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Subject: Re: Clang vs. GCC

Posted by [gprentice](#) on Sun, 07 Feb 2010 10:49:42 GMT

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Yep it's a clang bug and a dark corner of C++.

As mentioned in that article, the standard defines a pseudo destructor (5.2.4 ) one form of which looks like this

`::opt nested-name-specifier opt type-name :: ~ type-name`

where the first `::` and the nested-name-specifier are optional and type-name is a non-class type. The only effect is the evaluation of the post-fix expression before the arrow.

There's no such thing as a constructor for a fundamental type but the standard defines (5.2.3 / 2) that the expression `T()` for simple type specifier `T` creates an rvalue of the specified type whose value is determined by default initialization.

Graeme

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