
Subject: Re: BYTES to LONG

Posted by [Kelly Dean](#) on Thu, 09 Nov 2000 08:00:00 GMT

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I'll try your suggest. However, so far, floats produced by TOTAL hasn't been a problem yet with the handful of sample files I have worked on.

Your right, there is a ENDIAN issue. Especially on the Windows 2000 machine I am currently working on. I solved this by using IDL's OPENR keyword - SWAP_ENDIAN.

Thanks for the tip,

Kelly

Craig Markwardt wrote:

> Kelly Dean <krdean@lamar.colostate.edu> writes:

>

>> Thanks Paul,

>>

>> Your suggestion solved my problem.

>>

>> long_x = TOTAL(ISHFT(LONG(x), [24,16,8,0]))

>

> Hi Kelly--

>

> While this may seem to work, I agree with JD that this is a bit

> dangerous since it converts to floating point. The expression

>

> long_x = long(x, 0, 1)

>

> should produce the same, and correct, result, without invoking any

> floating point conversions. However you may have to worry about

> so-called "endian" issues, that is byte ordering differences between

> machines. A routine in the IDL Astronomy Library like IEEE_TO_HOST

> should be able to help you there.

>

> Craig

>

> --

> -----

> Craig B. Markwardt, Ph.D. EMAIL: craigmnet@cow.physics.wisc.edu

> Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response

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