Subject: Proxy dict successfully used for the event loop
Posted by Bertram Kopf on Mon, 02 Nov 2009 12:39:56 GMT
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Hi,
meanwhile, I have introduced a global event class "AbsEvt" which contains just two static proxy dictionaries, one for event lifetime and the other one for job lifetime. I tested the event lifetime proxy dict with the EMC digitization by putting the objects "PndEmcWaveform" into it. How to put it into the proxy, you can find in the new task "EmcDigi/PndEmcHitsToTmpWaveform.cxx" and how to get it back, in the task "EmcDigi/PndEmcTmpWaveformToDigi.cxx".
Note: Here, the PndEmcWaveform objects are only transient objects and will be deleted automatically at the end of each event.
The relevant emc macro is "macro/emc/full_tmpWaveform_emc.C" and can be used alternatively to "macro/emc/full_emc.C".
Since I have no svn write permission for the top "CMakeLists.txt" file, you have to add the following two lines to it:

add_subdirectory (parbase)
add_subdirectory (pndbase)   (<- here to be added)
add_subdirectory (pndbase/globaltasks) (<- here to be added)
add_subdirectory (pnddata)

Best regards,
Bertram.

Subject: Re: Proxy dict successfully used for the event loop
Posted by Johan Messchendorp on Mon, 02 Nov 2009 16:09:42 GMT
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....it has been added in the head!

j.

Subject: Re: Proxy dict successfully used for the event loop
Posted by Bertram Kopf on Mon, 02 Nov 2009 16:10:22 GMT
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Hi,

in the last posting I forgot to mention that one has also to add the following two lines in gconfig/rootlogon.C:

...
gSystem->Load("libBase")
gSystem->Load("libPndBase") (<- here to add)
gSystem->Load("libGlobalTask") (<- here to add)
gSystem->Load("libTrkBase")
...

Cheers,
Bertram.

Subject: Re: Proxy dict successfully used for the event loop
Posted by Johan Messchendorp on Mon, 02 Nov 2009 16:19:33 GMT
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also done .... I changed

gSystem->Load("libGlobalTask")

in

gSystem->Load("libGlobalTasks"),

though....

j.

Subject: Re: Proxy dict successfully used for the event loop
Posted by Mohammad Al-Turany on Wed, 04 Nov 2009 19:47:06 GMT
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Hi,

This stuff is not compiling on Mac OS (Leopard and Snow Leopard). I get the error:

Toggle Spoiler
Quote:
[8%] Built target ParBase
[8%] Building CXX object pndbase/CMakeFiles/PndBase.dir/proxydict/IfdCompositeKey.o
In file included from /usr/include/c++/4.2.1/algorithm:65,
                 from /Users/turany/fairsoft/pandaroot/pndbase/PndStdUtils/string.h:24,
                 from /usr/include/c++/4.2.1/cstring:52,
                 from /usr/include/c++/4.2.1/i686-apple-darwin10/x86_64/bits/c++locale.h:48,
                 from /usr/include/c++/4.2.1/iosfwd:45,
                 from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdKey.h:42,
                 from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.h:26,
                 from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.cxx:2 4:
/usr/include/c++/4.2.1/bits/stl_algobase.h: In static member function 'static _Tp*
std::__copy<true, std::random_access_iterator_tag>::copy(const _Tp*, const _Tp*, _Tp*)':
/usr/include/c++/4.2.1/bits/stl_algobase.h:298: error: 'memmove' is not a member of 'std'
/usr/include/c++/4.2.1/bits/stl_algobase.h: At global scope:
/usr/include/c++/4.2.1/bits/stl_algobase.h:321: error: 'ostreambuf_iterator' was not declared in
this scope
/usr/include/c++/4.2.1/bits/stl_algobase.h:321: error: template argument 2 is invalid
/usr/include/c++/4.2.1/bits/stl_algobase.h:321: error: expected unqualified-id before '>' token
/usr/include/c++/4.2.1/bits/stl_algobase.h:326: error: 'ostreambuf_iterator' was not declared in

