

cetbuildtools - Feature #17296

Improve diagnostics of cmake macro errors: cet_test

07/28/2017 12:55 PM - Gianluca Petrillo

Status:	Closed	Start date:	07/28/2017
Priority:	Normal	Due date:	
Assignee:	Christopher Green	% Done:	100%
Category:		Estimated time:	1.00 hour
Target version:	2.08.00	Spent time:	1.00 hour

Description

I have a snippet of CMakeLists.txt like:

```
cet_test(Track_test
  HANDBUILT
  DATAFILES test_trackproxy.fcl
  TEST_EXEC lar --rethrow-all -c ./test_trackproxy.fcl
  USE_BOOST_UNIT
)
```

and I receive the error:

```
CMake Error at /products/cetbuildtools/v5_09_01/Modules/CetTest.cmake:311 (message):
  cet_test: DATAFILES option is now mandatory: non-option arguments are no
  longer permitted.
```

```
Call Stack (most recent call first):
  lardata/test/RecoBaseProxy/CMakeLists.txt:6 (cet_test)
```

This kind of errors happened to me a number of types, where I mistype a keyword (in this case, I should have split the command line between TEST_EXEC and a TEST_ARGS) and cet_test pushes upon me its interpretation of the error rather than detailing what triggered it.

The simplest solution is to hint which was the error token. In my case, TEST_EXEC is actually a valid keyword, so I believe the error token was --rethrow-all. If the message had said:

```
CMake Error at /products/cetbuildtools/v5_09_01/Modules/CetTest.cmake:311 (message):
  cet_test: non-option argument found: '--rethrow-all'. Non-option arguments are no longer permitted. Also note that DATAFILES option is now mandatory.
```

```
Call Stack (most recent call first):
  lardata/test/RecoBaseProxy/CMakeLists.txt:6 (cet_test)
```

instead of assuming that my mistake of today is from an ancient cet_test breaking change, I would at least been put on the right track.

A more sophisticate logic to detect that I tried to append more arguments to a keyword (TEST_EXEC) than allowed would be ideal, but maybe not worth the effort.

Associated revisions

Revision f9d83bd4 - 08/01/2017 12:59 PM - Christopher Green

Fix error message per issue #17296.

History

#1 - 07/31/2017 01:27 PM - Kyle Knoepfel

- Status changed from New to Assigned
- Assignee set to Christopher Green
- Estimated time set to 1.00 h
- Experiment LArSoft added
- Experiment deleted (-)

We will improve the error message.

#2 - 07/31/2017 01:27 PM - Kyle Knoepfel

- *Project changed from art to cetbuildtools*
- *Category deleted (Build System)*

#3 - 08/01/2017 01:06 PM - Christopher Green

- *Status changed from Assigned to Resolved*
- *% Done changed from 0 to 100*

Fixed in [f9d83bd](#). Example error message:

```
CMake Error at /Users/greenc/work/cet-is/products/cetbuildtools/v5_13_01/Modules/CetTest.cmake:370 (message):  
  cet_test: Unparsed (non-option) arguments detected: "ethel;lucy;ricky"
```

```
  Check for missing keyword(s) in the definition of test regex_standalone_t  
  in your CMakeLists.txt.
```

```
Call Stack (most recent call first):
```

```
  cetlib/cetlib/test/CMakeLists.txt:135 (cet_test)
```

#4 - 08/01/2017 01:36 PM - Kyle Knoepfel

- *Target version set to 2.08.00*

#5 - 08/02/2017 11:04 AM - Kyle Knoepfel

- *Status changed from Resolved to Closed*