Setting up a development environment for arm on Windows

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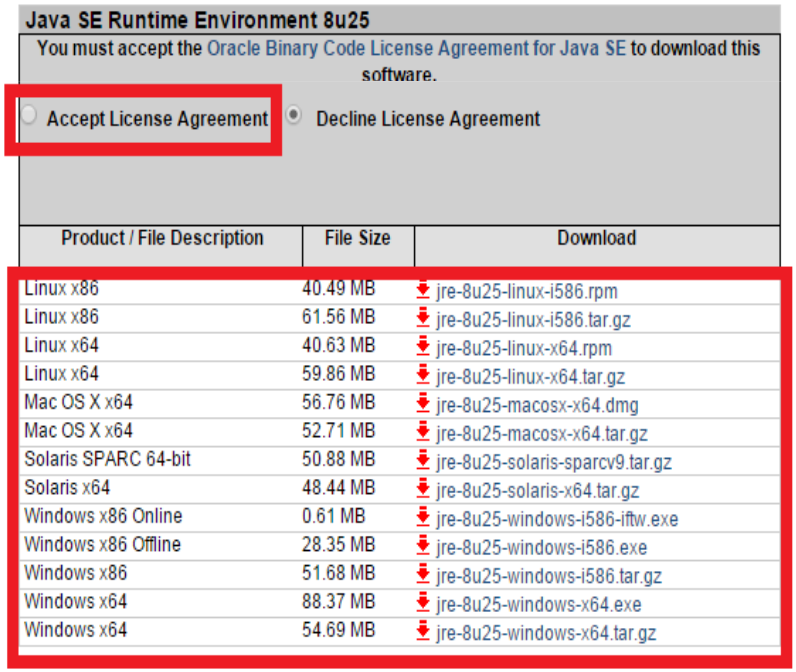
Contents

Installation

> JRE : http://www.oracle.com/technetwork/java/javase/downloads/index.html

1. Click ‘JRE’
2. Choose ‘Accept License Agreement’
3. Click ‘jre-8u25..’



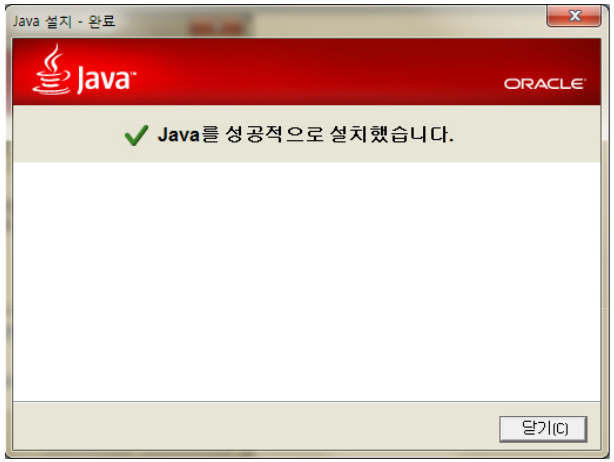
Installation

> JRE

4. Installation

1)

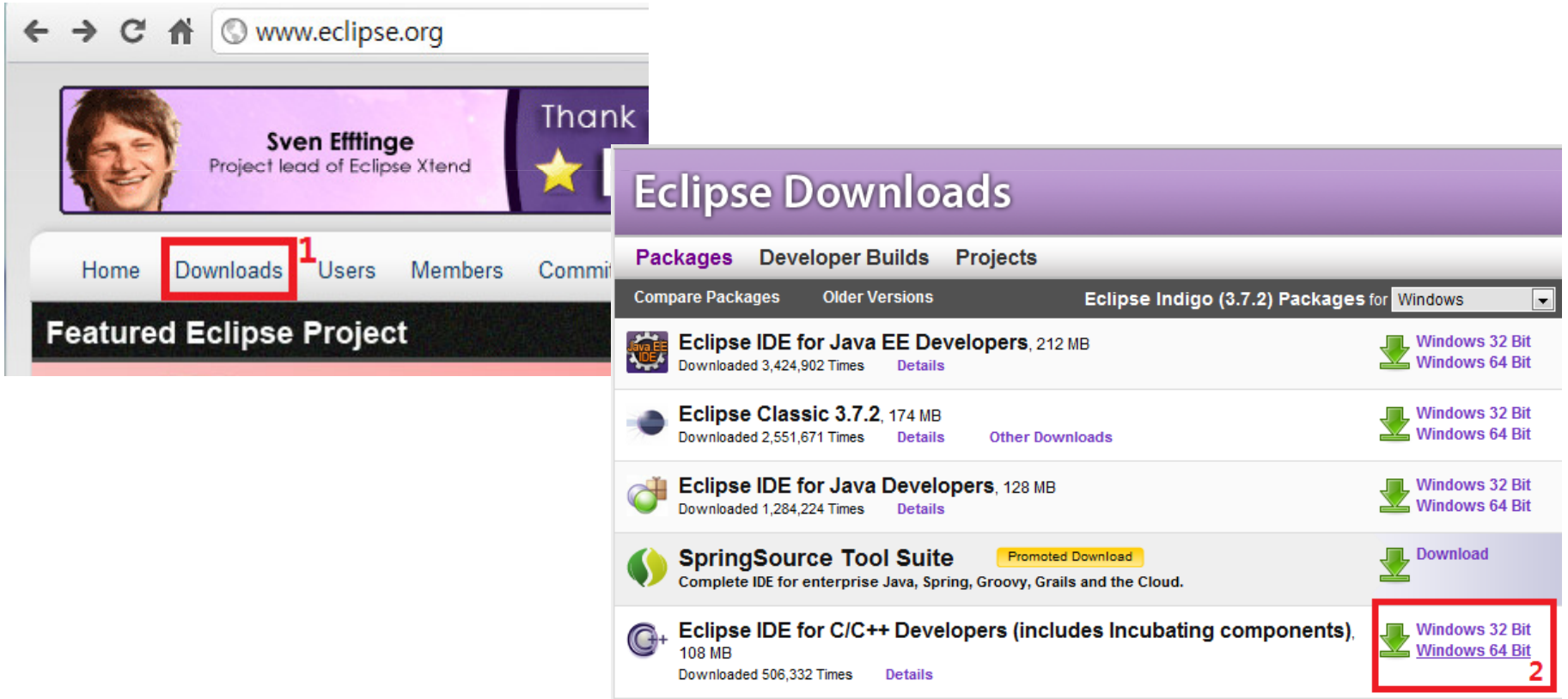
2)



