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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

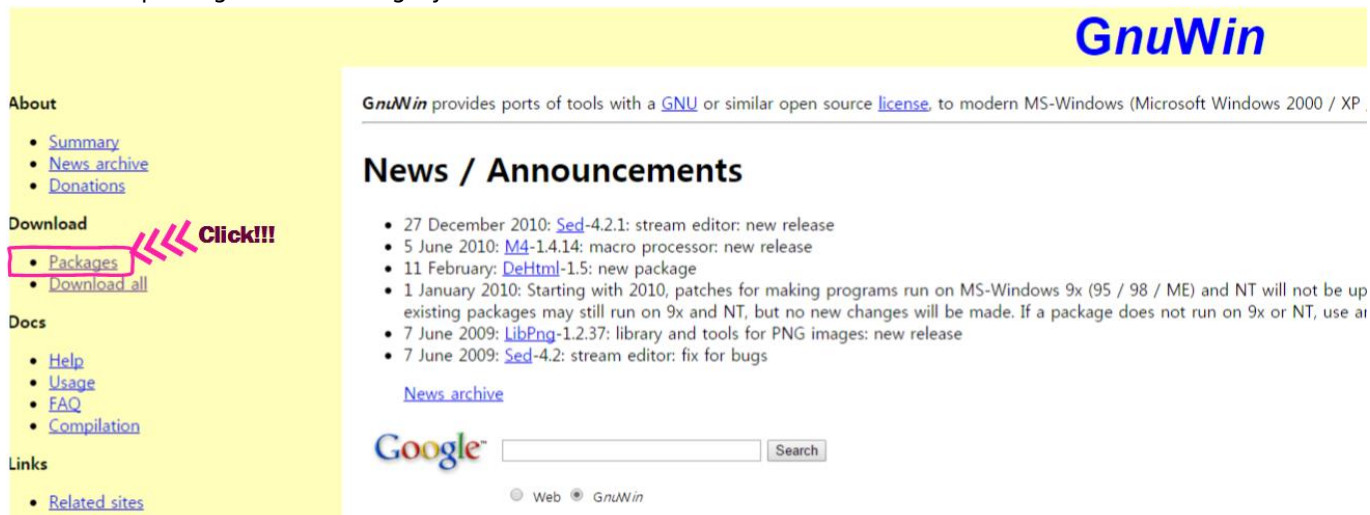
## Step1 gunwin32 Installation

❖ 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.



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

|                           |         |   |                       |
|---------------------------|---------|---|-----------------------|
| <a href="#">LibUnGif</a>  | 4.1.4   | library and tools for uncompressed GIF images   | <a href="#">Setup</a> |
| <a href="#">LibWmf</a>    | 0.2.8.3 | library and tools for Windows Metafile images   | <a href="#">Setup</a> |
| <a href="#">LibXmi</a>    | 1.2     | 2D rasterization library                        | <a href="#">Setup</a> |
| <a href="#">LibXml</a>    | 2.6.28  | parser library for XML                          | <a href="#">Files</a> |
| <a href="#">LibY</a>      | 1.4.14  | macro processor                                 | <a href="#">Setup</a> |
| <a href="#">Make</a>      | 3.81    | GNU make utility to maintain groups of programs | <a href="#">Setup</a> |
| <a href="#">Mawk</a>      | 1.3.3   | pattern scanning and text processing language   | <a href="#">Setup</a> |
| <a href="#">MiniSed</a>   | 1.1.2   | stream editor                                   |                       |
| <a href="#">MiscFiles</a> | 1.4.2   | collection of miscellaneous files               |                       |
| <a href="#">MkTemp</a>    | 1.6     | return temporary file names                     |                       |

**Click!!!**

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

**Download**

**Click!!!**

If you download the [Setup program](#) of the package, any requirements for running applications, such as dynamic link libraries (DLL's) for the package, then you must download and install the [dependencies zip file](#) yourself. Developer files (header files and libraries) from other packages are not included.

