Subject: Re: summation problem Posted by Jaco van Gorkom on Thu, 05 Apr 2001 16:26:14 GMT View Forum Message <> Reply to Message Paul van Delst wrote: > Jaco van Gorkom wrote: >> Manish wrote: >> ... >>> I have a program which produces an array of values of sunlight flux during >>> the day. Unfortunately, it produces crazy numbers before the sunrises and >>> after it sets(as expected). I'm summing the values throughout the day to >>> get a total integrated day flux, but here's the problem - is there a way of >>> telling the TOTAL function to ignore negative numbers and NaN numbers? >> >> IDL> print, total(test>0,/nan) 7.00000 >> >> % Program caused arithmetic error: Floating illegal operand >> >> The 'illegal operand' error appears to be harmless, caused by comparing test>0: > Harmless maybe, but I for one don't like seeing illegal operand errors, let alone ignoring > them. What if you add some code that tries to take the log of a -ve number, see the same > error and shrug it off? That is *exactly* what I'd do: shrug it off! The log of a -ve number gives me -Inf as a result, which will propagate through any calculation to be NaN, Inf, or -Inf. Just another missing data point. > loc finite = WHERE(FINITE(test) EQ 1, count finite) > IF (count finite GT 0) THEN \$ > sum = TOTAL(test[loc_finite] > 0.0) \$ > ELSE \$ sum = !VALUES.F_NAN ; Or some other suitable flag Of course I see your point. I would probably implement a FINITE() check if I were writing a full program, but the annoying special-case programming for when WHERE() returns -1 held me back here. On second thought: WHERE() could only return -1 for a day without sunrise...

groetjes, Jaco

> ..

> Oh, and make sure you set !EXCEPT = 2 in your idl setup file. That'll learn ya to remove

> errors from your code :o)		
Geez! Thanks for pointing t	hat out! This solves every	thing Manish: !EXCEPT = 0