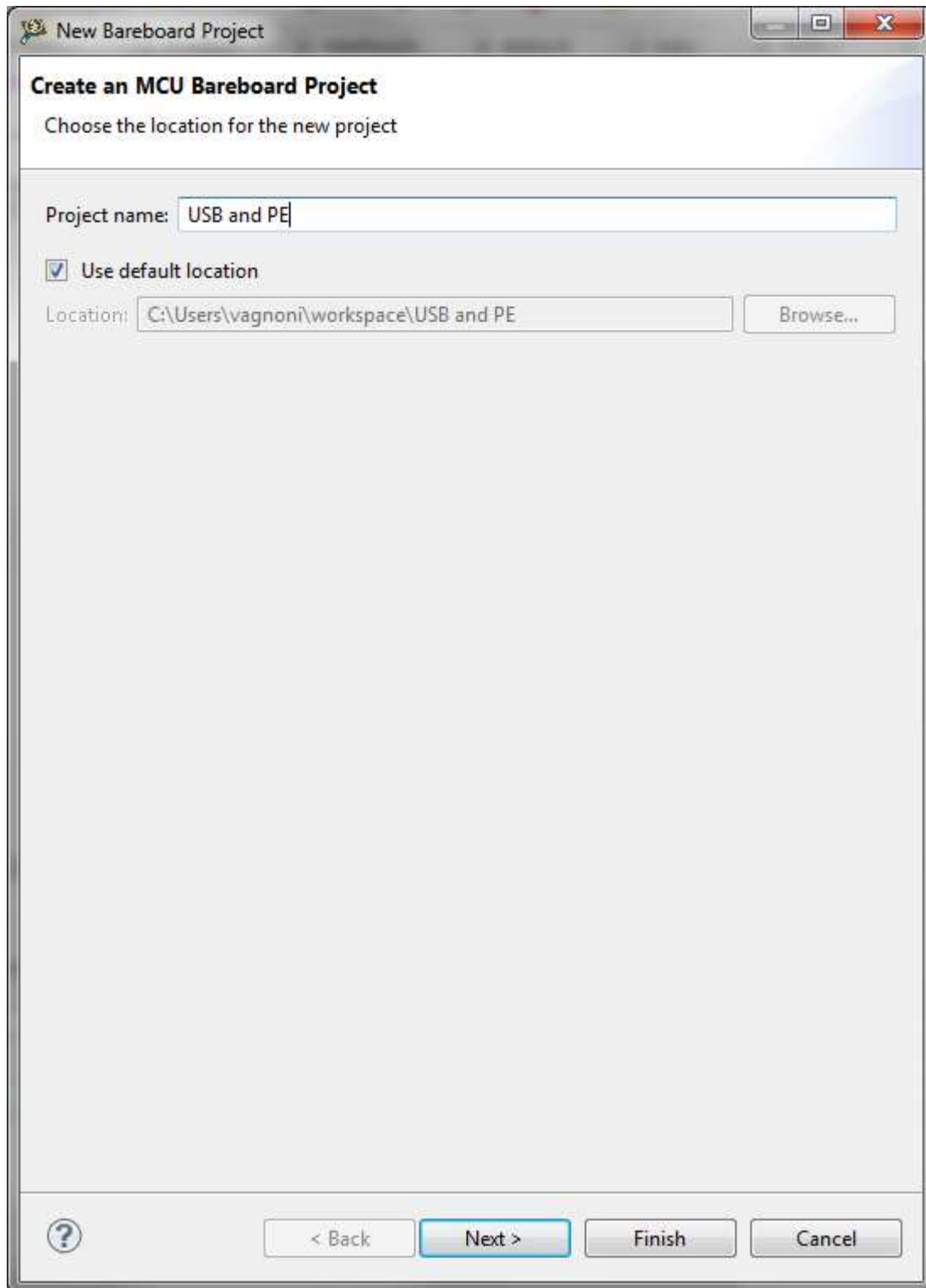
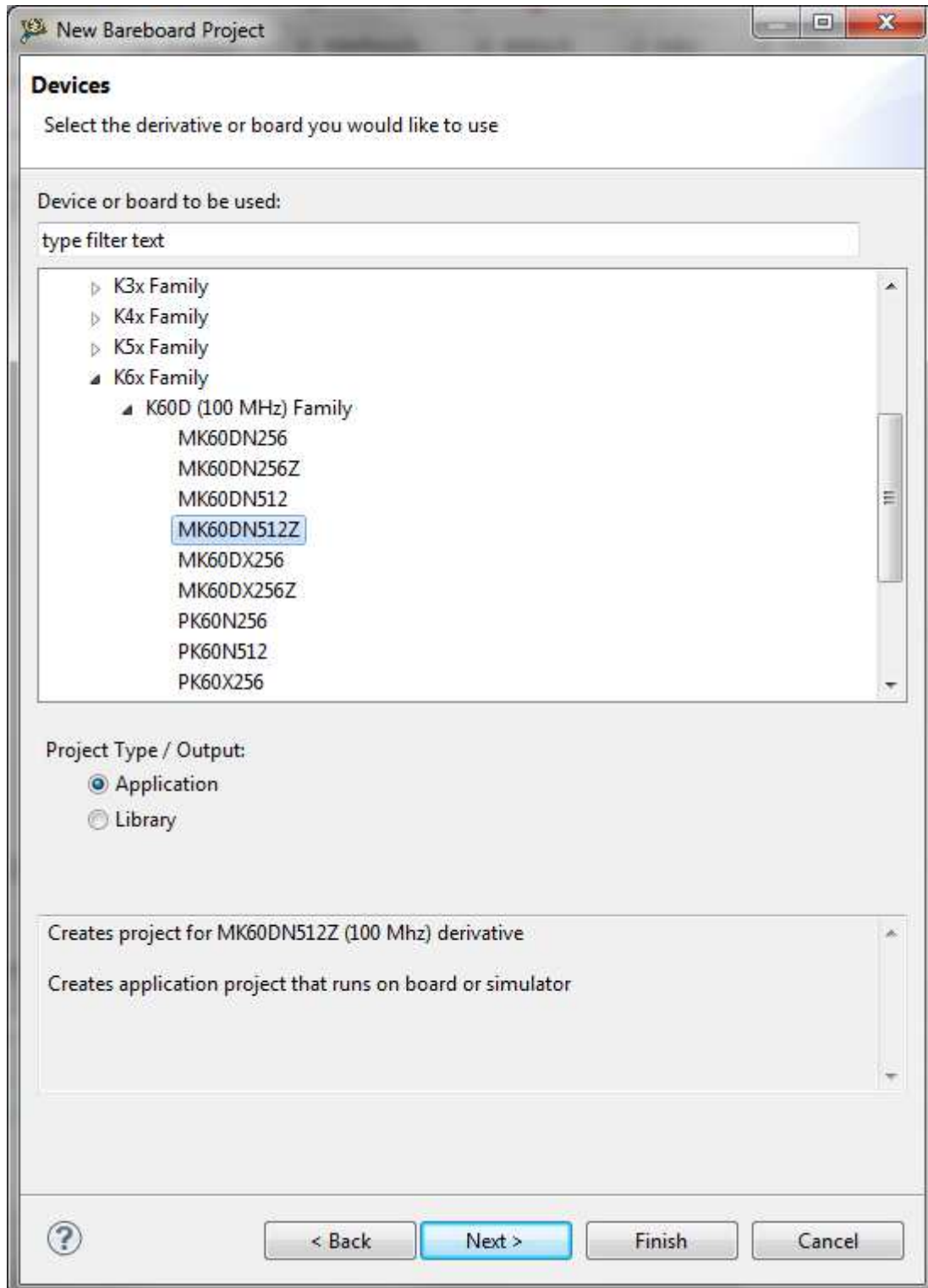


