

cetbuildtools - Bug #17189

libart_Version conflict with \$ART_VERSION in mrb

07/14/2017 03:48 PM - Ron Rechenmacher

Status:	Assigned	Start date:	07/14/2017
Priority:	Normal	Due date:	
Assignee:	Lynn Garren	% Done:	0%
Category:		Estimated time:	16.00 hours
Target version:		Spent time:	0.00 hour
Description			
artdaq depends on art and ups therefore establishes/sets env. var \$ART_VERSION. Additionally, some utilities in artdaq link against libart_Version using cmake variable art_Version. If we add art to our \$MRB_SOURCES, the art_Version cmake variable seems to get set to the value of the \$ART_VERSION env var.			

History

#1 - 07/17/2017 09:31 AM - Lynn Garren

- Status changed from New to Feedback

Cetbuildtools has been defining <product_lower_case>_VERSION for some time. This is used by various cetbuildtools methods. If artdaq also makes its own definition of art_VERSION, then there is a clear conflict. Is there a reason that you cannot use the definition from cetbuildtools? If not, are you able to change the name of your variable?

#2 - 07/17/2017 09:53 AM - Eric Flumerfelt

<https://cdcv.s.fnal.gov/redmine/projects/art/repository/revisions/develop/entry/art/Version/CMakeLists.txt>

The problem is that one of our applications is trying to link against the library called libart_Version.so, which in cetbuildtools CMake becomes art_Version in CMakeLists.txt. However, that variable is (as you noted) defined as other things in other places. Outside of mrb, we can put \${ART_LIB}/libart_Version.so in the library list, but this breaks if art is in mrb because \${ART_LIB} is undefined (and we would want CMake to figure out the correct library dependencies anyway).

Any code that calls art::getReleaseVersion outside of the art framework is going to have this issue. We have a workaround in CMake here: https://cdcv.s.fnal.gov/redmine/projects/artdaq/repository/entry/test/ArtModules/CMakeLists.txt?rev=feature%2Fshared_memory_manager

#3 - 07/17/2017 09:55 AM - Lynn Garren

- Status changed from Feedback to Accepted

Thank you. We will investigate.

#4 - 07/17/2017 11:26 AM - Kyle Knoepfel

- Project changed from art to cetbuildtools

- Status changed from Accepted to Assigned

- Assignee set to Lynn Garren

- Estimated time set to 16.00 h