U++ - Bug #562
Revision 6519 breaks Core on Linux

11/03/2013 04:53 PM - Jan Dolinár

Status:	Rejected	**Start date:**	11/03/2013
Priority:	High	**Due date:**	
Assignee:	Miroslav Fidler	**% Done:**	0%
Category:	Core	**Estimated time:**	0.00 hour
Target version:		**Spent time:**	0.00 hour

Description

Both GCC and Clang compilers are affected.

With Clang 3.3:

```
----- Core ( MT SSE2 GCC DEBUG SHARED DEBUG_FULL BLITZ LINUX POSIX )
BLITZ: Cpu.cpp Mt.cpp sheap.cpp String.cpp WString.cpp StrUtil.cpp Bom.cpp Path.cpp NetNode.cpp App.cpp Stream.cpp Blo
  ckStream.cpp FilterStream.cpp Log.cpp Debug.cpp Ini.cpp Util.cpp mathutil.cpp LocalProcess.cpp Vcont.cpp Hash.cpp Call
  back.cpp TimeDate.cpp Value.cpp Format.cpp Convert.cpp Color.cpp Gtypes.cpp t.cpp Lang.cpp LangInfo.cpp parser.cpp
XML
  .cpp Xmlize.cpp JSON.cpp Uuid.cpp Ptr.cpp z.cpp Topic.cpp CoWork.cpp MD5.cpp SHA1.cpp InetUtil.cpp Socket.cpp
Http.cpp
   Dli.cpp Win32Util.cpp
In file included from /home/h/.upp.out/watchdog/Core/CLANG.Debug.Debug_Full.Mt.Shared.Sse2/$blitz.cpp:3:
In file included from /home/h/upp-production/uppsrc/Core/Cpu.cpp:1:
In file included from /home/h/upp-production/uppsrc/Core/Core.h:244:
/home/h/upp-production/uppsrc/Core/Defs.h:436:55: error: no member named 'IsNullInstance' in 'Upp::Ref'
template <class T> bool IsNull(const T& x) { return x.IsNullInstance(); }
                                      ~ ^
/home/h/upp-production/uppsrc/Core/ValueUtil.h:95:70: note: in instantiation of function template specialization 'Upp:
  :IsNull<Upp::Ref>' requested here
    virtual bool  IsNull(const void *p) const           { return UPP::IsNull(*(T *) p); }
                                                               ^
/home/h/upp-production/uppsrc/Core/Other.h:5:12: note: in instantiation of member function 'Upp::StdRef<Upp::Ref>::IsN
  ull' requested here
        static T o;
           ^
/home/h/upp-production/uppsrc/Core/ValueUtil.h:130:54: note: in instantiation of function template specialization 'Upp
  ::Single<Upp::StdRef<Upp::Ref> >' requested here
    Ref(T& x)                   { ptr = &x; m = &Single< StdRef<T> >(); }
                                                 ^
/home/h/upp-production/uppsrc/Core/ValueUtil.h:153:59: note: in instantiation of function template specialization 'Upp
  ::Ref::Ref<Upp::Ref>' requested here
inline String&  RefString(Ref f)  { return GetRef<String>(f); } // Deprecated, use Ref::Get<T>
                                           ^
/home/h/upp-production/uppsrc/Core/ValueUtil.h:130:43: error: assigning to 'void *' from incompatible type 'const Upp:
  :Value *'
    Ref(T& x)                   { ptr = &x; m = &Single< StdRef<T> >(); }
                                     ^ ~~
/home/h/upp-production/uppsrc/Core/ValueUtil.h:96:69: note: in instantiation of function template specialization 'Upp:
  :Ref::Ref<const Upp::Value>' requested here
    virtual void  SetValue(void *p, const Value& v) const { *(T *) p = (T)v; }
                                                               ^
/home/h/upp-production/uppsrc/Core/Other.h:5:12: note: in instantiation of member function 'Upp::StdRef<Upp::Ref>::Set
  Value' requested here
```

```
        static T o;
               ^
/home/h/upp-production/uppsrc/Core/ValueUtil.h:130:54: note: in instantiation of function template specialization 'Upp
   ::Single<Upp::StdRef<Upp::Ref> >' requested here
    Ref(T& x)                   { ptr = &x; m = &Single< StdRef<T> >(); }
                                          ^
/home/h/upp-production/uppsrc/Core/ValueUtil.h:153:59: note: in instantiation of function template specialization 'Upp
   ::Ref::Ref<Upp::Ref>' requested here
inline String&  RefString(Ref f)  { return GetRef<String>(f); } // Deprecated, use Ref::Get<T>
                                          ^
/home/h/upp-production/uppsrc/Core/ValueUtil.h:96:67: error: no viable overloaded '='
    virtual void  SetValue(void *p, const Value& v) const { *(T *) p = (T)v; }
                                        ~~~~~~~~ ^ ~~~~
/home/h/upp-production/uppsrc/Core/Other.h:5:12: note: in instantiation of member function 'Upp::StdRef<const Upp::Val
   ue>::SetValue' requested here
        static T o;
