GammaLib - Bug #1605

Correct library post processing on El Capitan

12/16/2015 10:36 PM - Knödlseder Jürgen

Status:	Closed		**Start date:**	12/16/2015
Priority:	Normal		**Due date:**	
Assigned To:	Knödlseder Jürgen		**% Done:**	0%
Category:			**Estimated time:**	0.00 hour
Target version:				

Description

Michael Mayer noted the following:

Note that since a few days, when I modify the python interface, I need make clean and a full rebuild to make it run again. Otherwise I get the following error messages (don't know if this is just a problem on my machine):

Post process module build/gammalib/_app.so
error: install_name_tool: for: build/gammalib/_app.so (for architecture x86_64) option "-add_rpath
 /Users/mimayer/Software/gammalib/lib" would duplicate path, file already has LC_RPATH for:
 /Users/mimayer/Software/gammalib/lib
error: install_name_tool: for: build/gammalib/_app.so (for architecture x86_64) option "-add_rpath
 /Users/mimayer/Software/gammalib/src/.libs" would duplicate path, file already has LC_RPATH for:
 /Users/mimayer/Software/gammalib/src/.libs
Post process module build/gammalib/_base.so
error: install_name_tool: for: build/gammalib/_base.so (for architecture x86_64) option "-add_rpath
 /Users/mimayer/Software/gammalib/lib" would duplicate path, file already has LC_RPATH for:
 /Users/mimayer/Software/gammalib/lib
error: install_name_tool: for: build/gammalib/_base.so (for architecture x86_64) option "-add_rpath
 /Users/mimayer/Software/gammalib/src/.libs" would duplicate path, file already has LC_RPATH for:
 /Users/mimayer/Software/gammalib/src/.libs
Post process module build/gammalib/_com.so
error: install_name_tool: for: build/gammalib/_com.so (for architecture x86_64) option "-add_rpath
 /Users/mimayer/Software/gammalib/lib" would duplicate path, file already has LC_RPATH for:
 /Users/mimayer/Software/gammalib/lib
error: install_name_tool: for: build/gammalib/_com.so (for architecture x86_64) option "-add_rpath
 /Users/mimayer/Software/gammalib/src/.libs" would duplicate path, file already has LC_RPATH for:
 /Users/mimayer/Software/gammalib/src/.libs
Post process module build/gammalib/_cta.so
Post process module build/gammalib/_fits.so
error: install_name_tool: for: build/gammalib/_fits.so (for architecture x86_64) option "-add_rpath
 /Users/mimayer/Software/gammalib/lib" would duplicate path, file already has LC_RPATH for:
 /Users/mimayer/Software/gammalib/lib
error: install_name_tool: for: build/gammalib/_fits.so (for architecture x86_64) option "-add_rpath
 /Users/mimayer/Software/gammalib/src/.libs" would duplicate path, file already has LC_RPATH for:
 /Users/mimayer/Software/gammalib/src/.libs
Post process module build/gammalib/_lat.so
error: install_name_tool: for: build/gammalib/_lat.so (for architecture x86_64) option "-add_rpath
 /Users/mimayer/Software/gammalib/lib" would duplicate path, file already has LC_RPATH for:
 /Users/mimayer/Software/gammalib/lib
error: install_name_tool: for: build/gammalib/_lat.so (for architecture x86_64) option "-add_rpath
 /Users/mimayer/Software/gammalib/src/.libs" would duplicate path, file already has LC_RPATH for:
 /Users/mimayer/Software/gammalib/src/.libs
Post process module build/gammalib/_linalg.so
error: install_name_tool: for: build/gammalib/_linalg.so (for architecture x86_64) option "-add_rpath
 /Users/mimayer/Software/gammalib/lib" would duplicate path, file already has LC_RPATH for:
 /Users/mimayer/Software/gammalib/lib
error: install_name_tool: for: build/gammalib/_linalg.so (for architecture x86_64) option "-add_rpath
 /Users/mimayer/Software/gammalib/src/.libs" would duplicate path, file already has LC_RPATH for:
 /Users/mimayer/Software/gammalib/src/.libs
Post process module build/gammalib/_model.so
error: install_name_tool: for: build/gammalib/_model.so (for architecture x86_64) option "-add_rpath
 /Users/mimayer/Software/gammalib/lib" would duplicate path, file already has LC_RPATH for:

