

GammaLib - Bug #1485

Some clang compiler warnings

06/28/2015 09:00 PM - Deil Christoph

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|---|--------------------|------------------------|------------|
| Status: | Closed | Start date: | 06/28/2015 |
| Priority: | Normal | Due date: | |
| Assigned To: | Knödlseider Jürgen | % Done: | 100% |
| Category: | | Estimated time: | 0.00 hour |
| Target version: | | | |
| Description | | | |
| <p>I'm getting a few compiler warnings on my Macbook.</p> <p>This one is actually a bug:</p> <pre>GMath.cpp:423:9: warning: taking the absolute value of unsigned type 'bool' has no effect [-Wabsolute-value] if (std::abs(arg > 1.0)) { ^ GMath.cpp:423:9: note: remove the call to 'abs' since unsigned values cannot be negative if (std::abs(arg > 1.0)) { ^~~~~~ GMath.cpp:428:14: warning: taking the absolute value of unsigned type 'bool' has no effect [-Wabsolute-value] else if (std::abs(arg == 1.0)) { ^ GMath.cpp:428:14: note: remove the call to 'abs' since unsigned values cannot be negative else if (std::abs(arg == 1.0)) { ^~~~~~</pre> <p>Fix is here ... please merge these two commits: https://github.com/gammalib/gammalib/compare/dev...cdeil:fix-clang-compile-warnings</p> <p>This one is probably platform-dependent ... I don't know if it can be fixed or silenced:</p> <pre>GVOHub.cpp:320:18: warning: comparison of unsigned expression < 0 is always false [-Wtautological-compare] if (m_socket < 0) { ~~~~~ ^ ~ GVOHub.cpp:365:17: warning: comparison of unsigned expression < 0 is always false [-Wtautological-compare] if (socket < 0) { ~~~~~ ^ ~</pre> <p>This one is in SWIG-generated code, I just thought I'd mention it in case it indicates an issue with the Gammalib Python wrapper:</p> <pre>gammalib/sky_wrap.cpp:4032:9: warning: destination for this 'memset' call is a pointer to dynamic class 'GSkyDir'; vtable pointer will be overwritten [-Wdynamic-class-memaccess] memset(v_def,0,sizeof(Type)); ~~~~~ ^ gammalib/sky_wrap.cpp:4057:62: note: in instantiation of member function 'swig::traits_as<GSkyDir, swig::pointer_category>::as' requested here return traits_as<Type, typename traits<Type>::category>::as(obj, te); ^ gammalib/sky_wrap.cpp:4614:15: note: in instantiation of function template specialization 'swig::as<GSkyDir>' requested here return swig::as<T>(item, true); ^ gammalib/sky_wrap.cpp:4849:42: note: in instantiation of member function 'swig::SwigPySequence_Ref<GSkyDir>::operator GSkyDir' requested here</pre> | | | |

```

seq->insert(seq->end(),(value_type)(*it));
      ^
gammalib/sky_wrap.cpp:4871:6: note: in instantiation of function template specialization
'swig::assign<swig::SwigPySequence_Cont<GSkyDir>, std::__1::vector<GSkyDir>, std::__1::allocator<GSkyDir> > >' requested
here
    assign(swigpyseq, pseq);
      ^
gammalib/sky_wrap.cpp:4926:47: note: in instantiation of member function 'swig::traits_asptr_stdseq<std::__1::vector<GSkyDir,
std::__1::allocator<GSkyDir> >, GSkyDir>::asptr' requested here
    return traits_asptr_stdseq<std::vector<T> >::asptr(obj, vec);
           ^
gammalib/sky_wrap.cpp:3949:32: note: in instantiation of member function 'swig::traits_asptr<std::__1::vector<GSkyDir,
std::__1::allocator<GSkyDir> > >::asptr' requested here
    return traits_asptr<Type>::asptr(obj, vptr);
           ^
gammalib/sky_wrap.cpp:17291:18: note: in instantiation of function template specialization 'swig::asptr<std::__1::vector<GSkyDir,
std::__1::allocator<GSkyDir> > >' requested here
    res4 = swig::asptr(obj3, &ptr);
           ^
gammalib/sky_wrap.cpp:4032:9: note: explicitly cast the pointer to silence this warning
    memset(v_def,0,sizeof(Type));
      ^
    (void*)

```

History

#1 - 06/28/2015 09:24 PM - Deil Christoph

One more warning in ctools:

ctselect.cpp:287:41: warning: 'tmpnam' is deprecated: This function is provided for compatibility reasons only. Due to security concerns inherent in the design of tmpnam(3), it is highly recommended that you use mkstemp(3) instead.

[-Wdeprecated-declarations]

```
std::string filename = std::tmpnam(NULL);
      ^
```

/usr/include/stdio.h:276:7: note: 'tmpnam' has been explicitly marked deprecated here

```
char *tmpnam(char *);
      ^
```

#2 - 10/30/2015 05:59 PM - Knödlseher Jürgen

- Status changed from New to Closed

- % Done changed from 0 to 100

I cleaned the code to remove the warning where we have a handle on (does not concern the swig related warnings).