GammaLib - Change request #623

Change deprecated INCLUDES to AM_CPPFLAGS in Makefile.am files

12/06/2012 10:58 AM - Deil Christoph

Status:	In Progress	Start date:	12/06/2012
Priority:	Low	Due date:	
Assigned To:	Knödlseder Jürgen	% Done:	10%
Category:		Estimated time:	0.00 hour
Target version:			
Description			
With an up to date	automake 1.12.5 I get these deprecati	ion warnings:	
inst/cta/Makefile.ar inst/lat/Makefile.ar inst/mwl/Makefile.ar src/Makefile.ar src/base/Makefile.ar src/fits/Makefile.ar src/linalg/Makefile.ar src/numerics/Makefile.ar src/obs/Makefile.ar src/opt/Makefile.ar src/support/Makefile.ar src/support/Makefile.ar src/support/Makefile.ar	am:4: warning: 'INCLUDES' is the old r n:4: warning: 'INCLUDES' is the old na n:4: warning: 'INCLUDES' is the old na um:4: warning: 'INCLUDES' is the old na warning: 'INCLUDES' is the old na am:4: warning: 'INCLUDES' is the old am:4: warning: 'INCLUDES' is the old na:4: warning: 'INCLUDES' is the old na n:4: warning: 'INCLUDES' is the old na n:4: warning: 'INCLUDES' is the old na	ame for 'AM_CPPFLAGS' (or '*_ mame for 'AM_CPPFLAGS' (or '*_ for 'AM_CPPFLAGS' (or '*_ for 'AM_CPPFLAGS' (or '*_ name for 'AM_CPPFLAGS' (or '*_ mame for 'AM_CPPFLAGS' (or '*_ name for 'AM_CPPFLAGS' (or '*_ name for 'AM_CPPFLAGS' (or '*_ ame for 'AM_CPPFLAGS' (or '*_	CPPFLAGS') CPPFLAGS') CPPFLAGS') CPPFLAGS') *_CPPFLAGS') *_CPPFLAGS') *_CPPFLAGS') (or '*_CPPFLAGS') (or '*_CPPFLAGS') CPPFLAGS') CPPFLAGS') CPPFLAGS') CPPFLAGS') CPPFLAGS') CPPFLAGS') CPPFLAGS')
http://www.delorie.	com/gnu/docs/automake/automake_4	7.html explains:	
AM CPPFLAGS			
The contents of this	s variable are passed to every compile		ocessor; it is a list of arguments to the
Automake already		lly. In particular it generates `-I\$	(srcdir)', `-I.', and a `-I' pointing to the EADER). You can disable the default `-I'
AM_CPPFLAGS is	ignored in preference to a per-execut	able (or per-library) _CPPFLAG	S variable if it is defined.
INCLUDES This does the same using `AM_CPPFL		er name for the same functional	ity. This variable is deprecated; we suggest
You can find it in th	UDES to AM_CPPFLAGS in these file the INCLUDES_to_AM_CPPFLAGS bra .irap.omp.eu/projects/gammalib/reposi	anch and review it here:	<u>ob27c0ea4d9e663783a9c28a97/diff</u>
make runs find on I	my machine, but I do get this error with	h make check:	
			test_GNumerics test_GFits test_GXml /L test_CTA test_LAT test_COM

clang++ -DHAVE_CONFIG_H -I. -I.. -I/opt/local/Library/Frameworks/Python.framework/Versions/2.7/include/python2.7 -I/opt/local/include -I/opt/local/Library/Frameworks/Python.framework/Versions/2.7/include/python2.7 -I/opt/local/include -g -O2 -c -o test_GSupport-test_GSupport.o `test -f 'test_GSupport.cpp' || echo './'`test_GSupport.cpp test_GSupport.cpp:34:10: fatal error: 'GammaLib.hpp' file not found #include "GammaLib.hpp" ^ 1 error generated.

Jürgen, do you know how to fix this?

