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How to use the makefile with windows7

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- author : IOP Team
- version : V1.0.0
- date : 1-May-2015
- brief : Description use a makefile with windows7.
- develop environment : Windows 7 32/64bits
- arm-gcc version : gcc-arm-none-eabi-4_9-2015q1-20150306-win32

Step1 gunwin32 Installation

❖ **For reference, gunwin32 operate both windows7 32bit and 64bit**

1. Enter a **gnuwin32** in web search engine or visit the <http://gnuwin32.sourceforge.net/>



2. Click the packages in left category.

GnuWin

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GnuWin provides ports of tools with a [GNU](#) or similar open source [license](#), to modern MS-Windows (Microsoft Windows 2000 / XP).

News / Announcements

- 27 December 2010: [Sed](#)-4.2.1: stream editor: new release
- 5 June 2010: [M4](#)-1.4.14: macro processor: new release
- 11 February: [DeHtml](#)-1.5: new package
- 1 January 2010: Starting with 2010, patches for making programs run on MS-Windows 9x (95 / 98 / ME) and NT will not be up existing packages may still run on 9x and NT, but no new changes will be made. If a package does not run on 9x or NT, use at
- 7 June 2009: [LibPng](#)-1.2.37: library and tools for PNG images: new release
- 7 June 2009: [Sed](#)-4.2: stream editor: fix for bugs

[News archive](#)

Google

Web GnuWin

3.Find the **Make** file using scroll and click, Click the **Setup program** in Download.

LibUnGif	4.1.4	library and tools for uncompressed GIF images	Setup
LibWmf	0.2.8.3	library and tools for Windows Metafile images	Setup
LibXmi	1.2	2D rasterization library	Setup
LibXml	2.6.28	parser library for XML	Files
M4	1.4.14	macro processor	Setup
Make	3.81	GNU make utility to maintain groups of programs	Setup
Mawk	1.3.3	pattern scanning and text processing language	Setup
MiniSed	1.12	stream editor	
MiscFiles	1.4.2	collection of files	
MkTemp	1.6	return temporary file name	

Homepage


<http://www.gnu.org/software/make>

Download

2 Click!!!

If you download the [Setup program](#) of the package, any requirements for running applications, such as dynamic link libraries (DLL's) for then you must download and install the [dependencies zip file](#) yourself. Developer files (header files and libraries) from other packages packages.

4.When download time left as '0', you get the **setup file**.



GnuWin

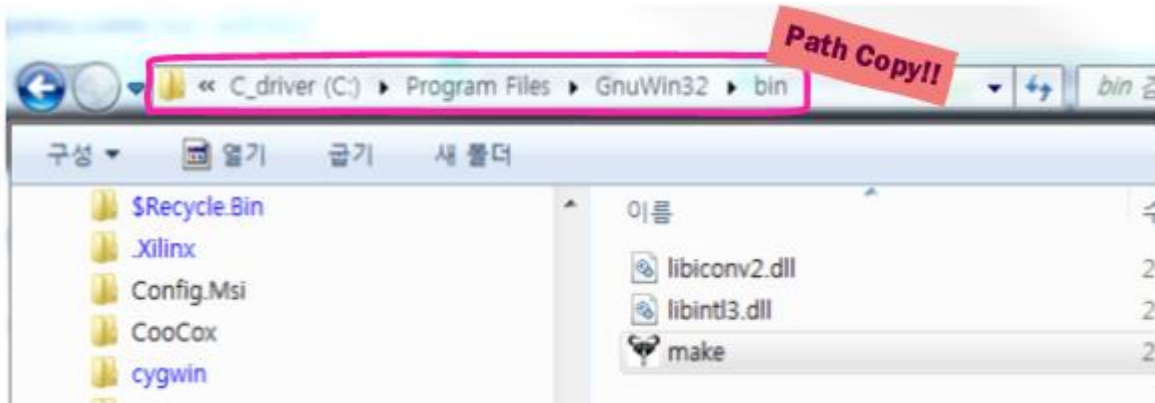
Your download will start in 0 seconds...

