
Subject: Re: () and execution speed

Posted by [Ken Mankoff](#) on Fri, 29 Jul 2005 16:27:27 GMT

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On Fri, 29 Jul 2005, Gert wrote:

> I just played with an array of structures, each structure
> containing a (float) images. If i do
>
> SomeProc, psData[NumStruct].fllm[1:1000]
>
> or
>
> SomeProc, (psData[NumStruct].fllm)[1:1000]
>
> then the result is the same, but the second runs much slower.
> Anyone knows why this is so? My guess is that in the second run, a
> copy of the array is made.

Sounds like a good guess. A compiler optimization might be able to catch the above special case, but () changes the precedence. You could have (x[y].z + 1)[42] so direct memory access won't work.

> I would be interested to find out if there are more 'pitfalls' out
> there.

TVSCL? The decompose keyword to DEVICE?

-k.

Subject: Re: () and execution speed

Posted by [David Fanning](#) on Fri, 29 Jul 2005 16:41:31 GMT

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"Gert" <Gert.VandeWouwerNO @ SPAM.com> writes:

> I just played with an array of structures, each structure containing a
> (float) images.
> If i do
>
> SomeProc, psData[NumStruct].fllm[1:1000]
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> then the result is the same, but the second runs much slower. Anyone knows
> why this is so? My guess is that in the second run, a copy of the array is
> made.

Yes, the parentheses are creating a temporary copy to be subscribed, I think.

> I would be interested to find out if there are more 'pitfalls' out there.

Oh, goodness. Then I would make a daily practice out of consulting this newsgroup. You will be surprised what you learn. :-)

Here are some examples:

http://www.dfanning.com/code_tips/asterisk.html
http://www.dfanning.com/code_tips/slowloops.html
<http://www.dfanning.com/tips/forloops.html>
<http://www.dfanning.com/tips/forloops2>
http://www.dfanning.com/ographics_tips/slowrendering.html

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