this scope
/usr/include/c++/4.2.1/bits/stl_algobase.h:326: error: template argument 2 is invalid
/usr/include/c++/4.2.1/bits/stl_algobase.h:326: error: expected unqualified-id before '>' token
/usr/include/c++/4.2.1/bits/stl_algobase.h:331: error: template declaration of 'typename
__gnu_cxx::__enable_if<std::__is_char<_Tp>::__value, _CharT*>::__type std::__copy_aux'
/usr/include/c++/4.2.1/bits/stl_algobase.h:331: error: 'istreambuf_iterator' was not declared in
this scope
/usr/include/c++/4.2.1/bits/stl_algobase.h:331: error: expected primary-expression before '>'
token
/usr/include/c++/4.2.1/bits/stl_algobase.h:331: error: expected primary-expression before ','
token
/usr/include/c++/4.2.1/bits/stl_algobase.h:331: error: 'istreambuf_iterator' was not declared in
this scope
/usr/include/c++/4.2.1/bits/stl_algobase.h:331: error: expected primary-expression before '>'
token
/usr/include/c++/4.2.1/bits/stl_algobase.h:331: error: expected primary-expression before ','
token
/usr/include/c++/4.2.1/bits/stl_algobase.h:332: error: expected primary-expression before '*'
token
/usr/include/c++/4.2.1/bits/stl_algobase.h:332: error: expected primary-expression before ')'
token
/usr/include/c++/4.2.1/bits/stl_algobase.h:407: error: 'ostreambuf_iterator' was not declared in
this scope
/usr/include/c++/4.2.1/bits/stl_algobase.h:407: error: template argument 2 is invalid
/usr/include/c++/4.2.1/bits/stl_algobase.h:407: error: expected unqualified-id before '>' token
/usr/include/c++/4.2.1/bits/stl_algobase.h: In static member function 'static _Tp*
std::__copy_backward<true, std::random_access_iterator_tag>::__copy_b(const _Tp*, const
_Tp*, _Tp*)':
/usr/include/c++/4.2.1/bits/stl_algobase.h:446: error: 'memmove' is not a member of 'std'
/usr/include/c++/4.2.1/bits/stl_algobase.h: In function 'void std::fill(unsigned char*, unsigned
char*, const unsigned char&)':
/usr/include/c++/4.2.1/bits/stl_algobase.h:600: error: 'memset' is not a member of 'std'
/usr/include/c++/4.2.1/bits/stl_algobase.h: In function 'void std::fill(signed char*, signed char*,
const signed char&)':
/usr/include/c++/4.2.1/bits/stl_algobase.h:608: error: 'memset' is not a member of 'std'
/usr/include/c++/4.2.1/bits/stl_algobase.h: In function 'void std::fill(char*, char*, const char&)':
/usr/include/c++/4.2.1/bits/stl_algobase.h:616: error: 'memset' is not a member of 'std'
/usr/include/c++/4.2.1/bits/stl_algobase.h: In function 'bool std::lexicographical_compare(const
unsigned char*, const unsigned char*, const unsigned char*, const unsigned char*)':
/usr/include/c++/4.2.1/bits/stl_algobase.h:908: error: 'memcmp' is not a member of 'std'
In file included from /usr/include/c++/4.2.1/algorithm:67,
         from /Users/turany/fairsoft/pandaroot/pndbase/PndStdUtils/string.h:24,
         from /usr/include/c++/4.2.1/cstring:52,
         from /usr/include/c++/4.2.1/i686-apple-darwin10/x86_64/bits/c++locale.h:48,
         from /usr/include/c++/4.2.1/iosfwd:45,
         from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdKey.h:42,
         from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.h:26,
         from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.cxx:2 4:
/usr/include/c++/4.2.1/bits/stl_uninitialized.h: In function '_ForwardIterator
std::__uninitialized_copy_aux(_InputIterator, _InputIterator, _ForwardIterator,
std::__false_type)':
/usr/include/c++/4.2.1/bits/stl_uninitialized.h:93: error: '__throw_exception_again' was not

