Subject: Re: Speed does matter
Posted by Michael Galloy on Tue, 25 Aug 2015 21:35:07 GMT
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On 8/25/15 7:03 AM, Kallisthène wrote:
> Le mardi 25 août 2015 10:32:22 UTC+2, superchromix a écrit :
>> Nice comparison. On my desktop, running IDL 8.5 and Matlab 2010b,
>> I get the following results:
>>
>> IDL: % Time elapsed: 6.4400001 seconds.
>>
>> MATLAB 2010b: Elapsed time is 0.594112 seconds.
>>
>> Again, MATLAB for loops run faster by a factor of ~10.
>
> Great idea,
>
>
> I ran also these codes, with bigger numbers, 1000 instead of 500 for
> each dimension and with Matlab 2015a I got 6.3 secondes to compare
> with 102 secondes on my IDL 8.5. My desktop runs 4 cores and has 12
> Go RAM and it runs faster with Matlab by a factor of 16 ! Damn.
>

For what it's worth, I got about a 5x speedup of IDL over Python. I used 1000 elements for each dimension:

```
$ python mg_loopspeed.py
222.15 secs
```

Code is:

```
import numpy as np
import time

nx = 1000
ny = 1000
nz = 1000

arr = np.zeros((nx, ny, nz))

tic = time.clock()

for z in xrange(nz):
    for y in xrange(ny):
        for x in xrange(nx):
            arr[x, y, z] = 1.0
```

```
toc = time.clock()
print '%0.2f secs' % (toc - tic)
```

For comparison, my IDL time:

```
$ idl -e ".run mg_loopspeed"
IDL Version 8.5, Mac OS X (darwin x86_64 m64).
(c) 2015, Exelis Visual Information Solutions, Inc., a subsidiary of
Harris Corporation.

% Compiled module: $MAIN$.
% Compiled module: TIC.
  Elapsed Time:  47.486635
```

Mike
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Modern IDL: A Guide to IDL Programming (http://modernidl.idldev.com)
