

## GammaLib - Support #1748

### make error

03/22/2016 06:20 PM - Maier Gernot

<b>Status:</b>	Closed	<b>Start date:</b>	03/22/2016
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assigned To:</b>		<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			
<b>Description</b>			
Hello,			
I am trying to compile ctools (cloned today) on linux and get the following errors when running 'make':			
Include multi-wavelength interface in gammalib Python module. Include CTA instrument interface in gammalib Python module. Include Fermi/LAT instrument interface in gammalib Python module. Include COMPTEL instrument interface in gammalib Python module. running build_ext building '_app' extension creating build creating build/temp.linux-x86_64-3.4 creating build/temp.linux-x86_64-3.4/gammalib gcc -pthread -DDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -fPIC -I../include -I/afs/ihf.de/group/cta/VERITAS/software/FITS/cfitsio/include -I../inst/mwl/include -I../inst/cta/include -I../inst/lat/include -I../inst/com/include -I/afs/ihf.de/group/cta/cta/software/Anaconda/anaconda3/include/python3.4m -c gammalib/app_wrap.cpp -o build/temp.linux-x86_64-3.4/gammalib/app_wrap.o -fopenmp cc1plus: warning: command line option "-Wstrict-prototypes" is valid for Ada/C/ObjC but not for C++ gammalib/app_wrap.cpp: In function 'swig_module_info* SWIG_Python_GetModule()': gammalib/app_wrap.cpp:2452: error: 'PyObject_Import' was not declared in this scope gammalib/app_wrap.cpp: In function 'void SWIG_Python_SetModule(swig_module_info*)': gammalib/app_wrap.cpp:2521: error: 'PyObject_FromVoidPtr' was not declared in this scope gammalib/app_wrap.cpp:2512: warning: unused variable 'swig_empty_runtime_method_table' gammalib/app_wrap.cpp: In function 'swig_type_info* SWIG_Python_TypeQuery(const char*)': gammalib/app_wrap.cpp:2544: error: 'PyObject_AsVoidPtr' was not declared in this scope gammalib/app_wrap.cpp:2549: error: 'PyObject_FromVoidPtr' was not declared in this scope gammalib/app_wrap.cpp: In function 'PyObject* wrap_new_GLog_SWIG_1(PyObject*, PyObject*)': gammalib/app_wrap.cpp:6121: error: 'PyString_Check' was not declared in this scope gammalib/app_wrap.cpp:6122: error: 'PyString_AsString' was not declared in this scope gammalib/app_wrap.cpp:6126: error: 'PyString_AsString' was not declared in this scope gammalib/app_wrap.cpp: In function 'PyObject* wrap_new_GLog_SWIG_2(PyObject*, PyObject*)': gammalib/app_wrap.cpp:6175: error: 'PyString_Check' was not declared in this scope gammalib/app_wrap.cpp:6176: error: 'PyString_AsString' was not declared in this scope gammalib/app_wrap.cpp:6180: error: 'PyString_AsString' was not declared in this scope gammalib/app_wrap.cpp: In function 'PyObject* wrap_new_GLog(PyObject*, PyObject*)': gammalib/app_wrap.cpp:6276: error: 'PyString_Check' was not declared in this scope gammalib/app_wrap.cpp:6295: error: 'PyString_Check' was not declared in this scope gammalib/app_wrap.cpp: In function 'PyObject* _wrap_GLog_open_SWIG_0(PyObject*, PyObject*)': gammalib/app_wrap.cpp:6489: error: 'PyString_Check' was not declared in this scope gammalib/app_wrap.cpp:6490: error: 'PyString_AsString' was not declared in this scope gammalib/app_wrap.cpp:6494: error: 'PyString_AsString' was not declared in this scope gammalib/app_wrap.cpp: In function 'PyObject* wrap_GLog_open_SWIG_1(PyObject*, PyObject*)': gammalib/app_wrap.cpp:6551: error: 'PyString_Check' was not declared in this scope gammalib/app_wrap.cpp:6552: error: 'PyString_AsString' was not declared in this scope gammalib/app_wrap.cpp:6556: error: 'PyString_AsString' was not declared in this scope gammalib/app_wrap.cpp: In function 'PyObject* wrap_GLog_open(PyObject*, PyObject*)': gammalib/app_wrap.cpp:6607: error: 'PyString_Check' was not declared in this scope gammalib/app_wrap.cpp:6631: error: 'PyString_Check' was not declared in this scope gammalib/app_wrap.cpp: In function 'PyObject* _wrap_new_GApplicationPars_SWIG_1(PyObject*, PyObject*)': gammalib/app_wrap.cpp:8784: error: 'PyString_Check' was not declared in this scope gammalib/app_wrap.cpp:8785: error: 'PyString_AsString' was not declared in this scope gammalib/app_wrap.cpp:8789: error: 'PyString_AsString' was not declared in this scope			