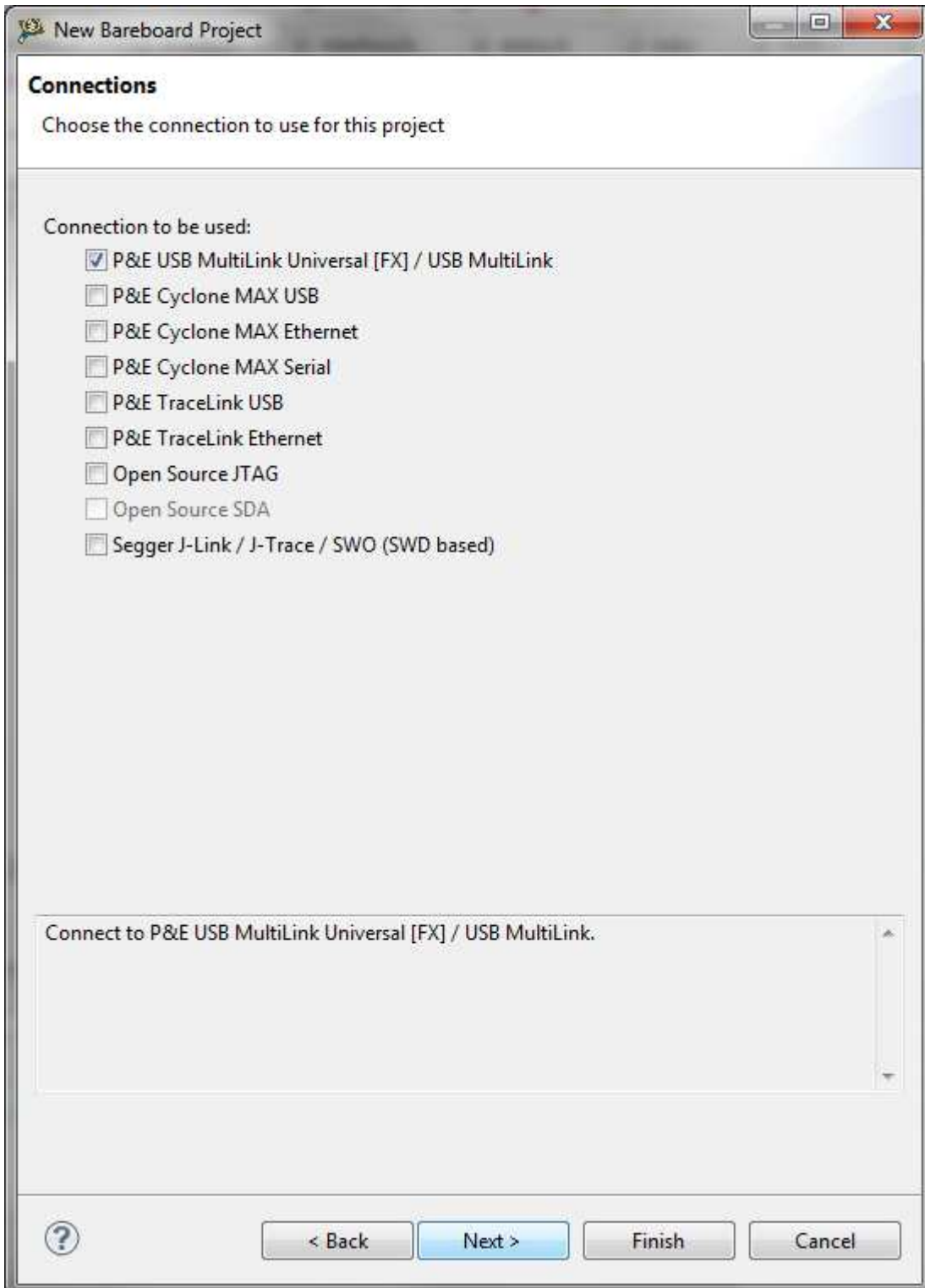
1. Create a new Bareboard Project with Processor Expert, in my example is “USB and PE” and click Next;



