
Subject: Re: IDL 5.3 Performance ?

Posted by [roy.hansen](#) on Wed, 09 Feb 2000 08:00:00 GMT

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In article <87q5b0\$g0k\$1@canopus.cc.umanitoba.ca>, "Richard Tyc" <richt@sbrc.umanitoba.ca> wrote:

> IDL speed gurus:.

snip - snip

> Any comments/ideas ?

>

In my opinion, 5.3 is slower than 5.2.1.

This behaviour from RSI is actually predictable (if I recall correctly):

5.1.1 was fast. 5.2.0 was slow. 5.2.1 was fast. 5.3.0 is slow.

Of course, there's another possibility:

Maybe RSI puts in some busy-wait statements in their code to slow it down in their newer releases to push sales of processors (in the same way M\$ does :-)

I did a small comparison on my two old Dell pcs (PPro & PII-400).

time_test2 gave the following result:

CPU	IDLVer	result (total time)
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PPro	5.2.1	8.51
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PPro	5.3.0	12.62
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P-II	5.2.1	5.00
------	-------	------

P-II	5.3.0	9.55
------	-------	------

I dont know wether time_test2 is the same for 5.2.1 & 5.3.0 so I benched the performance of the FFT (a function I use a lot). The results:

PPro - 5.2.1

1D-a	3.9500000
------	-----------

1D-b	3.4600000
------	-----------

2D-a	7.7500000
------	-----------

2D-b	13.180000
------	-----------

PPro - 5.3.0

1D-a	6.3200001
------	-----------

1D-b	6.8100001
------	-----------

2D-a	8.8399999
------	-----------

2D-b	15.380000
------	-----------

PII-400 - 5.2.1
1D-a 1.7600000
1D-b 1.6999999
2D-a 5.2800001
2D-b 8.8500000

PII-400 - 5.3.0
1D-a 3.4100001
1D-b 3.4100000
2D-a 5.7600000
2D-b 10.100000

Hence, the 1D FFT is a factor of 2 slower in 5.3 than in 5.2.1

--RoyH

Here's the source code for my simple 1D and 2D FFT benchmark:

```
b = fltarr(32768L)
a = systime(1)
for i=0, 99 do c = fft(b,-1)
print, '1D-a ', systime(1)-a

b = fltarr(1024L)
a = systime(1)
for i=0, 4999 do c = fft(b,-1)
print, '1D-b ', systime(1)-a

b = fltarr(512,512)
a = systime(1)
for i=0, 9 do c = fft(b,-1)
print, '2D-a ', systime(1)-a

b = fltarr(1024,1024)
a = systime(1)
for i=0, 3 do c = fft(b,-1)
print, '2D-b ', systime(1)-a

END
```
