

# Andes 乙級證照 108考題練習

# Q1

考題類型	<input type="checkbox"/> Non-OS <input type="checkbox"/> Linux
實作平台	<input type="checkbox"/> ADP-XC5FF676 <input type="checkbox"/> ADPAG102-UP <input type="checkbox"/> ADP-WT95F064 <input checked="" type="checkbox"/> VEP (AndeSight™ STD v2.0)
環境設定	1. PC 主機：Host OS - Microsoft Windows XP。 2. Andes/AndeSight V2.0 Toolchains。
實作內容	在 AndeSight™整合開發環境撰寫程式，使用 ESL 環境下的 VEP(Virtual Evaluation Platform)功能，設定屬性 Target Chip 使用 ADP-AG101-4GB-N1033-S; Tool Chain 必須用 nds32le-elf-newlib-v2 (1) 實現五次” My name is James 等字 ” 文字顯示；(2) 產生最小容量的 bin 檔案。
注意事項	1. 請將作答所產生之所有檔案儲存於資料夾 Q1\Ans 內。 2. 可依需要參考或使用 Q1\ 內各子資料夾預存之程式碼或資料。 



C Project

Create C project of selected type

Project name: ACETQ1\_20200520

☒ Use default location

Location: C:\Andestech\AndeSight200STD\ide\_64\workspace\ACETQ1\_20200520

Browse...

Choose file system: default

Connection Type

☒ Simulator ☐ AICE

Target Chip

Name	Chip	CPU	Simulator Config
ADP-AG101P-16MB-N801-S	ADP-AG101P-16MB-N801-S	[N801-S]	ADP-XC5-for-N801-S-16M.vep
ADP-AG101P-4GB-N1033A-S	ADP-AG101P-4GB-N1033A-S	[N1033A-S]	ADP-XC5-for-N1033A-S.vep
ADP-AG101P-4GB-N1068A-S	ADP-AG101P-4GB-N1068A-S	[N1068A-S]	ADP-XC5-for-N1068A-S.vep
ADP-AG101P-4GB-N1233-FPU	ADP-AG101P-4GB-N1233F-S	[N1233-FPU]	ADP-XC5-for-N1233-FPU.vep
ADP-AG101P-4GB-N1337-FPU	ADP-AG101P-4GB-N1337-FPU	[N1337-FPU]	ADP-XC5-for-N1337-FPU.vep
ADP-AG101P-4GB-N903-S-32GPR	ADP-AG101P-4GB-N903-S-32GPR	[N903-S]	ADP-XC5-for-N903A-S.vep

Project type:

Andes Executable

☒ Empty Project

☐ Hello World ANSI C Project

Andes Shared Library

Andes Static Library

Makefile project

Toolchains:

nds32le-elf-mculib-v2

nds32le-elf-mculib-v2j

☒ nds32le-elf-newlib-v2

nds32le-elf-newlib-v2j

nds32le-linux-glibc-v2

☒ Show project types and toolchains only if they are supported on the platform

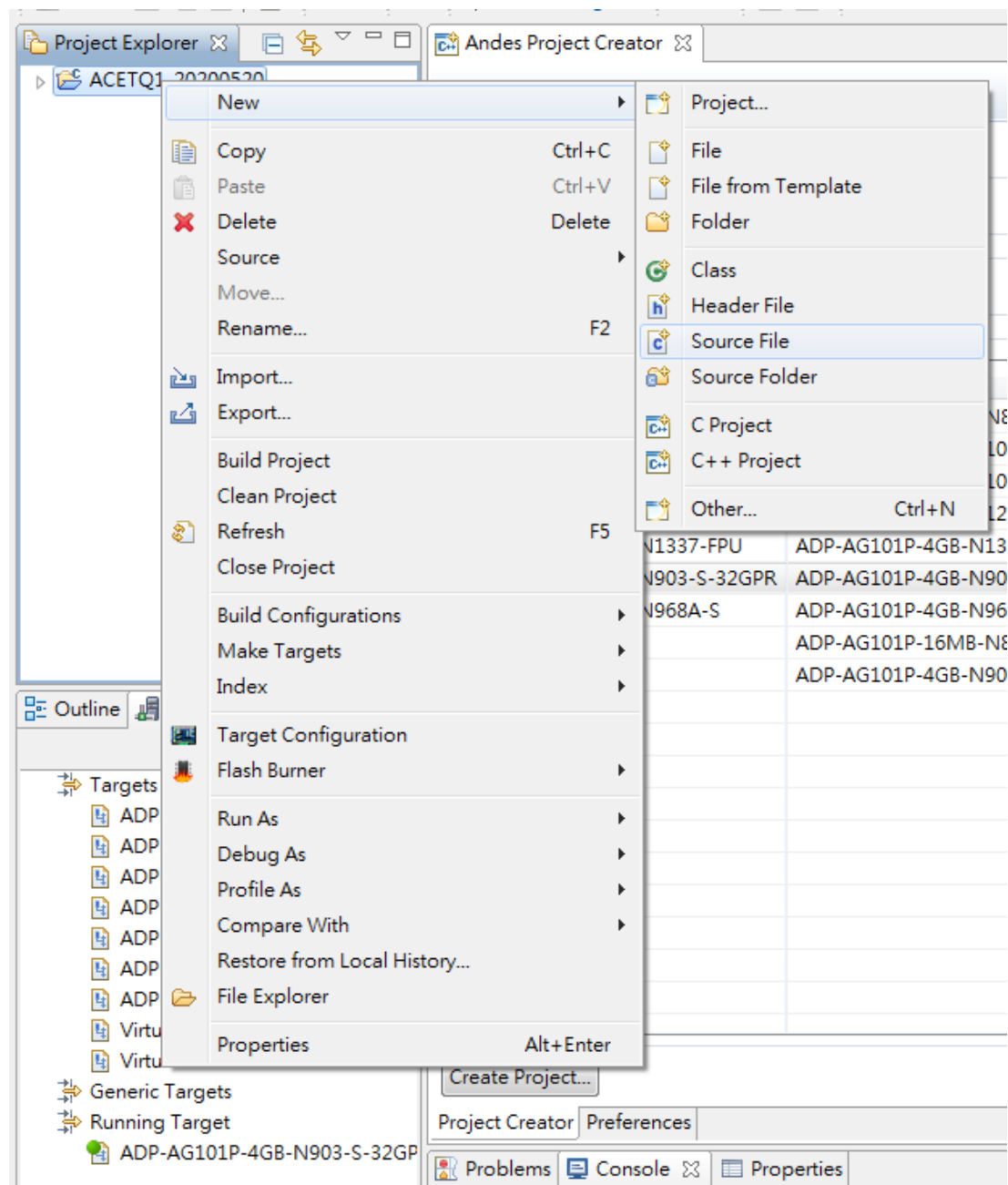
?

