Subject: Re: Turning off math error checking for a code block
Posted by Martin Downing on Fri, 18 Jan 2002 17:22:37 GMT
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craig wrote:
> I have found that an operation on an array which contains NANs is
> slowed down considerably. I think it is because each operation causes
> a floating point exception which is handled in the OS. I use WHERE
> most of the time when this comes up. Occassionally I get "floating
> exception" messages, but big whoop.

To illustrate craigs point:

IDL> a = replicate(!values.f_nan,1024,1024)

IDL> b = replicate(2.0,1024,1024)

IDL> help, a,b

A FLOAT = Array[1024, 1024]

B FLOAT = Array[1024, 1024]

IDL> t = systime(1) & for i =0,9 do c = total(a * 2) & print, systime(1) - t

3.1250000

IDL> t = systime(1) & for i =0,9 do c = total(a * 2) & print, systime(1) - t

3.1240001

IDL> a = replicate(2.0,1024,1024)

IDL> help, a

A FLOAT = Array[1024, 1024]

IDL> t = systime(1) & for i =0,9 do c = total(a * 2) & print, systime(1) - t

0.71099997