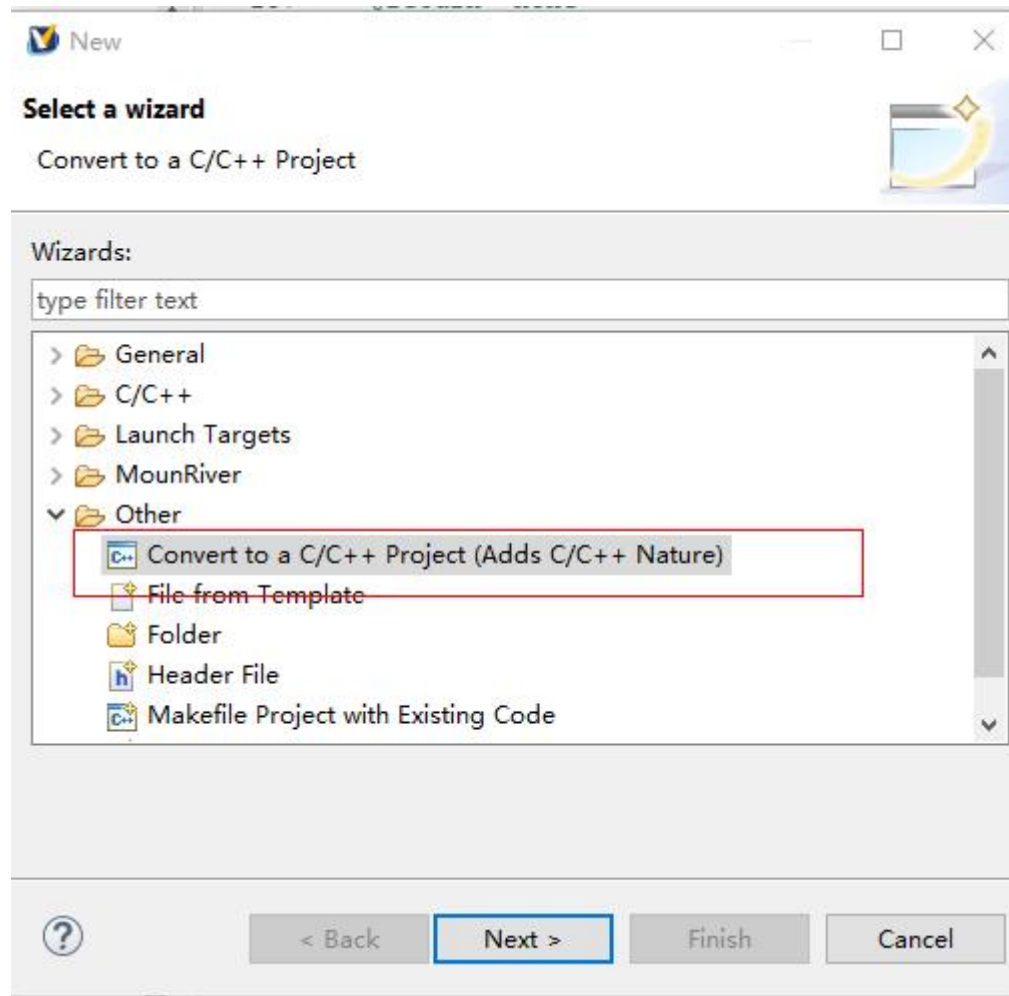


1: 右键要转换为 C++的工程 new->other,按下图选择



点击 next,按下图配置, 点击 FINSH。

Convert to a C/C++ project

The wizard adds C/C++ Nature to the selected projects to enable C/C++ Tools Support for them.



Candidates for conversion:

- Broadcaster
- CH32F103C6T6
- CH32F203C6T6
- CH32F203RCT6
- CH32V103C8T6
- CH32V203K6T6
- CH32V203RBT6
- CH32V307FBP6
- CH32V307FBP6++
- CH32V307printf
- CH32V307VCT6
- CH563
- CH563printf
- CH565M
- CH571D
- CH571F
- CH579
- CH579printf

Select All

Deselect All

Convert to C or C++

C Project

C++ Project

Project options

Specify project type

Project type:

- Executable
- Shared Library
- Static Library
- Makefile project

Toolchains:

- ARM Cross GCC
- RISC-V Cross GCC

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



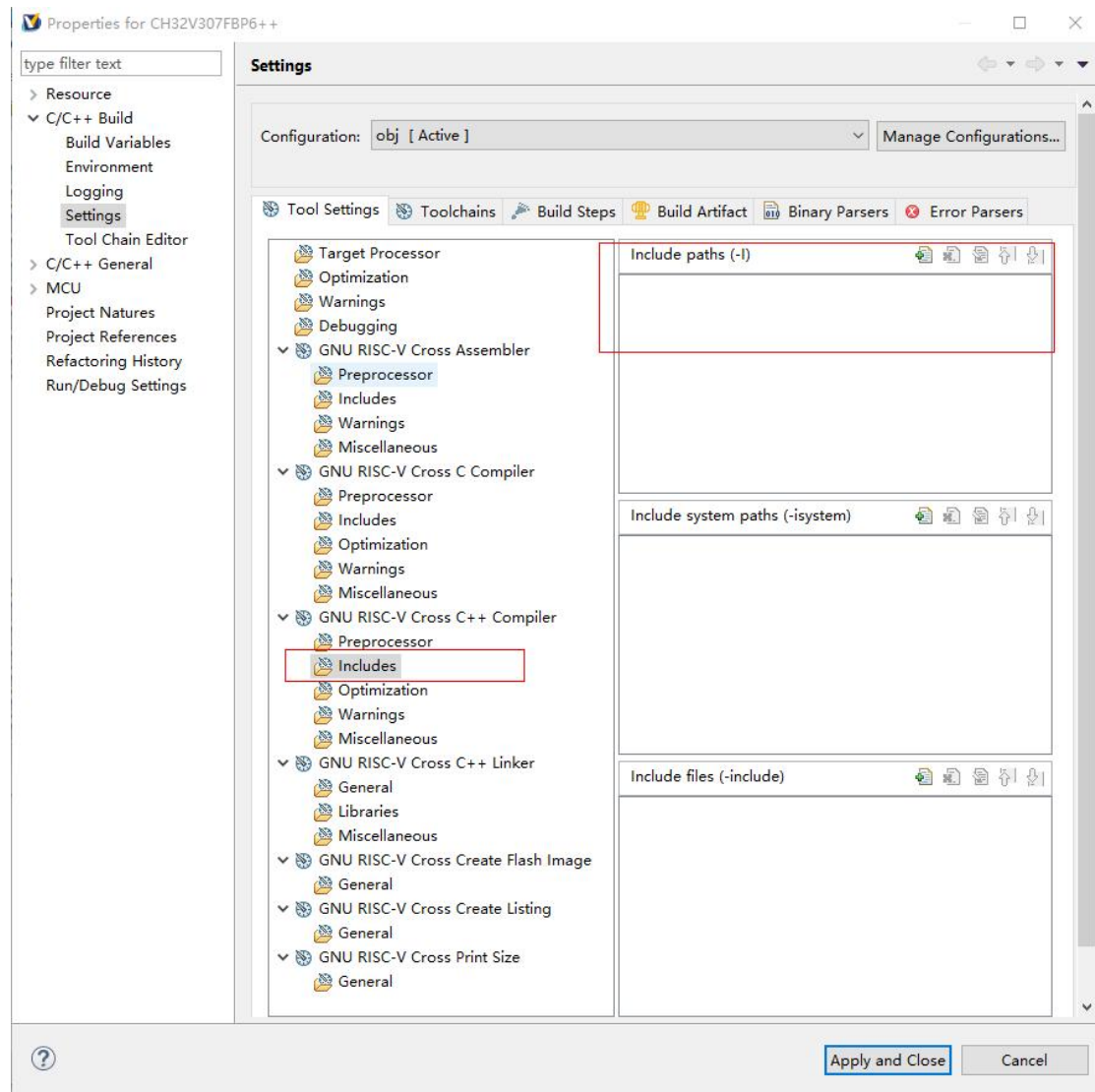
< Back

Next >

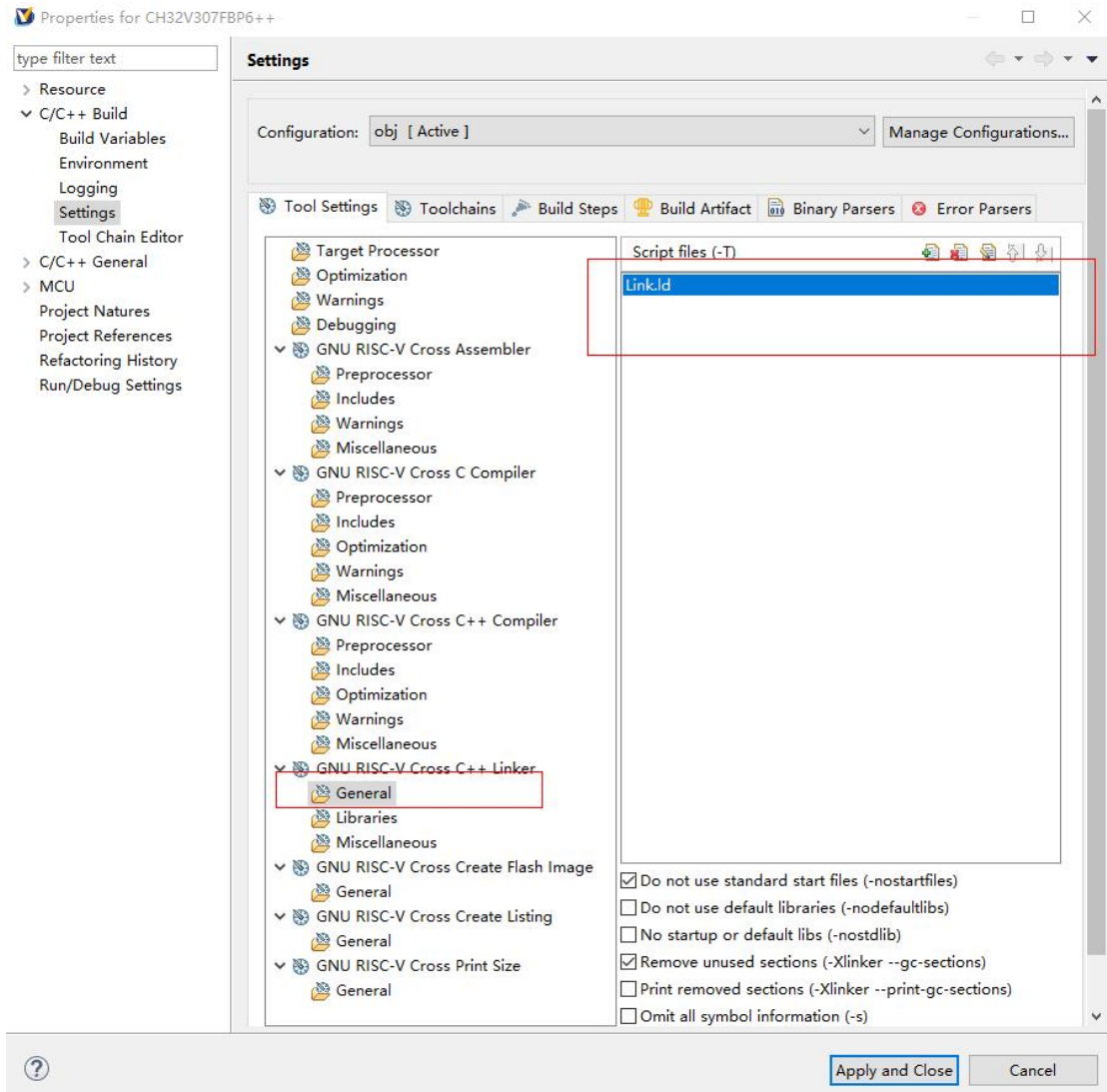
Finish

Cancel

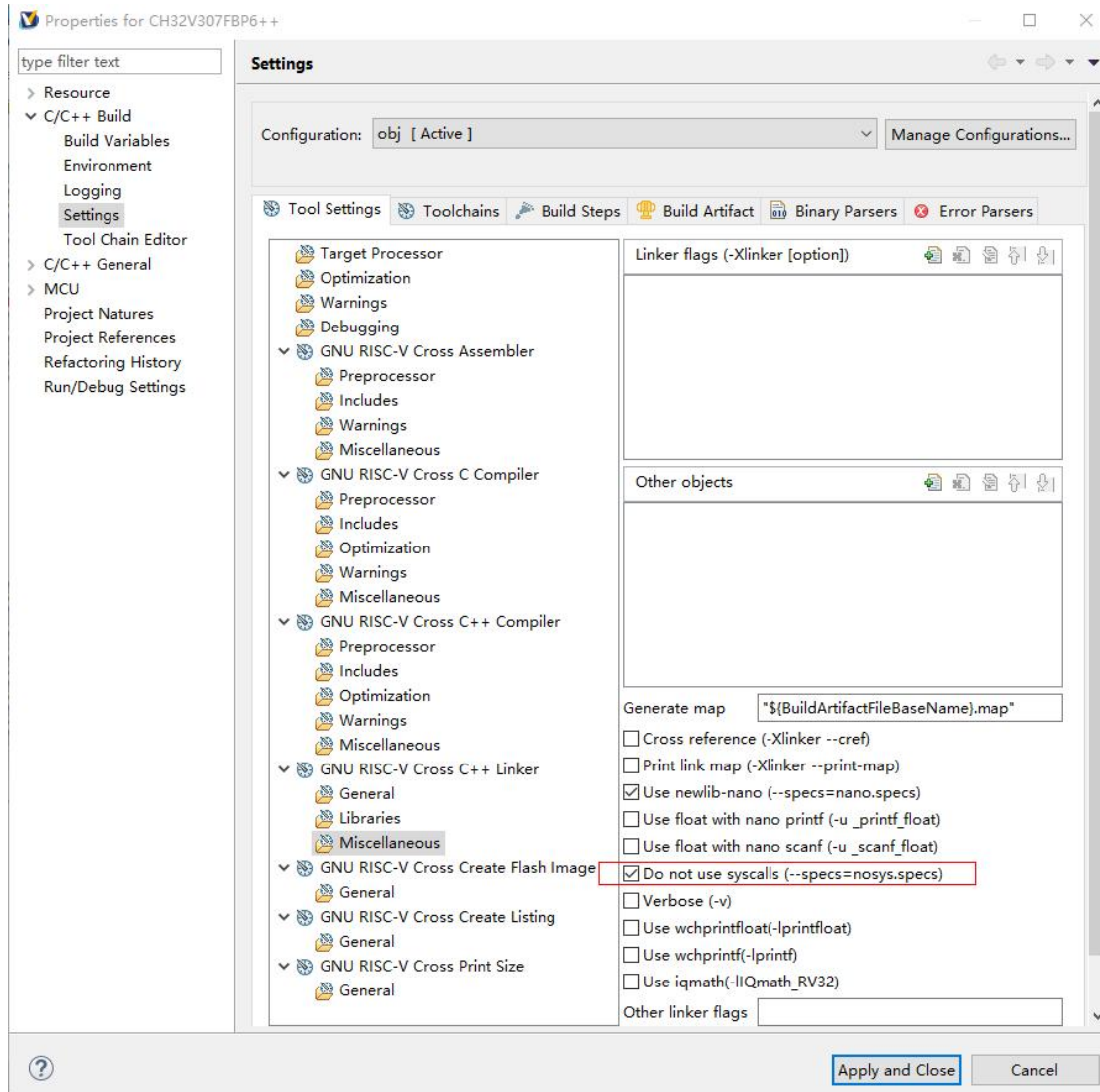
2 工程转换为 C++ 之后，原有的设置都会变成默认的，需要重新添加。



上图添加头文件路径。



上图添加链接脚本路径。



上图使用默认的桩函数，如果原有的工程使用了库，则转换之后库也需要重新添加。

3: 添加 C++ 初始化函数，在启动文件调用 main 函数之前，添加初始化函数，

```
1 | debug.c | startup_ch32v30x_D8C.S
370 /* Enable nested and hardware stack
