

## Re: Conversion from GCC C++ to Visual C++

**Source:** [http://www.tech-archive.net/Archive/VC/microsoft.public.vc.ide\\_general/2004-07/0164.html](http://www.tech-archive.net/Archive/VC/microsoft.public.vc.ide_general/2004-07/0164.html)

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**From:** Dranoel ([Dranoel\\_at\\_discussions.microsoft.com](mailto:Dranoel_at_discussions.microsoft.com))

**Date:** 07/28/04

Date: Wed, 28 Jul 2004 14:37:20 -0700

"Victor Bazarov" wrote:

> *Dranoel wrote:*

>> *I have a project which has been built and executes under Linux (not sure which C++ compiler) and I have compiled every module without reported error under cygwin/gcc. However, under Visual C++ I get these types of compile errors, for example:*

>> *a. Compiling...xxx0.cpp*

>> *C:\...\Vector.h(58) : error C2065: 'value\_type' : undeclared identifier*

>> *C:\...\Vector.h(58) : error C2143: syntax error : missing ';' before 'constant'*

>> *Error executing cl.exe.*

>> *on the statement in Vector.h:*

>> *void clear() { for (int i=0; i<n; i++) v[i] = (value\_type)0; }*

>

> *So, I see 'value\_type' used here. How is it declared/defined?*

>

>> *b. Compiling...xxx1.cpp*

>> *C:\...\Vector.h(58) : error C2065: 'value\_type' : undeclared identifier*

>

> *The compiler apparently thinks that 'value\_type' is undeclared. Do you*

> *have any proof the compiler is not correct?*

>

>> *C:\...\Vector.h(58) : error C2143: syntax error : missing ';' before 'constant'*

>> *C:\...\MiscVector.cpp(310) : error C2665: 'readPtSet' : none of the 2 overloads can convert parameter 2 from type 'class Array<class Vec2<float> >'*

>> *C:\...\MiscVector.cpp(381) : error C2784: 'template-parameter-1 \_\_cdecl fabs(class Array<`template-parameter-1'>)' : could not deduce template argument for 'class Array<`template-parameter-1'>' from 'float'*

>> *C:\...\MiscVector.cpp(381) : error C2784: 'template-parameter-1 \_\_cdecl fabs(class Array<`template-parameter-1'>)' : could not deduce template argument for 'class Array<`template-parameter-1'>' from 'float'*

>> *C:\...\MiscVector.cpp(610) : error C2784: 'template-parameter-1 \_\_cdecl fabs(class Array<`template-parameter-1'>)' : could not deduce template argument for 'class Array<`template-parameter-1'>' from 'float'*

>>

>> *NOTE AGAIN: this all compiles fine under gcc.*

>

> *Of "all" you only presented a single line of code. It's impossible to*

> *make any judgement based on that.*  
>  
>  
>> *Can you give me a suggestion on where to go to resolve these type of problems;i.e, is compile under other C++ compilers but not Visual C++.*  
>  
> *Yes. Declare 'value\_type' so that the compiler knows what it is. Or*  
> *switch to the standard containers instead of your own, home-brewed ones.*  
> *For example, you should probably use std::vector instead of 'Array'*  
> *(whatever that is).*  
>  
> V  
>

Thanks, as a test, I had "corrected" a few of the easy ones. The examples were no more than that. The issue is that it compiles elsewhere but not under Visual C++. I could "correct" each reported error (with great difficulty I suspect), but I greatly prefer to determine what setup of Visual C++ will VC++ compatible with gcc. I am not the author of the software; I am charged with making the conversion with only necessary modifications. I am expressly forbidden to unilaterally "correct" errors not reported under more than one compiler.