

**MTK** **Andes Tool Chains Usage**

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**Revision History**

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| --- | --- | --- | --- |
| Date | Revision | Author | Description |
| 2014.02.12 | First v0.01 | Jinchuan | Initial draft. |
| 2014.04.15 | v0.02 | Jinchuan | Add Andes Sight Setup  Add Q&A |
| 2014.05.28 | v0.03 | Jinchuan |  |
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# Install AndeSight

## 1-1: How to get AndeSight install files

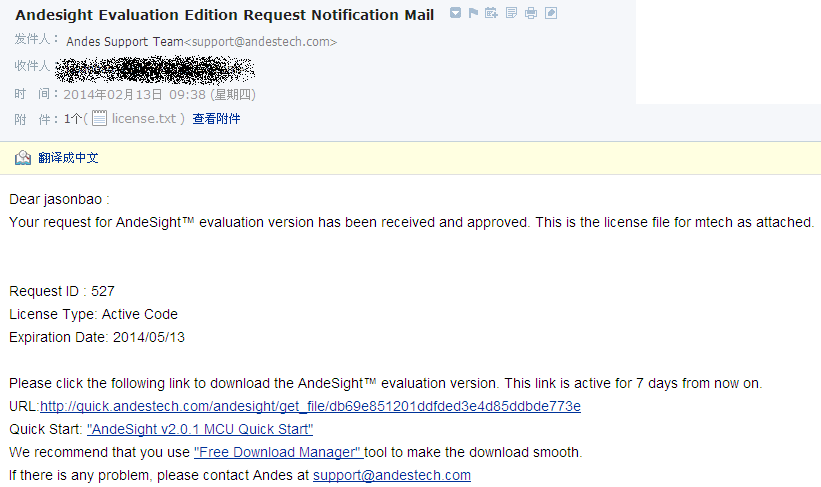
<http://www.andestech.com/cn/download/andesight-download.htm>



Access this websit, and fill information for application



Your will receive a email include AndeSight download path, after



and there is a quick start for AndeSight installation

<http://forum.andestech.com/viewtopic.php?f=23&t=576&p=672>

## 1-2: Install AndeSight following the quick start :

AndeSight default install Path is : C:\Andestech\AndeSight14\

The toolchains install Path is : C:\Andestech\AndeSight14\toolchains\nds32le-elf-newlib-V2j

The config file in C:\Andestech\AndeSight\*\*\*\toolchains\nds32le-elf-newlib-v2j\cygwin-andes.bat

must mapping the toolchain install path,

if the toolchian install path is changed, below path setting also need to be changed in cygwin-andes.bat

set TOP=C:\Andestech\AndeSight14\cygwin

set TOP=%TOP:\=/%

set TMP=C:\Andestech\AndeSight14\cygwin\cygwin\_tmp

set PATH=C:\Andestech\AndeSight14\cygwin\bin;%CD%\bin

set HOME=%CD%\bin

IF EXIST "C:\Andestech\AndeSight14\cygwin\bin\bash.exe" set SHELL=/bin/bash

"C:\Andestech\AndeSight14\cygwin\bin\bash.exe" --login –i

For MTK MT7681 Project, a special tool chains should be used,

Thus, we need instead the original tool chains as MTK ones

# Update Tool chains

Decompress the MTK’s toolchains package “nds32le-elf-newlib-v2j.rar”

to C:\Andestech\AndeSight14\toolchains\nds32le-elf-newlib-V2j

The original one should be deleted or rename first.

