

Re: shorts and longs

Source:

<http://www.tech-archive.net/Archive/VB/microsoft.public.vb.general.discussion/2005-07/msg01907.html>

- *From:* "Lance" <nunya@xxxxxxxxxxxx>
 - *Date:* Tue, 26 Jul 2005 12:09:14 -0500
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thanks for the explanation, bob. i think in my case i can accept the value as a long instead of an integer.

"Bob Butler" <tiredofit@xxxxxxxxxx> wrote in message news:eYOKjCgkFHA.3968@xxxxxxxxxxxxxxxxxxxxxxxxxxxx
> "Lance" <nunya@xxxxxxxxxxxx> wrote in message
> news:ejvfy8fkFHA.2916@xxxxxxxxxxxxxxxxxxxxxxxxxxxx
>> it was my understanding that a c type short was equal to a vb type
>> integer, and a c type long was equal to a vb type long.
>
> ...c type "int" is the same as a VB type long
>
>> according to the tif file specs, the compression tag (259) stores
>> it's value (either 1, 2, 3, 4, 5, 6, or 32773) as a short type (a vb
>> integer) but as you can see, one of the valid values of the
>> compression type is 32773, which is out of the range of a vb integer.
>> so, when i Dim m_Compression as Integer and the return value is
>> 32773, i get an overflow obviously. i can change it to Dim
>> m_Compression as Long, but will that cause any trouble i'm not aware
>> of?
>
> 32773 is valid for an unsigned 16-bit value; it is not valid for a signed
> 16-bit value and unfortunately VB only supports signed values. If you read
> the 16-bit value from a file into an Integer variable you will get a
> negative number (-32763) which is fine since it will have the same bit
> pattern as +32773 so it is essentially equivalent. If you are calling a
> function that returns a 16-bit value then it should also work but if you
> call a function that returns a 32-bit value then VB will complain about not
> being able to convert to Integer because it will be outside the range. You
> can accept that value into a VB Long to avoid the error and then mask off
> the lower 16 bits but how you handle it will depend on what the exact
> situation is. What are you calling that is giving you the return value and
> how is that function defined?
>
> --
> Reply to the group so all can participate
> VB.Net: "Fool me once..."

>

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- **References:**

- ◆ **[shorts and longs](#)**

- ◇ *From:* Lance

- ◆ **[Re: shorts and longs](#)**

- ◇ *From:* Bob Butler

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