
Subject: Re: Fast matrix filling in IDL

Posted by [Kevin Ivory](#) on Mon, 14 Dec 1998 08:00:00 GMT

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> 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.
```

David Fanning wrote:

```
>
> 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!?
```

Wow, this is fun. Linux is infinitely faster on matrix and rebin, but
real slow on loops:

```
IDL> Print, !Version
{ x86 linux unix 5.2 Oct 30 1998}
IDL> test
Time for Loop:    1.0000000
Time for Matrix Operations:  0.0000000
Time for Rebin Operations:  0.0000000
```

??? Am I missing something?

Kevin

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Kevin Ivory

Tel: +49 5556 979 434

Max-Planck-Institut fuer Aeronomie Fax: +49 5556 979 240
Max-Planck-Str. 2 mailto:Kevin@Ivory.de
D-37191 Katlenburg-Lindau, GERMANY http://ivory.de/