               ^
/home/h/upp-production/uppsrc/Core/ValueUtil.h:130:54: note: in instantiation of function template specialization 'Upp
   ::Single<Upp::StdRef<const Upp::Value> >' requested here
    Ref(T& x)                   { ptr = &x; m = &Single< StdRef<T> >(); }
                                          ^
/home/h/upp-production/uppsrc/Core/ValueUtil.h:96:69: note: in instantiation of function template specialization 'Upp:
   :Ref::Ref<const Upp::Value>' requested here
    virtual void  SetValue(void *p, const Value& v) const { *(T *) p = (T)v; }
                                                ^
/home/h/upp-production/uppsrc/Core/Other.h:5:12: note: in instantiation of member function 'Upp::StdRef<Upp::Ref>::Set
   Value' requested here
        static T o;
               ^
/home/h/upp-production/uppsrc/Core/ValueUtil.h:130:54: note: in instantiation of function template specialization 'Upp
   ::Single<Upp::StdRef<Upp::Ref> >' requested here
    Ref(T& x)                   { ptr = &x; m = &Single< StdRef<T> >(); }
                                          ^
/home/h/upp-production/uppsrc/Core/ValueUtil.h:153:59: note: in instantiation of function template specialization 'Upp
   ::Ref::Ref<Upp::Ref>' requested here
inline String&  RefString(Ref f)  { return GetRef<String>(f); } // Deprecated, use Ref::Get<T>
                                          ^
/home/h/upp-production/uppsrc/Core/Value.cpp:31:15: note: candidate function not viable: 'this' argument has type 'con
   st Upp::Value', but method is not marked const
Value& Value::operator=(const Value& v) {
          ^
In file included from /home/h/.upp.out/watchdog/Core/CLANG.Debug.Debug_Full.Mt.Shared.Sse2/$blitz.cpp:3:
In file included from /home/h/upp-production/uppsrc/Core/Cpu.cpp:1:
In file included from /home/h/upp-production/uppsrc/Core/Core.h:244:
/home/h/upp-production/uppsrc/Core/Defs.h:434:43: error: no viable overloaded '='
template <class T> void SetNull(T& x) { x = Null; }
                                        ~ ^ ~~~~
/home/h/upp-production/uppsrc/Core/ValueUtil.h:97:63: note: in instantiation of function template specialization 'Upp:
   :SetNull<const Upp::Value>' requested here
    virtual void  SetNull(void *p) const                { UPP::SetNull(*(T *)p); }
                                                ^
/home/h/upp-production/uppsrc/Core/Other.h:5:12: note: in instantiation of member function 'Upp::StdRef<const Upp::Val
   ue>::SetNull' requested here
```

```
            static T o;
                   ^
/home/h/upp-production/uppsrc/Core/ValueUtil.h:130:54: note: in instantiation of function template specialization 'Upp
    ::Single<Upp::StdRef<const Upp::Value> >' requested here
        Ref(T& x)                       { ptr = &x; m = &Single< StdRef<T> >(); }
                                                ^
/home/h/upp-production/uppsrc/Core/ValueUtil.h:96:69: note: in instantiation of function template specialization 'Upp:
    :Ref::Ref<const Upp::Value>' requested here
        virtual void  SetValue(void *p, const Value& v) const { *(T *) p = (T)v; }
                                                              ^
/home/h/upp-production/uppsrc/Core/Other.h:5:12: note: in instantiation of member function 'Upp::StdRef<Upp::Ref>::Set
    Value' requested here
            static T o;
                   ^
/home/h/upp-production/uppsrc/Core/ValueUtil.h:130:54: note: in instantiation of function template specialization 'Upp
    ::Single<Upp::StdRef<Upp::Ref> >' requested here
        Ref(T& x)                       { ptr = &x; m = &Single< StdRef<T> >(); }
                                                ^
/home/h/upp-production/uppsrc/Core/ValueUtil.h:153:59: note: in instantiation of function template specialization 'Upp
    ::Ref::Ref<Upp::Ref>' requested here
inline String&  RefString(Ref f)  { return GetRef<String>(f); } // Deprecated, use Ref::Get<T>
                                                ^
/home/h/upp-production/uppsrc/Core/Value.cpp:31:15: note: candidate function not viable: 'this' argument has type 'con
    st Upp::Value', but method is not marked const
Value& Value::operator=(const Value& v) {
           ^
4 errors generated.
```

