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Subject: Re: Turning off math error checking for a code block

Posted by [bowman](#) on Fri, 18 Jan 2002 23:30:43 GMT

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Well, it makes more sense if both blocks of code do the same work. ;-)

Turning off error checking is still faster, though.

Turn off error checking, t = 0.45098495

Do WHERE twice, t = 2.5393230

Ken

PRO TEST\_FINITE

n = 1024L\*1024L

nmiss = 100L\*1024L

x = RANDOMN(seed, n) ;Create 10^ random numbers

miss = LONG(n\*RANDOMU(seed, nmiss)) ;Generate 10^5 random indices

x[miss] = !VALUES.F\_NAN ;Set random indices to missing

x\_min = 0.0

t = SYSTIME(/SECONDS)

error = CHECK\_MATH(/PRINT)

save\_except = !EXCEPT

!EXCEPT = 0

i = WHERE(x LT x\_min, ni)

IF (ni GT 0) THEN x[i] = !VALUES.F\_NAN

error = CHECK\_MATH()

!EXCEPT = save\_except

PRINT, 'Turn off error checking, t = ', SYSTIME(/SECONDS) - t

t = SYSTIME(/SECONDS)

i = WHERE(FINITE(x), ni)

IF (ni GT 0) THEN BEGIN

  y = x[i]

  j = WHERE(y LT x\_min, nj)

  IF (nj GT 0) THEN BEGIN

    y[j] = !VALUES.F\_NAN

    x[i] = y

  ENDIF

ENDIF

PRINT, 'Do WHERE twice, t = ', SYSTIME(/SECONDS) - t

END

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