declared in this scope
/usr/include/c++/4.2.1/bits/stl_uninitialized.h: In function 'char* std::uninitialized_copy(const char*, const char*, char*)':
/usr/include/c++/4.2.1/bits/stl_uninitialized.h:120: error: 'memmove' is not a member of 'std'
/usr/include/c++/4.2.1/bits/stl_uninitialized.h: In function 'wchar_t* std::uninitialized_copy(const wchar_t*, const wchar_t*, wchar_t*)':
/usr/include/c++/4.2.1/bits/stl_uninitialized.h:128: error: 'memmove' is not a member of 'std'
/usr/include/c++/4.2.1/bits/stl_uninitialized.h: In function 'void std::__uninitialized_fill_aux(_ForwardIterator, _ForwardIterator, const _Tp&, std::__false_type)':
/usr/include/c++/4.2.1/bits/stl_uninitialized.h:155: error: '__throw_exception_again' was not declared in this scope
/usr/include/c++/4.2.1/bits/stl_uninitialized.h: In function 'void std::__uninitialized_fill_n_aux(_ForwardIterator, _Size, const _Tp&, std::__false_type)':
/usr/include/c++/4.2.1/bits/stl_uninitialized.h:200: error: '__throw_exception_again' was not declared in this scope
/usr/include/c++/4.2.1/bits/stl_uninitialized.h: In function '_ForwardIterator std::__uninitialized_copy_a(_InputIterator, _InputIterator, _ForwardIterator, _Allocator)':
/usr/include/c++/4.2.1/bits/stl_uninitialized.h:245: error: '__throw_exception_again' was not declared in this scope
/usr/include/c++/4.2.1/bits/stl_uninitialized.h: In function 'void std::__uninitialized_fill_a(_ForwardIterator, _ForwardIterator, const _Tp&, _Allocator)':
/usr/include/c++/4.2.1/bits/stl_uninitialized.h:270: error: '__throw_exception_again' was not declared in this scope
/usr/include/c++/4.2.1/bits/stl_uninitialized.h: In function 'void std::__uninitialized_fill_n_a(_ForwardIterator, _Size, const _Tp&, _Allocator)':
/usr/include/c++/4.2.1/bits/stl_uninitialized.h:296: error: '__throw_exception_again' was not declared in this scope
/usr/include/c++/4.2.1/bits/stl_uninitialized.h: In function '_ForwardIterator std::__uninitialized_copy_copy(_InputIterator1, _InputIterator1, _InputIterator2, _InputIterator2, _ForwardIterator, _Allocator)':
/usr/include/c++/4.2.1/bits/stl_uninitialized.h:338: error: '__throw_exception_again' was not declared in this scope
/usr/include/c++/4.2.1/bits/stl_uninitialized.h: In function '_ForwardIterator std::__uninitialized_fill_copy(_ForwardIterator, _ForwardIterator, const _Tp&, _InputIterator, _InputIterator, _Allocator)':
/usr/include/c++/4.2.1/bits/stl_uninitialized.h:361: error: '__throw_exception_again' was not declared in this scope
/usr/include/c++/4.2.1/bits/stl_uninitialized.h: In function 'void std::__uninitialized_copy_fill(_InputIterator, _InputIterator, _ForwardIterator, _ForwardIterator, const _Tp&, _Allocator)':
/usr/include/c++/4.2.1/bits/stl_uninitialized.h:386: error: '__throw_exception_again' was not declared in this scope
In file included from /usr/include/c++/4.2.1/algorithm:68,
          from /Users/turany/fairsoft/pandaroot/pndbase/PndStdUtils/string.h:24,
          from /usr/include/c++/4.2.1/cstring:52,
          from /usr/include/c++/4.2.1/i686-apple-darwin10/x86_64/bits/c++locale.h:48,
          from /usr/include/c++/4.2.1/iosfwd:45,
          from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdKey.h:42,
          from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.h:26,
          from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.cxx:2 4:
/usr/include/c++/4.2.1/bits/stl_algo.h: At global scope:

/usr/include/c++/4.2.1/bits/stl_algo.h:304: error: 'istreambuf_iterator' was not declared in this scope
/usr/include/c++/4.2.1/bits/stl_algo.h:304: error: template argument 2 is invalid
/usr/include/c++/4.2.1/bits/stl_algo.h:304: error: expected unqualified-id before '>' token
In file included from /usr/include/c++/4.2.1/string:47,
                 from /Users/turany/fairsoft/pandaroot/pndbase/PndStdUtils/string.h:25,
                 from /usr/include/c++/4.2.1/cstring:52,
                 from /usr/include/c++/4.2.1/i686-apple-darwin10/x86_64/bits/c++locale.h:48,
                 from /usr/include/c++/4.2.1/iosfwd:45,
                 from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdKey.h:42,
                 from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.h:26,
                 from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.cxx:2 4:
/usr/include/c++/4.2.1/bits/char_traits.h: In static member function 'static typename
__gnu_cxx::char_traits<_CharT>::char_type*
__gnu_cxx::char_traits<_CharT>::move(_CharT*, const _CharT*, size_t)':
/usr/include/c++/4.2.1/bits/char_traits.h:186: error: 'memmove' is not a member of 'std'
/usr/include/c++/4.2.1/bits/char_traits.h: In static member function 'static int
std::char_traits<char>::compare(const char*, const char*, size_t)':
/usr/include/c++/4.2.1/bits/char_traits.h:254: error: 'memcmp' was not declared in this scope
/usr/include/c++/4.2.1/bits/char_traits.h: In static member function 'static size_t
std::char_traits<char>::length(const char*)':
/usr/include/c++/4.2.1/bits/char_traits.h:258: error: 'strlen' was not declared in this scope
/usr/include/c++/4.2.1/bits/char_traits.h: In static member function 'static const char*
std::char_traits<char>::find(const char*, size_t, const char&)':
/usr/include/c++/4.2.1/bits/char_traits.h:262: error: 'memchr' was not declared in this scope
/usr/include/c++/4.2.1/bits/char_traits.h: In static member function 'static char*
std::char_traits<char>::move(char*, const char*, size_t)':
/usr/include/c++/4.2.1/bits/char_traits.h:266: error: 'memmove' was not declared in this scope
/usr/include/c++/4.2.1/bits/char_traits.h: In static member function 'static char*
std::char_traits<char>::copy(char*, const char*, size_t)':
/usr/include/c++/4.2.1/bits/char_traits.h:270: error: 'memcpy' was not declared in this scope
/usr/include/c++/4.2.1/bits/char_traits.h: In static member function 'static char*
std::char_traits<char>::assign(char*, size_t, char)':
/usr/include/c++/4.2.1/bits/char_traits.h:274: error: 'memset' was not declared in this scope
In file included from /usr/include/c++/4.2.1/string:51,
                 from /Users/turany/fairsoft/pandaroot/pndbase/PndStdUtils/string.h:25,
                 from /usr/include/c++/4.2.1/cstring:52,
                 from /usr/include/c++/4.2.1/i686-apple-darwin10/x86_64/bits/c++locale.h:48,
                 from /usr/include/c++/4.2.1/iosfwd:45,
                 from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdKey.h:42,
                 from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.h:26,
                 from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.cxx:2 4:
/usr/include/c++/4.2.1/bits/ostream_insert.h: At global scope:
/usr/include/c++/4.2.1/bits/ostream_insert.h:46: error: variable or field '__ostream_write' declared void
/usr/include/c++/4.2.1/bits/ostream_insert.h:46: error: 'basic_ostream' was not declared in this scope
/usr/include/c++/4.2.1/bits/ostream_insert.h:46: error: expected primary-expression before ',' token
/usr/include/c++/4.2.1/bits/ostream_insert.h:46: error: expected primary-expression before '>' token
/usr/include/c++/4.2.1/bits/ostream_insert.h:46: error: '__out' was not declared in this scope

