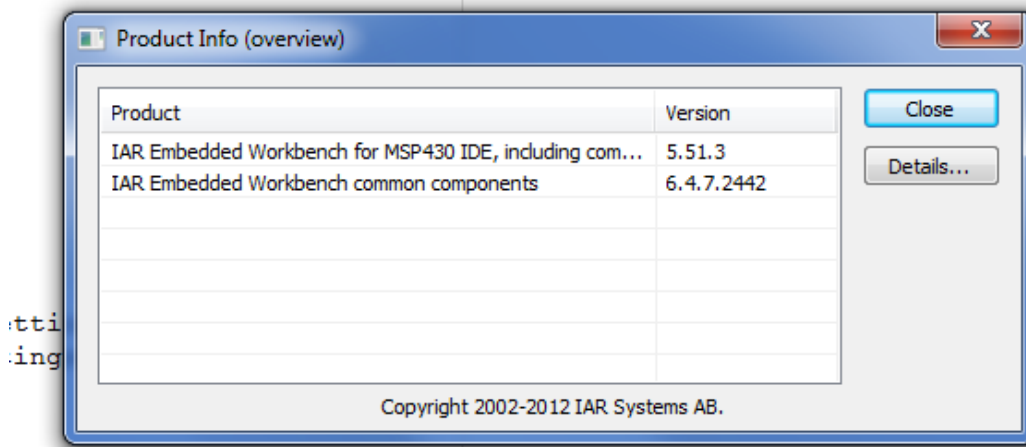
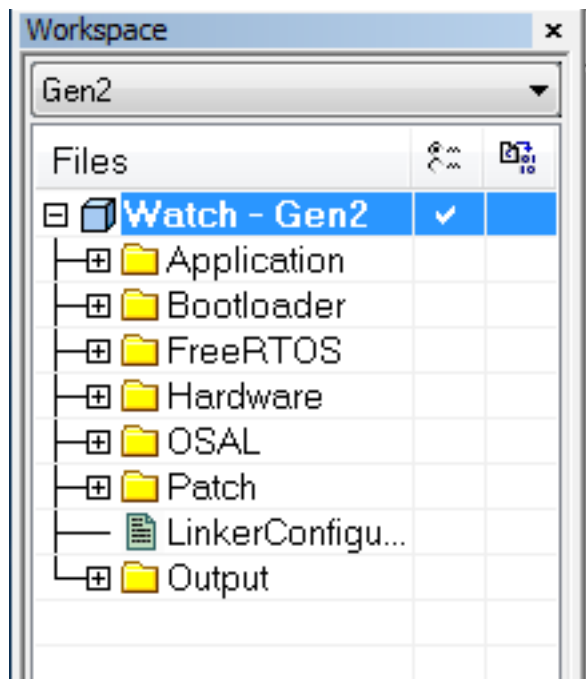


Steps at attempting to link MetaWatch-Gen2

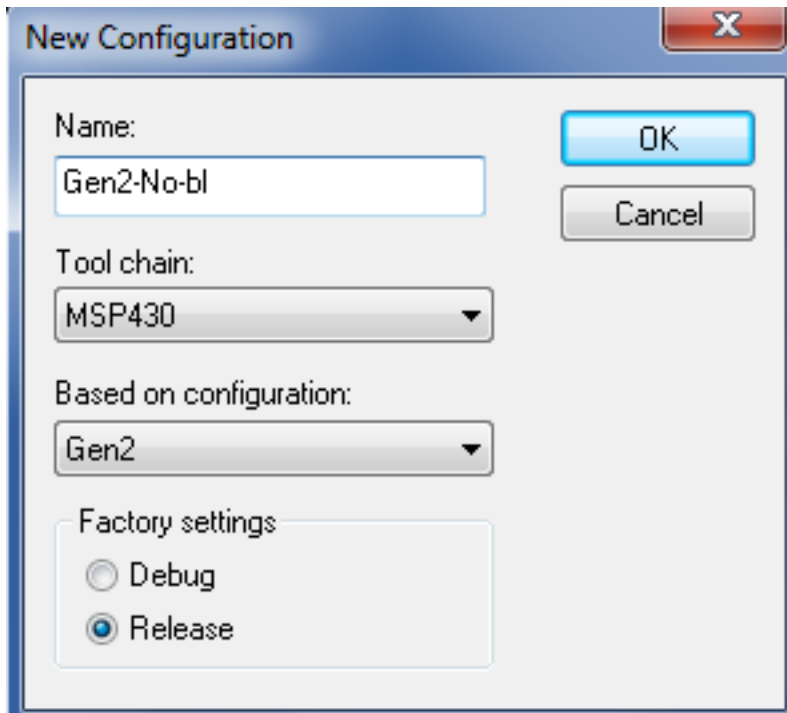
Step 1: check of IAR type:



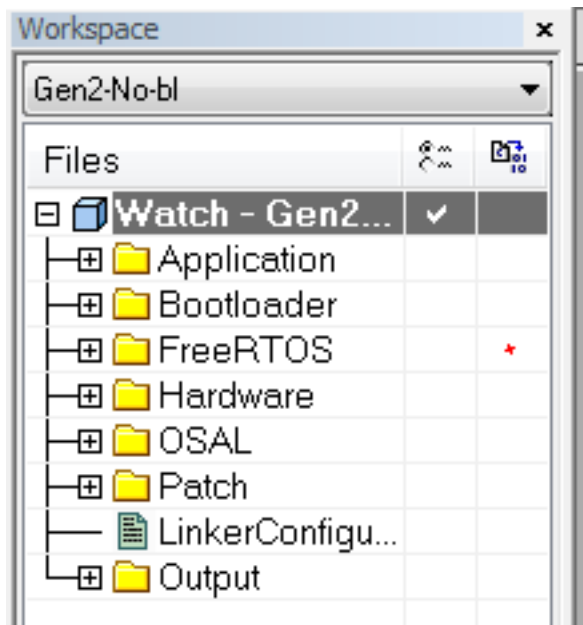
Step 2: Load MetaWatch.eww



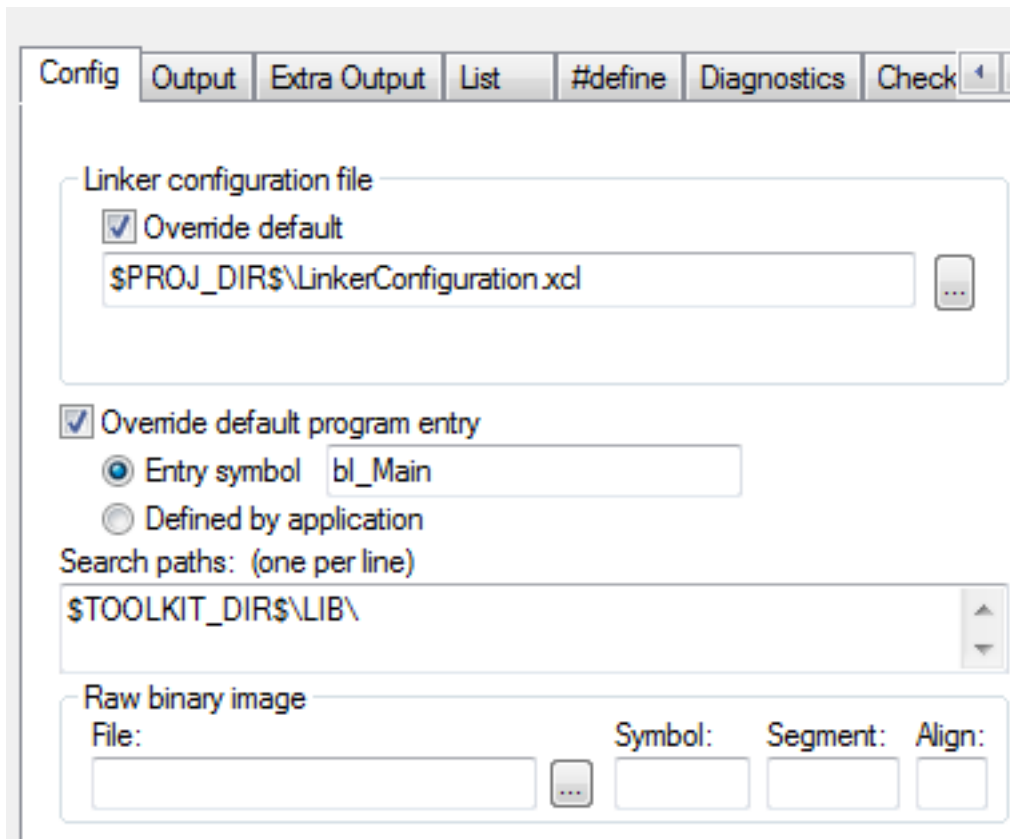
Step 3: Create new Configuration based upon Gen2



