
Subject: Re: BYTES to LONG

Posted by [Paul van Delst](#) on Tue, 07 Nov 2000 08:00:00 GMT

[View Forum Message](#) <> [Reply to Message](#)

"J.D. Smith" wrote:

>
> Paul van Delst wrote:
>>
>> For some reason the TOTAL returned a floating point number? Weird. Never noticed that
>> before.
>>
>
> The total() function always converts to floating point before the sum,
> to avoid overflow issues. Consider:
>
> a=total(bindgen(256))
>
> if it did the total as bytes, that would overflow. Of course, it could
> have done them as regular ints, but how should it decide, a priori? I
> for one use total a lot in testing various conditions, and it always
> bothered me that I had to test the floating result, but there's really
> no other clean solution.

You're absolutely right, of course. I've spent the last month writing a crapload of f90 code so when I saw a type that isn't what I thought I had declared it, I momentarily freaked.

--

Paul van Delst Ph: (301) 763-8000 x7274
CIMSS @ NOAA/NCEP Fax: (301) 763-8545
Rm.207, 5200 Auth Rd. Email: pvandelst@ncep.noaa.gov
Camp Springs MD 20746
