
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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