
Subject: Re: Fast matrix filling in IDL

Posted by [Phillip & Suzanne](#) on Sat, 12 Dec 1998 08:00:00 GMT

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David Fanning wrote:

```
>
> Stein Vidar Hagfors Haugan (steinhh@ulrik.uio.no) writes:
>>
>> A slight modification of David's program, and adding
>> my favourite speedup method:
>>
>> time = systime(1)
>> array = rebin(reform(v,m,1,/overwrite),m,n,/sample)
>> print, 'Time for Rebin Operations: ', systime(1) - time
>>
>> On { alpha OSF unix 5.2 Oct 30 1998}, this gives:
>>
>> Time for Loop:          0.27343702
>> Time for Matrix Operations:  0.093750000
>> Time for Rebin Operations:  0.067382932
>>
>> Note that the relative speeds can vary quite a lot on
>> different architectures.
>
> I guess. Here is what I get with Stein Vidar's modifications
> on my Windows NT machine:
>
> IDL> Print, !Version
> { x86 Win32 Windows 5.2 Oct 30 1998}
> IDL> test
> Time for Loop:    0.10000002
> Time for Matrix Operations:  0.019999981
> Time for Rebin Operations:  0.039999962
>
> The Rebin operations are twice as slow as the matrix operations.
> Hummm. Why!?
```

Here's another result from IDL 5.0.2 on the Mac:

```
Time for Loop:    0.30000007
Time for Matrix Operations:  0.13333333
Time for Rebin Operations:  0.50000000
```

Phillip