Installation

> Eclipse CDT : http://www.eclipse.org

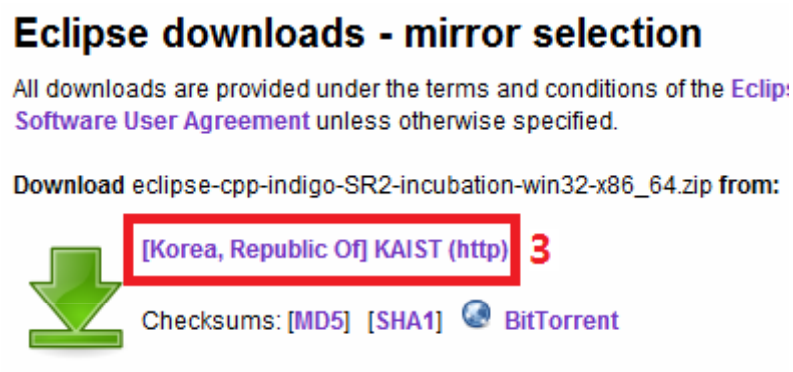
1. Click ‘Downloads’
2. Click ‘Windows 32Bit or Windows 64bit’



Installation

> Eclipse CDT

3. Click ‘[Korea, Republic Of] KAIST(http)”

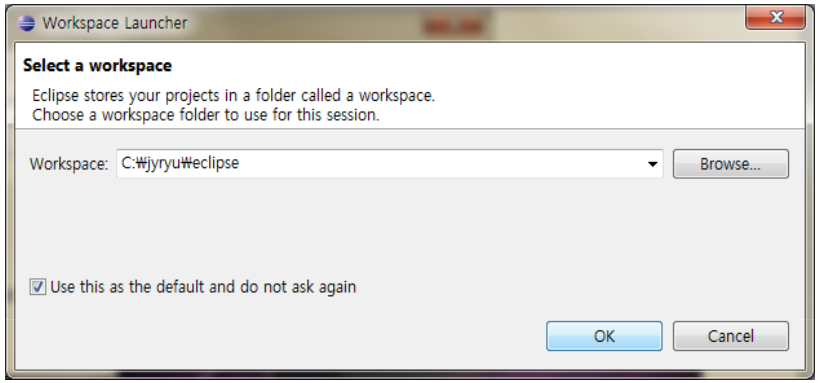


Installation

> Eclipse CDT

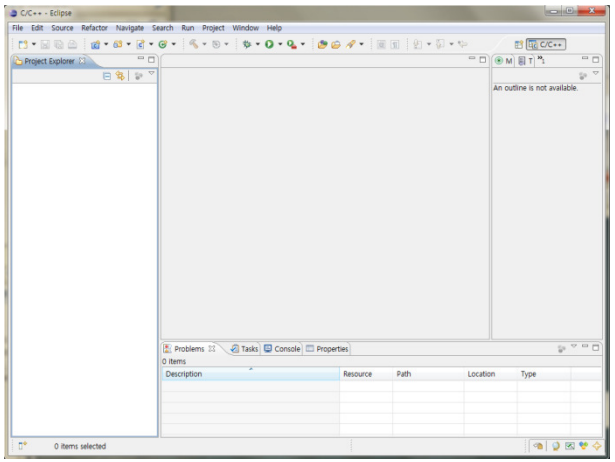
4. Installation

1)



2)

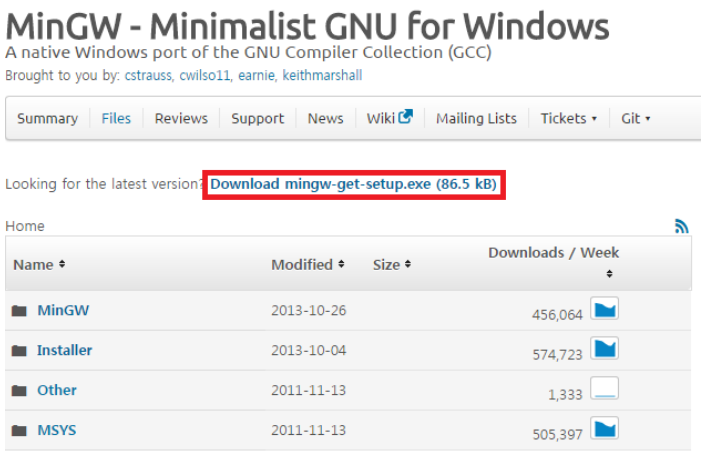
3)