/usr/include/c++/4.2.1/bits/ostream_insert.h:47: error: expected primary-expression before 'const'

/usr/include/c++/4.2.1/bits/ostream_insert.h:47: error: expected primary-expression before '__n'

/usr/include/c++/4.2.1/bits/ostream_insert.h:59: error: variable or field '__ostream_fill' declared void

/usr/include/c++/4.2.1/bits/ostream_insert.h:59: error: 'basic_ostream' was not declared in this scope

/usr/include/c++/4.2.1/bits/ostream_insert.h:59: error: expected primary-expression before ',' token

/usr/include/c++/4.2.1/bits/ostream_insert.h:59: error: expected primary-expression before '>' token

/usr/include/c++/4.2.1/bits/ostream_insert.h:59: error: '__out' was not declared in this scope

/usr/include/c++/4.2.1/bits/ostream_insert.h:59: error: expected primary-expression before '__n'

/usr/include/c++/4.2.1/bits/ostream_insert.h:77: error: expected constructor, destructor, or type conversion before '<' token

/usr/include/c++/4.2.1/bits/ostream_insert.h:116: error: explicit instantiation of non-template 'int std::ostream'

/usr/include/c++/4.2.1/bits/ostream_insert.h:116: error: expected `;' before '&' token

/usr/include/c++/4.2.1/bits/ostream_insert.h:119: error: explicit instantiation of non-template 'int std::wostream'

/usr/include/c++/4.2.1/bits/ostream_insert.h:119: error: expected `;' before '&' token

In file included from /usr/include/c++/4.2.1/string:54,
         from /Users/turany/fairsoft/pandaroot/pndbase/PndStdUtils/string.h:25,
         from /usr/include/c++/4.2.1/cstring:52,
         from /usr/include/c++/4.2.1/i686-apple-darwin10/x86_64/bits/c++locale.h:48,
         from /usr/include/c++/4.2.1/iosfwd:45,
         from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdKey.h:42,
         from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.h:26,
         from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.cxx:2 4:

/usr/include/c++/4.2.1/bits/basic_string.h:2390: error: expected constructor, destructor, or type conversion before '<' token

/usr/include/c++/4.2.1/bits/basic_string.h:2395: error: expected constructor, destructor, or type conversion before '<' token

/usr/include/c++/4.2.1/bits/basic_string.h:2408: error: expected initializer before '<' token

/usr/include/c++/4.2.1/bits/basic_string.h:2431: error: expected constructor, destructor, or type conversion before '<' token

/usr/include/c++/4.2.1/bits/basic_string.h:2448: error: expected initializer before '<' token

/usr/include/c++/4.2.1/bits/basic_string.h:2454: error: expected constructor, destructor, or type conversion before '<' token

/usr/include/c++/4.2.1/bits/basic_string.h:2460: error: expected constructor, destructor, or type conversion before '<' token

In file included from /usr/include/c++/4.2.1/string:58,
         from /Users/turany/fairsoft/pandaroot/pndbase/PndStdUtils/string.h:25,
         from /usr/include/c++/4.2.1/cstring:52,
         from /usr/include/c++/4.2.1/i686-apple-darwin10/x86_64/bits/c++locale.h:48,
         from /usr/include/c++/4.2.1/iosfwd:45,
         from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdKey.h:42,
         from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.h:26,
         from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.cxx:2 4:

/usr/include/c++/4.2.1/bits/basic_string.tcc:981: error: explicit instantiation of non-template 'int std::basic_istream'

/usr/include/c++/4.2.1/bits/basic_string.tcc:981: error: expected `;' before '<' token