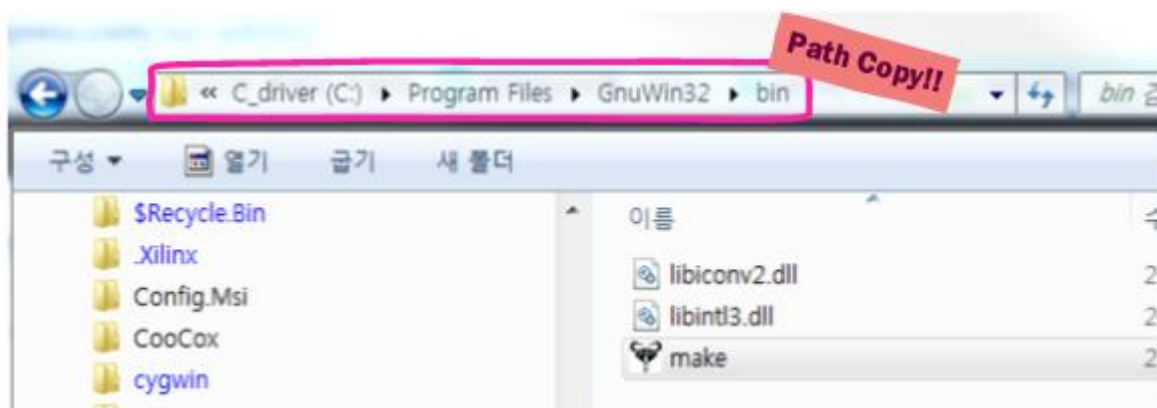
4. When download time left as '0', you get the **setup file**.



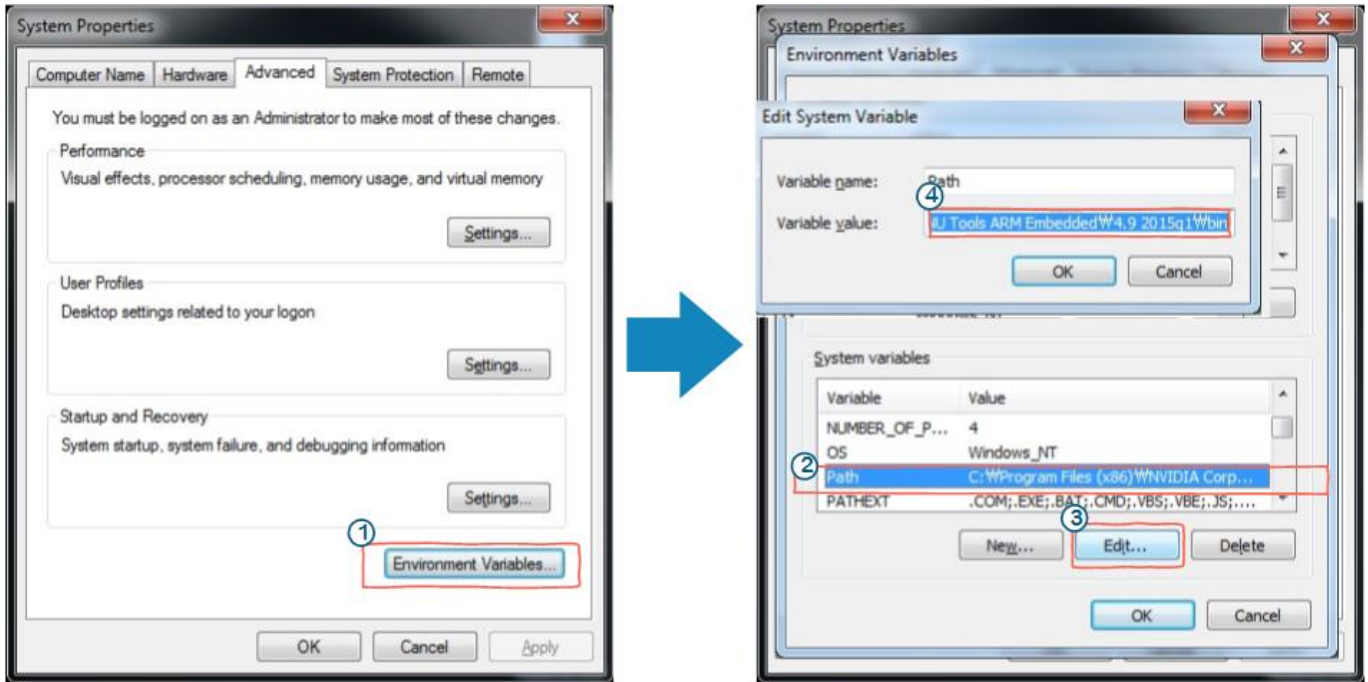
5. Finish the setup, copy the program setup path (you reach until **make.exe**)