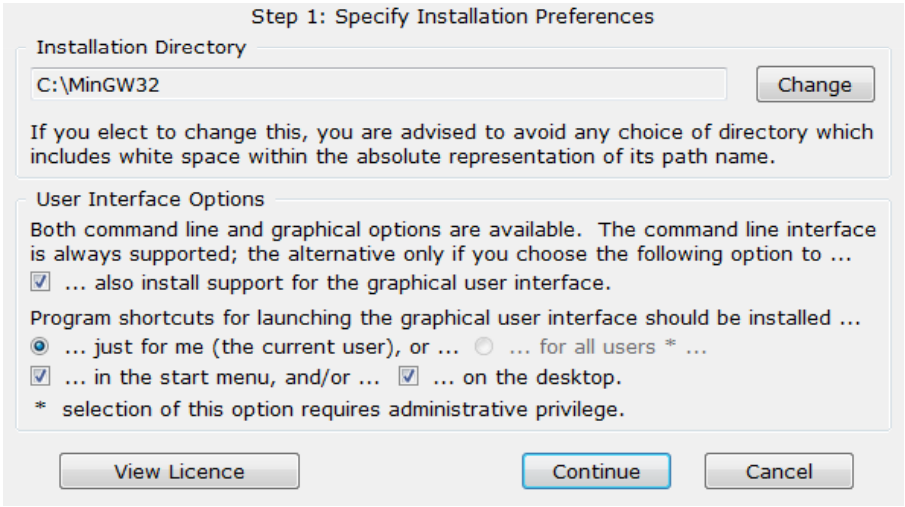


Installation

> MinGW32 : http://sourceforge.net/projects/mingw/files/

1. Click ‘Download mingw-get-setup.exe’
2. Set ‘Installation Directory’ (Use the C:\MinGW32)
3. Click ‘Continue’

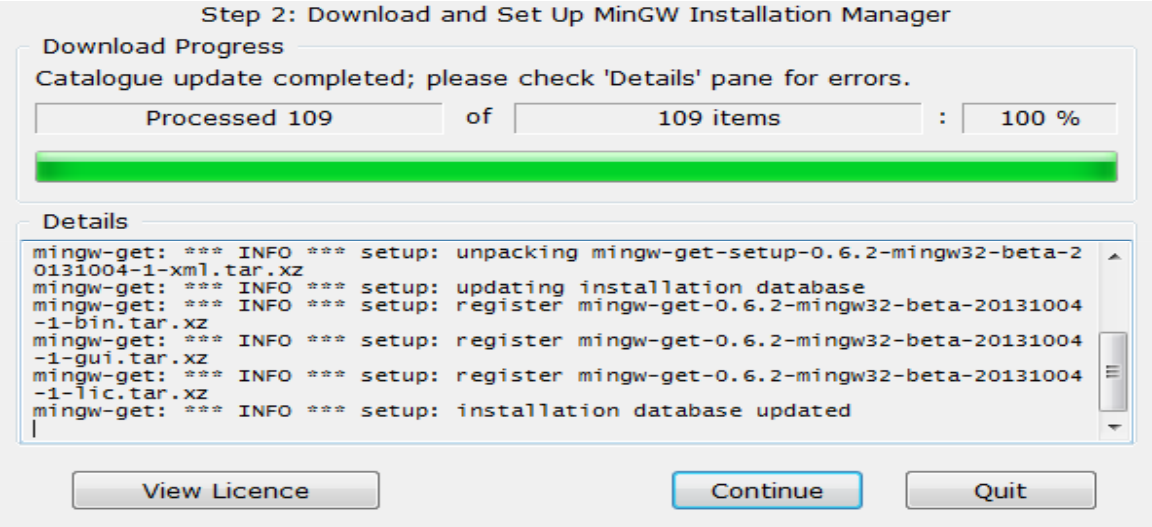




Installation

> MinGW32

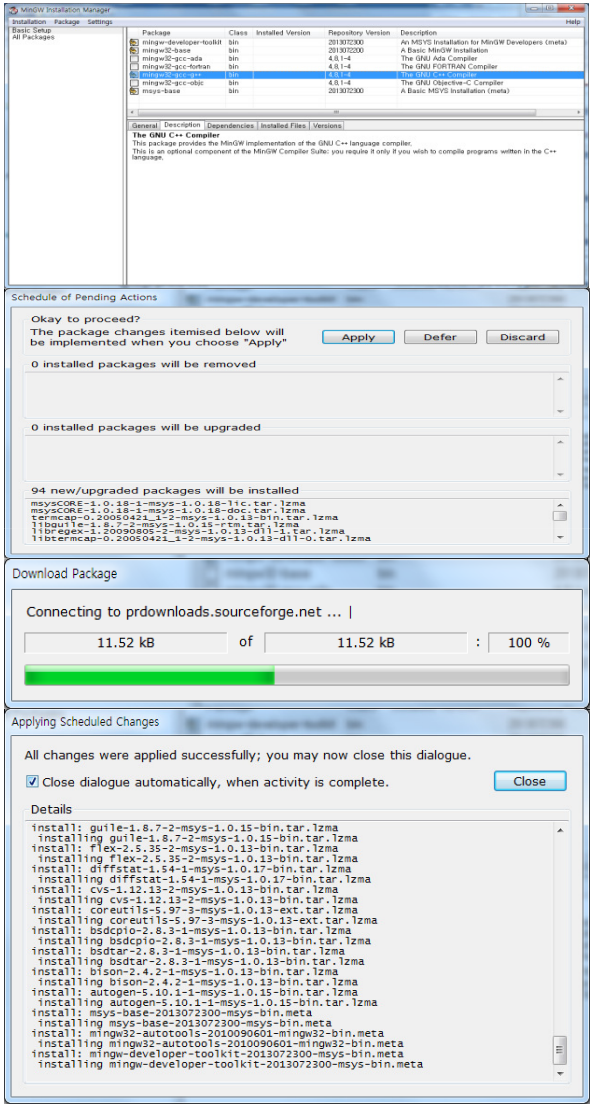
4. Click ‘Continue’



