Subject: Re: Integer overflow not reported Posted by wlandsman on Tue, 13 Jun 2017 17:17:42 GMT

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On Tuesday, June 13, 2017 at 10:58:25 AM UTC-4, Markus Schmassmann wrote:

> Hello,

>

- > Why are integer overflows not reported, although according the
- > documentation of CHECK MATH [1] they should be detected?

The documentation on math errors says that integer overflow is not detected on all hardware.

I agree that nondetection of the overflow of long (32bit) integers is more insidious than nondetection of the overflow of short integers -- since we are now trained to always default to long integers. ---Wayne

http://www.harrisgeospatial.com/docs/Math_Errors.html

The detection of math errors, such as division by zero, overflow, and attempting to take the logarithm of a negative number, is hardware and operating system dependent. Some systems trap more errors than other systems. On systems that implement the IEEE floating-point standard, IDL substitutes the special floating-point values NaN and Infinity when it detects a floating point math error. (See Special Floating-Point Values.) Integer overflow and underflow is not detected. Integer divide by zero is detected on all platforms.