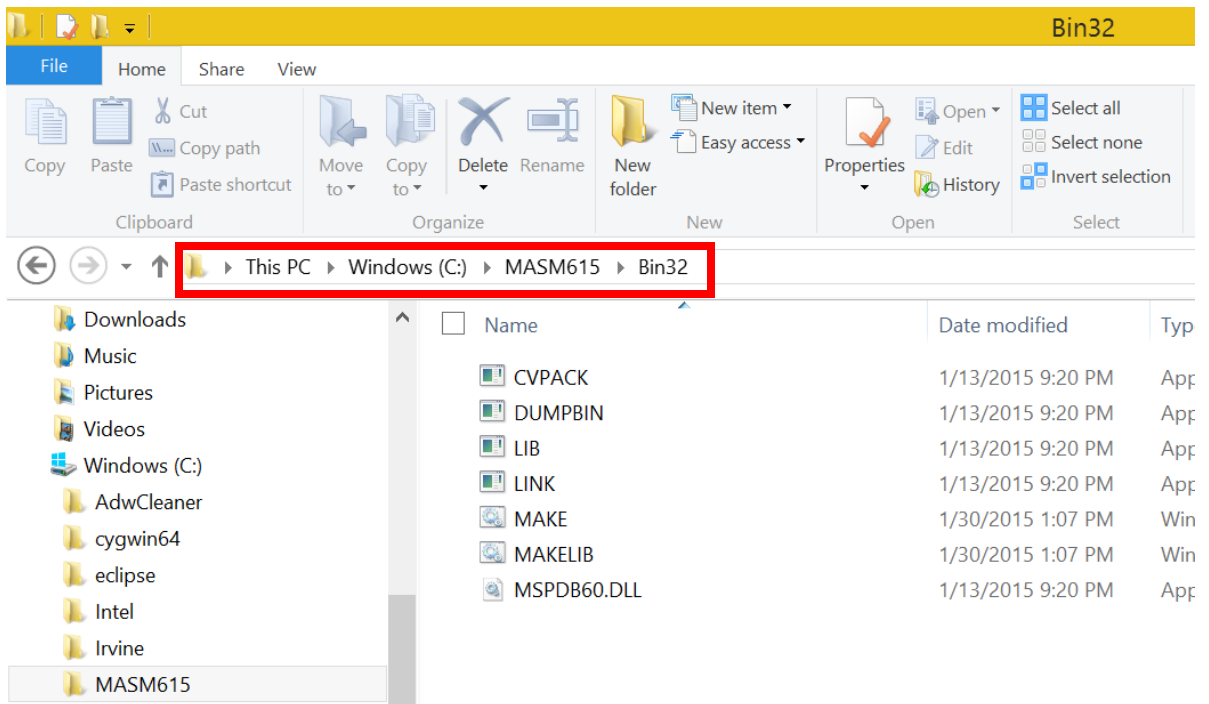
PART 1: Installing MASM 615

- 1) Download [MASM615.zip](#)
- 2) Unzip **MASM615.zip**
- 3) Move the inner **MASM615** folder into: C:\