Installation

> MinGW32

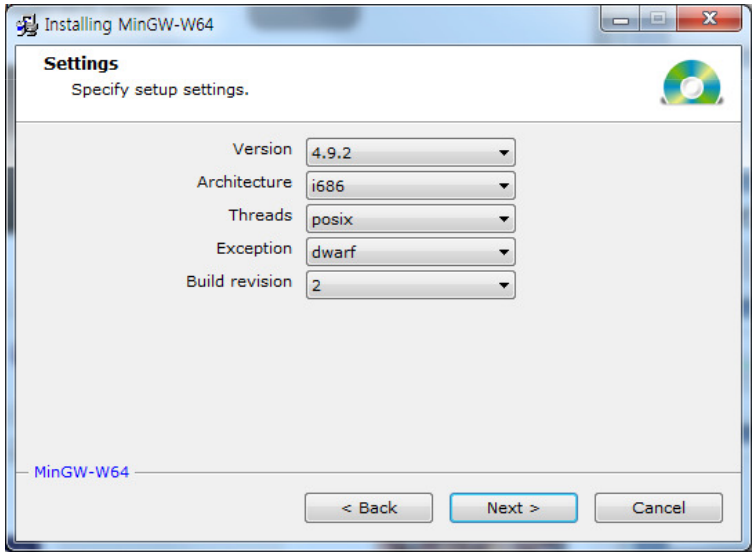
5. Choose ‘mingw-developer-toolkit’
6. Choose ‘mingw32-base’
7. Choose ‘mingw32-gcc-g++’
8. Choose ‘msys-base’
9. Click ‘Installation’
10. Click ‘Apply Changes’
11. Click ‘Apply’
12. Click ‘Close’



Installation

> MinGW64 : http://sourceforge.net/projects/mingw-w64/

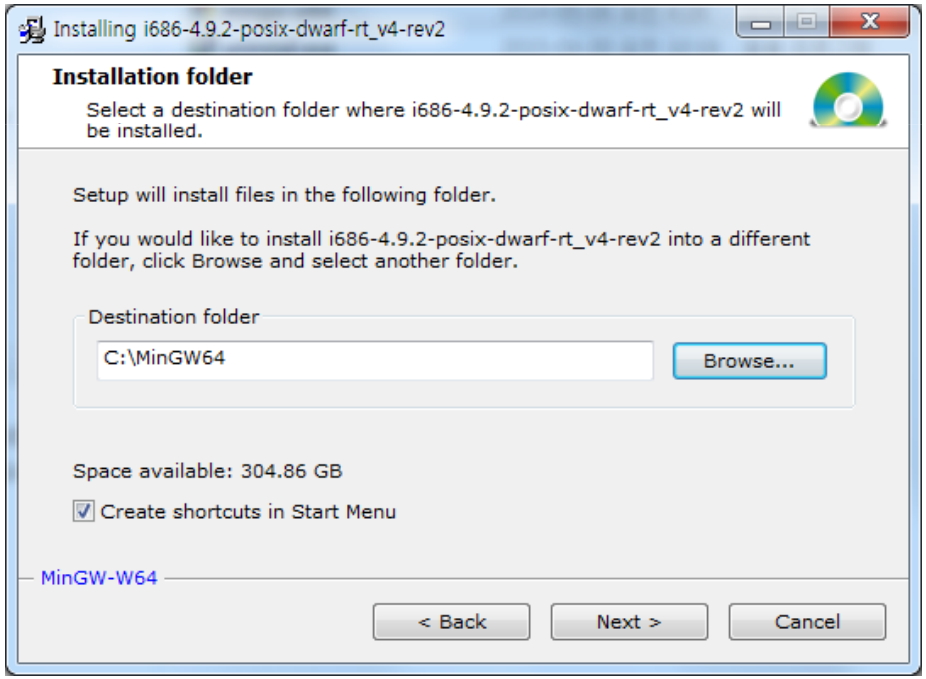
1. Click ‘Download’
2. Click ‘Next >’
3. Click ‘Next >’