/usr/include/c++/4.2.1/bits/basic_string.tcc:984: error: explicit instantiation of non-template 'int std::basic_ostream'
/usr/include/c++/4.2.1/bits/basic_string.tcc:984: error: expected `;' before '<' token
/usr/include/c++/4.2.1/bits/basic_string.tcc:987: error: explicit instantiation of non-template 'int std::basic_istream'
/usr/include/c++/4.2.1/bits/basic_string.tcc:987: error: expected `;' before '<' token
/usr/include/c++/4.2.1/bits/basic_string.tcc:990: error: explicit instantiation of non-template 'int std::basic_istream'
/usr/include/c++/4.2.1/bits/basic_string.tcc:990: error: expected `;' before '<' token
/usr/include/c++/4.2.1/bits/basic_string.tcc:996: error: explicit instantiation of non-template 'int std::basic_istream'
/usr/include/c++/4.2.1/bits/basic_string.tcc:996: error: expected `;' before '<' token
/usr/include/c++/4.2.1/bits/basic_string.tcc:999: error: explicit instantiation of non-template 'int std::basic_ostream'
/usr/include/c++/4.2.1/bits/basic_string.tcc:999: error: expected `;' before '<' token
/usr/include/c++/4.2.1/bits/basic_string.tcc:1002: error: explicit instantiation of non-template 'int std::basic_istream'
/usr/include/c++/4.2.1/bits/basic_string.tcc:1002: error: expected `;' before '<' token
/usr/include/c++/4.2.1/bits/basic_string.tcc:1005: error: explicit instantiation of non-template 'int std::basic_istream'
/usr/include/c++/4.2.1/bits/basic_string.tcc:1005: error: expected `;' before '<' token
In file included from /usr/include/c++/4.2.1/i686-apple-darwin10/x86_64/bits/c++locale.h:48,
                 from /usr/include/c++/4.2.1/iosfwd:45,
                 from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdKey.h:42,
                 from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.h:26,
                 from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.cxx:2 4:
/usr/include/c++/4.2.1/cstring:80: error: '::memcpy' has not been declared
/usr/include/c++/4.2.1/cstring:81: error: '::memmove' has not been declared
/usr/include/c++/4.2.1/cstring:82: error: '::strcpy' has not been declared
/usr/include/c++/4.2.1/cstring:83: error: '::strncpy' has not been declared
/usr/include/c++/4.2.1/cstring:84: error: '::strcat' has not been declared
/usr/include/c++/4.2.1/cstring:85: error: '::strncat' has not been declared
/usr/include/c++/4.2.1/cstring:86: error: '::memcmp' has not been declared
/usr/include/c++/4.2.1/cstring:87: error: '::strcmp' has not been declared
/usr/include/c++/4.2.1/cstring:88: error: '::strcoll' has not been declared
/usr/include/c++/4.2.1/cstring:89: error: '::strncmp' has not been declared
/usr/include/c++/4.2.1/cstring:90: error: '::strxfrm' has not been declared
/usr/include/c++/4.2.1/cstring:91: error: '::strcspn' has not been declared
/usr/include/c++/4.2.1/cstring:92: error: '::strspn' has not been declared
/usr/include/c++/4.2.1/cstring:93: error: '::strtok' has not been declared
/usr/include/c++/4.2.1/cstring:94: error: '::memset' has not been declared
/usr/include/c++/4.2.1/cstring:95: error: '::strerror' has not been declared
/usr/include/c++/4.2.1/cstring:96: error: '::strlen' has not been declared
/usr/include/c++/4.2.1/cstring:98: error: '::memchr' has not been declared
/usr/include/c++/4.2.1/cstring: In function 'void* std::memchr(void*, int, size_t)':
/usr/include/c++/4.2.1/cstring:102: error: invalid conversion from 'const void*' to 'void*'
/usr/include/c++/4.2.1/cstring:102: error: initializing argument 1 of 'void* std::memchr(void*, int, size_t)'
/usr/include/c++/4.2.1/cstring: At global scope:
/usr/include/c++/4.2.1/cstring:104: error: '::strchr' has not been declared
/usr/include/c++/4.2.1/cstring:110: error: '::strpbrk' has not been declared
/usr/include/c++/4.2.1/cstring:116: error: '::strrchr' has not been declared