< Back

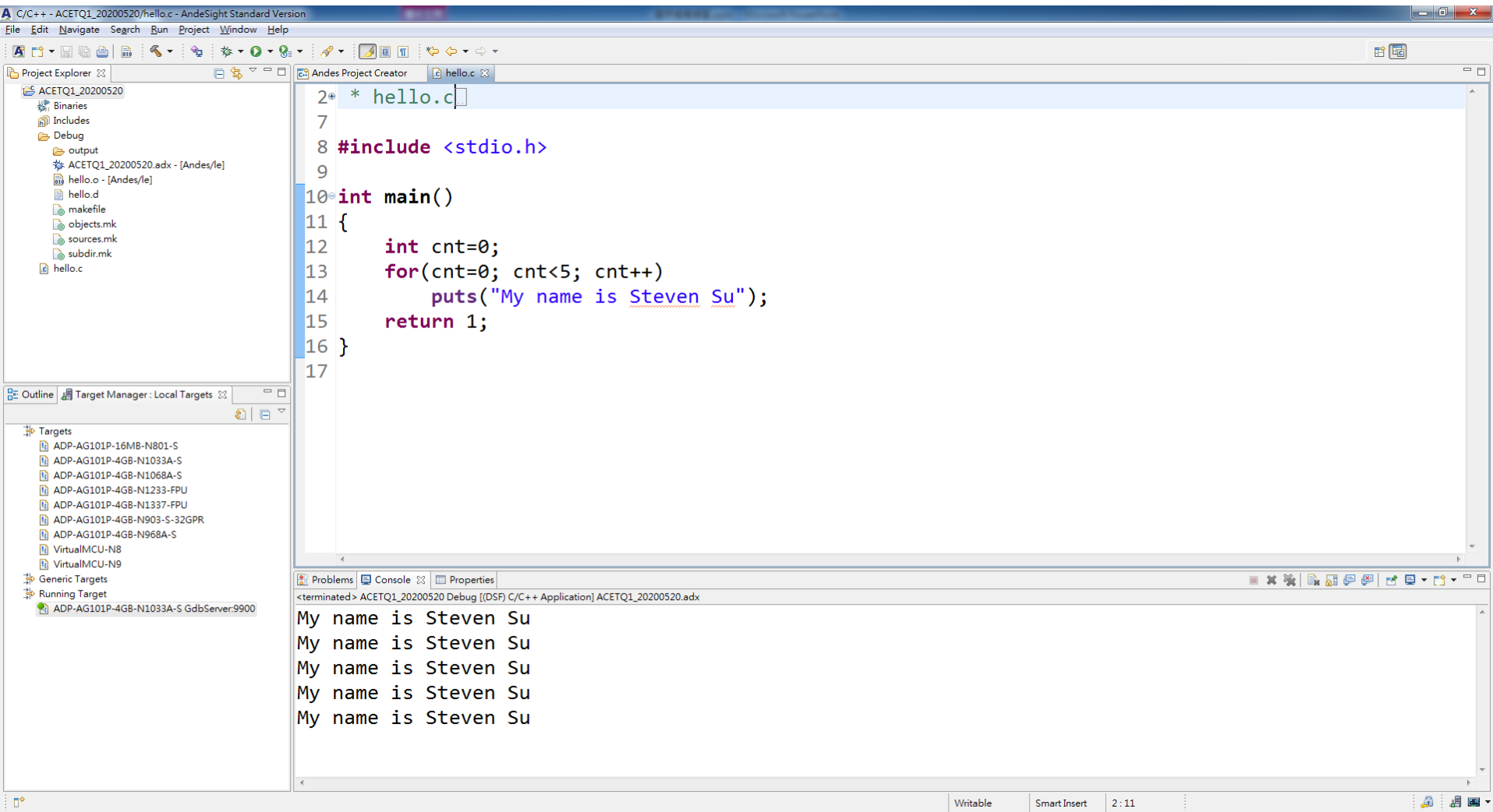
Next >

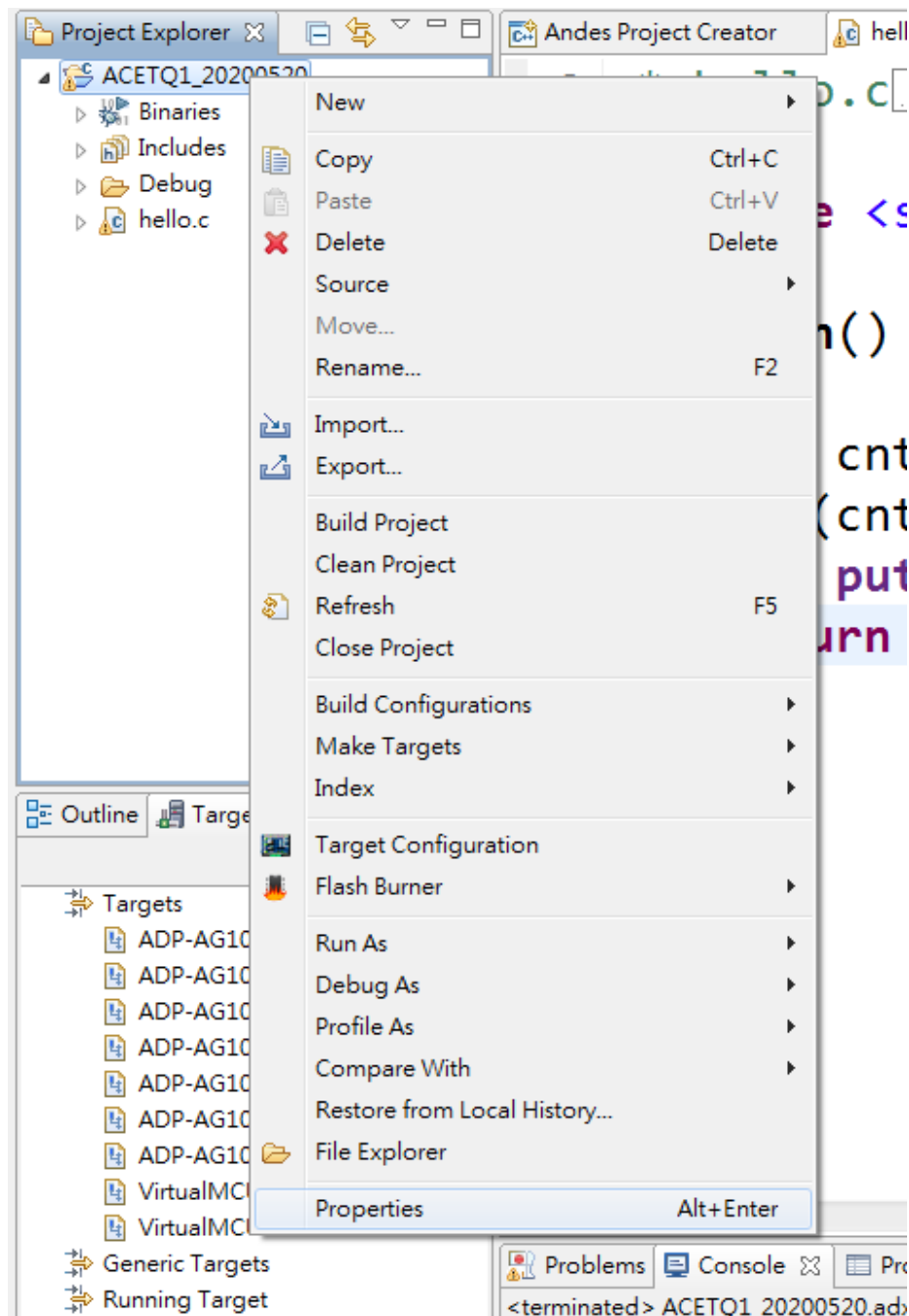
Finish

Cancel

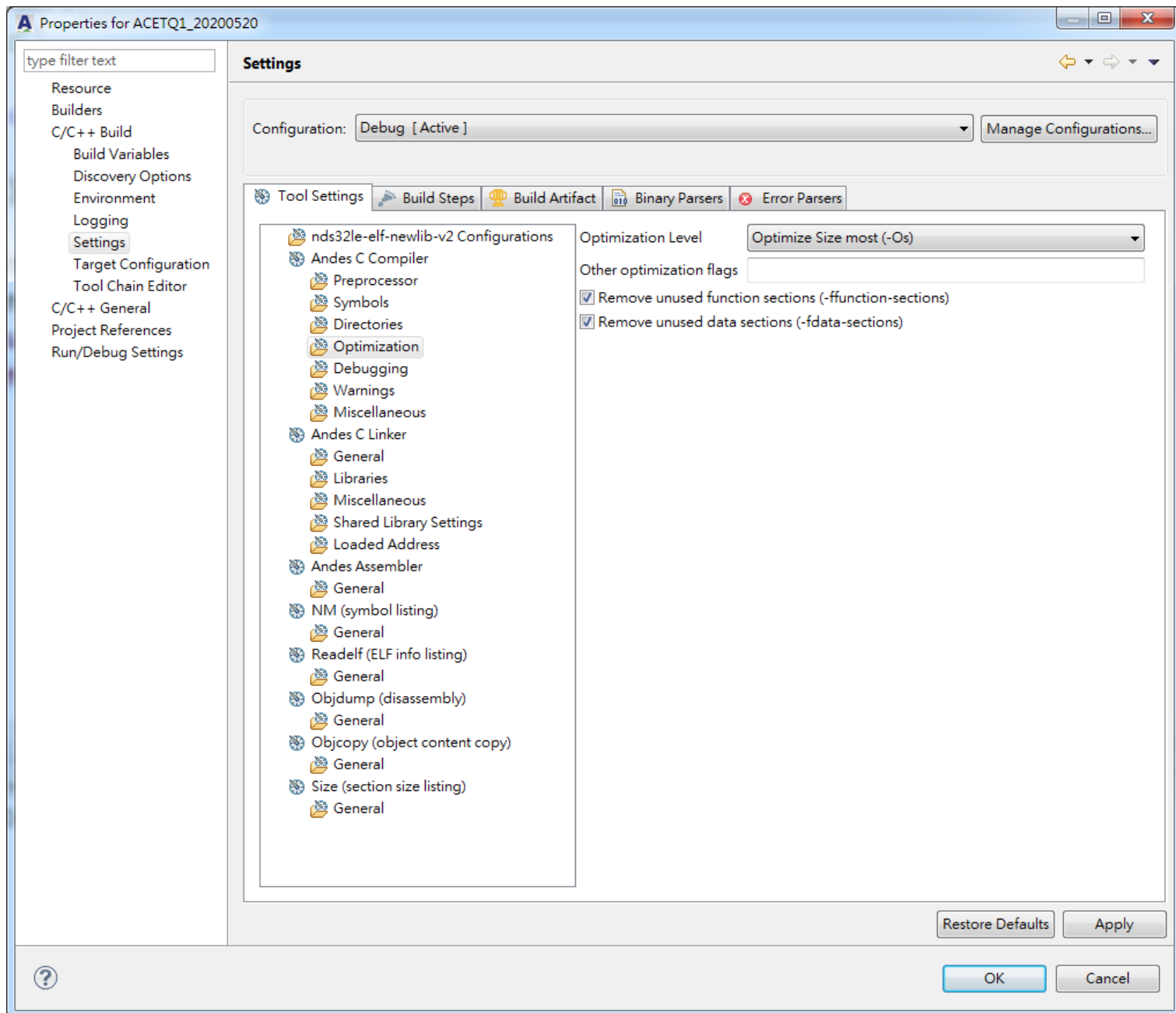


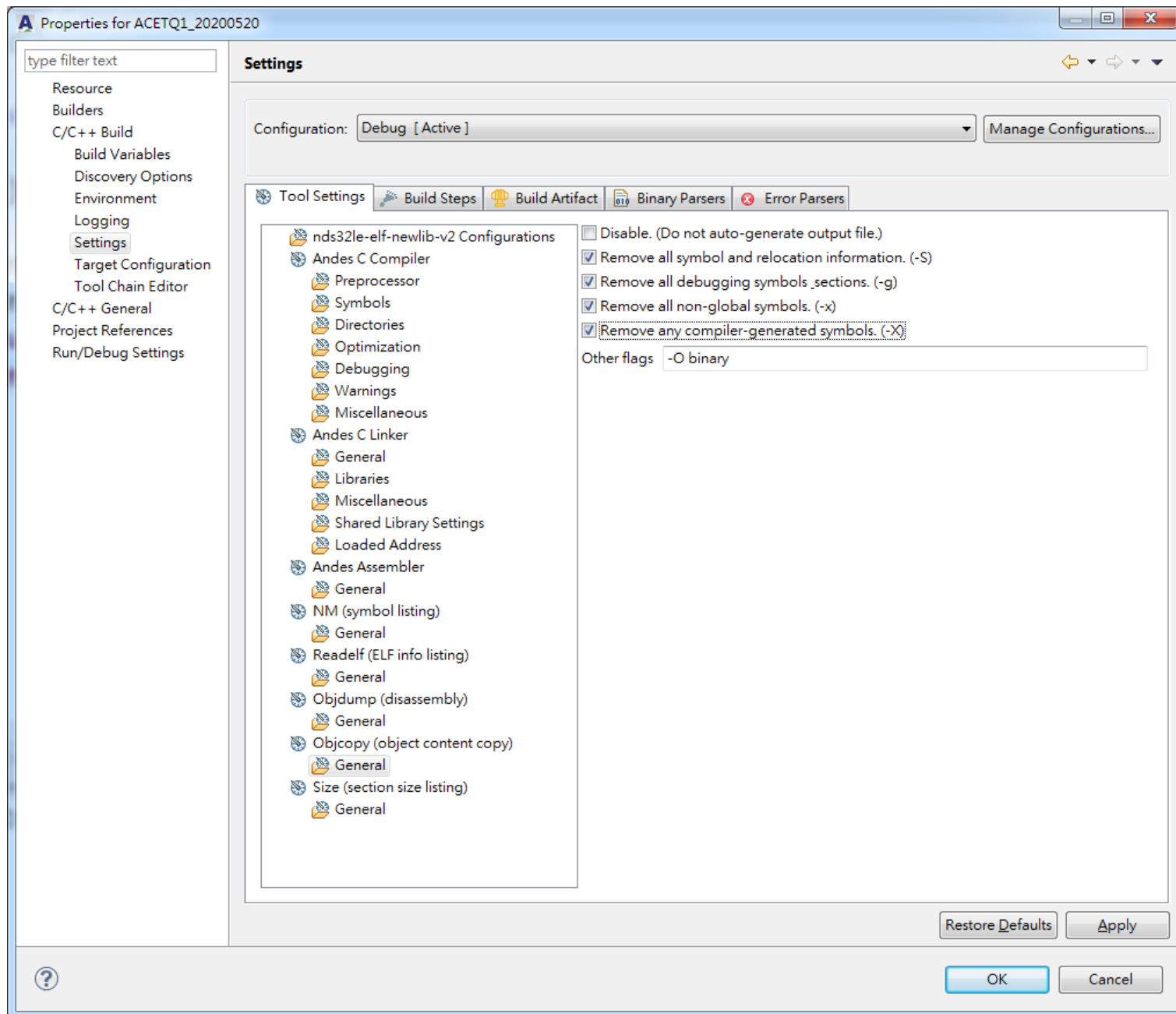
```
2 * hello.c
7
8 #include <stdio.h>
9
10 int main()
11 {
12     int cnt=0;
13     for(cnt=0; cnt<5; cnt++){
14         puts("My name is Steven Su");
15     }
16 }
```

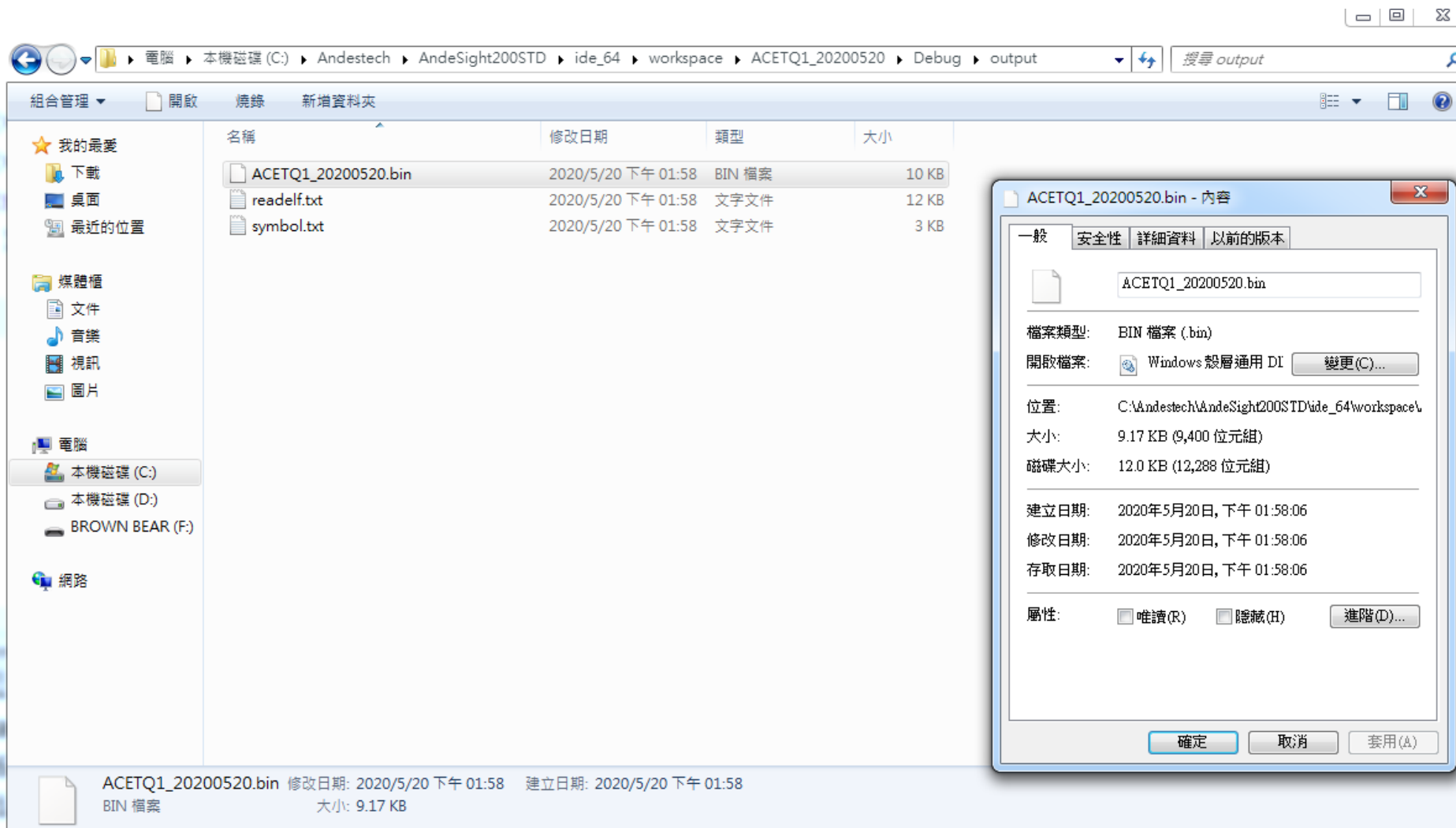












type filter text

General  
C/C++  
Help  
Install/Update  
License  
Remote Systems  
Run/Debug  
Target Management default setting  
TCF Agent Configurations  
Team  
Terminal  
VEP Editor

## Target Management default setting

User Settings for Target Management.