History

#1 - 12/06/2012 01:18 PM - Knödlseder Jürgen

Is this new feature backward compatible?

The are important changes as the autotools evolve, and I was wondering whether using AM_CPPFLAGS is also working on older systems. The autotools configuration things is a nightmare.

I started a special autoconf / automake matrix test on your new branch (see <u>https://cta-jenkins.irap.omp.eu/job/gammalib-release-tools/14/</u>). This may tell how compatible the feature is.

#2 - 12/06/2012 01:27 PM - Deil Christoph

- Assigned To changed from Deil Christoph to Knödlseder Jürgen

Jürgen Knödlseder wrote:

Is this new feature backward compatible?

No idea.

Note that with make check an include is missing (see error above). I could start to understand auto tools and try to fix this myself, but it would take time ...

#3 - 12/06/2012 03:24 PM - Knödlseder Jürgen

- % Done changed from 0 to 10

I recognized that #include "GammaLib.hpp" was in both the .cpp and .hpp files of test_GSupport (and two other test routines).

I removed this, although this should not pose any problem in principle.

But I recognized that in

clang++ -DHAVE_CONFIG_H -I. -I.. -I/opt/local/Library/Frameworks/Python.framework/Versions/2.7/include/python2.7 -I/opt/local/include -I/opt/local/Library/Frameworks/Python.framework/Versions/2.7/include/python2.7 -I/opt/local/include -g -O2 -c -o test_GSupport-test_GSupport.op `test -f 'test_GSupport.cpp' || echo './``test_GSupport.cpp

I can't see an include path towards the GammaLib header files. On my Mac I get

g++ -DHAVE_CONFIG_H -I. -I.. -I../include -I../src -I../src/support -I../inst/mwl/include -I../inst/cta/include -I../inst/lat/include -I../inst/com/include -I/opt/local/Library/Frameworks/Python.framework/Versions/2.6/include/python2.6 -I/opt/local/include -I/opt/local/Library/Frameworks/Python.framework/Versions/2.6/include/python2.6 -I/opt/local/include -g -O2 -fopenmp -c -o test_GSupport-test_GSupport.o `test -f 'test_GSupport.cpp' || echo './`test_GSupport.cpp

and here, -I../include, -I../inst/mwl/include, etc. are essential. These includes are missing in your version ...

#4 - 12/06/2012 04:23 PM - Deil Christoph

Hmm, I'll try this branch on mac-ci.mooo.com now, hopefully the issue will show up on that machine where we both have access now.

#5 - 12/06/2012 04:46 PM - Deil Christoph

I see the same missing include -I flags on mac-ci.mooo.com:

clang++ -DHAVE_CONFIG_H -I. -I.. -I/opt/local/Library/Frameworks/Python.framework/Versions/2.7/include/python2.7 -I/opt/local/include -I/opt/local/Library/Frameworks/Python.framework/Versions/2.7/include/python2.7 -I/opt/local/include -g -O2 -c -o test_GSupport-test_GSupport.o `test -f 'test_GSupport.cpp' || echo './``test_GSupport.cpp test_GSupport.cpp:34:10: fatal error: 'GammaLib.hpp' file not found #include "GammaLib.hpp"

1 error generated.

I don't know where to look for the problem ...

#6 - 12/06/2012 05:52 PM - Knödlseder Jürgen

It looks as if the includes are simply ignored.

#7 - 01/08/2014 08:58 PM - Knödlseder Jürgen

Christoph, is this issue still relevant?

#8 - 01/09/2014 01:01 PM - Deil Christoph

The warnings in the original issue description are still there. The error with the missing include is not there any more on my current machine, which runs Mac OS X 10.9 with Xcode 5.

#9 - 01/09/2014 01:10 PM - Knödlseder Jürgen

Indeed, warning are still there. But when I change things I break the package for older autoconf/automake versions.

Since these are still warnings only, we probably have to live with them.