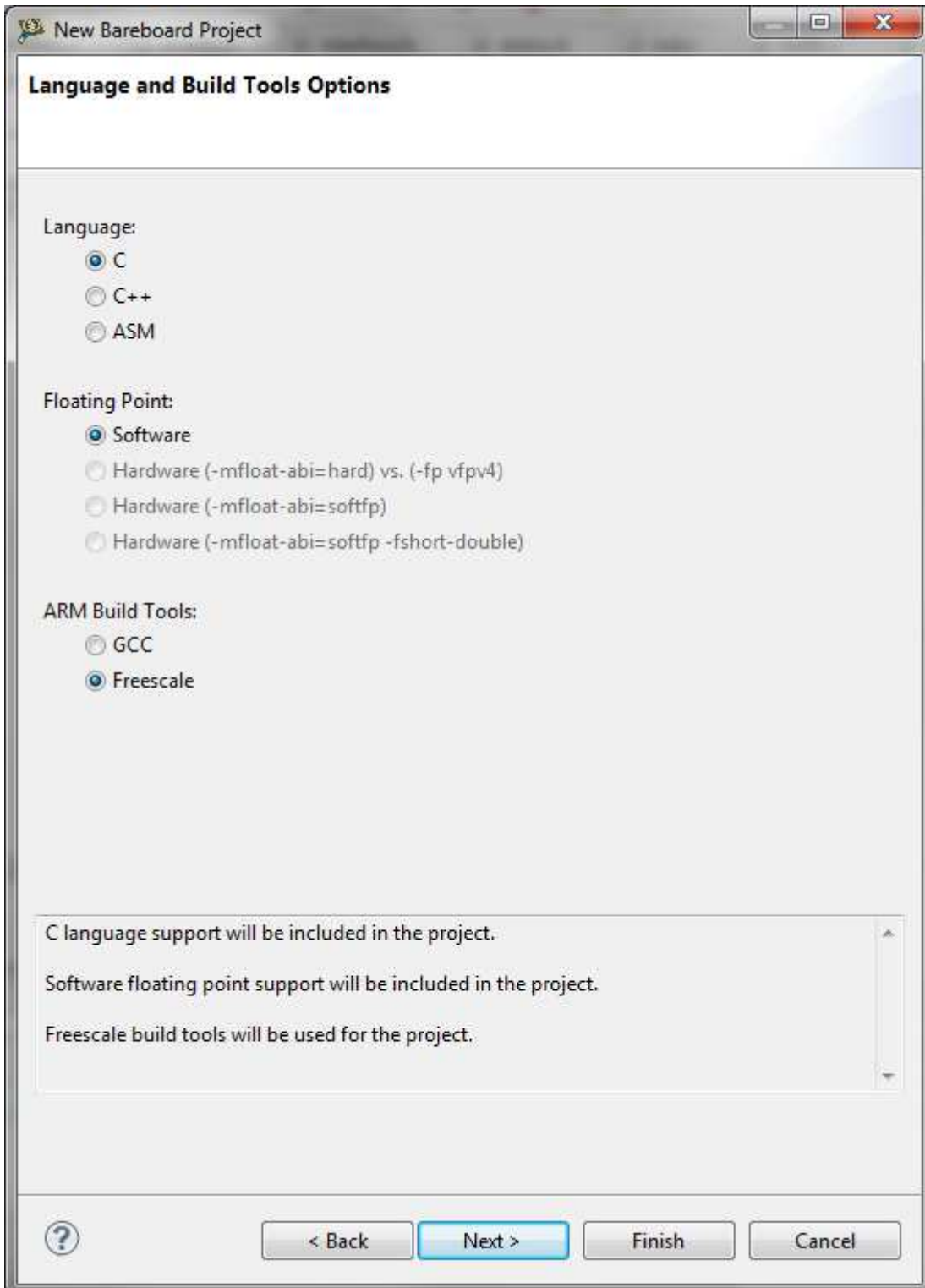
2. Choose the Device (in my example is MK60DN512Z) and click Next;