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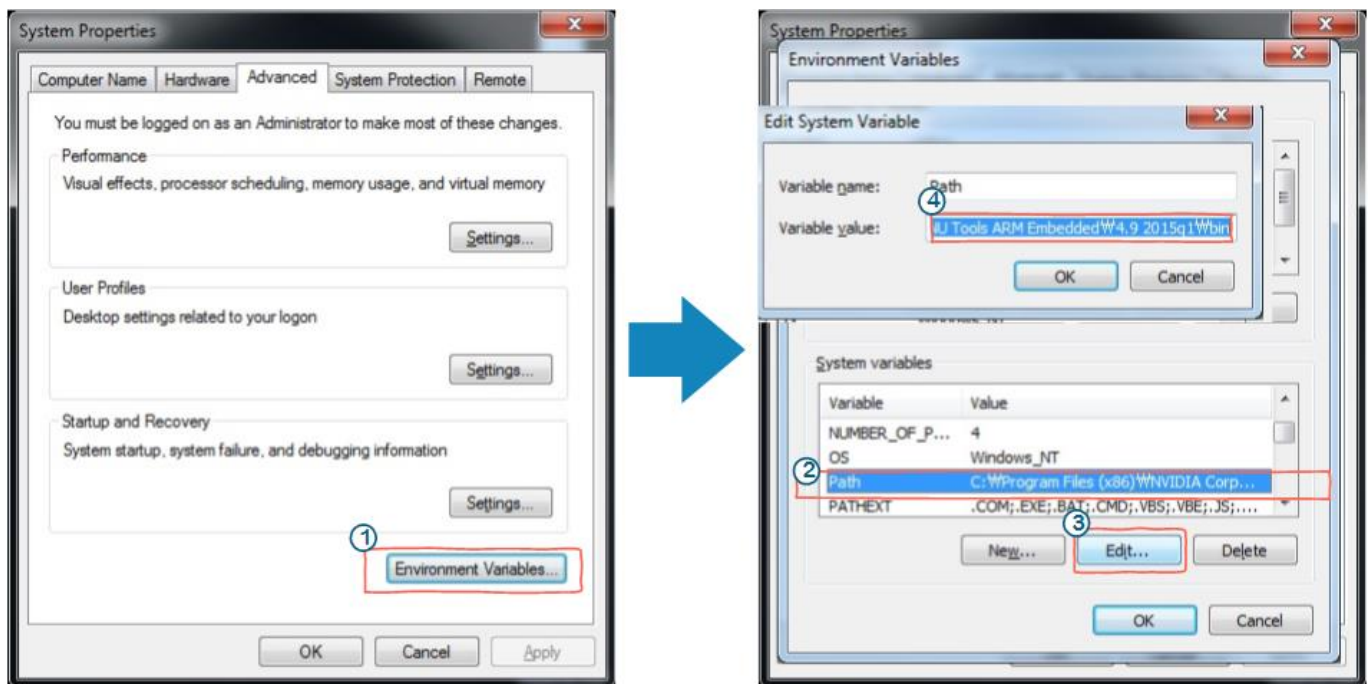
5.Finish the setup,copy the program setup path(you reach until **make.exe**)



6.In my case,the setup path is **C:\Program Files\GnuWin32\bin**



7. **Computer > click the right of mouse > properties > Advanced > Environment Variables > System variables > Edit > ** variable value** Copy and Paste.**



Step2 arm gcc Installation

1. You can download the setup file from the "<https://launchpad.net/gcc-arm-embedded/+download>" (main post of **2015.04.16**)

← → ↻ <https://launchpad.net/gcc-arm-embedded/+download> ☆

ioWIZ | ioWIZ, IoT, ... | lanidress > Self We... | 네이버 트렌드 리포터 | 컴파운드버튼 : 지식... | 네이버 tvcast | 바비헤어

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1 → 10 of 12 releases First • Previous • Next • Last

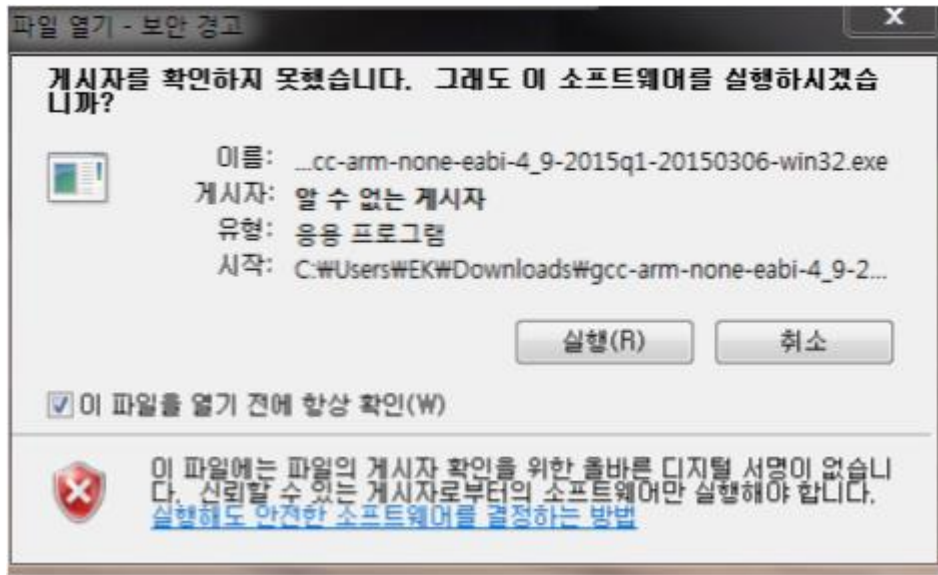
[4.9-2015-q1-update release](#) from the 4.9 series released 2015-03-20