All of the settings in this page are global to the entire workspace except for those in Target Chip section.

## Target Manager Internal TCP Port Range

Start Port 9900

End Port 49151

- ☐ Enable Simulator Multiple Instances  
☒ Enable AICE plug-in  
☐ Disable Simulator/AICE consoles

## Connection Type

☒ Simulator ☐ AICE

ICEman Misc Arguments

Simulator Misc Arguments

Vep2Conf Misc Arguments

## Target Chip

Name	Chip	CPU	Simulator Config
ADP-AG101P-16MB-N801-S	ADP-AG101P-16MB-N801-S	[N801-S]	ADP-XC5-for-N801-S-16M.vep
ADP-AG101P-4GB-N1033A-S	ADP-AG101P-4GB-N1033A-S	[N1033A-S]	ADP-XC5-for-N1033A-S.vep
ADP-AG101P-4GB-N1068A-S	ADP-AG101P-4GB-N1068A-S	[N1068A-S]	ADP-XC5-for-N1068A-S.vep
ADP-AG101P-4GB-N1233-FPU	ADP-AG101P-4GB-N1233F-S	[N1233-FPU]	ADP-XC5-for-N1233-FPU.vep
ADP-AG101P-4GB-N1337-FPU	ADP-AG101P-4GB-N1337-FPU	[N1337-FPU]	ADP-XC5-for-N1337-FPU.vep
ADP-AG101P-4GB-N903-S-32GPR	ADP-AG101P-4GB-N903-S-32GPR	[N903-S]	ADP-XC5-for-N903A-S.vep

Front-end Selection

Setup System Calls

Restore Defaults

Apply



OK

Cancel

type filter text

- Resource
- Builders
- C/C++ Build
  - Build Variables
  - Discovery Options
  - Environment
  - Logging
  - Settings**
  - Target Configuration
  - Tool Chain Editor
- C/C++ General
- Project References
- Run/Debug Settings

## Settings

Configuration: Debug [ Active ]

Manage Configurations...

## Tool Settings

## Build Steps

## Build Artifact

## Binary Parsers

## Error Parsers

## nds32le-elf-newlib-v2 Configurations

## Andes C Compiler

## Preprocessor

## Symbols

## Directories

## Optimization

## Debugging

## Warnings

## Miscellaneous

## Andes C Linker

## General

## Libraries

## Miscellaneous

## Shared Library Settings

## Loaded Address

## Andes Assembler

## General

## NM (symbol listing)

## General

## Readelf (ELF info listing)

## General

## Objdump (disassembly)

## General

## Objcopy (object content copy)

**General**

## Size (section size listing)

## General

☐ Disable. (Do not auto-generate output file.)☒ Remove all symbol and relocation information. (-S)☒ Remove all debugging symbols \_sections. (-g)☒ Remove all non-global symbols. (-x)☒ Remove any compiler-generated symbols. (-X)

Other flags: -O binary

# 顯示.bin檔步驟：

## 1.打開Properties

## 2.點選Objcopy/General

## 3.勾選下面四項

(p.s 第一項為不自動產生bin檔)

Restore Defaults

Apply

OK

Cancel

type filter text

Resource  
Builders  
C/C++ Build  
Build Variables  
Discovery Options  
Environment  
Logging  
Settings  
Target Configuration  
Tool Chain Editor  
C/C++ General  
Project References  
Run/Debug Settings

## Settings

Configuration: Debug [ Active ]

Manage Configurations...

Tool Settings

Build Steps

Build Artifact

Binary Parsers

Error Parsers

nds32le-elf-newlib-v2 Configurations

Andes C Compiler

Preprocessor

Symbols

Directories

Optimization

Debugging

Warnings

Miscellaneous

Andes C Linker

General

Libraries

Miscellaneous

Shared Library Settings

Loaded Address

Andes Assembler

General

NM (symbol listing)

General

Readelf (ELF info listing)

General

Objdump (disassembly)

General

Objcopy (object content copy)

General

Size (section size listing)

General

Optimization Level

Optimize Size most (-Os)

Other optimization flags

☒ Remove unused function sections (-ffunction-sections)☒ Remove unused data sections (-fdata-sections)

顯示.bin檔步驟：

4.點選

Andes C Compiler/Optimization

5.選擇Optimization Size most(-Os)