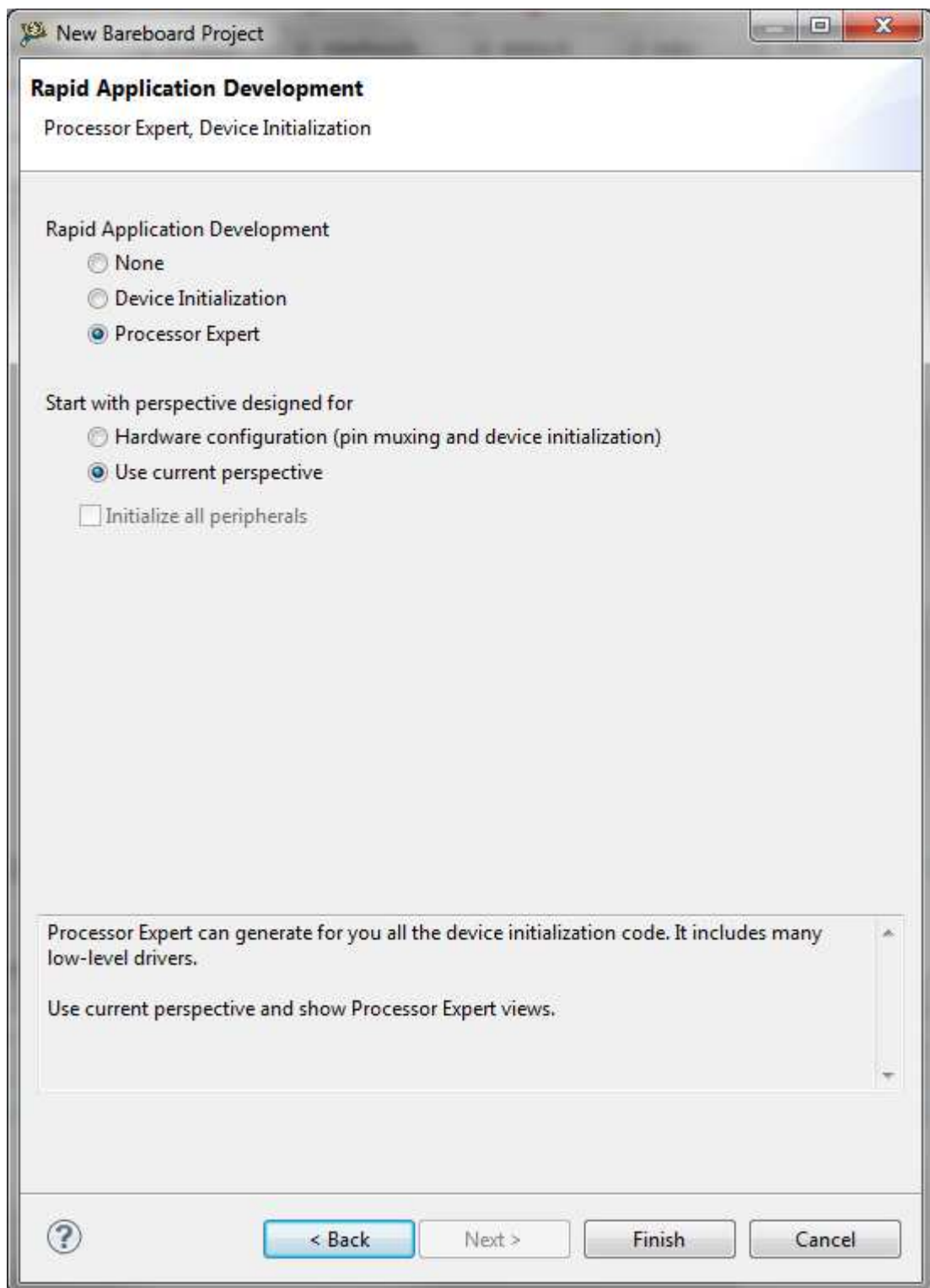
3. Choose the connection (I use USB Universal Multilink) Next;