▷ [Release information](#)

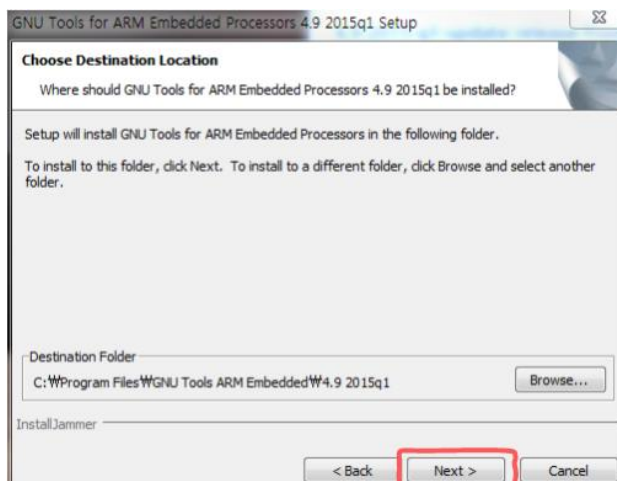
File	Description	Downloads
release.txt (md5)	Release notes	1,328 last downloaded today
gcc-arm-none-eabi-4_9-2015q1-20150306-win32.exe (md5)	Windows installer	58,699 last downloaded today
gcc-arm-none-eabi-4_9-2015q1-20150306-win32.zip (md5)	Windows zip package	19,237 last downloaded today
gcc-arm-none-eabi-4_9-2015q1-20150306-linux.tar.bz2 (md5)	Linux installation tarball	21,544 last downloaded today
gcc-arm-none-eabi-4_9-2015q1-20150306-mac.tar.bz2 (md5)	Mac installation tarball	2,404 last downloaded today
gcc-arm-none-eabi-4_9-2015q1-20150306-src.tar.bz2 (md5)	Source package	1,769 last downloaded today
How-to-build-toolchain.pdf (md5)	How to build	2,285 last downloaded today
readme.txt (md5)	README	1,726 last downloaded today
license.txt (md5)	Licenses	299 last downloaded today
Total downloads:		109,291

2.Download the [gcc-arm-none-eabi-4_9-2015q1-20150306-win32.exe](#) because I use the Windows7 32bit.

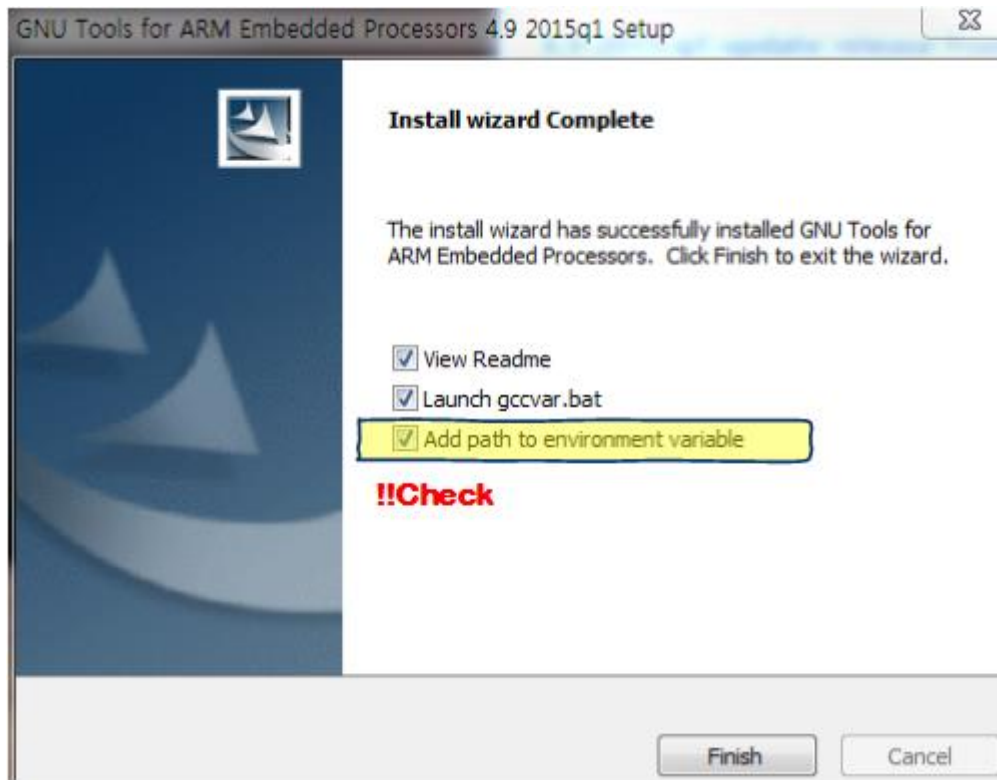
3.After choice the Language selection, click the 'OK'



