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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
About	GnuW in provides ports of tools with a GNU or similar open source license, to modern MS-Windows (Microsoft Windows 2000 / XP
Summary News archive Donations	News / Announcements
Download Click!!! Download all	 27 December 2010: <u>Sed</u>-4.2.1: stream editor: new release 5 June 2010: <u>M4</u>-1.4.14: macro processor: new release 11 February: <u>DeHtml</u>-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
Docs	 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: <u>LibPng</u>-1.2.37: library and tools for PNG images: new release 7 June 2009: <u>Sed</u>-4.2: stream editor: fix for bugs
Usage EAQ	News_archive
<u>Compilation</u> Links	Google
Related sites	○ 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	26.28	parser library for XML	Files	
Q14 114	CIICK	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		
MiscFiles	1.4.2	collectic Homepage		
MkTemp	1.6	return te		
		If you download the <u>Setup program</u> of the package, any req then you must download and install the <u>dependencies zip fil</u>	uirements for running applications, such as dynamic link libraries (D e yourself. Developer files (header files and libraries) from other par	LL's) f

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

packages.

GnuWin	GnuWin
	Your download will start in 0 seconds
	Problems with the download? Please use this direct link, or try another mirror.

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.

System Properties	System Properties
Computer Name Hardware Advanced System Protection Remote	Environment Variables
You must be logged on as an Administrator to make most of these changes.	Edit System Variable
Performance Visual effects, processor scheduling, memory usage, and virtual memory	Variable name:
Settings	Variable value:
Desktop settings related to your logon Settings	∑ystem variables
Startup and Recovery System startup, system failure, and debugging information	Variable Value NUMBER_OF_P 4 OS Windows_NT Path C:*WProgram Files (x86)WNVIDIA Corp
Settings Environment Variables	PATHEXT .COM;.EXE;.BAT;.CMD;.VBS;.VBS;.VBS;.JS; *
OK Cancel Apply	

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**)

Last update: 2015/04/29 11:18 products:w7500:docume	ents:appnote:gcc http://wizwiki.net/wi	ki/doku.php?id=products:w75(00:documents:appnote:gco
← → C 🔒 https://launchpad.net/gcd	-arm-embedded/+download		\$
앱 🗋 ioWIZ ioWIZ, IoT, 🗋 lanidress > Sel	f We 🔤 네이버 트렌드 리포터 💽 컴파	운드버튼 : 지식 🖸 네이버 tvcast	바비헤어
GNU Tools for	ARM Embedded	Processors	Log in / Register
Download project file	25		
How do I verify a download?			
1 → 10 of 12 releases		First	• Previous • Next • Last
File	Description Release notes	De	pwnloads
			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 ${}^{\boldsymbol{\mathsf{'OK'}}}$

x

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

게시자를 확인하지 못했습니다. 그래도 이 소프트웨어를 실행하시겠습 니까?
이름:cc-arm-none-eabi-4_9-2015q1-20150306-win32.exe 게시자: 알 수 없는 게시자
유형: 응용 프로그램 시작: C:\Users\EK\Downloads\gcc-arm-none-eabi-4_9-2
실행(R) 취소
☑ 이 파일을 열기 전에 항상 확인(₩)
이 파일에는 파일의 게시자 확인을 위한 올바른 디지털 서명이 없습니다. 다. 신뢰할 수 있는 게시자로부터의 소프트웨어만 실행해야 합니다. 실행해도 안전한 소프트웨어를 결정하는 방법
Language Selection

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

Choose Destination Location Where should GNU Tools for ARM Embedded Processors 4.9 2015q1 be installed? Setup will install GNU Tools for ARM Embedded Processors in the following folder. To install to this folder, dick Next. To install to a different folder, dick Browse and select another folder. Destination Folder C:WProgram Files WGNU Tools ARM Embedded W4.9 2015q1 Browse Install Jammer	ded Processors 4.9 2015q1 Setup
Setup will install GNU Tools for ARM Embedded Processors in the following folder. To install to this folder, dick Next. To install to a different folder, dick Browse and select another folder. Destination Folder C:\\Program Files\\GNU Tools ARM Embedded\\4.9 2015q1 Browse InstallJammer	tion Start Copying Files Review settings before copying files
Destination Folder C:\Program Files\PGNU Tools ARM Embedded\Pd.9 2015q1 Browse InstallJammer InstallJammer	rr ARM Embedded Processors in the following folder. Next. To install to a different folder, click Browse and select another Install Directory: C:₩Program Files₩GNU Tools ARM Embedded₩4.9 2015q1
InstallJammer	vols ARM Embedded₩4.9 2015g1 Browse
Rade North Canad	

