Subject: Re: summation problem
Posted by Jaco van Gorkom on Thu, 05 Apr 2001 11:15:45 GMT

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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?

Yes, there is a way:
IDL> test = [0,-1,3,4,!values.f_nan]
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:
IDL> print, test>0
      0.00000   0.00000   3.00000   4.00000   NaN
% Program caused arithmetic error: Floating illegal operand

> I guess this is a simple problem, but would appreciate any help
It is simple enough, but only once you know the solution.

cheers,
  Jaco