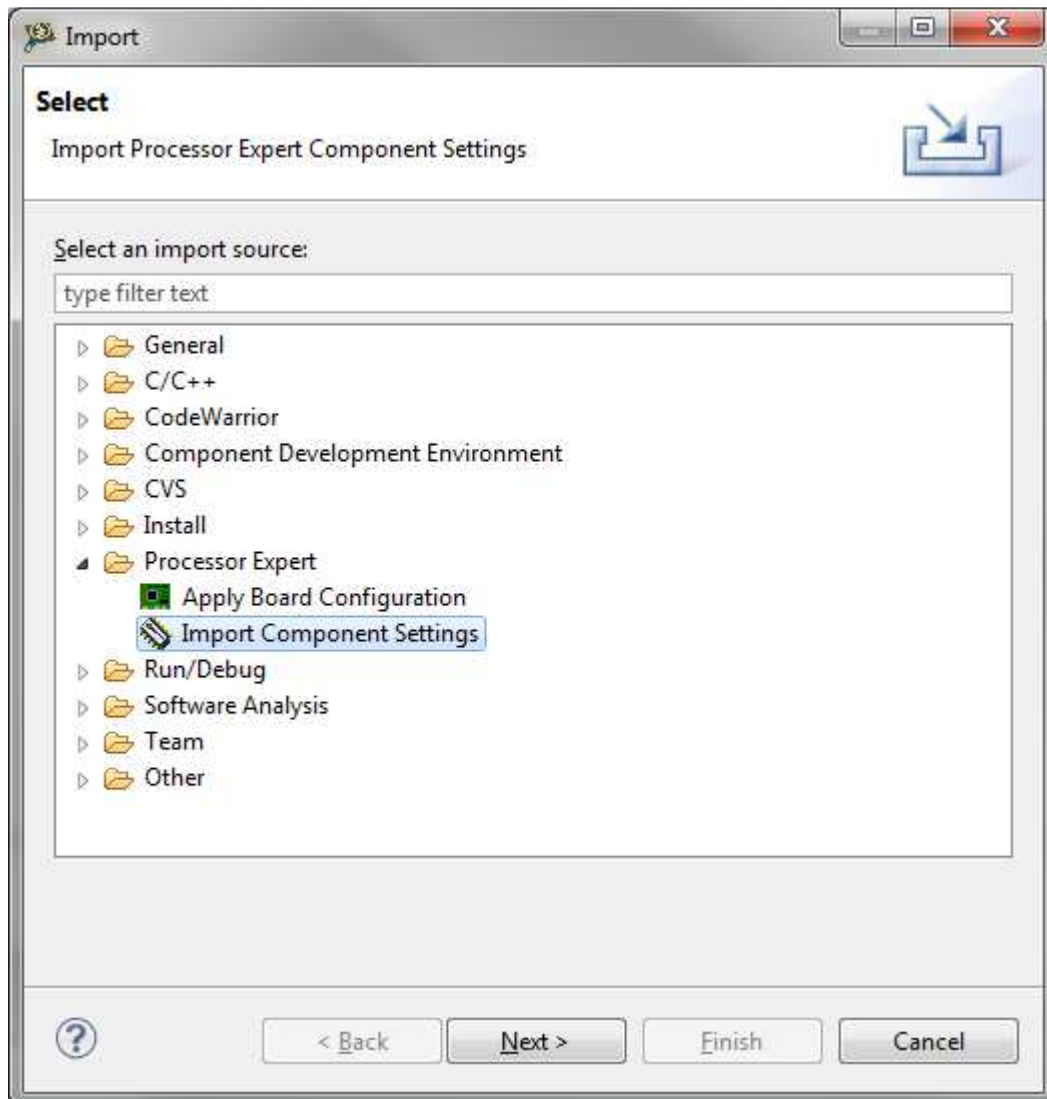
4. Choose the Freescale in the ARM Build Tools and click Next;



