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Library built with 7.xx causes warning message in 8.11   IAR Systems > Support > Tech Notes > ..

Technical Note 20171003

Targets:	Arm
Component:	Linker
Updated:	2017/10/3 12:47

Introduction

Because both the size and the internal encoding of *wchar_t* are different between IAR Embedded Workbench for Arm version 7.xx and version 8.11 or later, the linker message "*Warning [Lt009]: Inconsistent wchar_t size*" will be generated when a library built with version 7.xx is used in version 8.11 or later.

In version 8.11 the size of *wchar_t* is four bytes. Moreover the internal encoding of *wchar_t* objects between these versions objects is different.

This means that combining object files built with versions7.80 and 8.11 will generate a linker warning if the application uses *wchar_t,* the behavior will be unpredictable. In general, we strongly recommend using object code from one version only, and for a major upgrade such as 7.8 to 8.11, all code should be rebuilt.

If you choose to not to rebuilt, you should at least do following actions:

- a)   Rebuild an object code build with version 7.xx and written in C++.
- b)   If the library does include *wchar_t*, rebuild the library with version 8.11.
- c)   If a library built with version 7.xx does not include *wchar_t*, and an application built with version 8.11 (or later) in fact works as expected, you might want to ignore the warning message. To suppress the warning message, do this:

  1. Choose Project>Options>Linker>Diagnostics>
  2. Select **Suppress these diagnostics** and specify "***Lt009***"
  3. Click OK.

Note1: If you later add another 7.xx library to your 8.11(or later) project, please remove the suppress diagnostic option described above ("Lt009") and go through steps a-c again.

Conclusion

A library that uses *wchar_t* built with IAR Embedded Workbench for Arm version 7.xx must be rebuilt to be used with version 8.11.

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