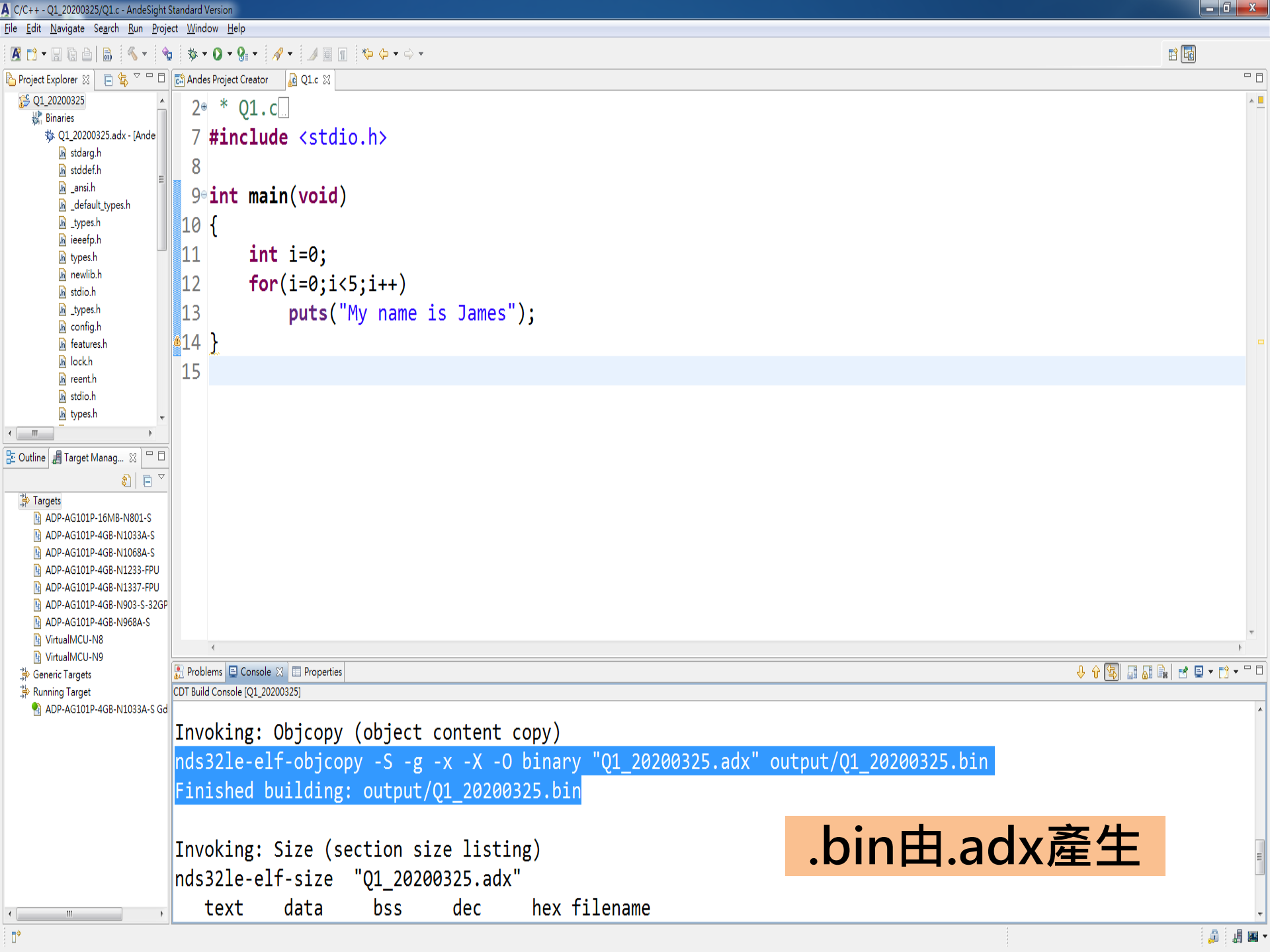
6.勾選下面兩項

Restore Defaults

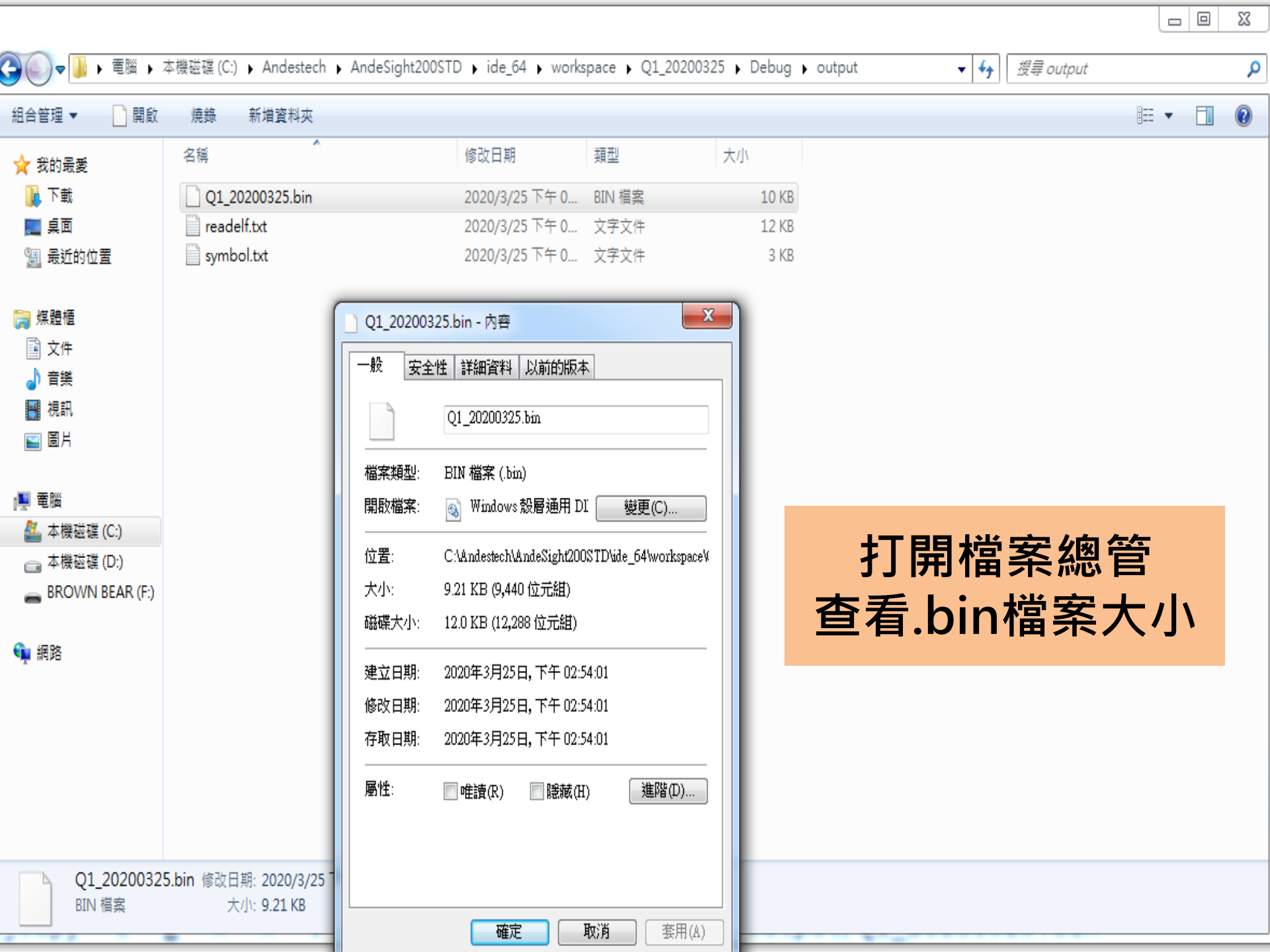
Apply

OK

Cancel



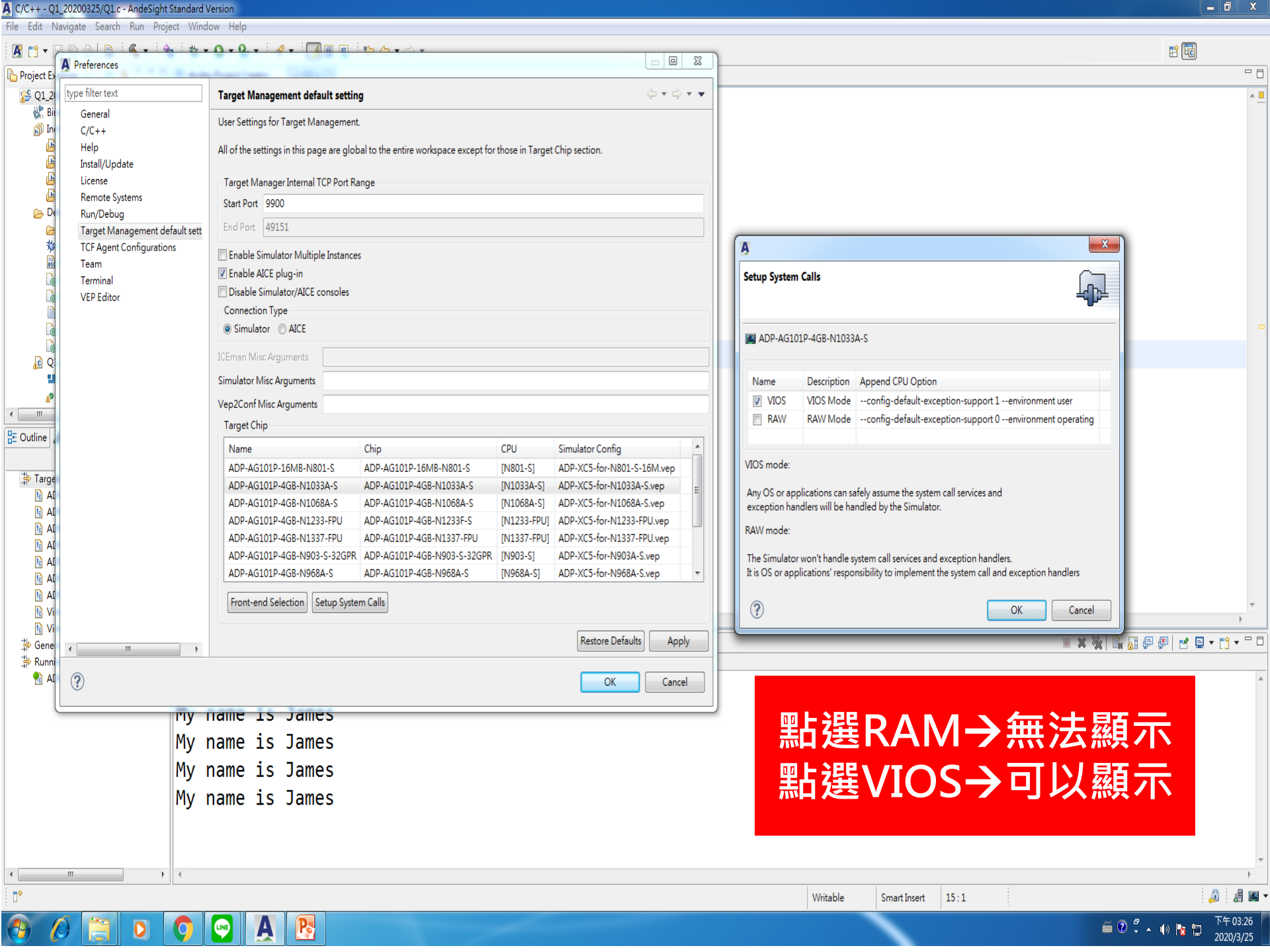
.bin由.adx產生



打開檔案總管  
查看.bin檔案大小



**若是你的程式碼結果沒有顯示  
請到以下畫面設定**



### Target Management default setting

User Settings for Target Management.

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#### Target Manager Internal TCP Port Range

Start Port 9900

End Port 49151

☐ Enable Simulator Multiple Instances

☒ Enable AICE plug-in

☐ Disable Simulator/AICE consoles

#### Connection Type

☒ Simulator ☐ AICE

ICEman Misc Arguments

Simulator Misc Arguments

Vep2Conf Misc Arguments

#### Target Chip

Name	Chip	CPU	Simulator Config
ADP-AG101P-16MB-N801-S	ADP-AG101P-16MB-N801-S	[N801-S]	ADP-XC5-for-N801-S-16M.vep
ADP-AG101P-4GB-N1033A-S	ADP-AG101P-4GB-N1033A-S	[N1033A-S]	ADP-XC5-for-N1033A-S.vep
ADP-AG101P-4GB-N1068A-S	ADP-AG101P-4GB-N1068A-S	[N1068A-S]	ADP-XC5-for-N1068A-S.vep
ADP-AG101P-4GB-N1233-FPU	ADP-AG101P-4GB-N1233F-S	[N1233-FPU]	ADP-XC5-for-N1233-FPU.vep
ADP-AG101P-4GB-N1337-FPU	ADP-AG101P-4GB-N1337-FPU	[N1337-FPU]	ADP-XC5-for-N1337-FPU.vep
ADP-AG101P-4GB-N903-S-32GPR	ADP-AG101P-4GB-N903-S-32GPR	[N903-S]	ADP-XC5-for-N903A-S.vep
ADP-AG101P-4GB-N968A-S	ADP-AG101P-4GB-N968A-S	[N968A-S]	ADP-XC5-for-N968A-S.vep

Front-end Selection

Setup System Calls

Restore Defaults

Apply

OK

Cancel

### Setup System Calls

ADP-AG101P-4GB-N1033A-S

Name	Description	Append CPU Option
<input checked="" type="checkbox"/> VIOS	VIOS Mode	--config-default-exception-support 1 --environment user
<input type="checkbox"/> RAW	RAW Mode	--config-default-exception-support 0 --environment operating

VIOS mode:

Any OS or applications can safely assume the system call services and exception handlers will be handled by the Simulator.

RAW mode:

The Simulator won't handle system call services and exception handlers. It is OS or applications' responsibility to implement the system call and exception handlers

OK

Cancel

點選RAM→無法顯示  
點選VIOS→可以顯示

Writable

Smart Insert

15 : 1

# Q2

考題類型	<input type="checkbox"/> Non-OS <input type="checkbox"/> Linux
實作平台	<input type="checkbox"/> ADP-XC5FF676 <input type="checkbox"/> ADPAG102-UP <input type="checkbox"/> ADP-WT95F064 <input checked="" type="checkbox"/> VEP (AndeSight™ STD v2.0)
環境設定	1. PC 主機：Host OS - Microsoft Windows XP 2. Andes/AndeSight V2.0 Toolchains
實作內容	在 AndeSight™整合開發環境撰寫程式，使用 ESL 平台環境下(1) 將程式修改為一系列 LED 間隔之閃爍效果(2)使 LED 同時兩列以上達到跑馬燈閃爍之顯示效果。
注意事項	1. 請將作答所產生之所有檔案儲存於資料夾 Q2\Ans 內。 2. 可依需要參考或使用 Q2\ 內各子資料夾預存之程式碼或資料。

```
1 #define GPIO_BASE 0x98700000
2 #define GPIO_DATA_OUT (*((unsigned int *) (GPIO_BASE+0x00)))
3
4 #define LED_GREEN 0x04
5 #define DELAY_TIME 100000
6
7 void toggleLED (unsigned int LEDMask);
8 void delay(unsigned int count);
9
10 int main()
11 {
12     GPIO_DATA_OUT=0;
13     while(1)
14     {
15         toggleLED(LED_GREEN);
16         delay(DELAY_TIME);
17     }
18     return 0;
19 }
```

```
GPIO_DATA_OUT=0;
while(1)
{
    int cnt;
    for(cnt=0; cnt<3; cnt++){ //偶數LED閃爍
        toggleLED(LED_GREEN);
        delay(DELAY_TIME);
    }
}
return 0;
```

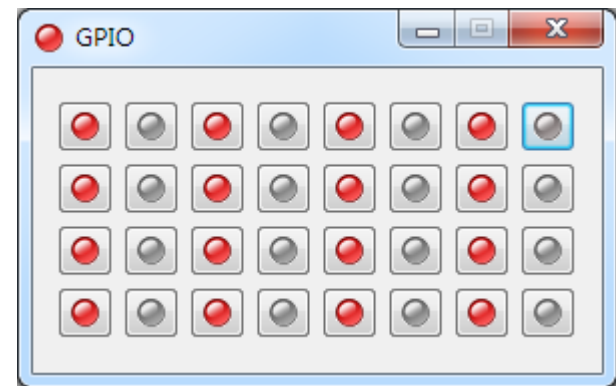


```
13= int main()  
14 {  
15     GPIO_DATA_OUT=0;  
16     while(1)  
17     {  
18         int cnt;  
19         for(cnt=0; cnt<3; cnt++){ //偶數LED閃爍  
20             toggleLED(LED_GREEN);  
21             delay(DELAY_TIME);  
22         }  
23         for(cnt=0; cnt<14; cnt++){ //LED來回閃爍  
24             GPIO_DATA_OUT=LED[cnt];  
25             delay(DELAY_TIME);  
26         }  
27         GPIO_DATA_OUT=0; //執行完全部清除  
28         delay(DELAY_TIME*3);  
29     }  
30     return 0;  
31 }
```

```
13 int main()  
14 {  
15     GPIO_DATA_OUT=0;  
16     while(1)  
17     {  
18         int cnt;  
19         for(cnt=0; cnt<3; cnt++){ //偶數LED閃爍  
20             toggleLED(LED_GREEN);  
21             delay(DELAY_TIME);  
22         }  
23         for(cnt=0; cnt<14; cnt++){ //LED來回閃爍  
24             GPIO_DATA_OUT=LED[cnt];  
25             delay(DELAY_TIME);  
26         }  
27         GPIO_DATA_OUT=0; //執行完全部清除  
28         delay(DELAY_TIME*3);  
29     }  
30     return 0;  
31 }
```



```
1 #define GPIO_BASE 0x98700000
2 #define GPIO_DATA_OUT (*((unsigned int *) (GPIO_BASE+0x00)))
3
4 #define LED_GREEN 0x55555555
5 #define DELAY_TIME 100000
6
7 void toggleLED (unsigned int LEDMask);
8 void delay(unsigned int count);
9
10 int main()
11 {
12     GPIO_DATA_OUT=0;
13     while(1)
14     {
15         toggleLED(LED_GREEN);
16         delay(DELAY_TIME);
17     }
18     return 0;
19 }
20
```





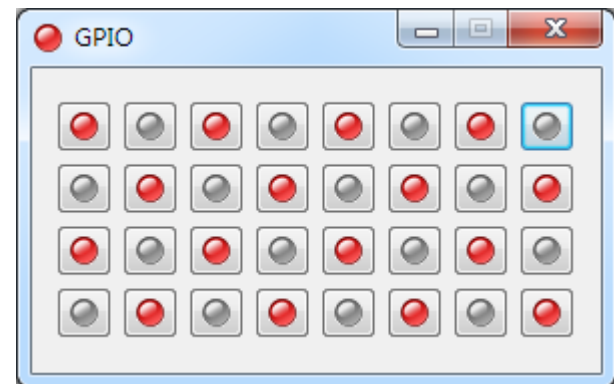
```

1 #define GPIO_BASE 0x98700000|
2 #define GPIO_DATA_OUT (*((unsigned int *)(GPIO_BASE+0x00)))
3
4 #define LED_GREEN 0x00FF00FF //1.3列閃
5 #define DELAY_TIME 100000
6
7 void toggleLED (unsigned int LEDMask);
8 void delay(unsigned int count);
9
10 int main()
11 {
12     GPIO_DATA_OUT=0;
13     while(1)
14     {
15         toggleLED(LED_GREEN);
16         delay(DELAY_TIME);
17     }
18     return 0;
19 }
20

```

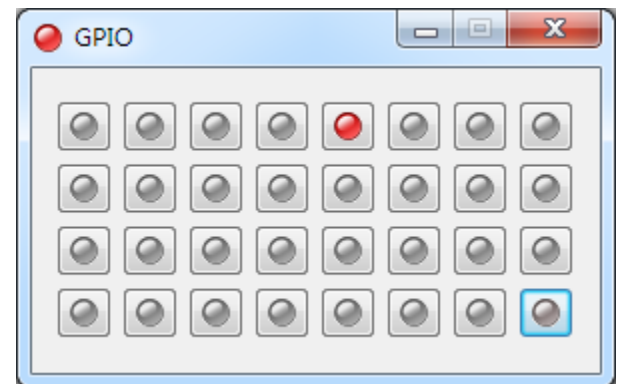


```
1 #define GPIO_BASE 0x98700000
2 #define GPIO_DATA_OUT (*((unsigned int *) (GPIO_BASE+0x00)))
3
4 #define LED_GREEN 0xAA55AA55
5 #define DELAY_TIME 100000
6
7 void toggleLED (unsigned int LEDMask);
8 void delay(unsigned int count);
9
10 int main()
11 {
12     GPIO_DATA_OUT=0;
13     while(1)
14     {
15         toggleLED(LED_GREEN);
16         delay(DELAY_TIME);
17     }
18     return 0;
19 }
20
```



```
11 unsigned int outdata=0x01;
12 GPIO_DATA_OUT=0;|
13
14 while(1)
15 {
16     while(outdata<0x80){
17         GPIO_DATA_OUT=outdata;
18         outdata = outdata<<1;
19         delay(DELAY_TIME);
20     }
21     GPIO_DATA_OUT=outdata;
22     delay(DELAY_TIME);
23     outdata = outdata>>1;
24
25     while(outdata>0x01){
26         GPIO_DATA_OUT=outdata;
27         outdata = outdata>>1;
28         delay(DELAY_TIME);
29     }
30 }
```