gammalib/app\_wrap.cpp: In function 'PyObject\* wrap\_new\_GApplicationPars\_SWIG\_2(PyObject\*, PyObject\*):  
gammalib/app\_wrap.cpp:8836: error: 'PyString\_Check' was not declared in this scope  
gammalib/app\_wrap.cpp:8837: error: 'PyString\_AsString' was not declared in this scope  
gammalib/app\_wrap.cpp:8841: error: 'PyString\_AsString' was not declared in this scope  
gammalib/app\_wrap.cpp: In function 'PyObject\* wrap\_new\_GApplicationPars(PyObject\*, PyObject\*):  
gammalib/app\_wrap.cpp:8945: error: 'PyString\_Check' was not declared in this scope  
gammalib/app\_wrap.cpp:8964: error: 'PyString\_Check' was not declared in this scope  
gammalib/app\_wrap.cpp: In function 'PyObject\* \_wrap\_GApplicationPars\_load\_SWIG\_0(PyObject\*, PyObject\*):  
gammalib/app\_wrap.cpp:9810: error: 'PyString\_Check' was not declared in this scope  
gammalib/app\_wrap.cpp:9811: error: 'PyString\_AsString' was not declared in this scope  
gammalib/app\_wrap.cpp:9815: error: 'PyString\_AsString' was not declared in this scope  
gammalib/app\_wrap.cpp: In function 'PyObject\* wrap\_GApplicationPars\_load\_SWIG\_1(PyObject\*, PyObject\*):  
gammalib/app\_wrap.cpp:9870: error: 'PyString\_Check' was not declared in this scope  
gammalib/app\_wrap.cpp:9871: error: 'PyString\_AsString' was not declared in this scope  
gammalib/app\_wrap.cpp:9875: error: 'PyString\_AsString' was not declared in this scope  
gammalib/app\_wrap.cpp: In function 'PyObject\* wrap\_GApplicationPars\_load(PyObject\*, PyObject\*):  
gammalib/app\_wrap.cpp:9934: error: 'PyString\_Check' was not declared in this scope  
gammalib/app\_wrap.cpp:9958: error: 'PyString\_Check' was not declared in this scope  
gammalib/app\_wrap.cpp: In function 'PyObject\* \_wrap\_GApplicationPars\_save(PyObject\*, PyObject\*):  
gammalib/app\_wrap.cpp:10006: error: 'PyString\_Check' was not declared in this scope  
gammalib/app\_wrap.cpp:10007: error: 'PyString\_AsString' was not declared in this scope  
gammalib/app\_wrap.cpp:10011: error: 'PyString\_AsString' was not declared in this scope  
gammalib/app\_wrap.cpp: In function 'PyObject\* \_wrap\_GApplicationPar\_filename\_SWIG\_0(PyObject\*, PyObject\*):  
gammalib/app\_wrap.cpp:11028: error: 'PyString\_Check' was not declared in this scope  
gammalib/app\_wrap.cpp:11029: error: 'PyString\_AsString' was not declared in this scope  
gammalib/app\_wrap.cpp:11033: error: 'PyString\_AsString' was not declared in this scope  
gammalib/app\_wrap.cpp: In function 'PyObject\* \_wrap\_GApplicationPar\_filename(PyObject\*, PyObject\*):  
gammalib/app\_wrap.cpp:11606: error: 'PyString\_Check' was not declared in this scope  
error: command 'gcc' failed with exit status 1

I am using gcc (GCC) 4.4.7

Thanks for the help

Gernot

**Related issues:**

Related to GammaLib - Action # 1763: Add swig version requirement to user doc...	New	04/14/2016
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**History**

**#1 - 03/23/2016 09:42 AM - Knödlseeder Jürgen**

It happens when compiling gammalib, right?