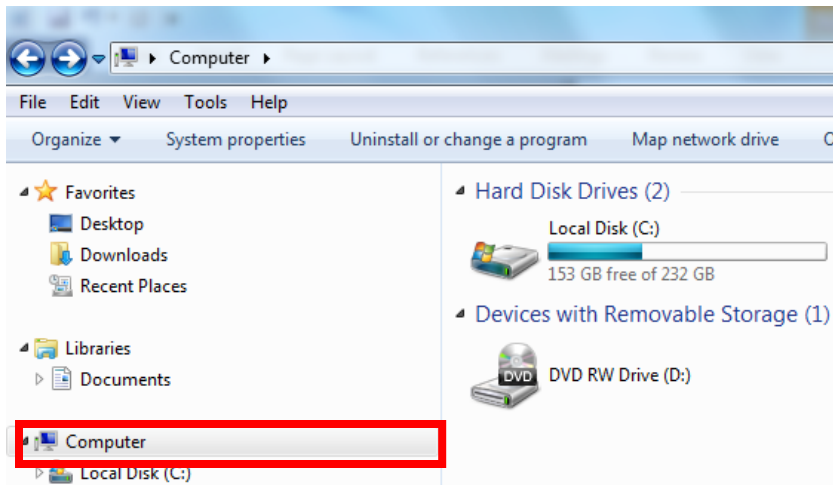


Verify that the MASM615 was installed correctly by trying to go to the following path: C:\MASM615\Bin32

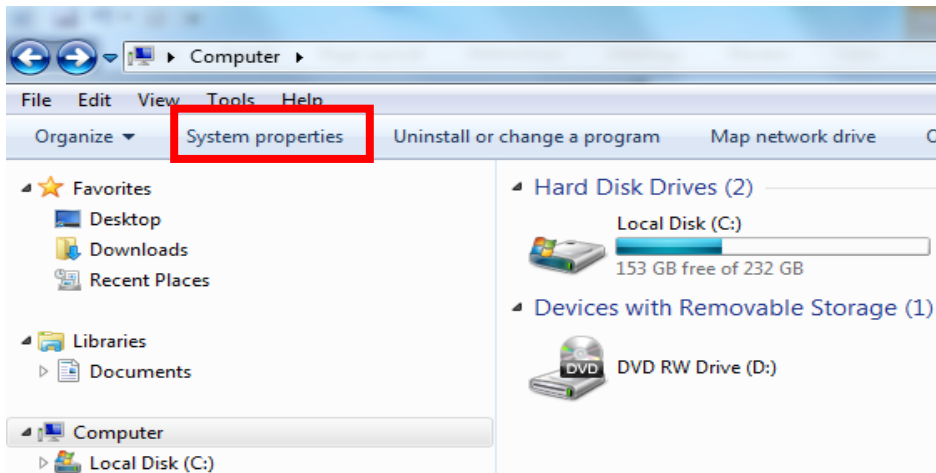


PART 2: Updating the system Path environment variable

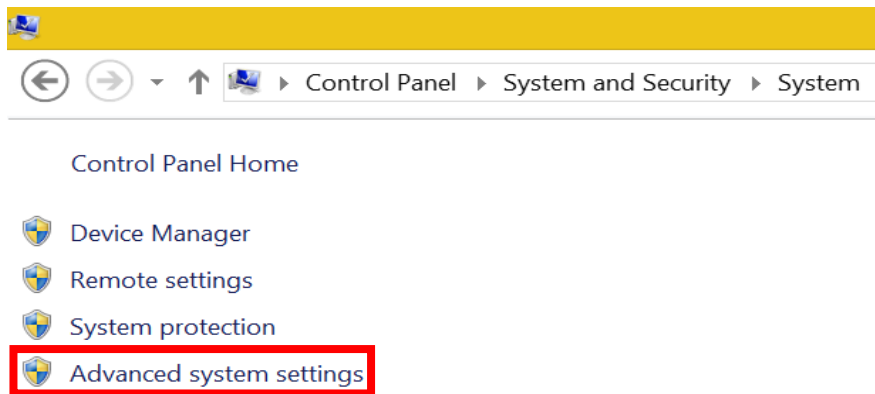
1) In Windows File Explorer, Click on Computer



