
Subject: Re: Time for little quiz!

Posted by [victorb](#) on Thu, 06 Apr 2006 14:17:03 GMT

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Graeme,

If I understand your previous topic well, you are stating that there might be an inconsistency between GCC and VC because they do not handle integer the same way and you are afraid this might cause errors with "(-q >> 31) & 1".

However if you look at the following URL:

[http://msdn2.microsoft.com/en-US/library/7x62187h\(VS.80\).aspx](http://msdn2.microsoft.com/en-US/library/7x62187h(VS.80).aspx)

You will see that VC handle right shifts the same way as GCC by extending the sign bit (for negative number as "-q").

VC:

"Right shifts preserve the sign bit. When a signed integer shifts right, the most-significant bit remains set. When an unsigned integer shifts right, the most-significant bit is cleared."

GCC:

"Signed >> acts on negative numbers by sign extension."

Victor