371 li t0, 0x1b
372 csrw 0x804, t0
373
374 /* Enable floating point and inter
375 li t0, 0x6088
376 csrs mstatus, t0
377
378 la t0, _vector_base
379 ori t0, t0, 3
380 csrw mtvec, t0
381
382 la a0, __libc_fini_array
383 call atexit
384 call __libc_init_array
385
386 jal SystemInit
387 la t0, main
388 csrw mepc, t0
389 mret
390
391
392
```

还需要两个空函数，必须声明在.c 后缀的文件中

```
debug.c | startup_ch32v30x_D8C.S
172 /*
173 * @fn      _sbrk
174 *
175 * @brief   Change the spatial position of d
176 *
177 * @return  size: Data length
178 */
179 void *_sbrk(ptrdiff_t incr)
180 {
181     extern char _end[];
182     extern char _heap_end[];
183     static char *curbrk = _end;
184
185     if ((curbrk + incr < _end) || (curbrk +
186     return NULL - 1;
187
188     curbrk += incr;
189     return curbrk - incr;
190 }
191
192 void _fini() {}
193 void _init() {}
194
```

4: 此时工程文件环境已经配置好了, 后缀.cpp 的文件都会调用 C++编译器编译, 其他的就是 C 与 C++互相调用的方法了。