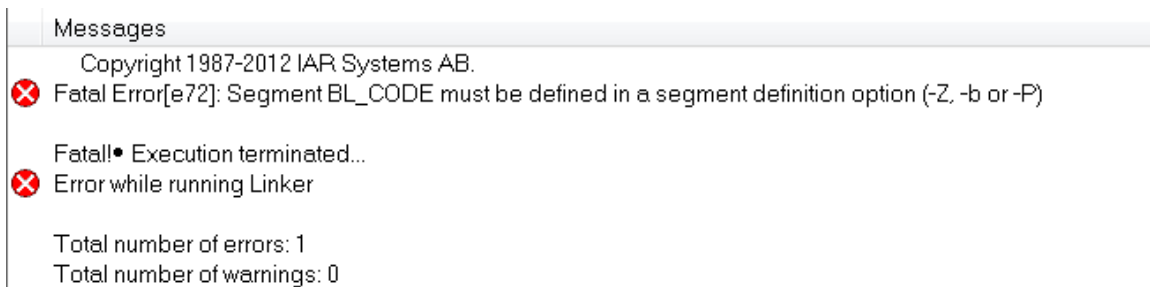
Step 4: Select Ge2-No-bl:



Step 5 change linker configuration file to LinkerConfiguration.xcl



Step 6: Build project:



Linker error.

Step 7: Search project for BL_CODE

bl_boot.h:

```
// macro to assign bootloader functions to bootloader segment (BL_CODE)
#define _BL_CODE_SEG _Pragma("location=\"BL_CODE\"")
```

Step 8:

Search for bl_boot.h:

```
#ifndef BOOTLOADER
```

```
/* for image_data_t definiton */  
#include "bl_boot.h"
```

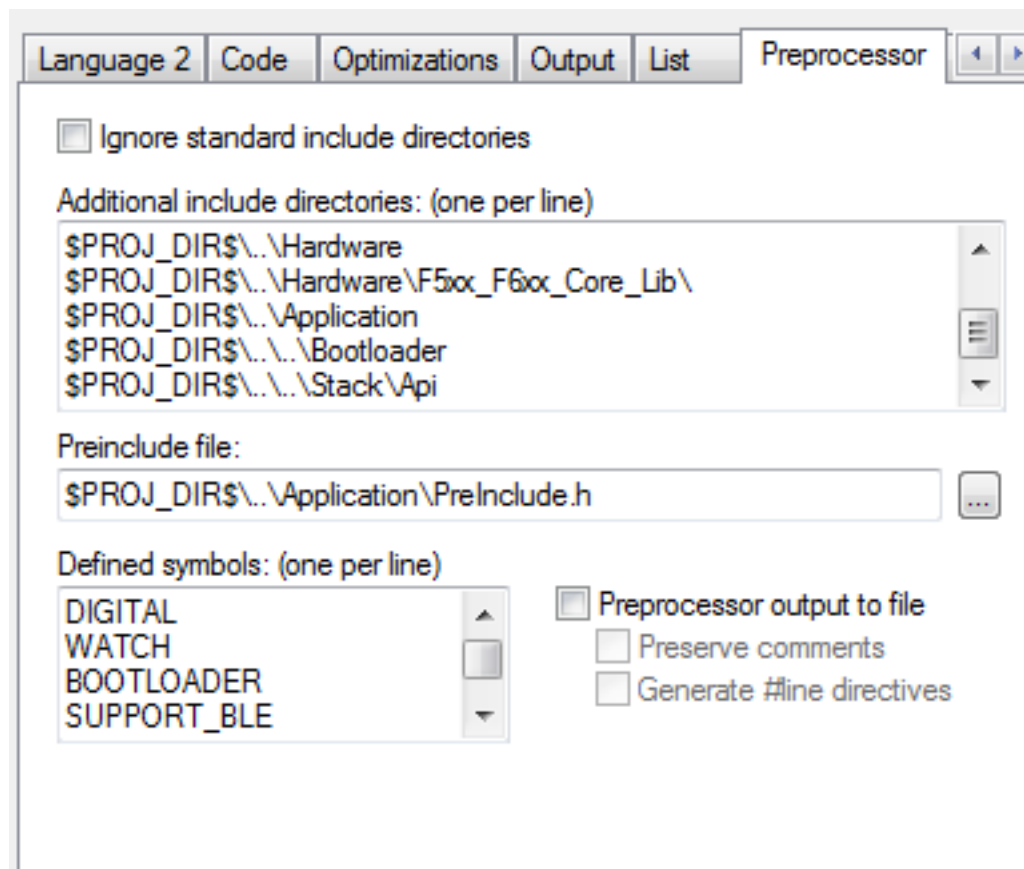
Step 9:

Search for BOOTLOADER:

Path	Line	String
C:\Users\Martin Bruner\Desktop\MetaWatch-Gen2-master\Watch\Application\DebugUart.c	242	#ifndef BOOTLO
C:\Users\Martin Bruner\Desktop\MetaWatch-Gen2-master\Watch\Application\IdleTask.c	174	#ifndef BOOTLO
C:\Users\Martin Bruner\Desktop\MetaWatch-Gen2-master\Watch\Application\LcdBuffer.c	76	#if BOOTLOAD
C:\Users\Martin Bruner\Desktop\MetaWatch-Gen2-master\Watch\Application\LcdBuffer.c	688	#if BOOTLOAD
C:\Users\Martin Bruner\Desktop\MetaWatch-Gen2-master\Watch\Application\LcdDisplay.c	170	#ifndef BOOTLO
C:\Users\Martin Bruner\Desktop\MetaWatch-Gen2-master\Watch\Application\LcdDisplay.c	1058	#if BOOTLOAD
C:\Users\Martin Bruner\Desktop\MetaWatch-Gen2-master\Watch\Application\main.c	34	#ifndef BOOTLO
C:\Users\Martin Bruner\Desktop\MetaWatch-Gen2-master\Watch\Application\main.c	89	#endif //BOOTL
C:\Users\Martin Bruner\Desktop\MetaWatch-Gen2-master\Watch\Hardware\hal_analog_display.c	117	#ifndef BOOTLO
C:\Users\Martin Bruner\Desktop\MetaWatch-Gen2-master\Watch\Hardware\hal_oled.c	115	#ifndef BOOTLO
C:\Users\Martin Bruner\Desktop\MetaWatch-Gen2-master\Watch\Hardware\hal_software_fill.c	140	#ifndef BOOTLO
C:\Users\Martin Bruner\Desktop\MetaWatch-Gen2-master\Watch\Hardware\hal_software_fill.c	154	#ifndef BOOTLO

Step 10:

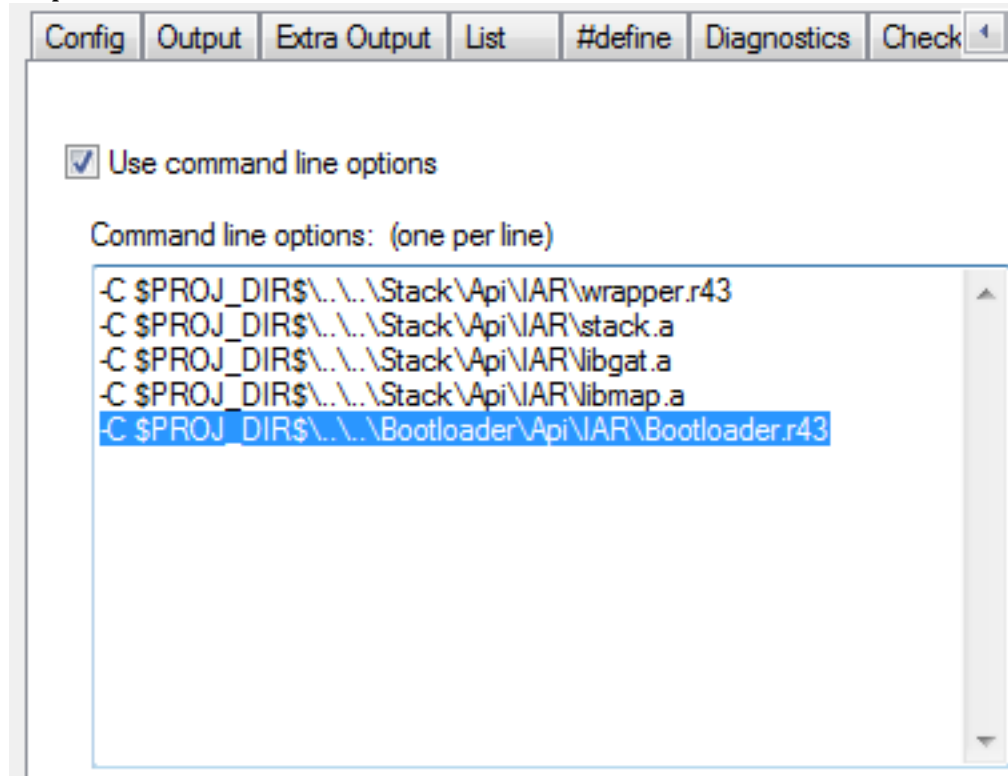
Found no location where BOOTLOADER was defined so looked at project options:



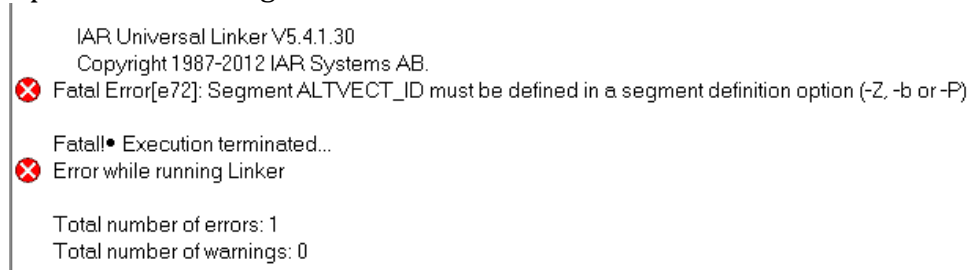
Note in step 9, there were both `#ifdef` and `#ifBOOTLOADER`. Question is whether or not defining symbol in options also sets symbol true. I think all the `#ifBOOTLOADER`'s should be changed to `#ifdef BOOTLOADER`'s.

Step 11: Removed `BOOTLOADER` symbol and rebuilt:
Same linker error.

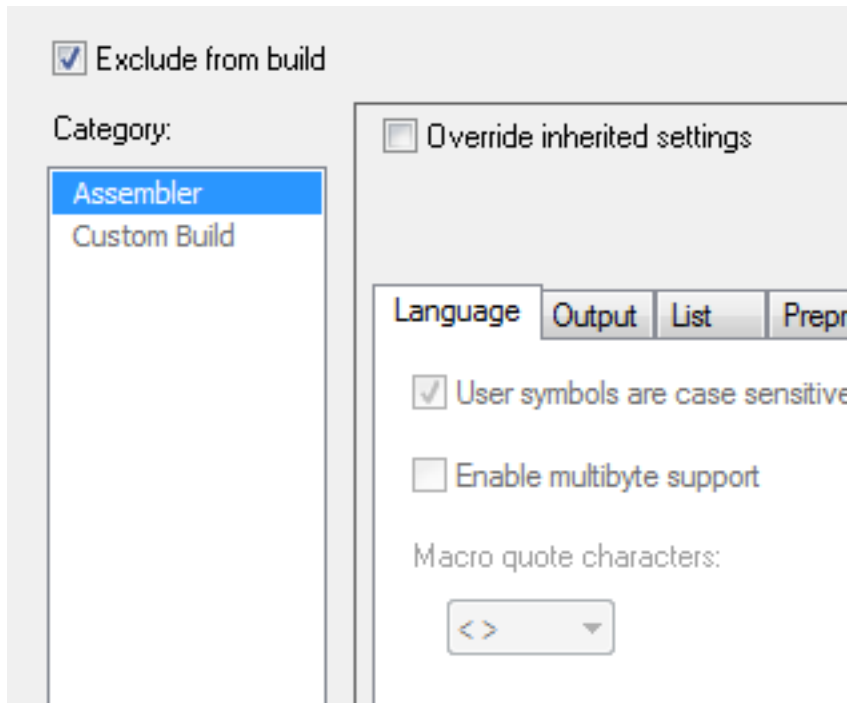
Step 11: removed reference to `Bootloader.r43` and rebuilt:



Operation resulting in a linker error:



Step 12: Excluded `AltVectS43` and `cstartup.s43` from build. And rebuilt:



Result: New linker error: undefined external bl_Main

Warning[w60]: The entry point label "bl_Main" was not found in any input file. The image will not have an entry point.

Error[e46]: Undefined external "bl_Main" referred in ?ABS_ENTRY_MOD ()

184 315 bytes of CODE memory (+ 26 798 range fill)

16 039 bytes of DATA memory (+ 339 absolute)

51 035 bytes of CONST memory (+ 1 range fill)

Errors: 1

Warnings: 1

Error while running Linker

Step 13: remove "Override default program entry" and rebuilt:

Config Output Extra Output List #define Diagnostics Check

Linker configuration file

☒ Override default

\$PROJ_DIR\$\LinkerConfiguration.xcl

☐ Override default program entry

☒ Entry symbol

☐ Defined by application

Search paths: (one per line)

\$TOOLKIT_DIR\$\LIB\

Raw binary image

File:	Symbol:	Segment:	Align:
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

This results in a clean build and the watch can be debugged. However, there is still several references to missing files.