Subject: How to mark a class of function is deprecated
Posted by tojocky on Sun, 10 Jun 2012 19:18:07 GMT
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Hello,

Reading more deeply C++ functionality I want to propose to implement a precompiled directive to mark for deprecated methods, properties, classes.

My code is:

```
#if defined(COMPILER_MSC)
 #define UPP_DEPRECATED __declspec(deprecated)
 #define UPP_DEPRECATED_T(text) __declspec(deprecated(#text))
#elif defined(COMPILER_GCC)||defined(COMPILER_MINGW)
 #define UPP_DEPRECATED __attribute__ ((deprecated))
 #define UPP_DEPRECATED_T(text) __attribute__ ((deprecated(#text)))
#else
 #define UPP_DEPRECATED
 #define UPP_DEPRECATED_T(text)
#endif
```

How it works:

for a class:

```
class UPP_DEPRECATED_T("will be removed in 10.0 release") TempClass{...}
```
or
```
class UPP_DEPRECATED TempClass{...}
```

for a class method:

```
class TempClass{
   int dep_method UPP_DEPRECATED_T("will be removed in 10.0 release");
}
```
or
```
class TempClass{
   int dep_method UPP_DEPRECATED;
}
```

for a function:

```
UPP_DEPRECATED_T("will be removed in 10.0 release") void dep_function(){...}
```

or

UPP_DEPRECATED void dep_function(){...}

I'm proposing this solution because exist a lot of objects deprecated in U++ and we realize about this when it is completely removed.

/home/ilupascu/upp/uppsrc/Core/Vcont.h(82): int GetIndex(const T& item) const; //deprecated
/home/ilupascu/upp/uppsrc/Core/Vcont.h(136)://deprecated
/home/ilupascu/upp/uppsrc/Core/Stream.h(231)://* deprecated
/home/ilupascu/upp/uppsrc/Core/Stream.h(353): DELETESHARE = 0x20, // deprecated
/home/ilupascu/upp/uppsrc/Core/Stream.h(354): NOREADSHARE = 0x40, // deprecated
/home/ilupascu/upp/uppsrc/Core/Win32Util.h(48)://deprecated
/home/ilupascu/upp/uppsrc/Core/Win32Util.h(63)://deprecated
/home/ilupascu/upp/uppsrc/Core/Value.h(170): static void Register(dword w, Void* (*c)(), const char *name = NULL) init_; // Direct use deprecated
/home/ilupascu/upp/uppsrc/Core/Lang.h(16):#define LNG_CZECH 0xF1CC7A // Deprecated, corresponds to CS-CZ windows-1250
/home/ilupascu/upp/uppsrc/Core/Value.hpp(307):template <class T> // Deprecated, use Value::Is
/home/ilupascu/upp/uppsrc/Core/Value.hpp(310):template <class T> // deprecated, use Value::Is
/home/ilupascu/upp/uppsrc/Core/Value.hpp(314):struct RawValue : public Value { // Deprecated, use RawToValue and Value::To
/home/ilupascu/upp/uppsrc/Core/Value.hpp(321):struct RichValue : public Value { // Deprecated, use RichToValue and Value::To
/home/ilupascu/upp/uppsrc/Core/Value.hpp(328):template <class T> // Deprecated, use Value::To
/home/ilupascu/upp/uppsrc/Core/Value.hpp(331):template <class T> // Deprecated, use Value::To
/home/ilupascu/upp/uppsrc/Core/Value.hpp(335):template <class T> // Deprecated (?)
/home/ilupascu/upp/uppsrc/Core/Value.hpp(344):Ref RawAsRef(T& x) { // Deprecated (?)
/home/ilupascu/upp/uppsrc/Core/Value.hpp(348):template <class T> // Deprecated
/home/ilupascu/upp/uppsrc/Core/Value.hpp(356):template <class T> // Deprecated
/home/ilupascu/upp/uppsrc/Core/Defs.h(178):// deprecated, use INITBLOCK
/home/ilupascu/upp/uppsrc/Core/Defs.h(192):// deprecated, use EXITBLOCK
/home/ilupascu/upp/uppsrc/Core/Mt.h(556):typedef Mutex CriticalSection; // deprecated
/home/ilupascu/upp/uppsrc/Core/Mt.h(557):typedef StaticMutex StaticCriticalSection; // deprecated
/home/ilupascu/upp/uppsrc/Core/Global.h(29):// DEPRECATED! (USE ONCELOCK_)
/home/ilupascu/upp/uppsrc/Core/Global.h(40):// DEPRECATED! (USE ONCELOCK)

Also this can be used for custom packages to take in account the impact to other packages.

Any hints and advices are welcome.

Subject: Re: How to mark a class of function is deprecated

Posted by tojocky on Sun, 10 Jun 2012 19:24:32 GMT
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I want to notice that I've tested on my linux only.

Windows version and mingw version I extracted from MSDN and GCC documentation.

Subject: Re: How to mark a class of function is deprecated
Posted by koldo on Sun, 10 Jun 2012 20:39:53 GMT
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Hello Ion

It seems a good idea.

Subject: Re: How to mark a class of function is deprecated
Posted by tojocky on Sun, 10 Jun 2012 21:27:05 GMT
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koldo wrote on Sun, 10 June 2012 23:39Hello Ion

It seems a good idea.
Thank you Koldo,

Could you test on windows OS?

Subject: Re: How to mark a class of function is deprecated
Posted by koldo on Mon, 11 Jun 2012 06:46:01 GMT
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Hello Ion

It works for MinGW but not for MSC.

The reason is that for MSC in Defs.h we have a:
#pragma warning(disable : 4996)

Subject: Re: How to mark a class of function is deprecated
Posted by tojocky on Mon, 11 Jun 2012 13:06:47 GMT
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koldo wrote on Mon, 11 June 2012 09:46Hello Ion

It works for MinGW but not for MSC.

The reason is that for MSC in Defs.h we have a:
#pragma warning(disable : 4996)

Thank you very much Koldo for testing this one.

Mirek, Could you help me in this:
- #pragma warning(disable : 4996) was introduced intentionally?

I would appreciate to have the majority opinion.

Ion.

Subject: Re: How to mark a class of function is deprecated
Posted by mirek on Tue, 12 Jun 2012 07:08:50 GMT
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tojocky wrote on Mon, 11 June 2012 09:06koldo wrote on Mon, 11 June 2012 09:46Hello Ion

It works for MinGW but not for MSC.

The reason is that for MSC in Defs.h we have a:
#pragma warning(disable : 4996)

Thank you very much Koldo for testing this one.

Mirek, Could you help me in this:
- #pragma warning(disable : 4996) was introduced intentionally?

Yes. Microsoft has deprecated half of ANSI C library. The result is that with this warning on, all other more important warnings are lost in thousands of 'deprecated' warnings.

Which I believe might be sort of problem with your proposal too... If we want to introduce something like this, perhaps we should rather introduce "on demand" method, like adding flag "NODEPRECATED" to main package config would expose use of all deprecated features.

Mirek