## 霹靂燈



```

#define GPIO_BASE 0x98700000
#define GPIO_DATA_OUT (*((unsigned int *)(GPIO_BASE+0x00))

#define DELAY_TIME 500000

void toggleLED (unsigned int LEDMask);
void delay(unsigned int count);

int main()
{
    unsigned int outdata=0x01;
    GPIO_DATA_OUT=0;

    while(1)
    {
        while(outdata<0x80){
            GPIO_DATA_OUT=outdata;
            outdata = outdata<<1;
            delay(DELAY_TIME);
        }
        GPIO_DATA_OUT=outdata;
        delay(DELAY_TIME);
        outdata = outdata>>1;

        while(outdata>0x01){
            GPIO_DATA_OUT=outdata;
            outdata = outdata>>1;
            delay(DELAY_TIME);
        }
    }
    return 0;
}

void toggleLED (unsigned int LEDMask)
{
    GPIO_DATA_OUT ^= LEDMask;
}

void delay(unsigned int count)
{
    for(;count>0;count--);
}

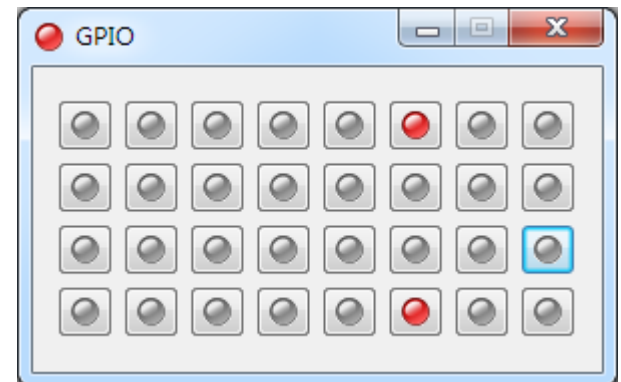
```

```

9 int main()
10 {
11     unsigned int outdata=0x01000001;
12     GPIO_DATA_OUT=0;
13
14     while(1)
15     {
16         while(outdata<0x80000080){
17             GPIO_DATA_OUT=outdata;
18             outdata = outdata<<1;
19             delay(DELAY_TIME);
20         }
21         GPIO_DATA_OUT=outdata;
22         delay(DELAY_TIME);
23         outdata = outdata>>1;
24
25         while(outdata>0x01000001){
26             GPIO_DATA_OUT=outdata;
27             outdata = outdata>>1;
28             delay(DELAY_TIME);
29         }
30     }
31     return 0;
32 }

```

## 1.4 霹靂燈



```

#define GPIO_BASE 0x98700000
#define GPIO_DATA_OUT (*((unsigned int *)(GPIO_BASE+0x00))

#define DELAY_TIME 500000

void toggleLED (unsigned int LEDMask);
void delay(unsigned int count);

int main()
{
    unsigned int outdata=0x01000001;
    GPIO_DATA_OUT=0;

    while(1)
    {
        while(outdata<0x80000080){
            GPIO_DATA_OUT=outdata;
            outdata = outdata<<1;
            delay(DELAY_TIME);
        }
        GPIO_DATA_OUT=outdata;
        delay(DELAY_TIME);
        outdata = outdata>>1;

        while(outdata>0x01000001){
            GPIO_DATA_OUT=outdata;
            outdata = outdata>>1;
            delay(DELAY_TIME);
        }
    }
    return 0;
}

void toggleLED (unsigned int LEDMask)
{
    GPIO_DATA_OUT ^= LEDMask;
}

void delay(unsigned int count)
{
    for(;count>0;count--);
}

```



```
21 while(1)
22 {
23     GPIO_DAT_PE = 0xFFFF;
24     delay1(1000000);
25     int i=0;
26     for(i=0;i<15;i++)
27         GPIO_DAT_PE = Data[i];
28         delay1(1000000);
29 }
30     GPIO_DAT_PE = 0xFFFF;
31     delay1(1000000);
32     int i=0;
33     for(i=0;i<15;i++)
34         GPIO_DAT_PE = Data[i]<<8+0xFF;
35         delay1(1000000);
36 return 0;
37 }
```
















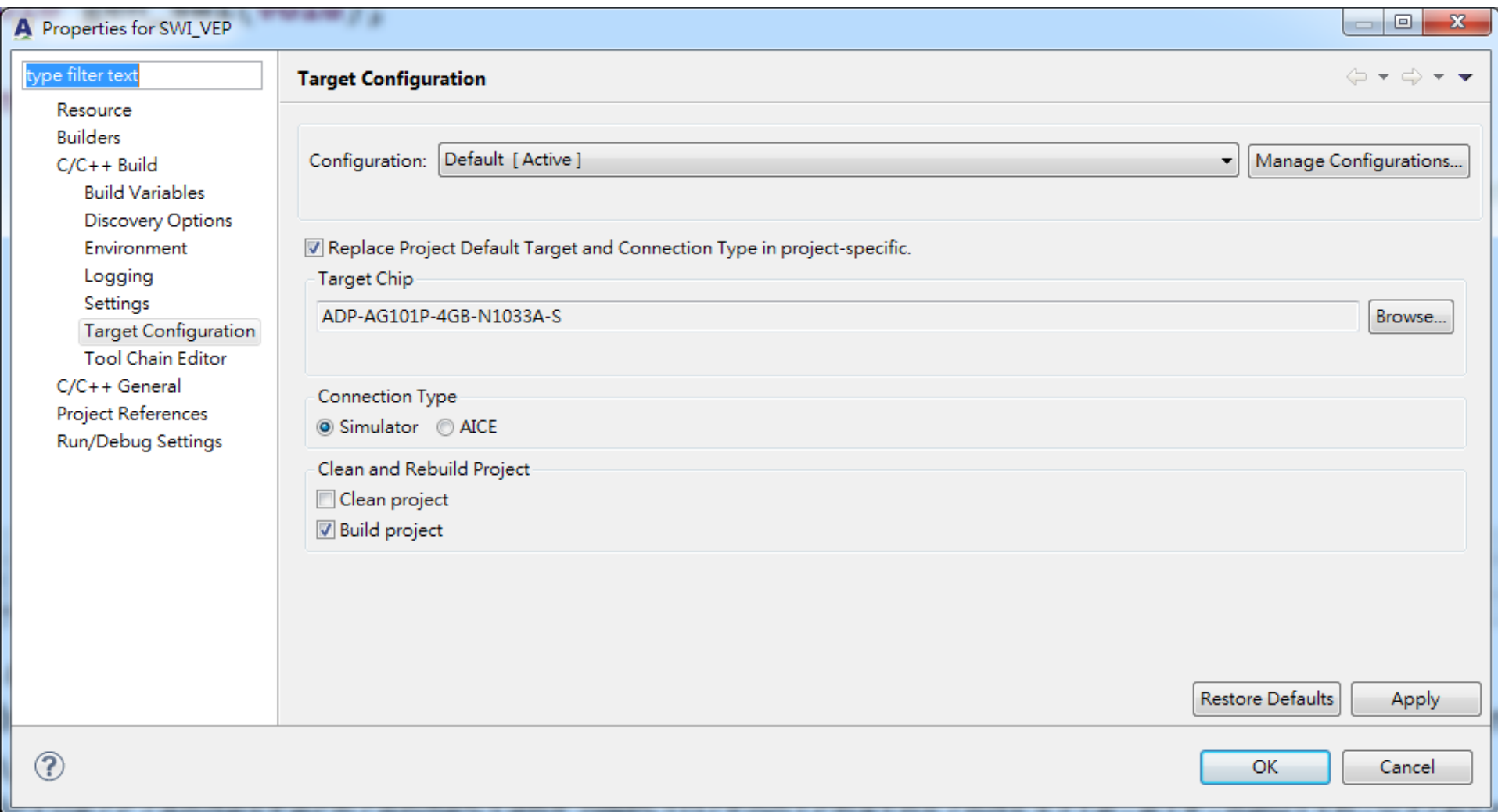
# Q3

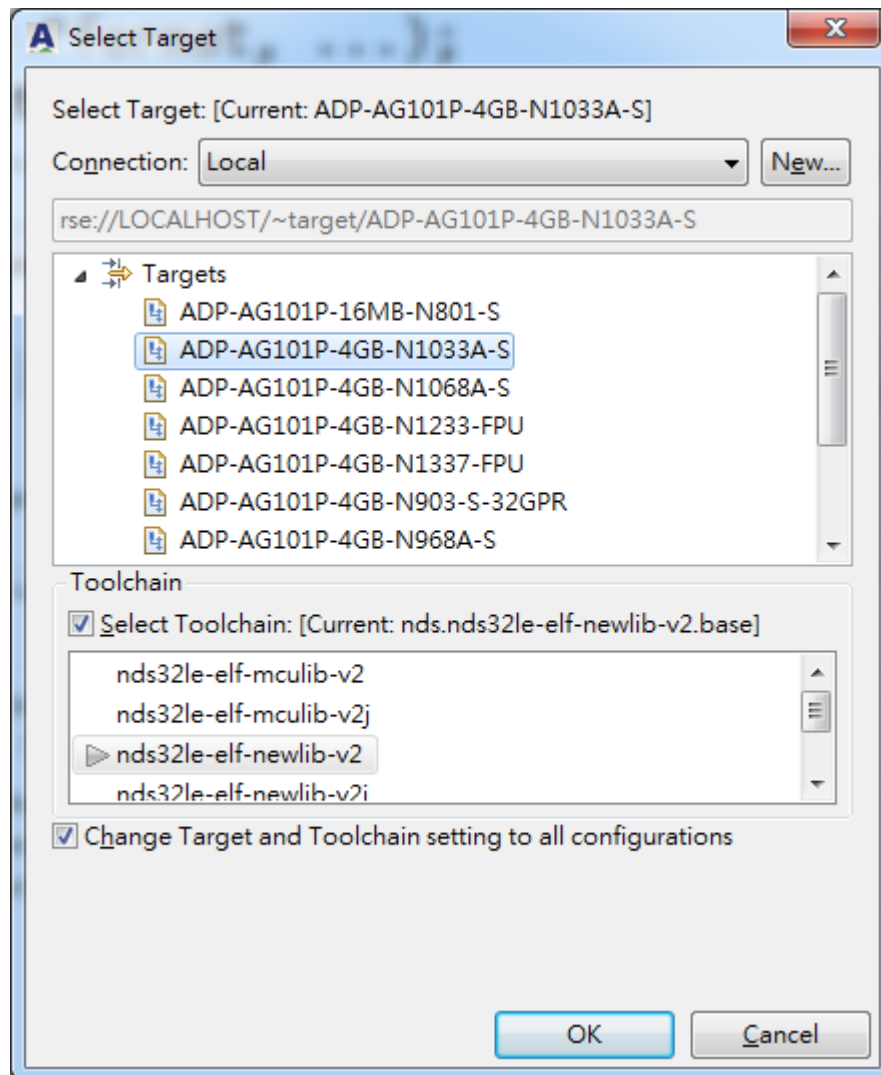
題號: 3

版本:1.0

考題類型	<input type="checkbox"/> Non-OS <input type="checkbox"/> Linux
實作平台	<input type="checkbox"/> ADP-XC5FF676 <input type="checkbox"/> ADPAG102-UP <input type="checkbox"/> ADP-WT95F064 <input checked="" type="checkbox"/> VEP (AndeSight™ STD v2.0)
環境設定	1. PC 主機：Host OS - Microsoft Windows XP。 2. Andes/AndeSight V2.0 Toolchains。
實作內容	在 AndeSight™整合開發環境，使用 VEP(Virtual Evaluation Platform) 功能，(1) 在 UART 傳送文字字串至終端機上顯示。(2)完整的呈現 Interrupt 步驟。 參考設定參數： Memory Map 在 URAT 的 “Base” 欄位輸入 “0x99600000”； “Size” 欄位輸入 “0x00000020”。
注意事項	1. 請將作答所產生之所有檔案儲存於資料夾 Q3\Ans 內。 2. 可依需要參考或使用 Q3\內各子資料夾預存之程式碼或資料。

- ▲  SWI\_VEP
  - ▷  Binaries
  - ▷  Includes
  - ▷  bin
  - ▷  include
  - ▷  obj
  - ▷  src
    -  exampleC.ld
    -  Makefile
    -  readme
    -  script.ld
    -  swi.vep
    -  swi.vep.bak





Preferences

type filter text

General

C/C++

Help

Install/Update

License

Remote Systems

Run/Debug

Target Management default setting

Server setting

TCF Agent Configurations

Team

Terminal

VEP Editor

Target Management default setting

User Settings for Target Management.

All of the settings in this page are global to the entire workspace except for those in Target Chip section.