Installation

> MinGW64

4. Set ‘Destination folder’(Use the C:\MinGW64)
5. Click ‘Next>’
6. Done



Installation

> After Installing Mingw32&64 You Should

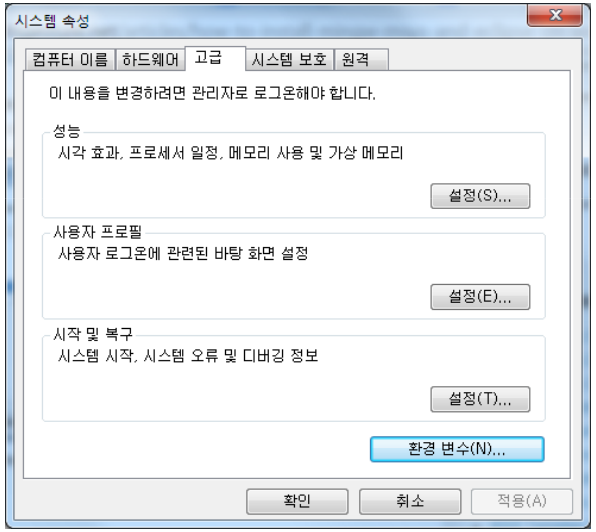
1. Open ‘C:\MinGW32\msys\1.0\etc’
2. Find ‘fstab.sample’
3. Copy ‘fstab.sample’to ‘fstab’
4. Open ‘fstab’

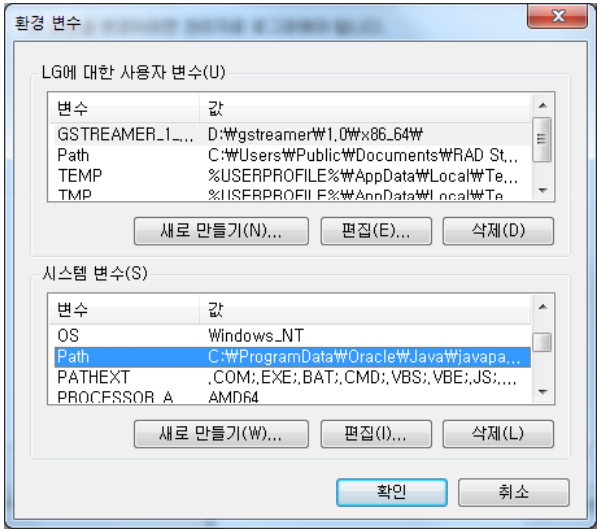
   (Using a text editor. Right-click-> Open With-> Notepad or equivalents)
5. Find ‘C:\MinGW /mingw’
6. Modify ‘C:\MinGW64\mingw32 /mingw’

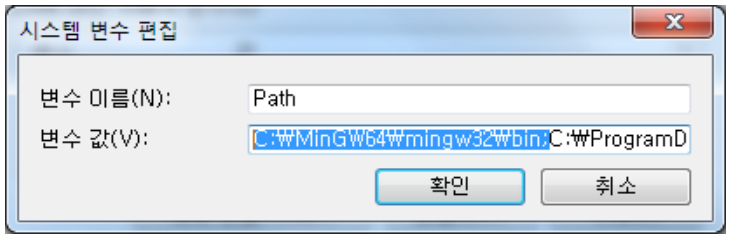
Installation

> After Installing Mingw32&64 You Should

7. Add ‘C:\MinGW64\mingw32\bin;C:\MinGW32\msys\1.0\bin;C:\CrossGcc_4.9.x\bin’ at the front of your SYSTEM PATH variables(at the beginning)







