Subject: Re: Floating point error
Posted by Craig Markwardt on Sat, 12 Apr 2003 20:20:50 GMT
View Forum Message <> Reply to Message

Kenneth Bowman <k-bowman@null.tamu.edu> writes:

> I am trying to scatter a vector "data" into an array "array" using array
> subscripts. "data" contains some NaNs.
>
> This causes floating point exceptions, even though no "operation" is
> taking place.
>
> IDL> help, i, j, h, data, array
> I LONG = Array[176779]
> J LONG = Array[176779]
> H LONG = Array[176779]
> DATA FLOAT = Array[176779]
> ARRAY FLOAT = Array[720, 160, 24]
> IDL> array[i,j,h] = data
> % Program caused arithmetic error: Floating illegal operand
> IDL> q = data ;Copy data
> IDL> q[*] = 0.0 ;Get rid of NaNs
> IDL> array[i,j,h] = q ;No problem
>
> If this is a feature, it is going to make using NaNs very difficult.

How about,
wh = where(finite(data), ct)
if ct GT 0 then array(i(wh), j(wh), h(wh)) = data(wh)

If you have repeats in your I,J,H data, and you want to sum over those repeats, then you should use the dirty tricks that JD, I, et al. have discussed in the past, primarily using the evil HISTOGRAM.

Craig

--
---------- ----------
Craig B. Markwardt, Ph.D. EMAIL: craigmnet@cow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
---------- ----------