Target Manager Internal TCP Port Range

Start Port9900

End Port49151

☐ Enable Simulator Multiple Instances

☒ Enable AICE plug-in

☐ Disable Simulator/AICE consoles

Connection Type

☒ Simulator☐ AICE

ICEman Misc Arguments

Simulator Misc Arguments

Vep2Conf Misc Arguments

Target Chip

Name	Chip	CPU	Simulator Config
ADP-AG101P-16MB-N801-S	ADP-AG101P-16MB-N801-S	[N801-S]	ADP-XC5-for-N801-S-16M.vep
ADP-AG101P-4GB-N1033A-S	ADP-AG101P-4GB-N1033A-S	[N1033A-S]	ADP-XC5-for-N1033A-S.vep
ADP-AG101P-4GB-N1068A-S	ADP-AG101P-4GB-N1068A-S	[N1068A-S]	ADP-XC5-for-N1068A-S.vep
ADP-AG101P-4GB-N1233-FPU	ADP-AG101P-4GB-N1233F-S	[N1233-FPU]	ADP-XC5-for-N1233-FPU.vep
ADP-AG101P-4GB-N1337-FPU	ADP-AG101P-4GB-N1337-FPU	[N1337-FPU]	ADP-XC5-for-N1337-FPU.vep
ADP-AG101P-4GB-N903-S-32GPR	ADP-AG101P-4GB-N903-S-32GPR	[N903-S]	ADP-XC5-for-N903A-S.vep

Front-end Selection

Setup System Calls

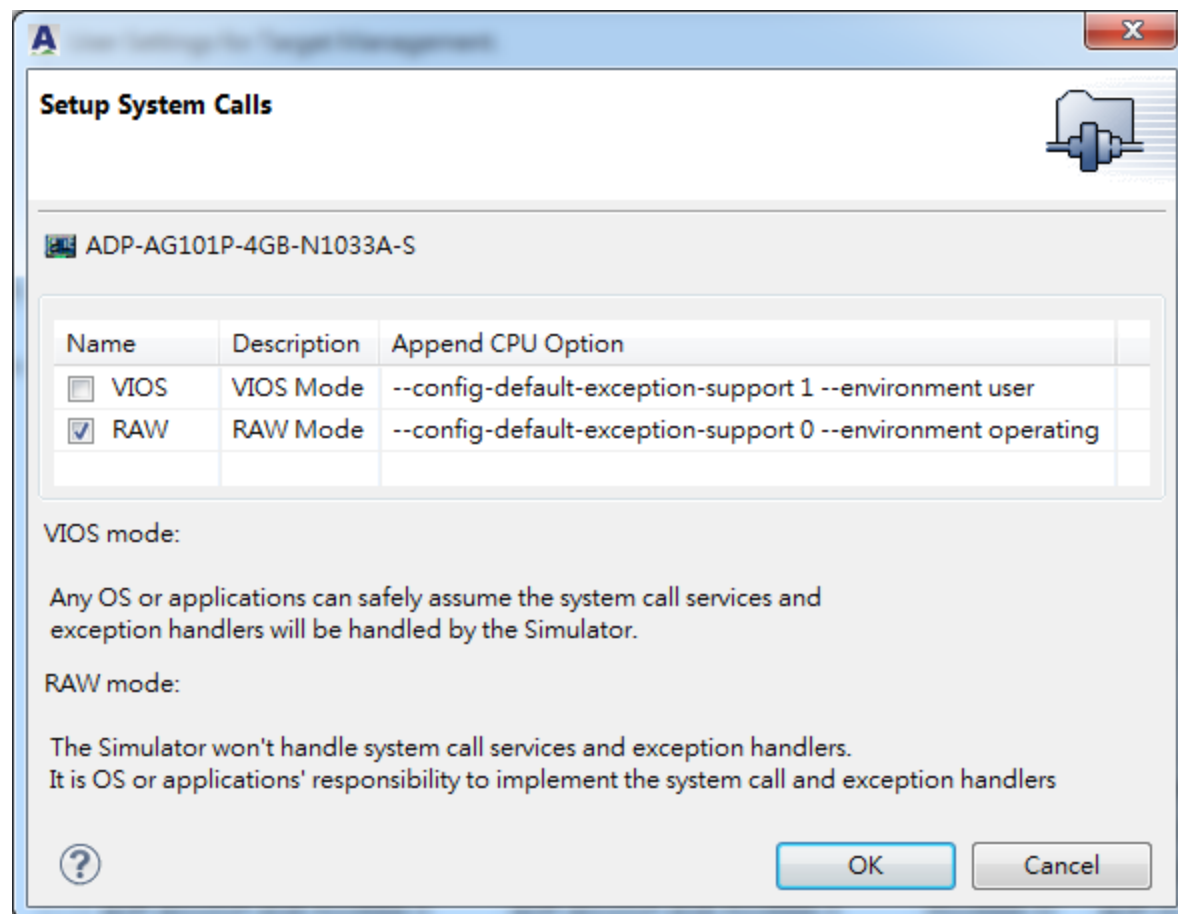
Restore Defaults

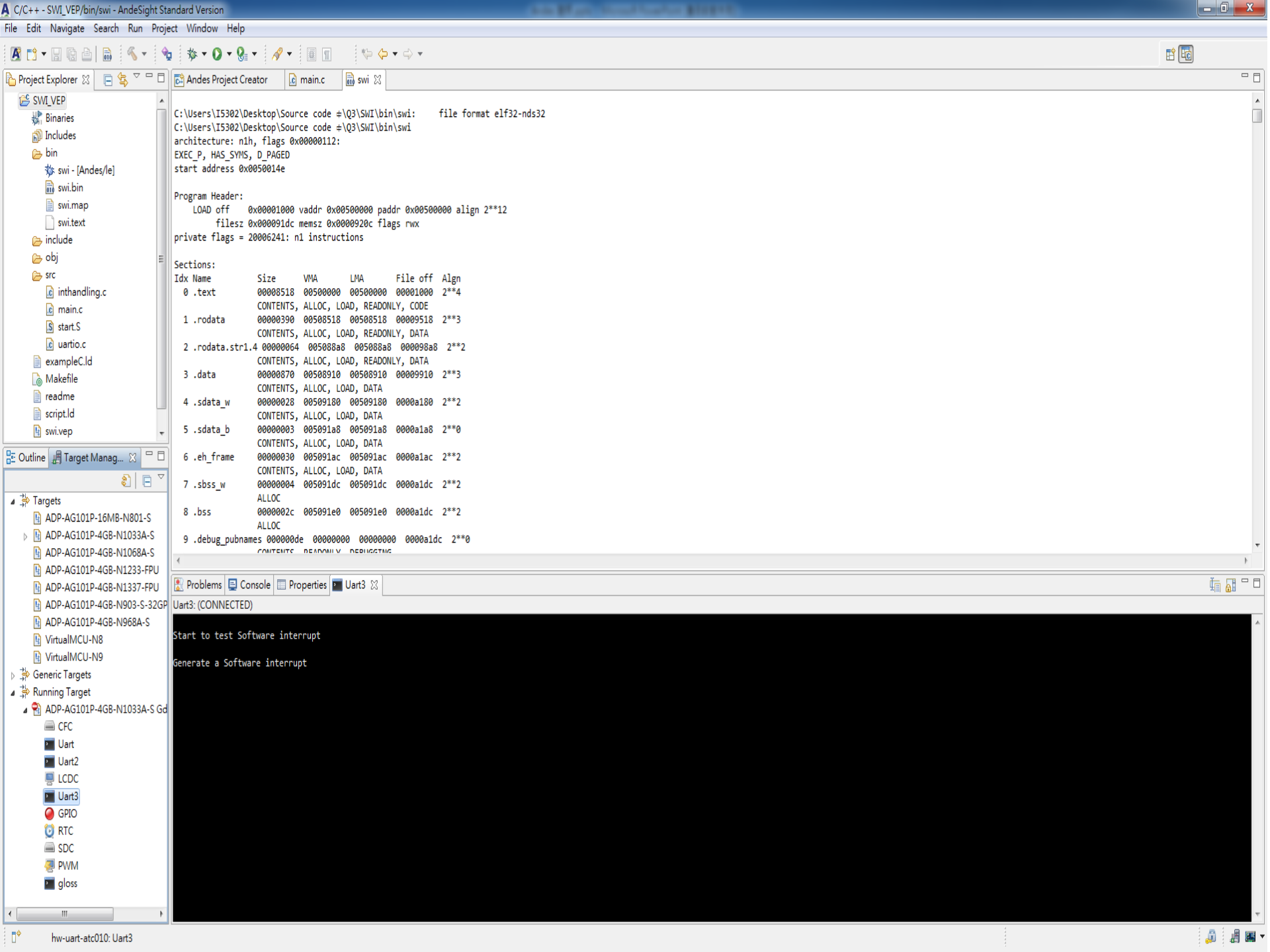
Apply

?

OK

Cancel





Uart3: (CONNECTED)

Start to test Software interrupt

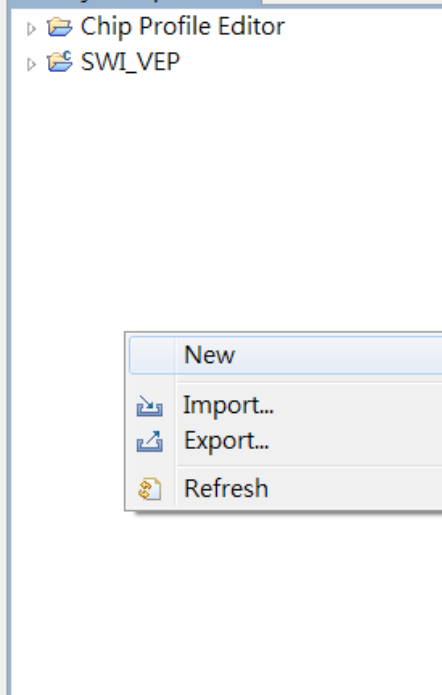
Generate a Software interrupt

|





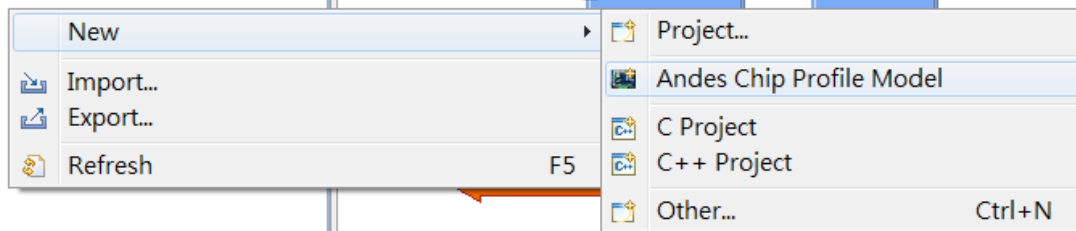
Project Explorer



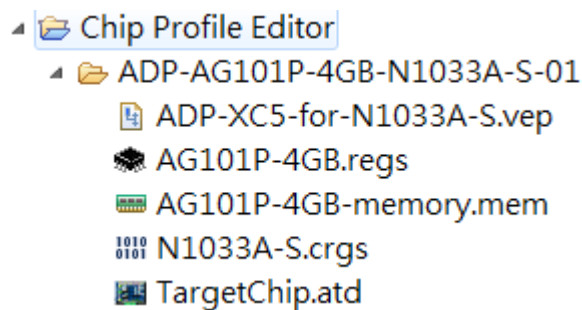
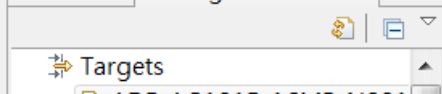
swi.vep