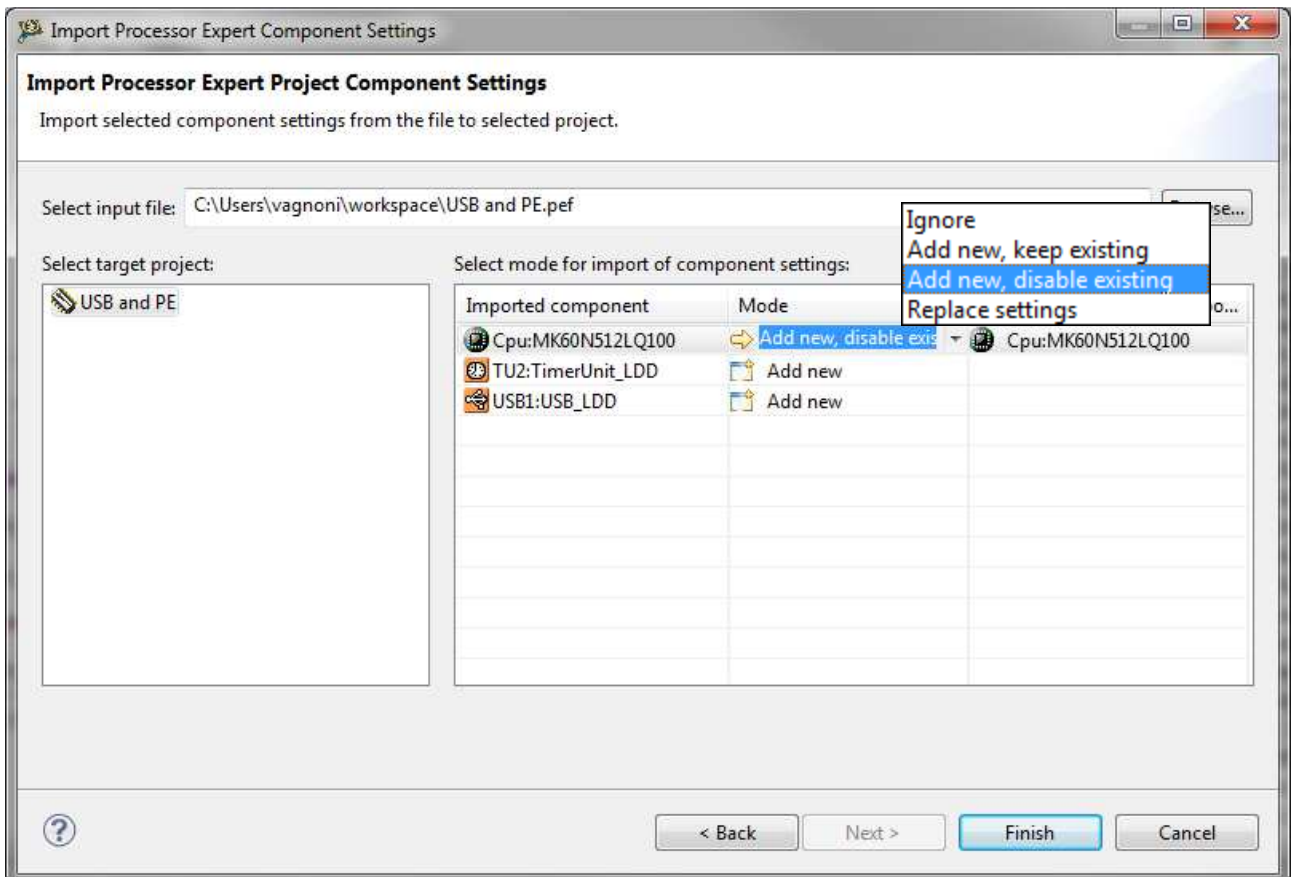
5. Select Processor Expert option in the Rapid Application Development and click Finish.