# Modify MT7681 configuration file

Modify the configuration files in MT7681 folder: mak/compiler.mk

Add yellow line and delete gray line

#\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

# TOOLCHAINS DEFINE

#\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#TOOLCHAINS = /root/Andestech/BSPv310/toolchains/nds32le-elf-newlib-v2j/bin

#TOOLCHAINS = /cygdrive/c/Andestech/BSPv310/toolchains/nds32le-elf-newlib-v2j/bin

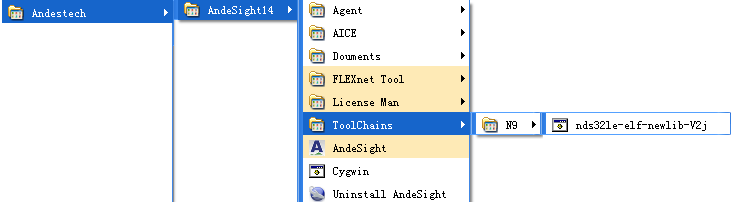
TOOLCHAINS = /cygdrive/c/Andestech/AndeSight14/toolchains/nds32le-elf-newlib-v2j/bin

CROSS = $(TOOLCHAINS)/nds32le-elf

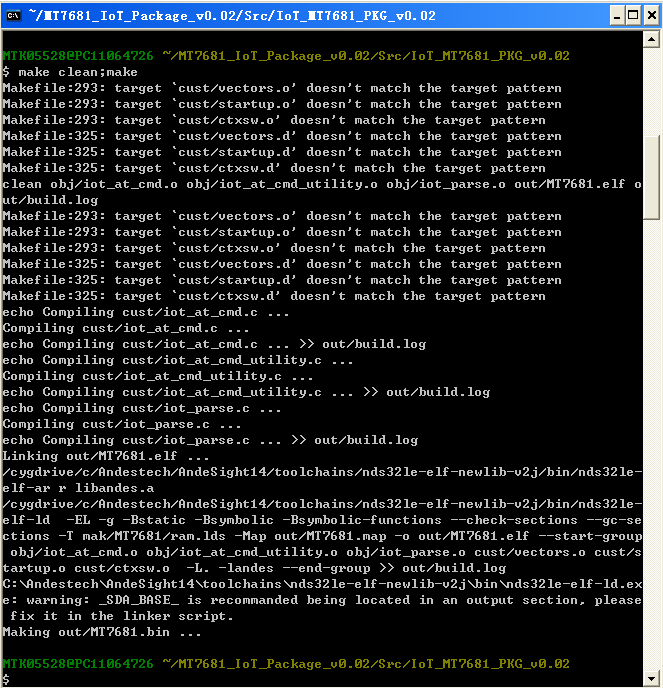
# Select Cygwin to Compile MT7681 Source Code

Click “Begin” Button on the Windows OS

Select  Toolchains->N9->nds32le-elf-newlib-V2j, a Cygwin window shall be opened

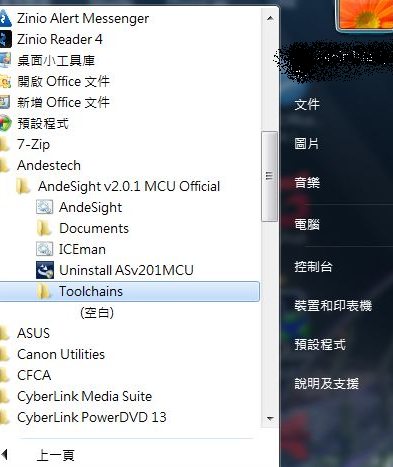


The Normal Compile message:



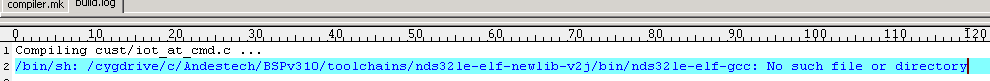
# Q&A

5-1: install AndeSight 之後Toolchains下面是空白的。請問要怎麼啟動Cygwin



有人员在Win 7 OS下 可能不能打开Cygwin， 但相同安装档在**Win XP** 下可以

5-2：在 Cygwin 环境下编译时 提示：



原因是toolchains未安装 或者安装后在mak/compiler.mk  文件中的设定不对造成

解决方法： 参考第3章，将toolchians路径 设定到Package的MT7681 Source Code (mak/compiler.mk) 中