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**)



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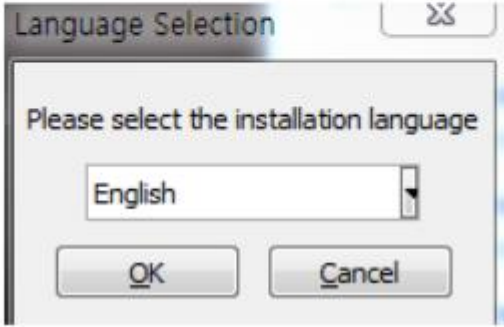
[4.9-2015-q1-update release](#) from the 4.9 series released 2015-03-20

▶ [Release information](#)

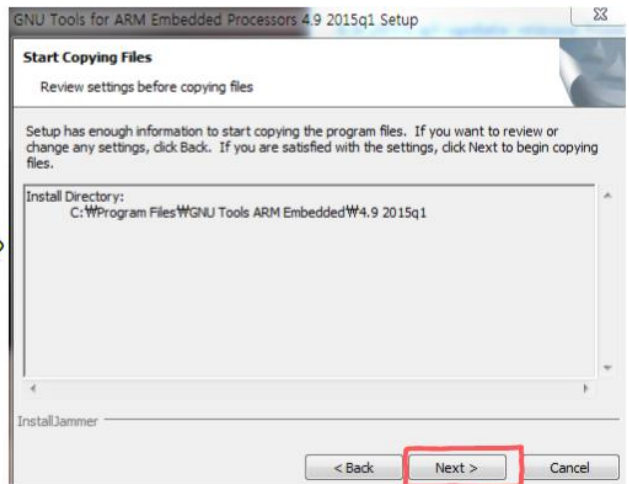
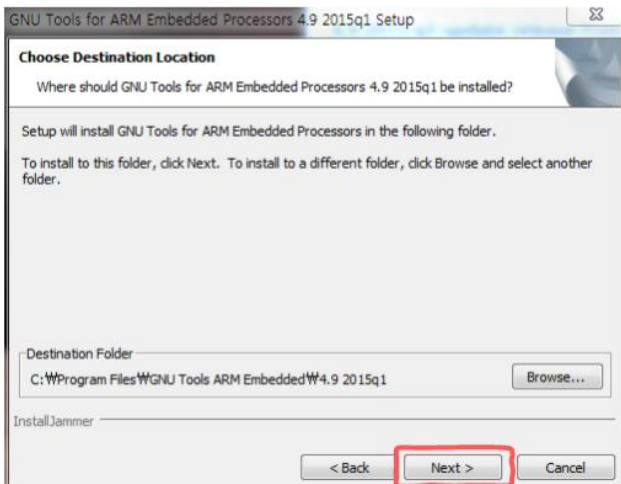
| File  | Description                | Downloads                       |
|---|----------------------------|---------------------------------|
| <a href="#">release.txt</a> (md5)   | Release notes              | 1,328<br>last downloaded today  |
| <a href="#">gcc-arm-none-eabi-4_9-2015q1-20150306-win32.exe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