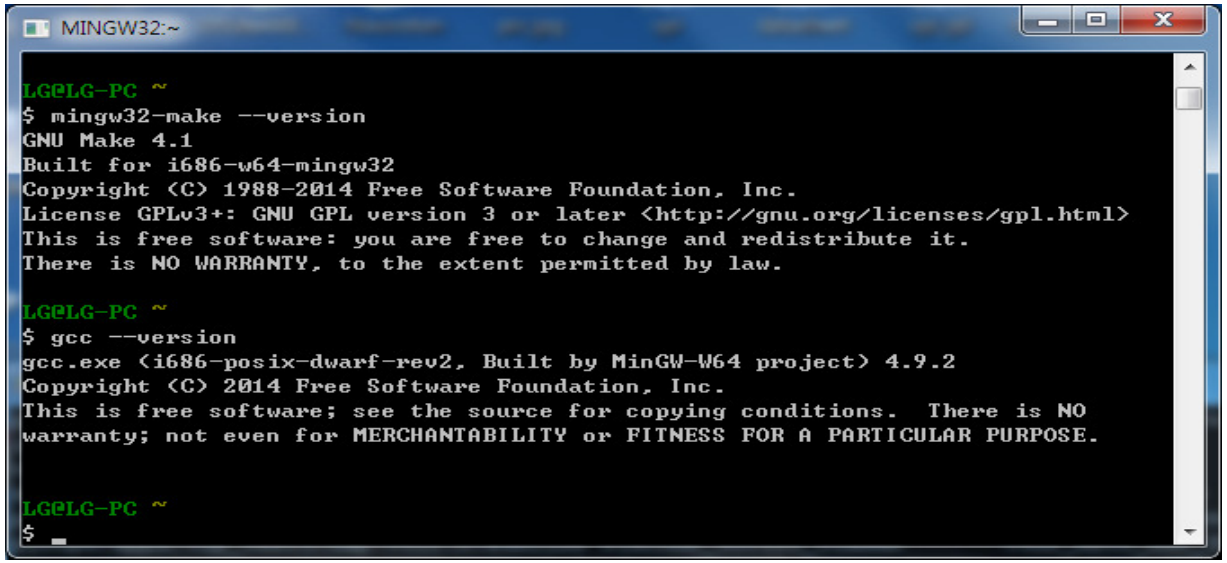
Installation

> Testing MinGW/MSYS installation

1. Open ‘C:\MinGW32\msys\1.0
2. Excute ‘msys.bat’
3. Run the following commands

   mingw32-make --version

   gcc --version



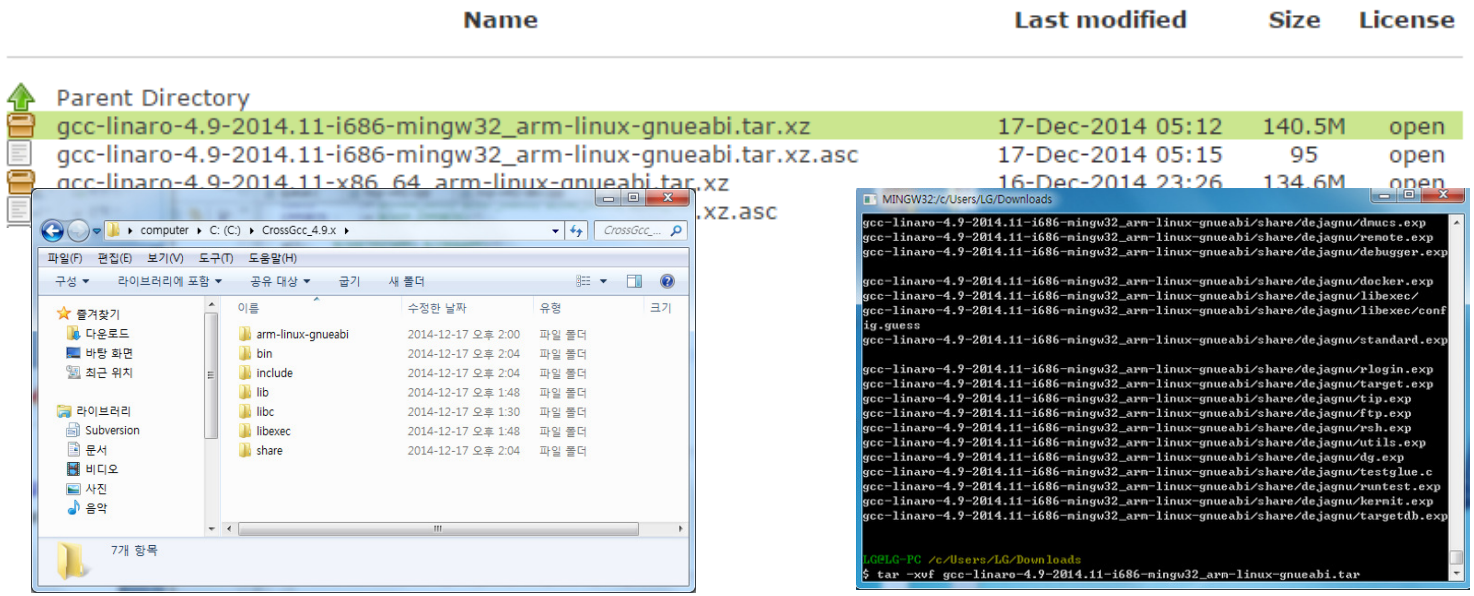
Download

> Linaro Toolchain :

http://releases.linaro.org/14.11/components/toolchain/binaries/arm-linux-gnueabi

1. Choose ‘gcc-linaro-4.9-2014.11-i686-mingw32_arm-linux-gnueabi.tar.xz’
2. Create Folder ‘C:/CrossGcc_4.9.x’
3. Untar the ‘gcc-linaro…tar.xz’ to ‘C:/CrossGcc_4.9.x’

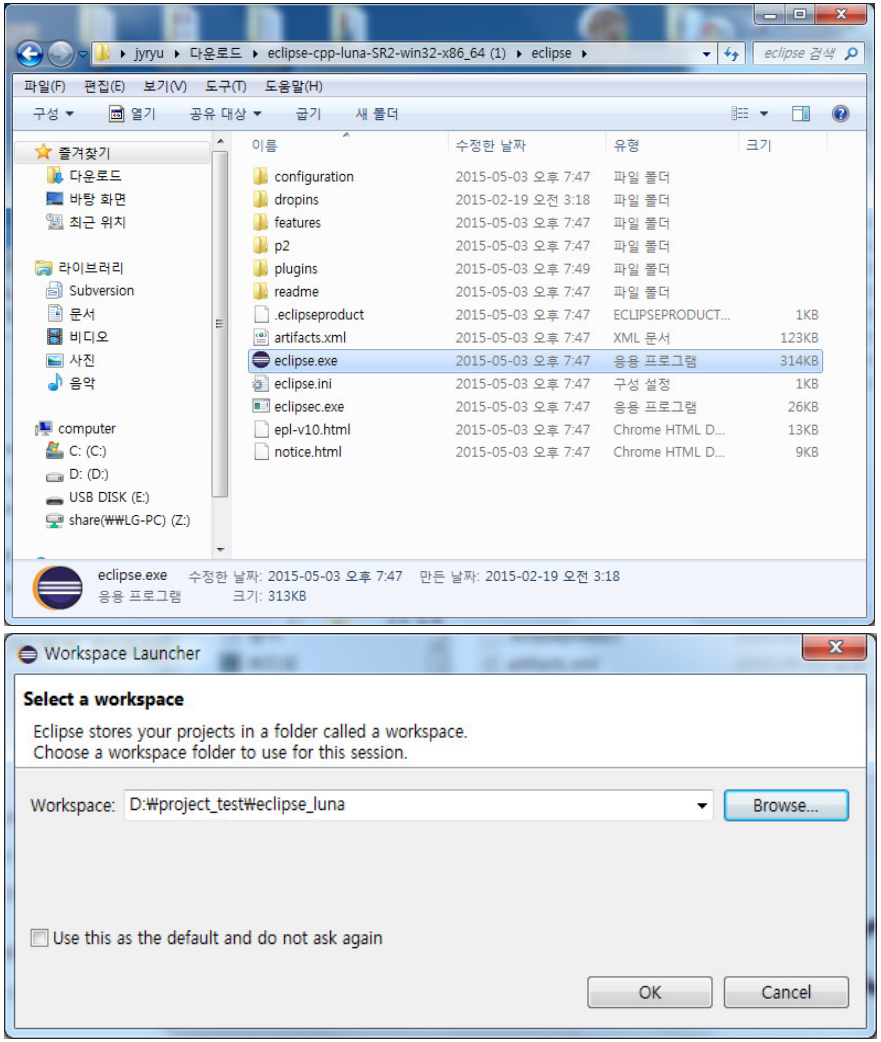
   or Execute ‘msys.bat’ -> tar –xvf gcc-linaro…tar.xz’