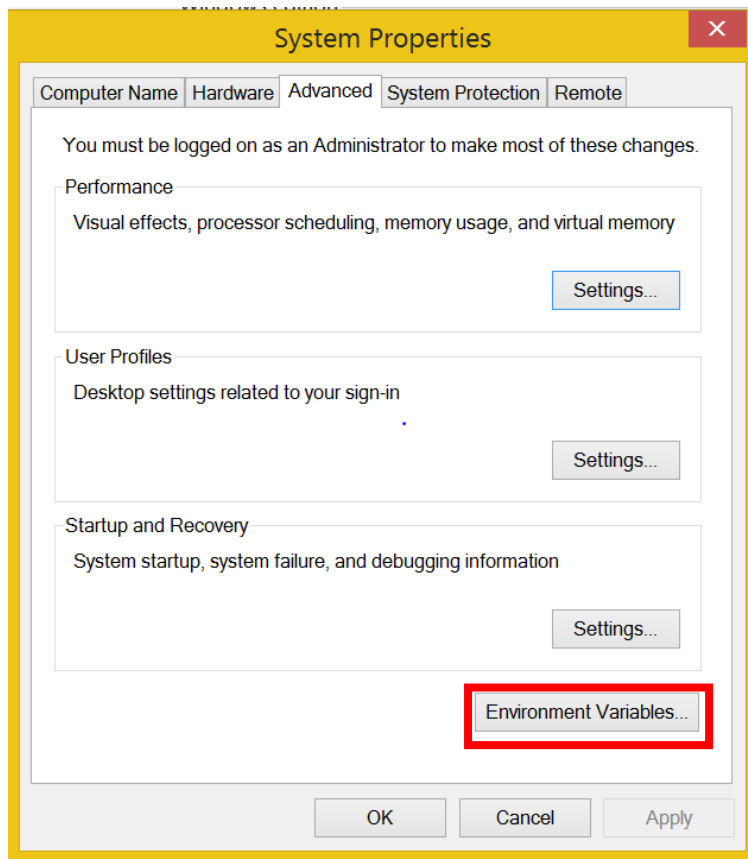
2) Next select System Properties



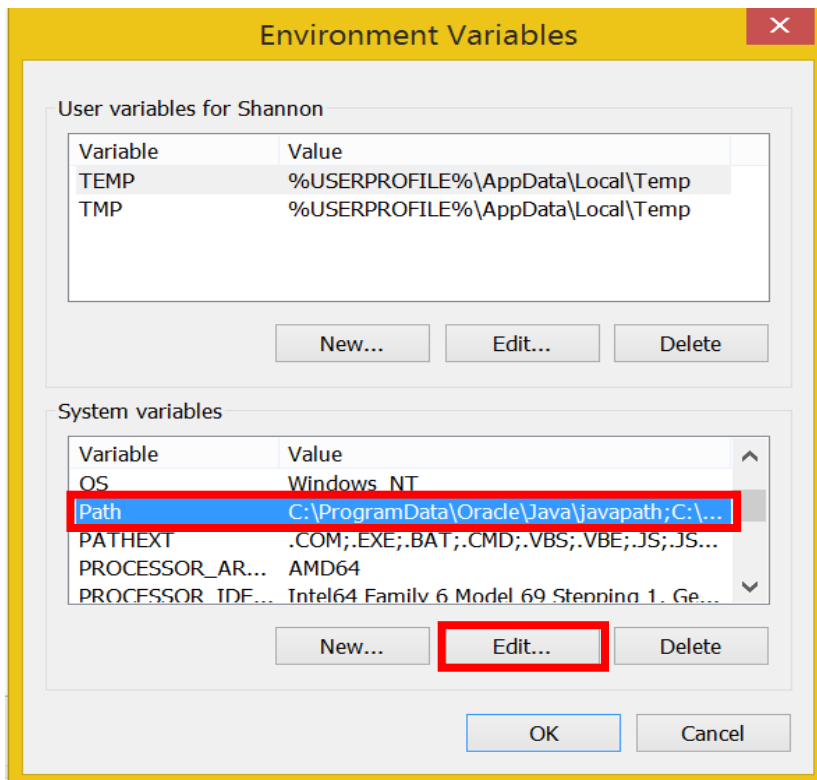
3) Select Advanced System Settings



4) Select Environment Variables

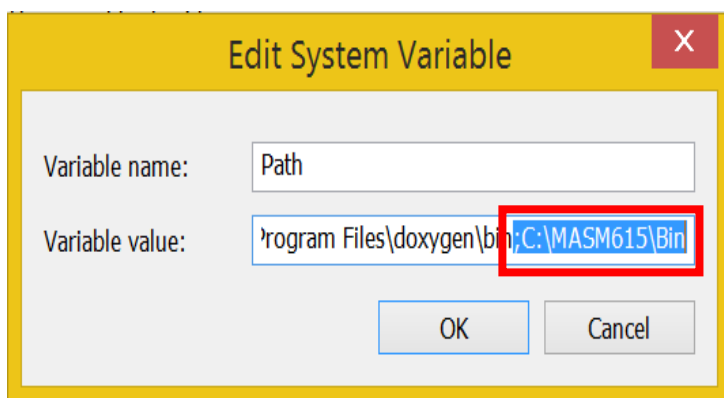


- 5) Scroll down to find and select the Path variable & click Edit



- 6) **WARNING!!! DELETION OF ANTHING IN THIS BOX MAY CAUSE PREVIOUSLY INSTALLED SOFTWARE NOT TO WORK.**

Add the following text to the end of the Variable Value field: ;C:\MASM615\Bin



- 7) Click OK.

3B Software Configuration

The software configuration process guides you through the process in configuring:

