Subject: Re: Vectorizing Code
Posted by robert.dimeo on Fri, 01 Mar 2002 13:40:35 GMT
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Hi Steve,

I vectorized it as follows:

```
u = 1+bytarr(nstate)
v = 1+bytarr(nvec)
d = u#(indgen(nvec)) - (indgen(nstate))#v
sa = 10.^2*exp(-abs(d)*dz/h)
```

Your way took 0.125 seconds on my pc for nstate = 500 and nvec = 120.
The vectorized way above took 0.03 seconds.

By the way, the rebin method proposed by Kenneth Bowman also took 0.03 seconds.

Hope this helps,

Rob

Steve Jones <no@email.com> wrote in message
news:<27022002244527274%no@email.com>...
> Is it possible to vectorize a simple double for-loop?
>
> for i=0,nstate-1 do begin
> for j=0,nvec-1 do begin
> sa(i,j)=10.^2*exp(-abs(i-j)*dz/h)
> endfor
> endfor
>
> I tend to write a large number of such loops and my indexes have been
> steadily increasing of late... Is there a faster alternative? Thanks
> in advance