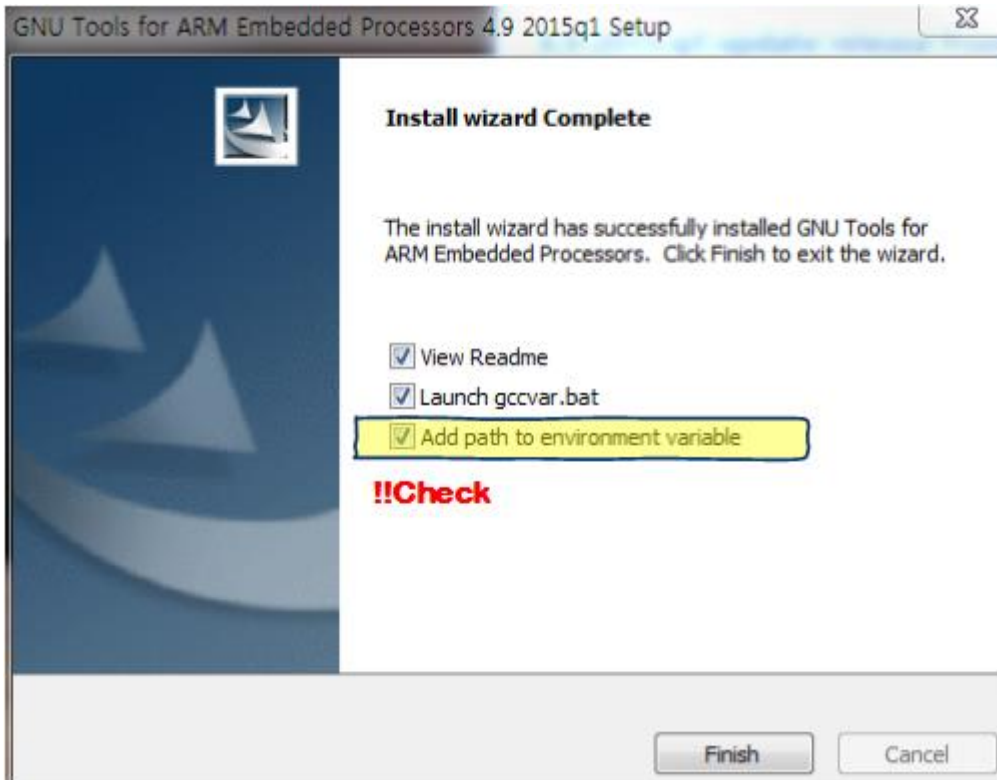


4.The installation path setup and click the '**NEXT**', click the '**NEXT**' again.



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



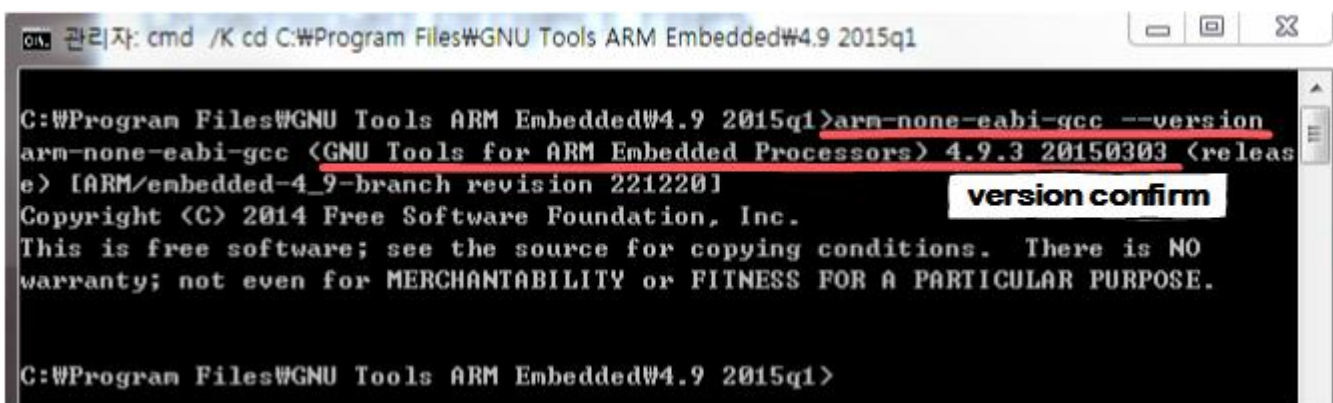


6.The command window will be opened,you can know the arm gcc setup path it.