- **Part 1:** Creating Tool connections between MASM615 & the Windows Debugger with Textpad
- **Part 2:** Installing ASM text formatting/highlighting in TextPad

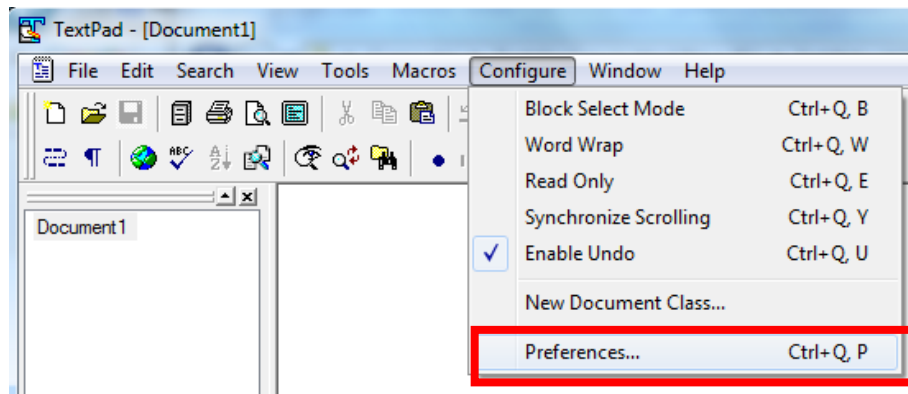
Part 1: Creating Tool Connections Between MASM615/Windows Debugger/TextPad

During this process, you will be creating tools in TextPad to do the following for assembly programs:

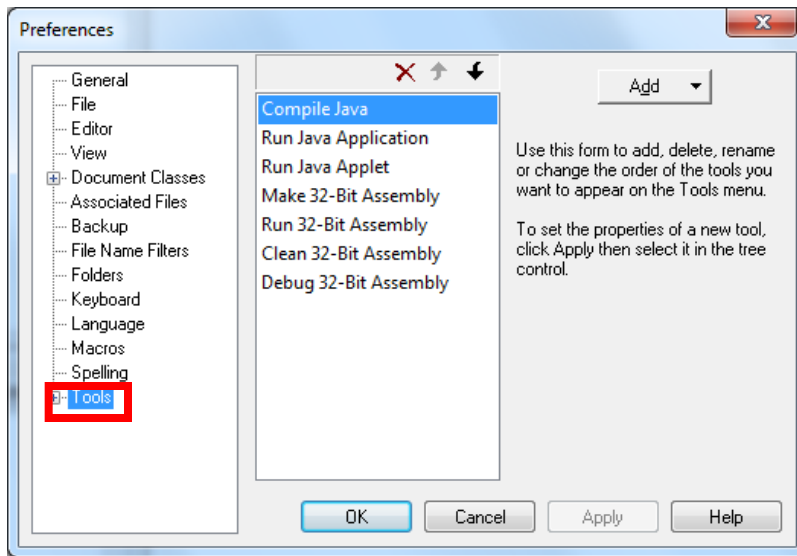
- Compile(Make 32-bit Assembly)
- Run(Run 32-bit Assembly)
- Clean (Clean 32-bit Assembly)
- Debug (Debug 32-bit Assembly)