6. After the project will be generated, import Component Settings for Processor Expert (click Next):

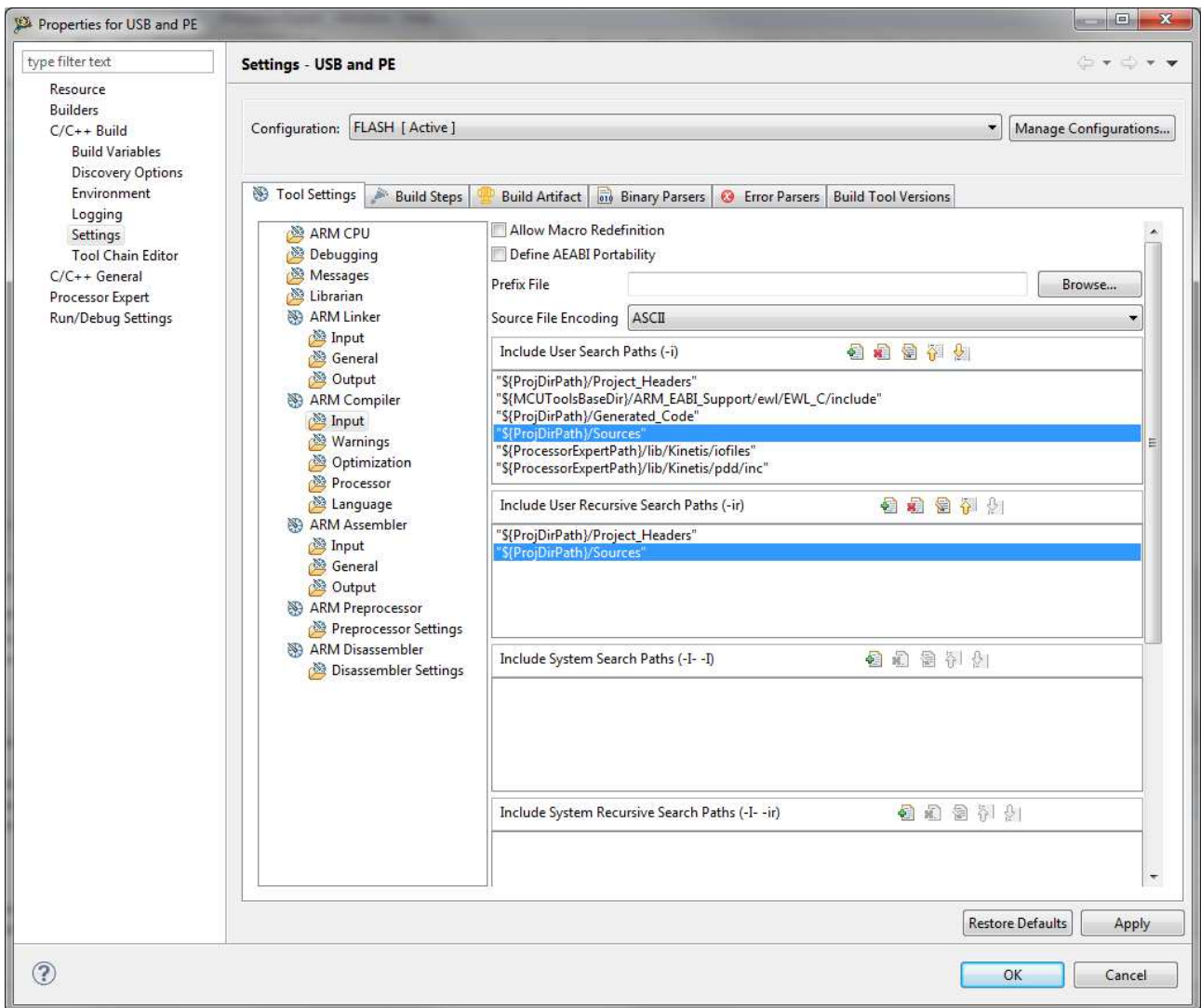


7. Select the file example.pef (you will find the files inside the Vagnoni.zip file) and choose the option showed for the Cpu (in this manner you will find Cpu configured) and click finish.

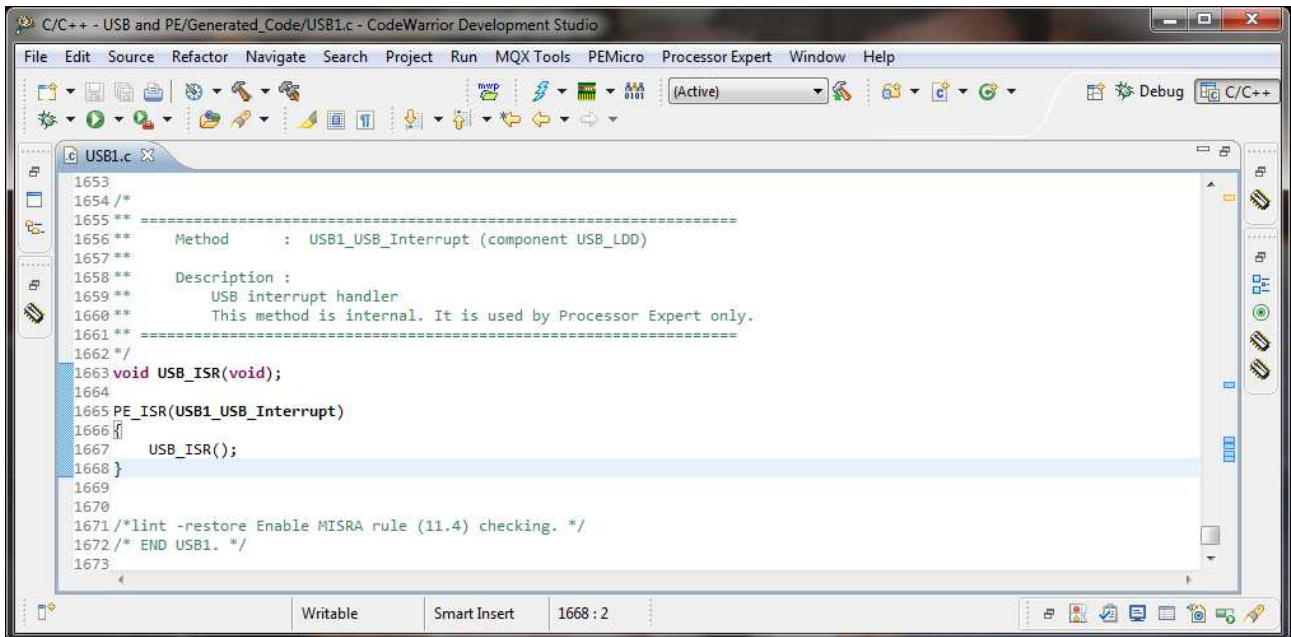


8. At this point you can copy all files of folders "Sources" and "Project_Headers" inside your project folders (Sources and Project_Headers). Press F5 to refresh
9. Copy the lcf file.