With GCC 4.8.2:

```
----- Core ( MT SSE2 GCC DEBUG SHARED DEBUG_FULL BLITZ LINUX POSIX )
BLITZ: Cpu.cpp Mt.cpp sheap.cpp String.cpp WString.cpp StrUtil.cpp Bom.cpp Path.cpp NetNode.cpp App.cpp Stream.cpp Blo
    ckStream.cpp FilterStream.cpp Log.cpp Debug.cpp Ini.cpp Util.cpp mathutil.cpp LocalProcess.cpp Vcont.cpp Hash.cpp Call
    back.cpp TimeDate.cpp Value.cpp Format.cpp Convert.cpp Color.cpp Gtypes.cpp t.cpp Lang.cpp LangInfo.cpp parser.cpp
XML
    .cpp Xmlize.cpp JSON.cpp Uuid.cpp Ptr.cpp z.cpp Topic.cpp CoWork.cpp MD5.cpp SHA1.cpp InetUtil.cpp Socket.cpp
Http.cpp
     Dli.cpp Win32Util.cpp
In file included from /home/h/upp-production/uppsrc/Core/Core.h:244:0,
                 from /home/h/upp-production/uppsrc/Core/Cpu.cpp:1,
                 from /home/h/.upp.out/watchdog/Core/GCC.Debug.Debug_Full.Mt.Shared.Sse2/$blitz.cpp:3:
/home/h/upp-production/uppsrc/Core/Defs.h: In instantiation of 'bool Upp::IsNull(const T&) [with T = Upp::Ref]':
/home/h/upp-production/uppsrc/Core/ValueUtil.h:95:85:   required from 'bool Upp::StdRef<T>::IsNull(const void*) const
    [with T = Upp::Ref]'
/home/h/upp-production/uppsrc/Core/Win32Util.cpp:235:1:   required from here
/home/h/upp-production/uppsrc/Core/Defs.h:436:70: error: 'const class Upp::Ref' has no member named 'IsNullInstance'
 template <class T> bool IsNull(const T& x) { return x.IsNullInstance(); }
                                                      ^
In file included from /home/h/upp-production/uppsrc/Core/Core.h:292:0,
                 from /home/h/upp-production/uppsrc/Core/Cpu.cpp:1,
                 from /home/h/.upp.out/watchdog/Core/GCC.Debug.Debug_Full.Mt.Shared.Sse2/$blitz.cpp:3:
/home/h/upp-production/uppsrc/Core/ValueUtil.h: In instantiation of 'Upp::Ref::Ref(T&) [with T = const Upp::Value]':
```

```
/home/h/upp-production/uppsrc/Core/ValueUtil.h:96:67:   required from 'void Upp::StdRef<T>::SetValue(void*, const Upp:
   :Value&) const [with T = Upp::Ref]'
/home/h/upp-production/uppsrc/Core/Win32Util.cpp:235:1:   required from here
/home/h/upp-production/uppsrc/Core/ValueUtil.h:130:43: error: invalid conversion from 'const void*' to 'void*' [-fperm
   issive]
 Ref(T& x)                    { ptr = &x; m = &Single< StdRef<T> >(); }
                             ^
```

History

#1 - 11/03/2013 10:07 PM - Jan Dolinár

- File ValueUtil.patch added

- Status changed from New to Patch ready

This patch (created against 6523, before the revert) solves the problem for me, both in GCC and Clang.

#2 - 11/11/2013 02:01 PM - Miroslav Fidler

- Status changed from Patch ready to Rejected

Files

ValueUtil.patch	1.9 KB	11/03/2013	Jan Dolinár