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/Users/mimayer/Software/gammalib/lib
error: install_name_tool: for: build/gammalib/_model.so (for architecture x86_64) option "-add_rpath
/Users/mimayer/Software/gammalib/src/.libs" would duplicate path, file already has LC_RPATH for:
/Users/mimayer/Software/gammalib/src/.libs
Post process module build/gammalib/_mwl.so
error: install_name_tool: for: build/gammalib/_mwl.so (for architecture x86_64) option "-add_rpath
/Users/mimayer/Software/gammalib/lib" would duplicate path, file already has LC_RPATH for:
/Users/mimayer/Software/gammalib/lib
error: install_name_tool: for: build/gammalib/_mwl.so (for architecture x86_64) option "-add_rpath
/Users/mimayer/Software/gammalib/src/.libs" would duplicate path, file already has LC_RPATH for:
/Users/mimayer/Software/gammalib/src/.libs
Post process module build/gammalib/_numerics.so
error: install_name_tool: for: build/gammalib/_numerics.so (for architecture x86_64) option "-add_rpath
/Users/mimayer/Software/gammalib/lib" would duplicate path, file already has LC_RPATH for:
/Users/mimayer/Software/gammalib/lib
error: install_name_tool: for: build/gammalib/_numerics.so (for architecture x86_64) option "-add_rpath
/Users/mimayer/Software/gammalib/src/.libs" would duplicate path, file already has LC_RPATH for:
/Users/mimayer/Software/gammalib/src/.libs
Post process module build/gammalib/_obs.so
error: install_name_tool: for: build/gammalib/_obs.so (for architecture x86_64) option "-add_rpath
/Users/mimayer/Software/gammalib/lib" would duplicate path, file already has LC_RPATH for:
/Users/mimayer/Software/gammalib/lib
error: install_name_tool: for: build/gammalib/_obs.so (for architecture x86_64) option "-add_rpath
/Users/mimayer/Software/gammalib/src/.libs" would duplicate path, file already has LC_RPATH for:
/Users/mimayer/Software/gammalib/src/.libs
Post process module build/gammalib/_opt.so
error: install_name_tool: for: build/gammalib/_opt.so (for architecture x86_64) option "-add_rpath
/Users/mimayer/Software/gammalib/lib" would duplicate path, file already has LC_RPATH for:
/Users/mimayer/Software/gammalib/lib
error: install_name_tool: for: build/gammalib/_opt.so (for architecture x86_64) option "-add_rpath
/Users/mimayer/Software/gammalib/src/.libs" would duplicate path, file already has LC_RPATH for:
/Users/mimayer/Software/gammalib/src/.libs
Post process module build/gammalib/_sky.so
error: install_name_tool: for: build/gammalib/_sky.so (for architecture x86_64) option "-add_rpath
/Users/mimayer/Software/gammalib/lib" would duplicate path, file already has LC_RPATH for:
/Users/mimayer/Software/gammalib/lib
error: install_name_tool: for: build/gammalib/_sky.so (for architecture x86_64) option "-add_rpath
/Users/mimayer/Software/gammalib/src/.libs" would duplicate path, file already has LC_RPATH for:
/Users/mimayer/Software/gammalib/src/.libs
Post process module build/gammalib/_support.so
error: install_name_tool: for: build/gammalib/_support.so (for architecture x86_64) option "-add_rpath
/Users/mimayer/Software/gammalib/lib" would duplicate path, file already has LC_RPATH for:
/Users/mimayer/Software/gammalib/lib
error: install_name_tool: for: build/gammalib/_support.so (for architecture x86_64) option "-add_rpath
/Users/mimayer/Software/gammalib/src/.libs" would duplicate path, file already has LC_RPATH for:
/Users/mimayer/Software/gammalib/src/.libs
