Subject: Re: TOTAL gives totally different result on identical array Posted by Michael Galloy on Fri, 08 Jul 2011 19:10:51 GMT

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On 7/8/11 12:48 PM, Liam Gumley wrote:

- > If you just want to compute the total over all dimensions of an array,
- > you could use it as a drop in replacement for TOTAL. However it would
- > take a bit more work to support all the optional keywords accepted by
- > TOTAL.

Certainly no drop in replacement for TOTAL, but a DLM implementation of the Kahan summation:

http://michaelgalloy.com/2011/07/08/dlm-implementing-kahan-s ummation.html

It doesn't implement the keywords of TOTAL, but it does support all numeric IDL types, i.e., in the manner of /PRESERVE\_TYPE. It also shows how you can use C macros to implement an algorithm for multiple data types (ugly, but better than copying code).

Mike

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