

## U++ - Bug #52

### Core doesn't compile with GCC 4.6

04/09/2011 12:48 PM - Jan Dolinár

<b>Status:</b>	Approved	<b>Start date:</b>	04/09/2011
<b>Priority:</b>	Urgent	<b>Due date:</b>	
<b>Assignee:</b>	Jan Dolinár	<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>Spent time:</b>	0.00 hour
<b>Description</b>			
Proposed patches attached for review.			

### History

#### #1 - 04/09/2011 09:08 PM - Miroslav Fidler

Moved from wrong task:

Alternative solution to the ptrdiff\_t problem in Algo.h could be adding somewhere

```
#if GCC_VERSION >= 40600
```

```
#include <stddef.h>
```

I guess that is actually a cleaner solution...

PS: Valuable resource for fixing GCC4.6 related issues is <http://lists.fedoraproject.org/pipermail/devel/2011-February/148523.html>

#### #2 - 04/10/2011 09:59 AM - Miroslav Fidler

Applied...

Please, what is the issue with virtual destructor in Convert.h?!

#### #3 - 04/10/2011 03:51 PM - Jan Dolinár

If there is no default constructor for Convert and NoConvert, then compilation of Convert.cpp result in these errors:

```
/home/h/upp-production/uppsrc/Core/Convert.cpp: In function 'const Upp::Convert& Upp::StdConvert()':
```

```
/home/h/upp-production/uppsrc/Core/Convert.cpp:318:1: error: uninitialized const 'x' [-fpermissive]
```

```
/home/h/upp-production/uppsrc/Core/Convert.h:25:7: note: 'const class Upp::Convert' has no user-provided default constructor
```

```
/home/h/upp-production/uppsrc/Core/Convert.cpp: In function 'const Upp::NoConvertClass& Upp::NoConvert()':
```

```
/home/h/upp-production/uppsrc/Core/Convert.cpp:492:1: error: uninitialized const 'x' [-fpermissive]
```

```
/home/h/upp-production/uppsrc/Core/Convert.h:218:7: note: 'const class Upp::NoConvertClass' has no user-provided default constructor
```

It is the same problem we've been fixing for Clang some time ago.

From the link in my previous post:

```
uninitialized const
```

```
struct A { int a; A (); };
```

```
struct B : public A { };
```

```
const B b;
```

now gets an error:

```
error: uninitialized const 'b' [-fpermissive]
```

```
note: 'const struct B' has no user-provided default constructor
```

This is related to <http://gcc.gnu.org/PR43890>, B above doesn't have a user provided default ctor, so either an initializer needs to be provided, or the default ctor needs to be added.

#### #4 - 04/12/2011 06:03 PM - Miroslav Fidler

- Status changed from New to Ready for QA

- Assignee changed from Miroslav Fidler to Jan Dolinár

OK, I have tried another way how to fix this, please check...

#### #5 - 04/12/2011 09:03 PM - Jan Dolinár

- Status changed from Ready for QA to Approved

Seems OK, everything compiles fine.

#### Files

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gcc46patch.tar.gz	8.79 KB	04/09/2011	Jan Dolinár
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