Post process module build/gammalib/_test.so
error: install_name_tool: for: build/gammalib/_test.so (for architecture x86_64) option "-add_rpath
/Users/mimayer/Software/gammalib/lib" would duplicate path, file already has LC_RPATH for:
/Users/mimayer/Software/gammalib/lib
error: install_name_tool: for: build/gammalib/_test.so (for architecture x86_64) option "-add_rpath
/Users/mimayer/Software/gammalib/src/.libs" would duplicate path, file already has LC_RPATH for:
/Users/mimayer/Software/gammalib/src/.libs
Post process module build/gammalib/_vo.so
error: install_name_tool: for: build/gammalib/_vo.so (for architecture x86_64) option "-add_rpath
/Users/mimayer/Software/gammalib/lib" would duplicate path, file already has LC_RPATH for:
/Users/mimayer/Software/gammalib/lib
error: install_name_tool: for: build/gammalib/_vo.so (for architecture x86_64) option "-add_rpath
/Users/mimayer/Software/gammalib/src/.libs" would duplicate path, file already has LC_RPATH for:
/Users/mimayer/Software/gammalib/src/.libs
Post process module build/gammalib/_xml.so
error: install_name_tool: for: build/gammalib/_xml.so (for architecture x86_64) option "-add_rpath
/Users/mimayer/Software/gammalib/lib" would duplicate path, file already has LC_RPATH for:
/Users/mimayer/Software/gammalib/lib
error: install_name_tool: for: build/gammalib/_xml.so (for architecture x86_64) option "-add_rpath
/Users/mimayer/Software/gammalib/src/.libs" would duplicate path, file already has LC_RPATH for:
/Users/mimayer/Software/gammalib/src/.libs
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Post process module build/gammalib/_xspec.so
error: install_name_tool: for: build/gammalib/_xspec.so (for architecture x86_64) option "-add_rpath
 /Users/mimayer/Software/gammalib/lib" would duplicate path, file already has LC_RPATH for:
 /Users/mimayer/Software/gammalib/lib
error: install_name_tool: for: build/gammalib/_xspec.so (for architecture x86_64) option "-add_rpath
 /Users/mimayer/Software/gammalib/src/.libs" would duplicate path, file already has LC_RPATH for:
 /Users/mimayer/Software/gammalib/src/.libs
make[2]: *** [build] Error 1
make[1]: *** [install] Error 2
make: *** [install-recursive] Error 1

The probable cause is the post processing introduced for El Capitan. If the post processing is applied to a library that has already been post processed, the errors should occur.

History

#1 - 12/17/2015 02:09 AM - Knödlseder Jürgen

Note that otool -l can be used to check whether a load path exists:

$ otool -l src/.libs/libgamma.dylib | grep "path test"
       path test (offset 12)

Furthermore, we can test whether an output is empty or not using:

$ if [[$(otool -l src/.libs/libgamma.dylib | grep "path test")]]; then echo "yes"; else echo "no"; fi

#2 - 12/17/2015 02:20 AM - Knödlseder Jürgen

- Status changed from New to Feedback

See also https://www.gnu.org/software/make/manual/html_node/Errors.html for a nice way to simply ignore errors.

I implemented this and pushed into devel. You still get the verbose output, but it should no longer lead to an error. Tell me Michael if this works for you.

#3 - 12/17/2015 09:53 AM - Mayer Michael

- Status changed from Feedback to Resolved

Thanks, it now works. I don't get errors any more when updating the python interface.

#4 - 12/17/2015 02:09 PM - Knödlseder Jürgen

- Status changed from Resolved to Closed