4.The installation path setup and click the '**NEXT**', click the '**NEXT**' again.



5.Finally,Check the box "**Add path to environment variable**" and click the '**Finish**' (If you check the box, It will automatically set the environment variable.)

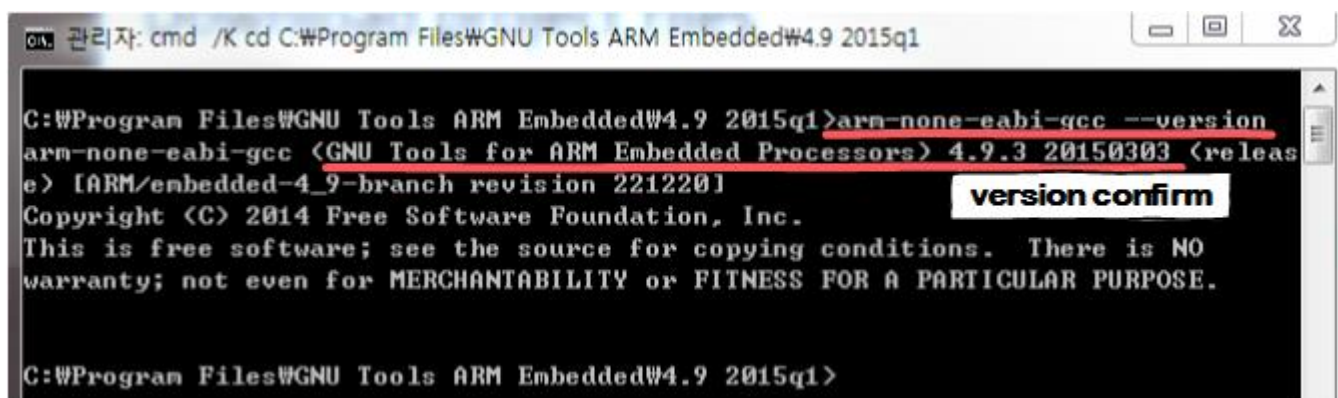


6.The command window will be opened,you can know the arm gcc setup path it.



7.Confirm the version of arm gcc using the command of below.

```
arm-none-eabi-gcc --version
```



Step3 execute the makefile

1.You set the path, you want to compile gcc compile. and enter the **make**

make

```

C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

I:\WYOB1\W7500\WORK\Software\W7500_FW\Projects\Peripheral_Examples\Uart\Printf\GCC>make

```

2.You can see the compile as below.

```

C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

I:\WYOB1\W7500\WORK\Software\W7500_FW\Projects\Peripheral_Examples\Uart\Printf\GCC>make
arm-none-eabi-gcc -g -O3 -mthumb -mcpu=cortex-m0w
    ../../../../../../Libraries/CMSIS/Device/WIZnet/W7500/Source/GCC/startup_W7500.S #
    ../../../../../../Libraries/CMSIS/Device/WIZnet/W7500/Source/system_W7500.c #
    -I ../../../../../../Libraries/CMSIS/Include -I ../../../../../../Libraries/CMSIS/Device/WIZnet/W7500/Include -I ../../../../../../Libraries/
W7500_stdPeriph_Driver/inc #
    -L ../../../../../../Libraries/CMSIS/Device/WIZnet/W7500/Source/GCC #
    -DCORTEX_M0 -DUSE_STDPERIPH_DRIVER -I ../../../../../../Libraries/CMSIS/Device/WIZnet/W7500/Source/GCC/gcc_W7500.ld -o main.o #
    # Generate disassembly code
arm-none-eabi-objdump -S main.o > main.lst
# Generate binary file
arm-none-eabi-objcopy -S main.o -O binary main.bin
# Generate hex file
arm-none-eabi-objcopy -S main.o -O verilog main.hex
I:\WYOB1\W7500\WORK\Software\W7500_FW\Projects\Peripheral_Examples\Uart\Printf\GCC>

