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 matric 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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