OI 0171 . HOF 74

Last update: 2015/04/29 11:18 products:w7500:documents:appnote:gcc http://wizwiki.net/wiki/doku.php?id=products:w7500:documents:appnote:gcc

GNU Tools for ARM Embedded	Processors 4.9 2015q1 Setup
	Install wizard Complete
	The install wizard has successfully installed GNU Tools for ARM Embedded Processors. Click Finish to exit the wizard.
	View Readme
	Add path to environment variable
	Finish Cancel

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

🗃 관리자: cmd /K cd C:#Program Files#GNU Tools ARM Embedded#4.9 2015q1	
C:\Program Files\GNU Tools ARM Embedded\4.9 2015q1>	<u>к</u>
7.Confirm the version of arm gcc using the command of below.	
arm-none-eabi-gccversion	
한 관리자: cmd /K cd C:\Program Files\GNU Tools ARM Embedded\4.9 2015q1	
C:\Program Files\GNU Tools ARM Embedded\4.9 2015q1>arm-none-eabi arm-none-eabi-gcc (GNU Tools for ARM Embedded Processors) 4.9.3	-gccversion 20150303 (releas
e> [ARM/embedded-4_9-branch revision 221220] Copyright <c> 2014 Free Software Foundation, Inc.</c>	on confirm
This is free software; see the source for copying conditions. The warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICUL	here is NO AR PURPOSE.
C:₩Program Files₩GNU Tools ARM Embedded₩4.9 2015q1>	

Step3 execute the makefile

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

make

 Image: Height C:#Windows#system82#cmd exe

 Microsoft Windows [Version 6.1.7601]

 Copyright (c) 2009 Microsoft Corporation. All rights reserved.

 I:#YOBI#W7500#0_WORK#Software#W7500_FW#Projects#Peripheral_Examples#Uart#Printf#GCC>make

 2.You can see the compile as below.

En ELA, CHANNOORSISSENDZACHCICKE
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
I:WYOBIWW7500W0_WORKWSoftwareWW7500_FW#Projects#Peripheral_Examples#Uart#Printf#GCC>make
arm-none-eabi-gcc -g -03 -nthumb -mcpu=cortex-m0#
///Libraries//CMSIS/Device/WIZnet/W7500/Source/GCC/startup_W7500.S \
· · / W.C W
//Libraries/A/7500x_stdPeriph_Driver/src/47500x_uart.c \
///Libraries//CMSIS/Device/WIZnet/W7500/Source/system_W7500x.c 🗑
-I//Libraries//CMSIS/Include -I//Libraries//CMSIS/Device/WIZnet/W7500/Include -I//Libraries/
/#7500x_stdPeriph_Driver/inc #
-L//Libraries//CMSIS/Device/WIZnet/W7500/Source/GCC #
-DCORTEX_M0 -DUSE_STDPERIPH_DRIVER -T///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:\WYOBI\W7500W0_WORK\Software\V7500_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
amain	hex	57,611 2015-04-16 21:04 -a
main	lst	334,124 2015-04-16 21:04 -a
🚡 main	0	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



Computer Name Hardware Advanced System Protection Remote You must be logged on as an Administrator to make most of these changes.	Environment Variables
Performance Visual effects, processor scheduling, memory usage, and virtual memory Settings	Variable name:
User Profiles	OK Cancel
Sgttings	System variables
Startup and Recovery System startup, system failure, and debugging information	NUMBER_OF_P 4 OS Windows_NT Path C:\WProgram Files (x86)\WNVIDIA Corp
Environment Variables	PATHEXT .COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS; Nem Edit Delete
OK Cancel Arch	OK Cancel

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