Subject: Re: Using MIN on arrays : Exorcising loops?
Posted by Andrew Cool on Sun, 07 Oct 2001 23:25:38 GMT
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Martin Downing wrote:
>
> "Craig Markwardt" <craigmnet@cow.physics.wisc.edu> wrote in message
> news:on3d4yw86j.fsf@cow.physics.wisc.edu...
>>
>> Andrew Cool <cooladjc@chariot.net.au> writes:
>>
> .....
>
> Hi Andrew & Craig
>
> For a simple case like this, why not just use:
> Min_array = data_array[*,*,0] < data_array[*,*,1] < data_array[*,*,2]
>
> Martin

G'day Martin,

Now that I'm back at work, I regret to advise that your approach doesn't work. Craig's, however, does :-

> data_array = Fltarr(640,500,NZ)
> Min_array = data_array(*,*,0)
>
> for i = 1, NZ-1 do $
> min_array = min_array < data_array(*,*,i)

It seems that you need to have an initial test condition before you start applying those < operators. Not being a math-head, that might not be the right jargon to describe it.

The use of the < operator has cut the time taken from about 1.03 seconds
for the double x,y loop to about 0.008 seconds using <, including the initialisation statement Min_array = data_array(*,*,0).

I'm happy!

Cheers,

Andrew