I suspect that it's a Python - swig compatibility issue. What Python version are you compiling for and what swig version have you installed?

**#2 - 03/23/2016 11:13 AM - Maier Gernot**

Hi Juergen,

solved, thanks for your help.

Was a mixture of two things:

- you were right with swig: the default installed version on my system was very old (1.3.40). Installing a newer one (3.0.8) resolved things.
- a mixup of python versions due to a recent installation of ctapipe.

'make' works now. I guess the many hundreds of warnings like the one below is ok?

/usr/lib/gcc/x86\_64-redhat-linux/4.4.7/../../../../include/c++/4.4.7/bits/basic\_string.h:503: warning: will never be executed  
/usr/lib/gcc/x86\_64-redhat-linux/4.4.7/../../../../include/c++/4.4.7/bits/allocator.h:109: warning: will never be executed

best regards,

Gernot

**#3 - 03/23/2016 11:14 AM - Maier Gernot**

- Status changed from New to Resolved

- % Done changed from 0 to 100

**#4 - 03/23/2016 11:21 AM - Knödseder Jürgen**

user#115 wrote:

'make' works now. I guess the many hundreds of warnings like the one below is ok?

```
/usr/lib/gcc/x86_64-redhat-linux/4.4.7/../../../../include/c++/4.4.7/bits/basic_string.h:503: warning: will never be executed  
/usr/lib/gcc/x86_64-redhat-linux/4.4.7/../../../../include/c++/4.4.7/bits/allocator.h:109: warning: will never be executed
```

I have never seen such warnings. What OS are you using? Could you also provide the complete console output of the make so that I can see where the warnings arise?

**#5 - 03/23/2016 11:41 AM - Maier Gernot**

- File *gammalib.make.log.gz* added

I've attached the output from make.

This is my system:

Linux wgs01.ifh.de 2.6.32-573.12.1.el6.x86\_64 #1 SMP Tue Dec 15 08:24:23 CST 2015 x86\_64 x86\_64 x86\_64 GNU/Linux  
gcc (GCC) 4.4.7 20120313 (Red Hat 4.4.7-11)

best regards,

Gernot

**#6 - 03/23/2016 12:04 PM - Knödseder Jürgen**

user#115 wrote:

I've attached the output from make.

This is my system:

Linux wgs01.ifh.de 2.6.32-573.12.1.el6.x86\_64 #1 SMP Tue Dec 15 08:24:23 CST 2015 x86\_64 x86\_64 x86\_64 GNU/Linux  
gcc (GCC) 4.4.7 20120313 (Red Hat 4.4.7-11)

best regards,

Gernot

Thanks. I found that: <http://stackoverflow.com/questions/14591778/g-warning-will-never-be-executed>.

Looks like this comes from the option -Wunreachable-code that is passed to gcc, for example in

```
gcc -pthread -Wsign-compare -Wunreachable-code -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -fPIC -I../include
-I/afs/ihf.de/group/cta/VERITAS/software/FITS/cfitsio/include -I../inst/mwl/include -I../inst/cta/include -I../inst/lat/include -I../inst/com/include
-I/afs/ihf.de/group/cta/cta/software/Anaconda/anaconda3/envs/cta/include/python3.5m -c gammalib/app_wrap.cpp -o
build/temp.linux-x86_64-3.5/gammalib/app_wrap.o -fopenmp
```

GammaLib does not control the gcc options when building the Python module, but takes whatever was used for compiling Python using the distutils Python module. So I guess that your Python version was compiled with this, but your gcc compiler does not support this option properly (the http link mentions broken code in gcc, removed from gcc-4.5 on).

So I think it's safe to ignore the warnings.

**#7 - 04/11/2016 03:58 PM - Knödlseider Jürgen**

- Status changed from Resolved to Closed

**#8 - 04/14/2016 09:44 PM - Knödlseider Jürgen**

- Related to Action #1763: Add swig version requirement to user documentation added

**Files**

gammalib.make.log.gz	155 KB	03/23/2016	Maier Gernot
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