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Subject: Re: Faster way ?
Posted by Dick Jackson on Mon, 27 Sep 2004 20:46:14 GMT
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"Craig Markwardt" <craigmnet@REMOVEcow.physics.wisc.edu> wrote in message
news:onr7onip35.fsf@cow.physics.wisc.edu...
> rats@mail.geog.uvic.ca (Rafael Loos) writes:
>> Hi, I am trying to find the number of values that are within a range
>> ...
>> I have an Array that has 3 columns and 5 millions lines.
>> Thats what I am doing ...
>>
>> number = WHERE((Array[1,*] GE Min) AND (Array[1,*] LE Max), geralX)
>>
>> I am storing the number inside the variable geralX ...
>> It is taking 0.23 seconds ... but I want to know if there is a faster
>> way to find that ...
>
> If you are doing this many times in a loop and ARRAY is unchanging, it
> may be worth extracting ARRAY[1,*] into its own variable. That way,
> you will save the time of extracting each iteration.
>
> If you just want the total number of elements that match your filter,
> you can use total, as in:
> filter = (Array[1,*] GE Min) AND (Array[1,*] LE Max)
  geralX = total(filter)
Even with the two uses of Array[1,*], I got 30-40% time reduction with this:
array1 = Array[1.*]
number = WHERE((Array1 GE Min) AND (Array1 LE Max), geralX)
... and then splicing in your method gave a total of about 45% time
reduction:
array1 = Array[1,*]
geralX = Total((Array1 GE Min) AND (Array1 LE Max))
Hope this helps!
Cheers.
-Dick
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