cpu






















Memory



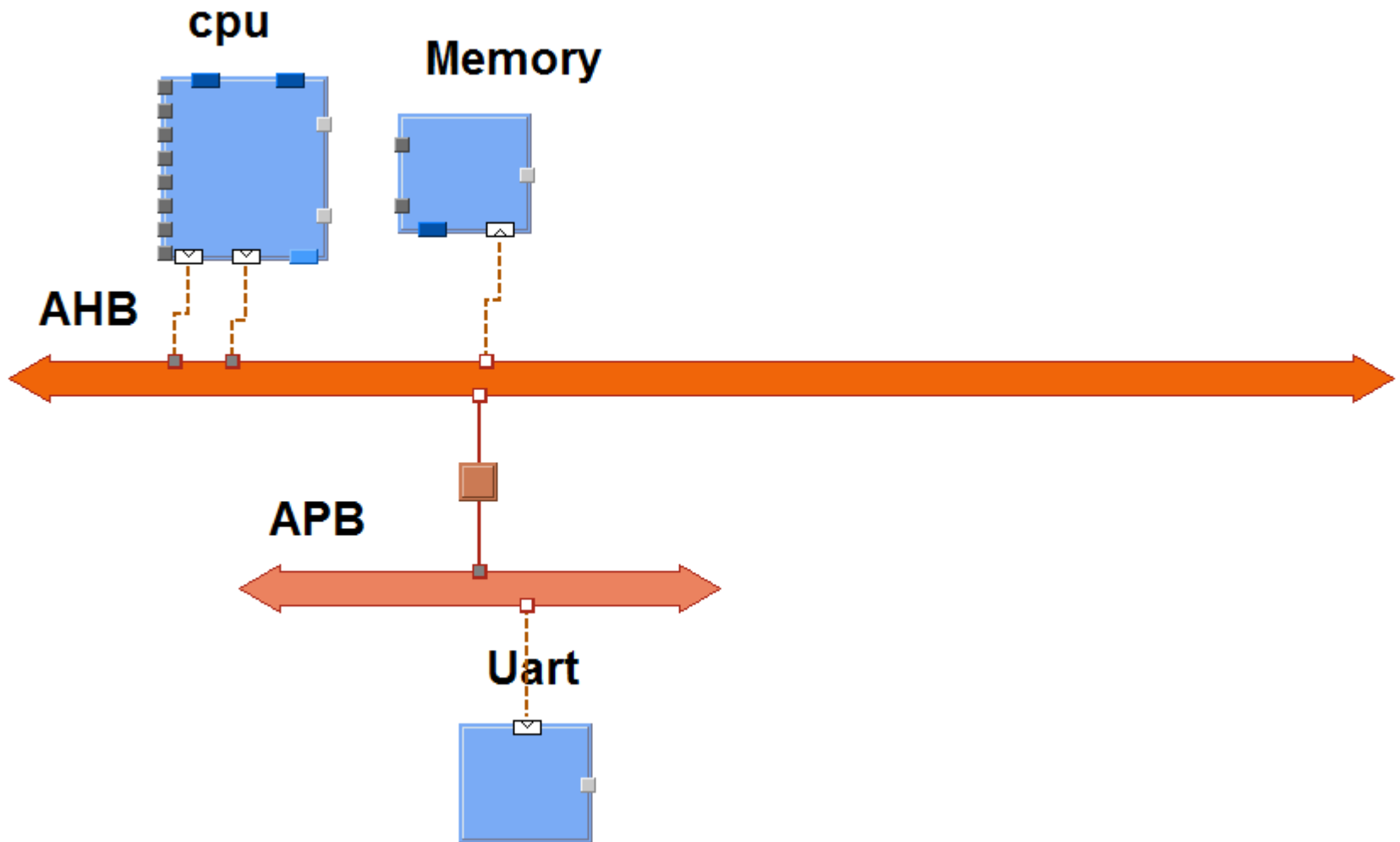
Outline Target Mana...



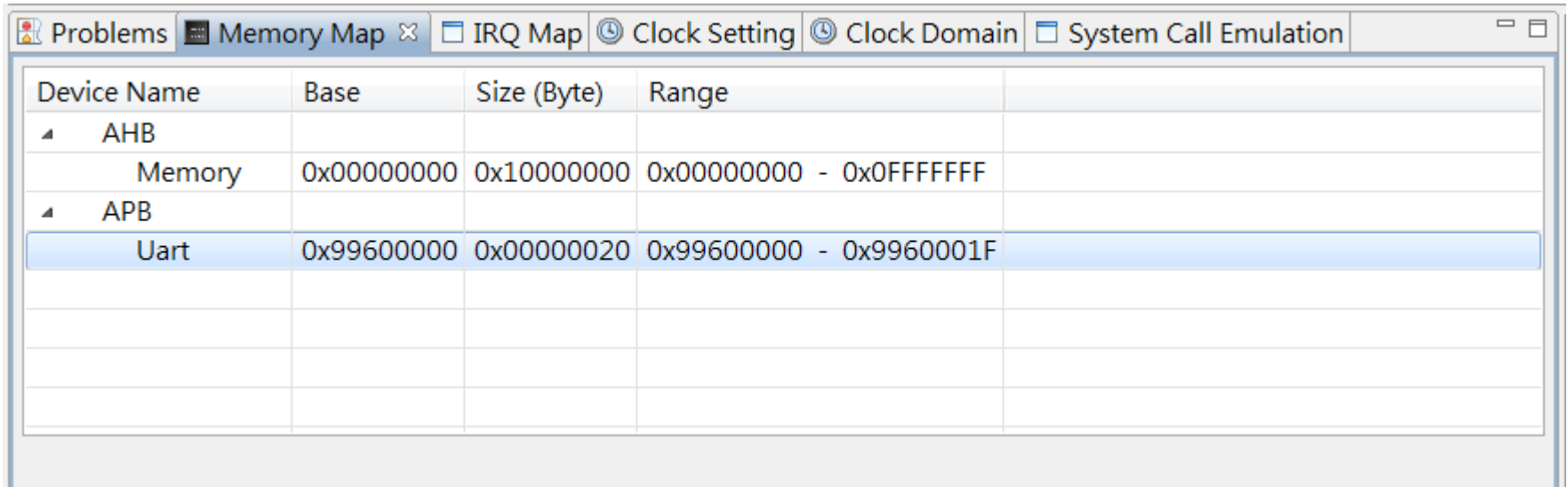
# 複製swi.vep到內建檔案

- ▲  Chip Profile Editor
  - ▲  ADP-AG101P-4GB-N1033A-S-01
    -  ADP-XC5-for-N1033A-S.vep
    -  AG101P-4GB.reg
    -  AG101P-4GB-memory.mem
    -  N1033A-S.crgs
    -  swi.vep
    -  TargetChip.atd
- ▲  SWI\_VEP
  - ▷  Binaries
  - ▷  Includes
  - ▷  bin
  - ▷  include
  - ▷  obj
  - ▷  src
  -  exampleC.ld
  -  Makefile
  -  readme
  -  script.ld
  -  swi.vep
  -  swi.vep.bak

# 新增Uart與排線

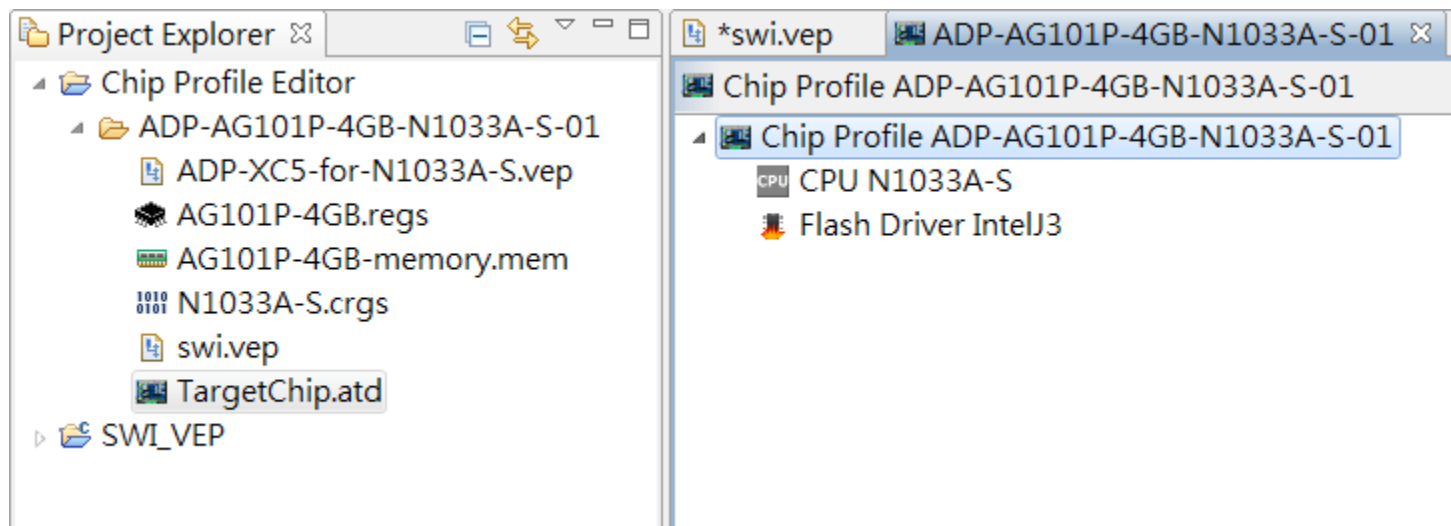


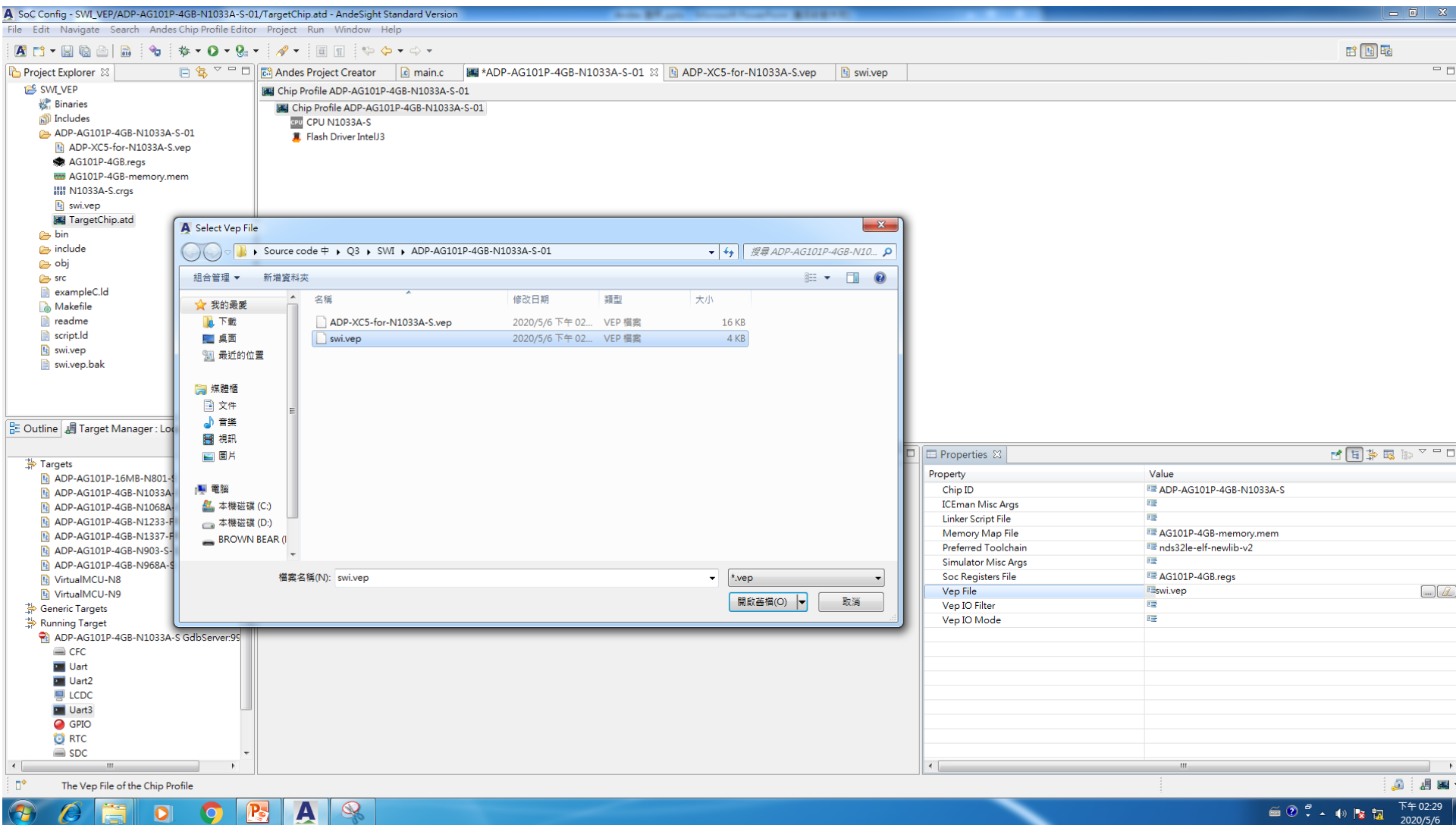
Memory Map 在URAT的  
"Base"欄位輸入"0x99600000"  
"Size"欄位輸入"0x00000020"