```

3.If success, the files will create. The path of make file is a place the makefile.

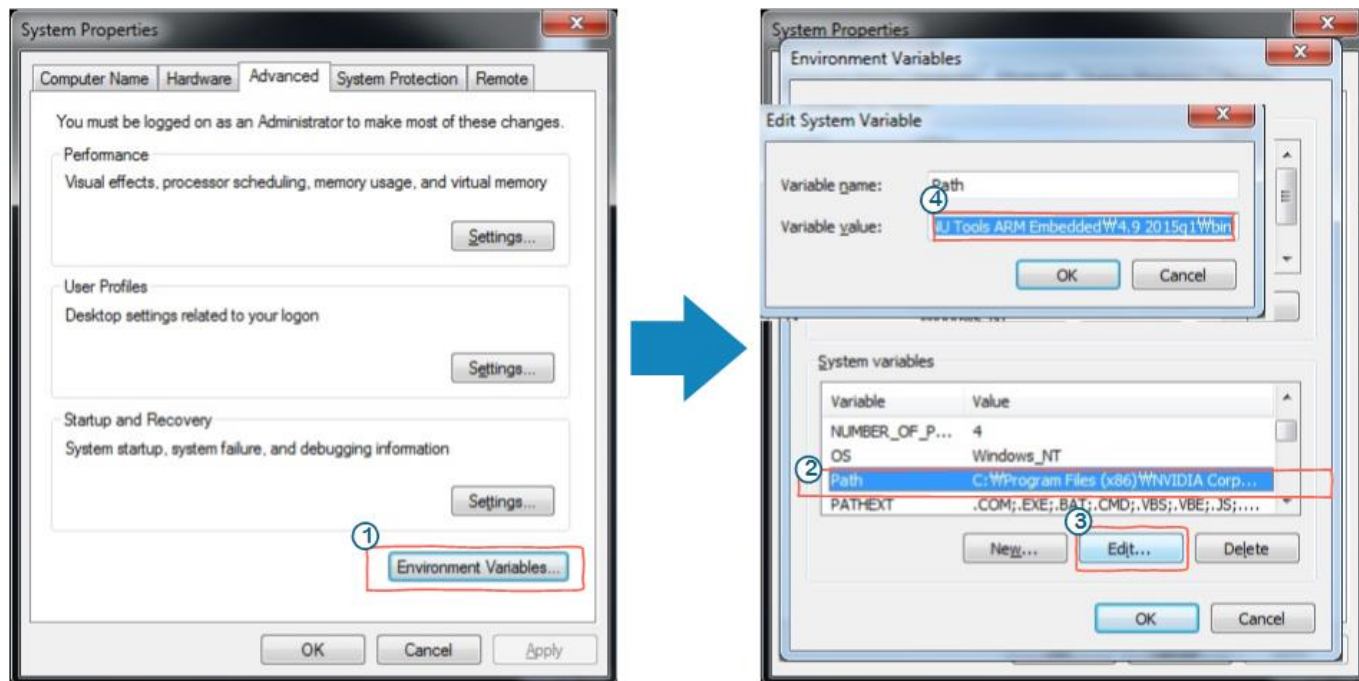
makefile		3,903	2015-04-16 17:08	-a--
main	bin	18,424	2015-04-16 21:04	-a--
main	hex	57,611	2015-04-16 21:04	-a--
main	lst	334,124	2015-04-16 21:04	-a--
main	o	99,858	2015-04-16 21:04	-a--

When compile error occur

If you can't compile or you don't create the files, you directly set the environment variable

Computer > click the right of mouse > properties > Advanced > Environment Variables > System variables > Edit > variable value Copy and Paste.

Copy path is **c:\Program Files\GNU Tools ARM Embedded\4.9 2015q1\bin** : setup path



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