Setting up Eclipse IDE

> Launch Eclipse

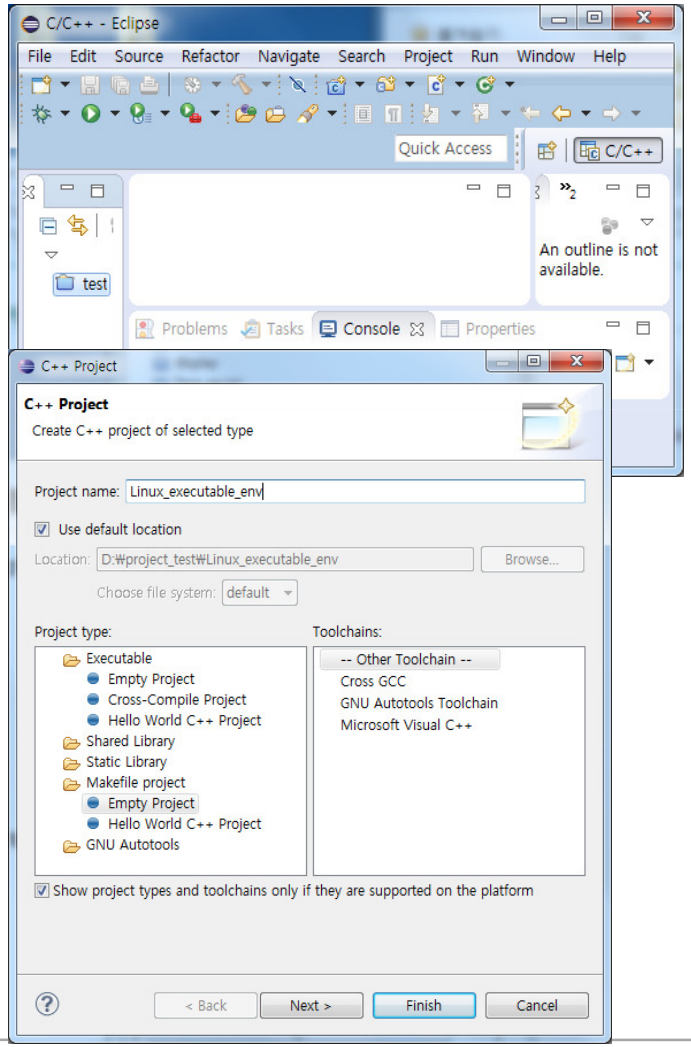
1. Execute ‘eclipse.exe’
2. Choose ‘Workspace’
3. Click ‘OK’



Setting up Eclipse IDE

> Create a new C++ Project

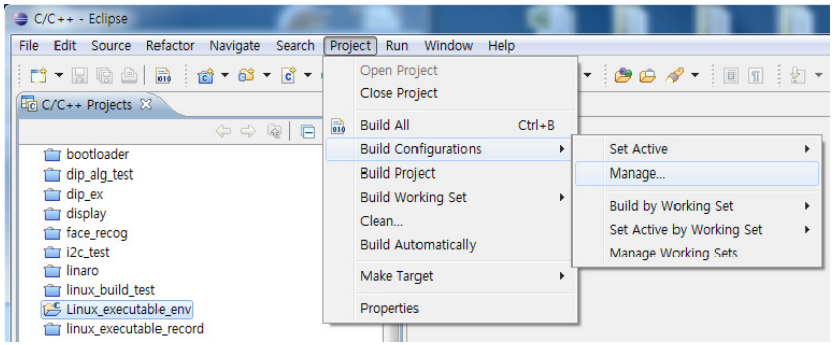
1. Click ‘File’
2. Choose ‘New’
3. Choose ‘C++ Project’
4. Set ‘Project name’
5. Choose ‘Location’
6. Choose ‘Project type’
   : Makefile project->Empty Project
7. Choose ‘Toolchains’
   : -- Other Toolchain –
8. Click ‘Finish’