/usr/include/c++/4.2.1/cstring:122: error: '::strstr' has not been declared
In file included from /usr/include/c++/4.2.1/iosfwd:45,
      from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdKey.h:42,
      from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.h:26,
      from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.cxx:2 4:
/usr/include/c++/4.2.1/i686-apple-darwin10/x86_64/bits/c++locale.h: In function 'int
std::__convert_from_v(int* const&, char*, int, const char*, ...)':
/usr/include/c++/4.2.1/i686-apple-darwin10/x86_64/bits/c++locale.h:69: error: 'strcmp' is not a
member of 'std'
/usr/include/c++/4.2.1/i686-apple-darwin10/x86_64/bits/c++locale.h:71: error: 'strlen' is not a
member of 'std'
/usr/include/c++/4.2.1/i686-apple-darwin10/x86_64/bits/c++locale.h:72: error: 'strcpy' is not a
member of 'std'
In file included from /usr/include/c++/4.2.1/bits/ios_base.h:47,
      from /usr/include/c++/4.2.1/ios:48,
      from /usr/include/c++/4.2.1/ostream:45,
      from /usr/include/c++/4.2.1/iostream:45,
      from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdKey.h:43,
      from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.h:26,
      from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.cxx:2 4:
/usr/include/c++/4.2.1/bits/locale_classes.h: In member function 'bool
std::locale::_Impl::_M_check_same_name()':
/usr/include/c++/4.2.1/bits/locale_classes.h:539: error: 'strcmp' is not a member of 'std'
In file included from /usr/include/c++/4.2.1/bits/basic_ios.h:44,
      from /usr/include/c++/4.2.1/ios:50,
      from /usr/include/c++/4.2.1/ostream:45,
      from /usr/include/c++/4.2.1/iostream:45,
      from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdKey.h:43,
      from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.h:26,
      from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.cxx:2 4:
/usr/include/c++/4.2.1/bits/locale_facets.h: In member function 'const char*
std::ctype<char>::widen(const char*, const char*, char*) const':
/usr/include/c++/4.2.1/bits/locale_facets.h:898: error: 'memcpy' was not declared in this scope
/usr/include/c++/4.2.1/bits/locale_facets.h: In member function 'const char*
std::ctype<char>::narrow(const char*, const char*, char, char*) const':
/usr/include/c++/4.2.1/bits/locale_facets.h:963: error: 'memcpy' was not declared in this scope
/usr/include/c++/4.2.1/bits/locale_facets.h: In member function 'virtual const char*
std::ctype<char>::do_widen(const char*, const char*, char*) const':
/usr/include/c++/4.2.1/bits/locale_facets.h:1100: error: 'memcpy' was not declared in this scope
/usr/include/c++/4.2.1/bits/locale_facets.h: In member function 'virtual const char*
std::ctype<char>::do_narrow(const char*, const char*, char, char*) const':
/usr/include/c++/4.2.1/bits/locale_facets.h:1153: error: 'memcpy' was not declared in this scope
/usr/include/c++/4.2.1/bits/locale_facets.h: In member function 'void
std::ctype<char>::_M_widen_init() const':
/usr/include/c++/4.2.1/bits/locale_facets.h:1168: error: 'memcmp' was not declared in this
scope
/usr/include/c++/4.2.1/bits/locale_facets.h: In member function 'void
std::ctype<char>::_M_narrow_init() const':
/usr/include/c++/4.2.1/bits/locale_facets.h:1183: error: 'memcmp' was not declared in this
scope
In file included from /usr/include/c++/4.2.1/bits/locale_facets.h:1536,
      from /usr/include/c++/4.2.1/bits/basic_ios.h:44,

from /usr/include/c++/4.2.1/ios:50,
from /usr/include/c++/4.2.1/ostream:45,
from /usr/include/c++/4.2.1/iostream:45,
from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdKey.h:43,
from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.h:26,
from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.cxx:2 4:
/usr/include/c++/4.2.1/bits/codecvt.h: In constructor 'std::codecvt_byname<_InternT, _ExternT, _StateT>::codecvt_byname(const char*, size_t)':
/usr/include/c++/4.2.1/bits/codecvt.h:460: error: 'strcmp' is not a member of 'std'
/usr/include/c++/4.2.1/bits/codecvt.h:460: error: 'strcmp' is not a member of 'std'
In file included from /usr/include/c++/4.2.1/bits/basic_ios.h:44,
from /usr/include/c++/4.2.1/ios:50,
from /usr/include/c++/4.2.1/ostream:45,
from /usr/include/c++/4.2.1/iostream:45,
from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdKey.h:43,
from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.h:26,
from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.cxx:2 4:
/usr/include/c++/4.2.1/bits/locale_facets.h: In constructor
'std::numpunct_byname<_CharT>::numpunct_byname(const char*, size_t)':
/usr/include/c++/4.2.1/bits/locale_facets.h:1904: error: 'strcmp' is not a member of 'std'
/usr/include/c++/4.2.1/bits/locale_facets.h:1904: error: 'strcmp' is not a member of 'std'
/usr/include/c++/4.2.1/bits/locale_facets.h: In constructor
'std::collate_byname<_CharT>::collate_byname(const char*, size_t)':
/usr/include/c++/4.2.1/bits/locale_facets.h:2726: error: 'strcmp' is not a member of 'std'
/usr/include/c++/4.2.1/bits/locale_facets.h:2726: error: 'strcmp' is not a member of 'std'
In file included from /usr/include/c++/4.2.1/bits/locale_facets.h:3040,
from /usr/include/c++/4.2.1/bits/basic_ios.h:44,
from /usr/include/c++/4.2.1/ios:50,
from /usr/include/c++/4.2.1/ostream:45,
from /usr/include/c++/4.2.1/iostream:45,
from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdKey.h:43,
from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.h:26,
from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.cxx:2 4:
/usr/include/c++/4.2.1/i686-apple-darwin10/x86_64/bits/time_members.h: In constructor
'std::__timepunct<_CharT>::__timepunct(int*, const char*, size_t)':
/usr/include/c++/4.2.1/i686-apple-darwin10/x86_64/bits/time_members.h:65 : error: 'strlen' is not a member of 'std'
/usr/include/c++/4.2.1/i686-apple-darwin10/x86_64/bits/time_members.h:67 : error: 'memcpy' is not a member of 'std'
In file included from /usr/include/c++/4.2.1/bits/basic_ios.h:44,
from /usr/include/c++/4.2.1/ios:50,
from /usr/include/c++/4.2.1/ostream:45,
from /usr/include/c++/4.2.1/iostream:45,
from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdKey.h:43,
from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.h:26,
from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.cxx:2 4:
/usr/include/c++/4.2.1/bits/locale_facets.h: In constructor 'std::moneypunct_byname<_CharT, _Intl>::moneypunct_byname(const char*, size_t)':
/usr/include/c++/4.2.1/bits/locale_facets.h:4014: error: 'strcmp' is not a member of 'std'
/usr/include/c++/4.2.1/bits/locale_facets.h:4014: error: 'strcmp' is not a member of 'std'
In file included from /usr/include/c++/4.2.1/bits/locale_facets.h:4599,
from /usr/include/c++/4.2.1/bits/basic_ios.h:44,

```
                from /usr/include/c++/4.2.1/ios:50,
                from /usr/include/c++/4.2.1/ostream:45,
                from /usr/include/c++/4.2.1/iostream:45,
                from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdKey.h:43,
                from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.h:26,
                from /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.cxx:2 4:
 /usr/include/c++/4.2.1/i686-apple-darwin10/x86_64/bits/messages_members. h: In constructor
'std::messages_byname<_CharT>::messages_byname(const char*, size_t)':
 /usr/include/c++/4.2.1/i686-apple-darwin10/x86_64/bits/messages_members. h:86: error:
'strcmp' is not a member of 'std'
 /usr/include/c++/4.2.1/i686-apple-darwin10/x86_64/bits/messages_members. h:86: error:
'strcmp' is not a member of 'std'
/usr/include/c++/4.2.1/ostream: In function 'std::basic_ostream<char, _Traits>&
std::operator<<(std::basic_ostream<char, _Traits>&, const char*) [with _Traits =
std::char_traits<char>]':
 /Users/turany/fairsoft/pandaroot/pndbase/proxydict/IfdCompositeKey.cxx:8 6:   instantiated
from here
/usr/include/c++/4.2.1/ostream:517: error: '__ostream_insert' was not declared in this scope
```