To create a tool in TextPad:

1. Configure Menu-> Select Preferences

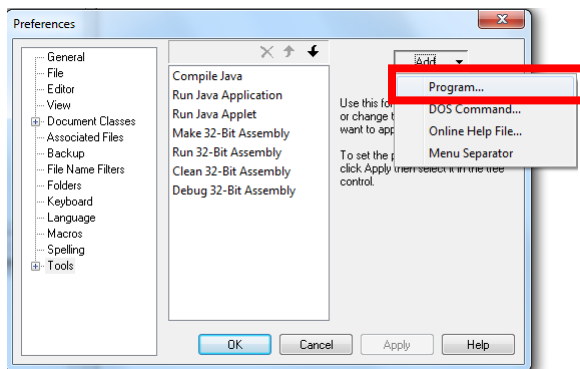


2. Select Tools



3. Tool Name: Make 32-bit Assembly

Select Add->Program



Navigate to C:\MASM615\Bin32\MAKE.BAT

Tool Name: Make 32-bit Assembly

Command: C:\MASM615\Bin32\MAKE.BAT

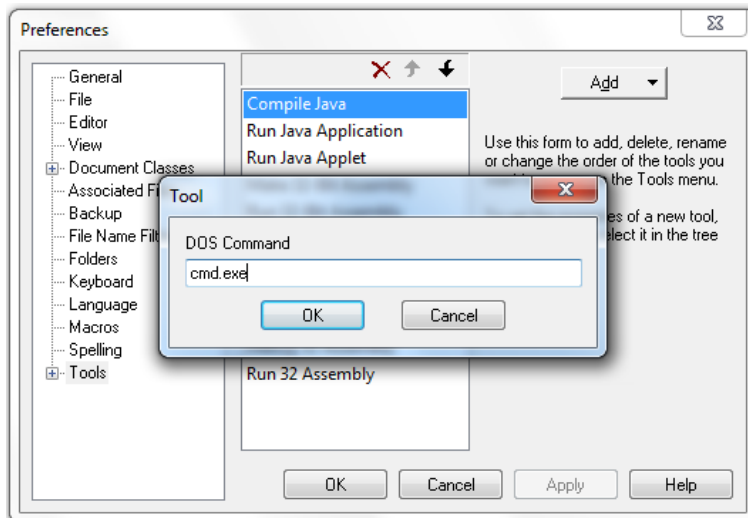
Parameters: \$WspDir\WspBaseName.MAK ALL

Initial Folder: \$WspDir

Selected Options: Capture Output, Sound alert when completed

4. **Tool Name:** Run 32-bit Assembly

Add->DOS Command



Command: cmd.exe

Parameters: "\$WspDir\WspBaseName.exe"

Initial Folder: \$WspDir

Selected Options: No options selected

5. **Tool Name:** Debug 32-bit Assembly

Command: C:\Program Files (x86)\Debugging Tools for Windows\windbg.exe

Parameters: -i \$WspDir -y \$WspDir -srcpath \$WspDir \$WspDir\WspBaseName.exe

Initial Folder: \$WspDir

Selected Options: No options selected