10. In the Properties of Project, (ARM Compiler Input) Include User Recursive Path folder “Source” and “Project_Headers”:

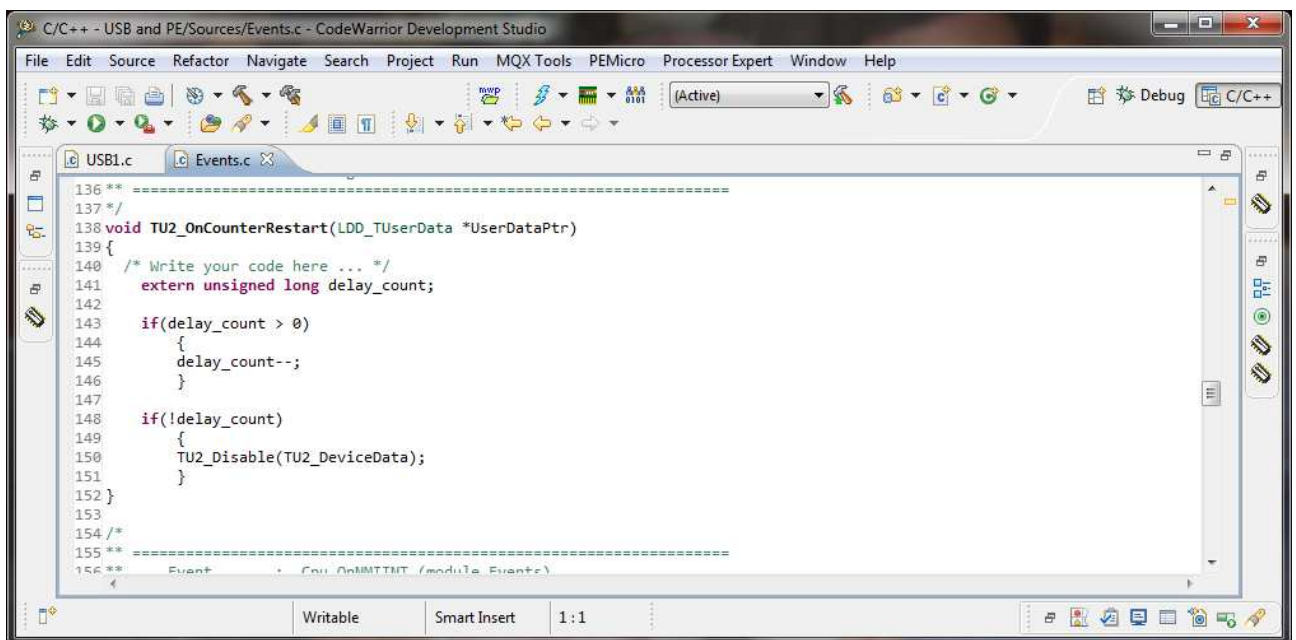


11. Make a Generation and after change the interrupt routine in USB1.c file (Under Generated_Code Folder).



```
C/C++ - USB and PE/Generated_Code/USB1.c - CodeWarrior Development Studio
File Edit Source Refactor Navigate Search Project Run MQX Tools PEMicro Processor Expert Window Help
(Active) Debug C/C++
USB1.c
1653
1654 /*
1655 **
1656 **      Method      : USB1_USB_Interrupt (component USB_LDD)
1657 **
1658 **      Description :
1659 **      USB interrupt handler
1660 **      This method is internal. It is used by Processor Expert only.
1661 **
1662 **/
1663 void USB_ISR(void);
1664
1665 PE_ISR(USB1_USB_Interrupt)
1666 {
1667     USB_ISR();
1668 }
1669
1670
1671 /*lint -restore Enable MISRA rule (11.4) checking. */
1672 /* END USB1. */
1673
Writable Smart Insert 1668 : 2
```

12. Insert code in Events.c



```
C/C++ - USB and PE/Sources/Events.c - CodeWarrior Development Studio
File Edit Source Refactor Navigate Search Project Run MQX Tools PEMicro Processor Expert Window Help
(Active) Debug C/C++
USB1.c Events.c
136 **
137 **/
138 void TU2_OnCounterRestart(LDD_UserData *UserDataPtr)
139 {
140     /* Write your code here ... */
141     extern unsigned long delay_count;
142
143     if(delay_count > 0)
144     {
145         delay_count--;
146     }
147
148     if(!delay_count)
149     {
150         TU2_Disable(TU2_DeviceData);
151     }
152 }
153
154 /*
155 **
156 **      Event      : CPU_INTERRUPT (module Events)

```

13. Mind that in the USB_Check.c file I insert the code similar to the example but it checks only if on the USB Device is present a specific file "filename.abc".

14. Compile, debug and Enjoy yourself!