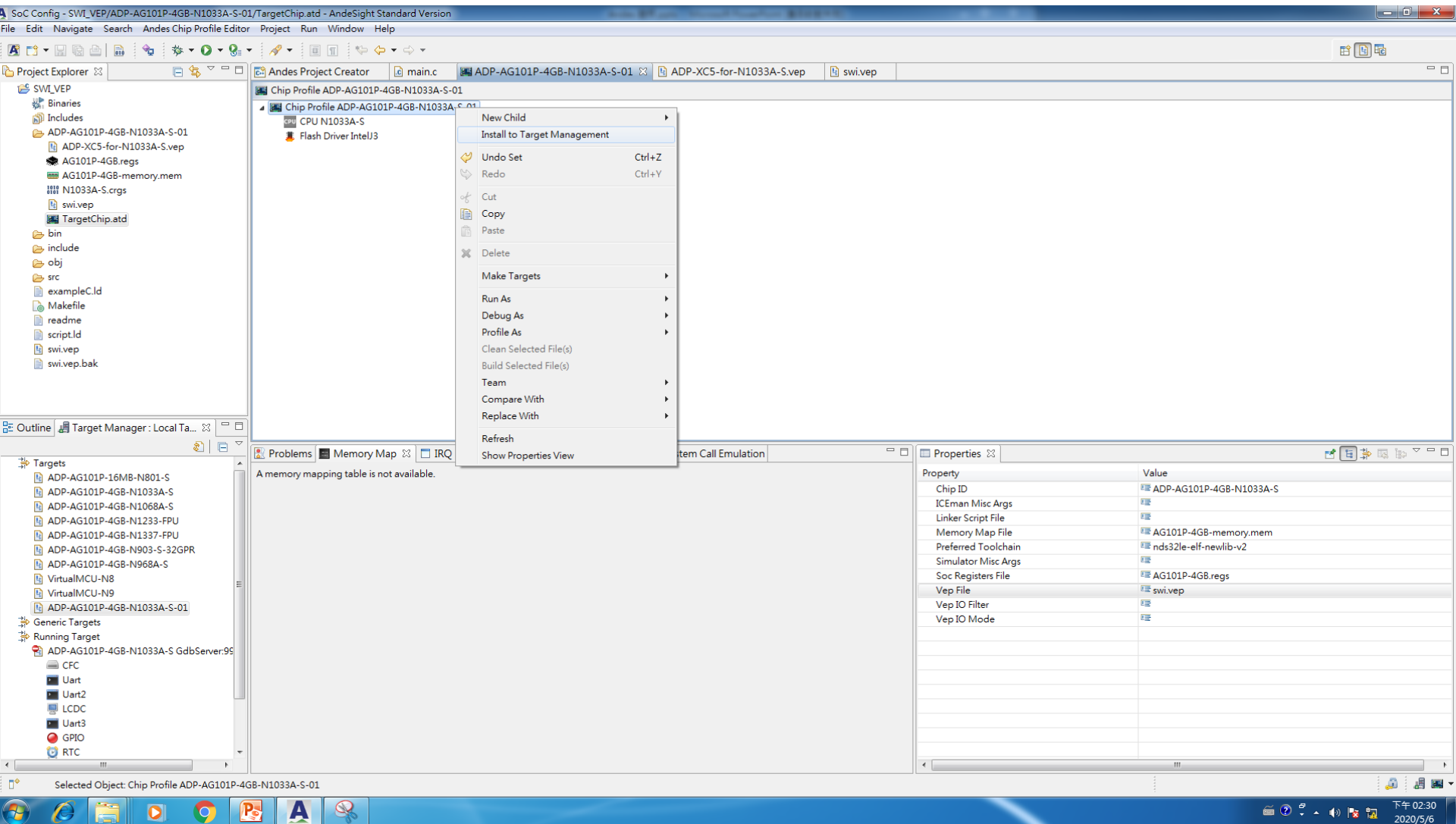
Device Name	Base	Size (Byte)	Range
▲ AHB			
Memory	0x00000000	0x10000000	0x00000000 - 0xFFFFFFFF
▲ APB			
Uart	0x99600000	0x00000020	0x99600000 - 0x9960001F

# 點選TargetChip.atd

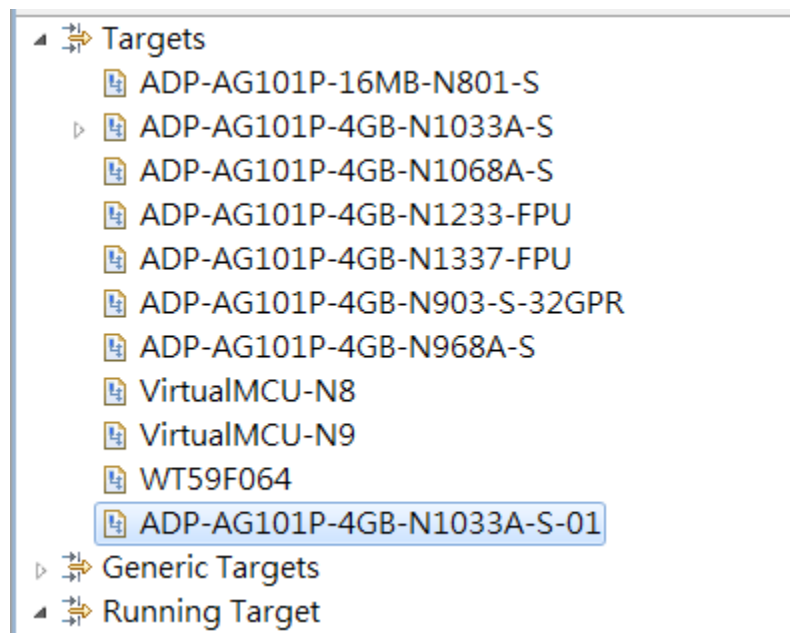




# 將更新後的目標版匯入

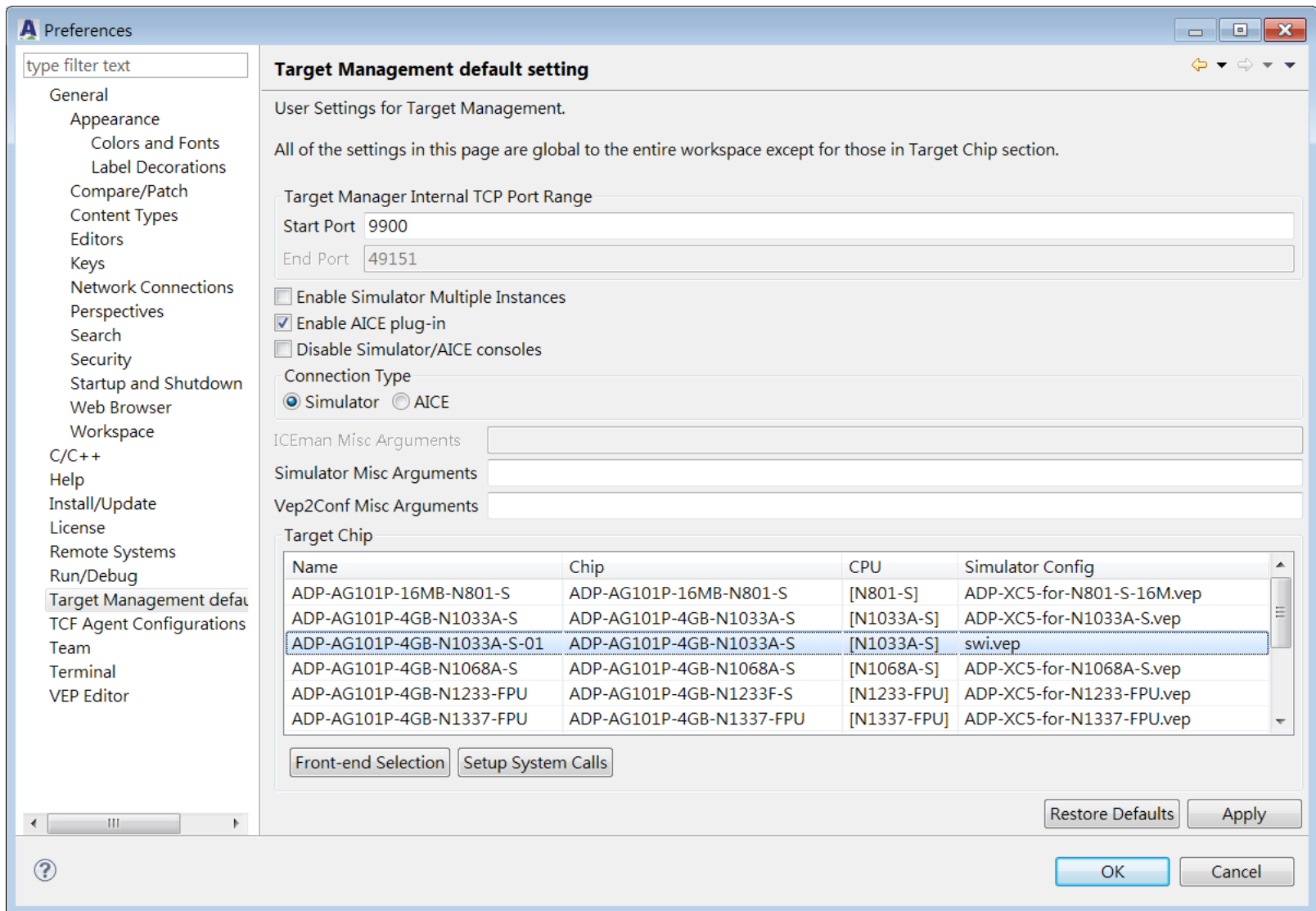


# 新增後即顯示於下





# 原SWI\_VEP需設定新的目標





## Setup System Calls



ADP-AG101P-4GB-N1033A-S-01

Name	Description	Append CPU Option
<input type="checkbox"/> VIOS	VIOS Mode	--config-default-exception-support 1 --environment user
<input checked="" type="checkbox"/> RAW	RAW Mode	--config-default-exception-support 0 --environment operating

VIOS mode:

Any OS or applications can safely assume the system call services and exception handlers will be handled by the Simulator.

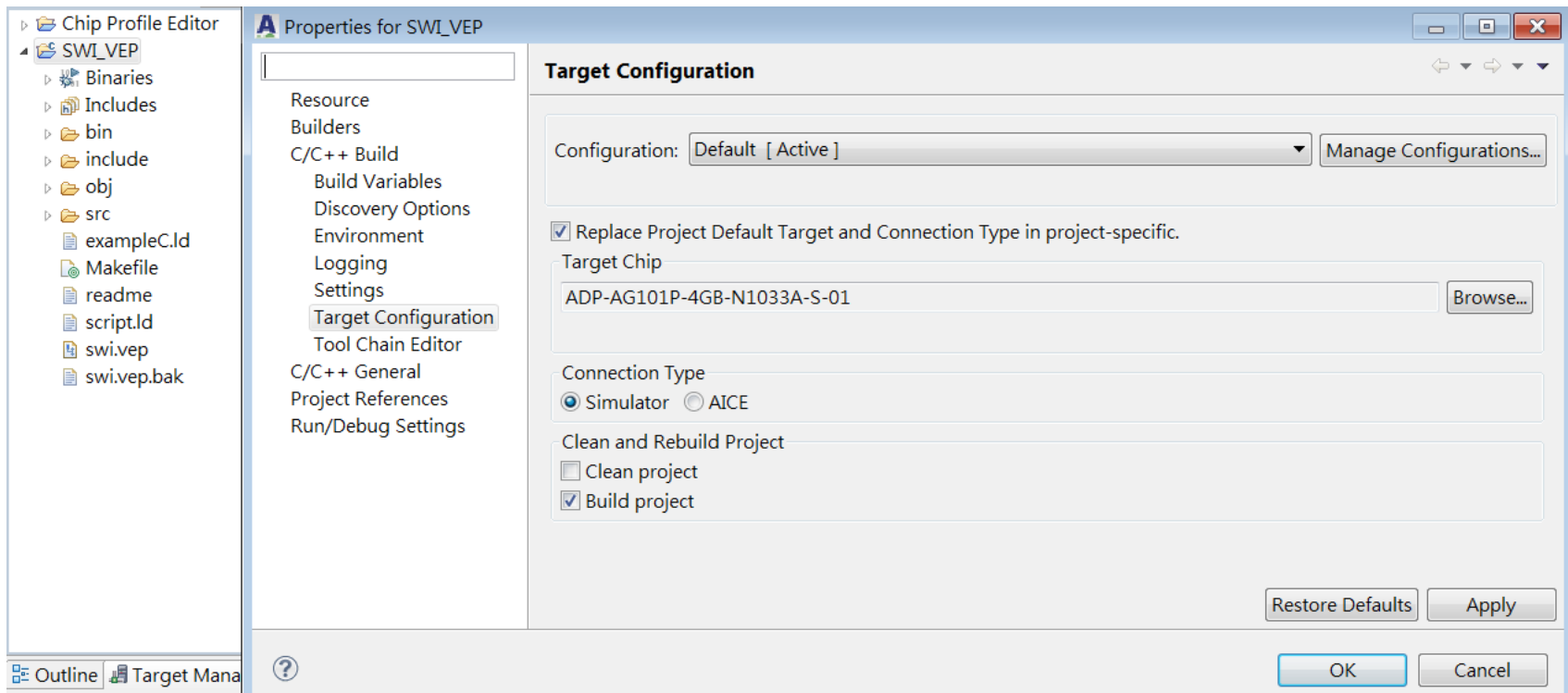
RAW mode:













The Simulator won't handle system call services and exception handlers.  
It is OS or applications' responsibility to implement the system call and exception handlers



OK

Cancel



-  ADP-AG101P-4GB-N1068A-S
-  ADP-AG101P-4GB-N1233-FPU
-  ADP-AG101P-4GB-N1337-FPU
-  ADP-AG101P-4GB-N903-S-32GPR
-  ADP-AG101P-4GB-N968A-S
-  VirtualMCU-N8
-  VirtualMCU-N9
-  WT59F064
- ▲  ADP-AG101P-4GB-N1033A-S-01
  - ▲  ADP-AG101P-4GB-N1033A-S-01 GdbServer:9902
    -  gloss
    -  Uart

```
Properties Console Uart x
Uart: (CONNECTED)

Start to test Software interrupt

Generate a Software interrupt

*****
* Enter software interrupt service routine *
*****

End of software interrupt testing
```

Q4