as you can see it is related to the namespaces and the fact that BaBar re-implement the
string.h in there own namespace (here panda namespace). But searching for for namespaces
in the pndbase, the panda namespace seems to be defined but not used.

Toggle Spoiler

Quote:
PndStdUtils/PndCollectionUtils.h:namespace panda {
PndStdUtils/PndCollectionUtils.h: namespace Collection {
PndStdUtils/PndIOStreamUtils.h:namespace panda {
PndStdUtils/PndIOStreamUtils.h: namespace IOStream {
PndStdUtils/PndIOStreamUtils.h: } // end namespace IOStream
PndStdUtils/PndIOStreamUtils.h:} // end namespace babar
PndStdUtils/PndPairUtils.h:namespace panda {
PndStdUtils/PndPairUtils.h: namespace Pair {
PndStdUtils/String.cxx://   The functions, within this namespace, are needed by BaBar to
replace
PndStdUtils/String.h://   The functions, within this namespace, are needed by BaBar to
replace
PndStdUtils/String.h:namespace panda {
PndStdUtils/String.h: namespace String {
PndStdUtils/testRegEx.cc.org:using namespace babar::String;
PndStdUtils/testString.cc.org:using namespace babar::String;
PndStdUtils/testTokenize.cc.org:using namespace babar::String;
PndStdUtils/Tokenize.h:namespace panda {
PndStdUtils/Tokenize.h: namespace String {
proxydict/IfdCompositeKey.h:using namespace std;

proxydict/IfdCounter.cxx: // the static live in the global namespace.
proxydict/IfdIntKey.h:using namespace std;
proxydict/IfdKey.h:using namespace std;
proxydict/IfdStrKey.h:using namespace std;
proxydict/IfdTestClasses.h:using namespace std;
proxydict/IfdTypeKey.h:using namespace std;
proxydict/IfdTypeKeyIFace.h:using namespace std;

On Linux I could compile the stuff but could not run it.

Quote:
Error: Symbol PndEmcHitsToTmpWaveform is not defined in current scope
full_tmpWaveform_emc.C:73:
Error: Symbol PndEmcHitsToTmpWaveform is not defined in current scope
full_tmpWaveform_emc.C:73:
Error: type PndEmcHitsToTmpWaveform not defined
FILE:/home/turany/pandaroot/macro/emc/./full_tmpWaveform_emc.C LINE:73
Warning: Automatic variable PndEmcHitsToTmpWaveform* emcHitsToTmpWaveform is
allocated full_tmpWaveform_emc.C:73:
Error: Undeclared variable PndEmcHitsToTmpWaveform* emcHitsToTmpWaveform
full_tmpWaveform_emc.C:73:

even though, the libraries are loaded.

