

## ctools - Action #2175

### Detect in ./configure whether cfitsio cannot be found

08/04/2017 10:01 AM - Knödlseeder Jürgen

<b>Status:</b>	New	<b>Start date:</b>	08/04/2017
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assigned To:</b>		<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			
<b>Description</b>			
In case that the cfitsio library cannot be found the following error occurs during the configuration step:			
<pre>checking for swig... /usr/bin/swig checking for ./pyext/ctools/tools_wrap.cpp... yes checking for ./pyext/ctools/tools.py... yes no configure: GammaLib found in /dsm/manip/cta/CTOOLS/gammalib-1.4.0/lib and /dsm/manip/cta/CTOOLS/gammalib-1.4.0/include/gammalib. checking whether GammaLib has been compiled with OpenMP... yes checking for g++ option to support OpenMP... unsupported</pre>			
The ./configure script signals that OpenMP does not exist, but this is in fact due to a failure to find the cfitsio library. Here is what happens in config.log:			
<pre>configure:17317: checking whether GammaLib has been compiled with OpenMP configure:17330: g++ -o conftest -g -O2 -I/dsm/manip/cta/CTOOLS/gammalib-1.4.0/include/gammalib -L/dsm/manip/cta/CTOOLS/gammalib-1.4.0/lib conftest.cpp -lgamma &gt;&amp;5 /usr/bin/ld: warning: libcfitsio.so.2, needed by /dsm/manip/cta/CTOOLS/gammalib-1.4.0/lib/libgamma.so, not found (try using -rpath or -rpath-link) /dsm/manip/cta/CTOOLS/gammalib-1.4.0/lib/libgamma.so: undefined reference to `ffgdes' /dsm/manip/cta/CTOOLS/gammalib-1.4.0/lib/libgamma.so: undefined reference to `ffukyd' /dsm/manip/cta/CTOOLS/gammalib-1.4.0/lib/libgamma.so: undefined reference to `ffgtcl' ...   return 0;   } configure:17334: result: yes configure:17349: checking for g++ option to support OpenMP configure:17364: g++ -o conftest -g -O2 -I/dsm/manip/cta/CTOOLS/gammalib-1.4.0/include/gammalib -L/dsm/manip/cta/CTOOLS/gammalib-1.4.0/lib conftest.cpp -lgamma &gt;&amp;5 conftest.cpp:30:2: error: 'choke' does not name a type choke me ^ In file included from conftest.cpp:32:0: /usr/lib/gcc/x86_64-redhat-linux/4.8.3/include/omp.h:38:3: error: 'omp_lock_t' does not name a type } omp_lock_t; ^ ... configure:17382: g++ -o conftest -g -O2 -fopenmp -I/dsm/manip/cta/CTOOLS/gammalib-1.4.0/include/gammalib -L/dsm/manip/cta/CTOOLS/gammalib-1.4.0/lib conftest.cpp -lgamma &gt;&amp;5 /usr/bin/ld: warning: libcfitsio.so.2, needed by /dsm/manip/cta/CTOOLS/gammalib-1.4.0/lib/libgamma.so, not found (try using -rpath or -rpath-link) /dsm/manip/cta/CTOOLS/gammalib-1.4.0/lib/libgamma.so: undefined reference to `ffgdes' /dsm/manip/cta/CTOOLS/gammalib-1.4.0/lib/libgamma.so: undefined reference to `ffukyd' ... configure:17396: result: unsupported configure:17558: result: no configure:17577: error: The GammaLib library has been built with openMP support but OpenMP is not available on this system. Please install OpenMP or re-build GammaLib without OpenMP support.</pre>			

Adding the cfitsio library to LD\_LIBRARY\_PATH solved the problem.