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
```

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

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

2.You can see the compile as below.

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

I:\YOBI\W7500\WORK\Software\W7500_FW\Projects\Peripheral_Examples\Uart\Printf\GCC>make
arm-none-eabi-gcc -g -O3 -mthumb -mcpu=cortex-m0\
  .....\Libraries\CMSIS/Device/WIZnet/W7500/Source/GCC/startup_W7500.S \
  ..*.c \
  .....\Libraries/W7500_stdPeriph_Driver/src/W7500x_uart.c \
  .....\Libraries\CMSIS/Device/WIZnet/W7500/Source/system_W7500x.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 -O binary main.o
# Generate hex file
arm-none-eabi-objcopy -O verilog main.o
I:\YOBI\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-- |

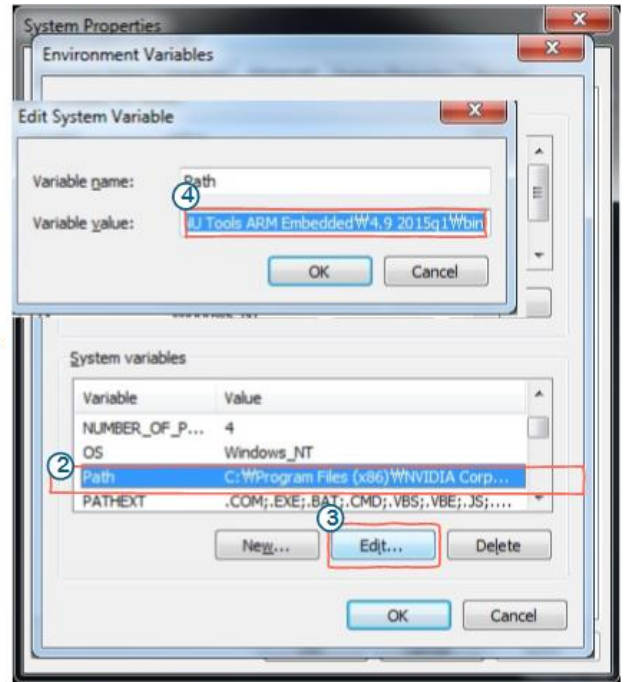
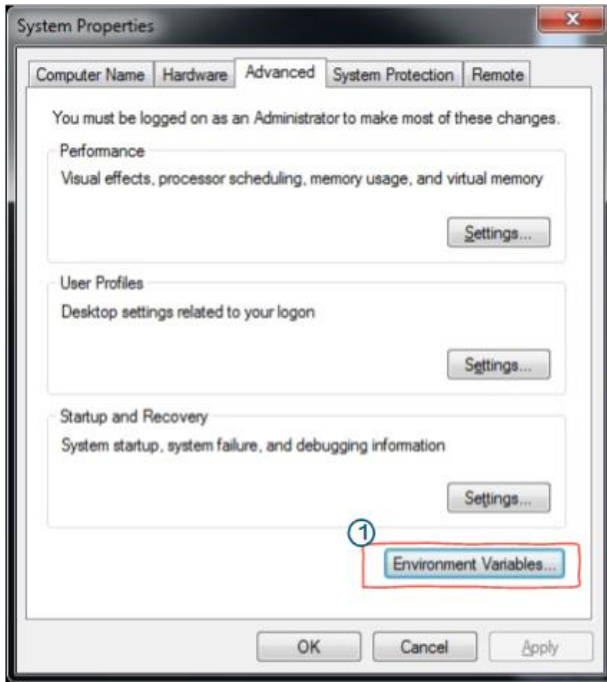
## When compile error occur

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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