Now to the general questions, this stuff is a copy of the BaBar stuff, do we have anybody who
really can maintain this, modify it and develop it further?

Looking to the example task, it is a FairTask but without Init, and just create a dictionary in the
exec (i.e. for each event) is that what we need, an event by event dictionary?

there is also a lot of other technical questions, but the main one is what is this package is
good for? this is still not really clear for me.

regards

Mohammad

Subject: Re: Proxy dict successfully used for the event loop
Posted by Bertram Kopf on Thu, 05 Nov 2009 01:52:34 GMT
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Hi Mohammad,
thanks for the bug report. I committed some bug fixes.
Try it now and and let me know if it is compiling and the emc macro is running properly.

Cheers,
Bertram.

Subject: Re: Proxy dict successfully used for the event loop
Posted by Mohammad Al-Turany on Thu, 05 Nov 2009 07:47:43 GMT
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Hallo Bertram,

Now it compile also on MAC, it runs properly on Linux too. Thanks!

regards

Mohammad

Subject: Re: Proxy dict successfully used for the event loop
Posted by Bertram Kopf on Thu, 05 Nov 2009 13:34:39 GMT
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Hi Mohammad,
Mohammad Al-Turany wrote
Now to the general questions, this stuff is a copy of the BaBar stuff, do we have anybody who really can maintain this, modify it and develop it further?

This stuff is well tested and seems to work also in the new software environment. Since it is (or will be) part of the internal PndRoot software, it is possible for us -if needed - to modify and develop it further. The maintenance is also not difficult, since the code doesn't depend on anything (apart of the std template library) and is just written in c++ utilizing a couple of templates.
BTW: Why do we use Geant3? It is not maintaining anymore. And it is even an external package which we can not easily modify or maintain.

Mohammad Al-Turany wrote
Looking to the example task, it is a FairTask but without Init, and just create a dictionary in the exec (i.e. for each event) is that what we need, an event by event dictionary?

Yes! This is exactly that what I wanted to introduce. An event lifetime dictionary and in addition a job lifetime dictionary (not yet implemented).
The purpose of the event lifetime dictionary is to store and get access to objects which only exists within one event. The proxy takes care of deleting all pointers which are put into this dictionary.
The major purpose of the job lifetime proxy dict is to store and get access to condition objects which do not necessarily change from event to event. In principle, this proxy dict should be used as an interface to the conditions database.
I think, another advantage is, that this proxy provides the data in a type-safe way. Therefore error-prone casts are not needed in our software code.

Best regards,
Bertram.

Subject: Re: Proxy dict successfully used for the event loop
Posted by Mohammad Al-Turany on Thu, 05 Nov 2009 13:53:26 GMT
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Hi,

fine for me, if it is really needed, and if it can be maintained and developed it is ok.

Quote:
BTW: Why do we use Geant3? It is not maintaining anymore. And it is even an external package which we can not easily modify or maintain.

Geant3 in cernlib is not maintained any more and what we use it Geant3VMC which is maintained by the ROOT team and ALICE collaboration, we also participate in the development and maintenance so we can easily change things if needed. The fact that it is external tells you that if it comes to a dead end we just remove it without any effect to our software. But here with the Babar stuff it is different, First it is inside our stuff and you want to integrate it everywhere so taken this out or replacing it is not as easy as removing G3.

Quote:The major purpose of the job lifetime proxy dict is to store and get access to condition objects which do not necessarily change from event to event. In principle, this proxy dict should be used as an interface to the conditions database.

You said also that this "job lifetime proxy" is not yet implemented, what about the connection to the database? is the plan now to implement (or port?) everything here, including a version management system and so on?

regards

Mohammad

Subject: Re: Proxy dict successfully used for the event loop
Posted by Bertram Kopf on Thu, 05 Nov 2009 14:08:55 GMT
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Hi,

Mohammad Al-Turany wrote
You said also that this "job lifetime proxy" is not yet implemented, what about the connection to the database? is the plan now to implement (or port?) everything here, including a version management system and so on?

Of course. This is planned on a longer time scale. The first step is done. Namely to provide some tools which are very useful for the connection to the database.

Cheers,
Bertram.

Subject: Re: Proxy dict successfully used for the event loop
Posted by Mohammad Al-Turany on Thu, 05 Nov 2009 14:13:52 GMT

Hi,

Great, we had problems to find somebody doing the table design, validation and so on for panda, So if you now take this then we (Here in FairRoot) do not need to care about this issue and we can also remove the runtime database completely from the panda part.

Regards

Mohammad

Subject: Re: Proxy dict successfully used for the event loop
Posted by Johan Messchendorp on Thu, 05 Nov 2009 22:08:03 GMT

Hold the horses! This goes too fast according to my taste. I find it perfectly OK to try out new things and learn from it. But we *cannot* decide by forum to forget about the existing runtime database tools! This we seriously need to discuss among the developers first.

Johan.