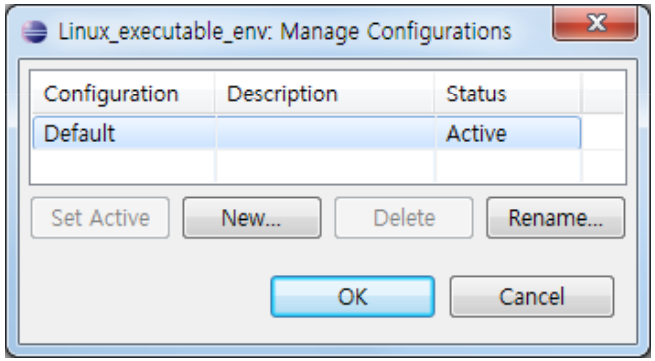


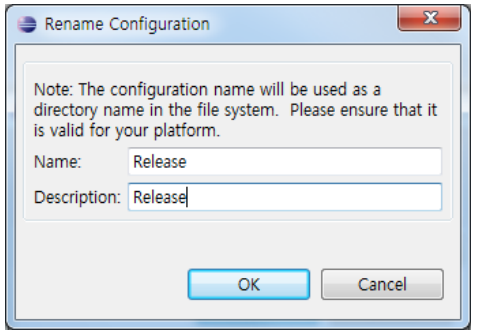
Setting up Eclipse IDE

> Change Build Configuration

1. Click ‘Project’
2. Choose ‘Build Configurations’
3. Choose ‘Manage’
4. Click ‘Rename’
5. Set Name ‘Release’
6. Set Description ‘Release’
7. Click ‘OK’







Setting up Eclipse IDE

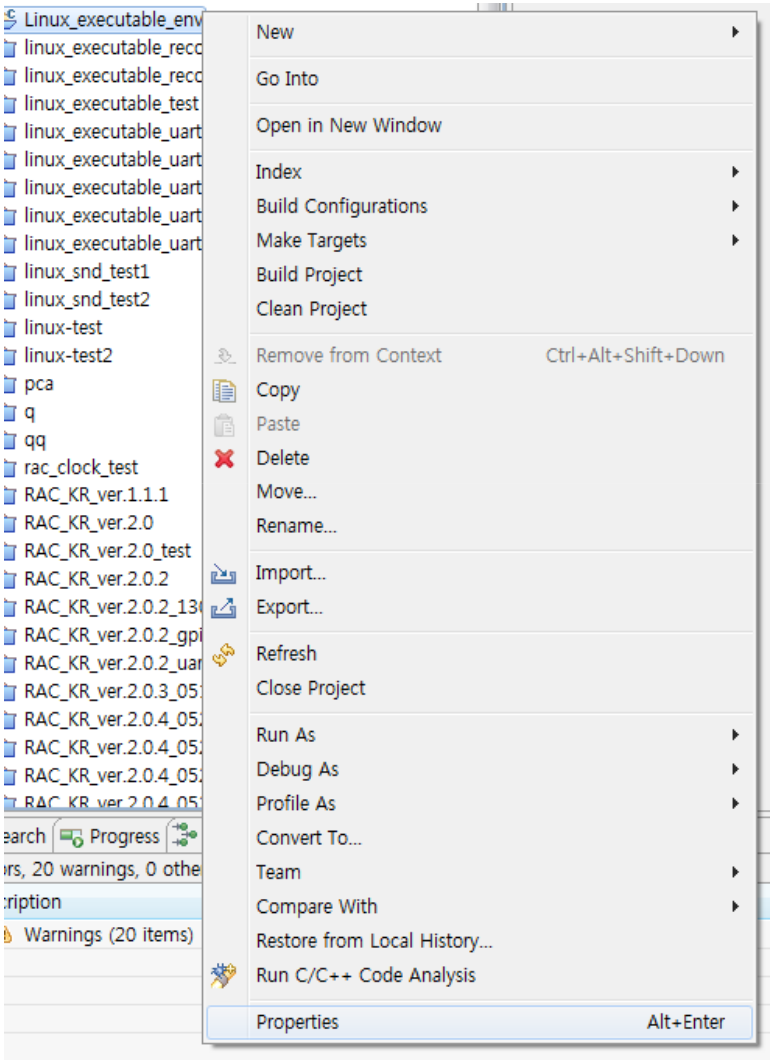
> Copy Project

1. Provided Project : ‘Linux_executable_env’
2. Open ‘Location Directory’(p17. ‘5. Location’)
3. Open ‘Linux_executable_env’
4. Copy ‘Linux_executable_env/*’ to ‘Location/’

Setting up Eclipse IDE

> Change Include Path

1. Right Click ‘Your Project Name’
2. Choose ‘Properties’



Setting up Eclipse IDE

> Change Include Path

3. Choose ‘C/C++ General/Paths and Symbols’
4. Click ‘GNU C’
5. Click ‘Linux_executable_env’
6. Click ‘Edit’
7. Set ‘Directory’ (p17. ‘5. Location’)
8. Change All ‘Linux_executable_env’

   ex) Location is C:/Test

   /Linux_executable_env/pyrope/library/include

   =>/Test/pyrope/library/include
9. Click ‘GNU C++’
10. Repeat Step ‘5~8’