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Subject: Re: Zero... THANKS Pavel and J.D.  
Posted by [davidf](#) on Thu, 01 Jul 1999 07:00:00 GMT  
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Frank Morgan ([frank.morgan@jhuapl.edu](mailto:frank.morgan@jhuapl.edu)) writes:

> Incidentally, I'd never realized you can say (where())[0] to get that first  
> element - that's a handy statement.

Handy, but really, really dangerous. I wouldn't use it in  
code, personally, unless I had bomb-proof error handling  
in place. :-)

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>  
Toll-Free IDL Book Orders: 1-888-461-0155

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Subject: Re: Zero... THANKS Pavel and J.D.  
Posted by [Frank Morgan](#) on Thu, 01 Jul 1999 07:00:00 GMT  
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Pavel and J.D.,

Thanks to both of you for some useful information.

Pavel mentioned the 0-at-the-end problem with the loop approach. After some  
analysis of my problem (a directed graph search), I've discovered that most  
of the vectors I search will contain a non-zero within the first 10% or so  
of the length. I would have thought then that the loop would be faster  
than 'where' but J.D.'s timing results prove me wrong - looks like even with  
loop halt at 10% (where his test halted at 50%), the timing would be 0.99/5  
= 0.2, still twice the time of 'where' searching the whole vector - boy, IDL  
loops really are bad!

For now I'm settling on 'where' - it's just fast enough for the biggest  
graphs I'm searching so far. J.D.'s timing for external code indicates that  
with 10% lengths typical, I might get 10X speedup over 'where' but for now  
the DLL compilation isn't worth it. But it gives me an out if I need to  
search bigger graphs.

Incedentally, I'd never realized you can say (where())[0] to get that first element - that's a handy statement.

Thaks,  
Frank

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Subject: Re: Zero... THANKS Pavel and J.D.  
Posted by [R.Bauer](#) on Fri, 02 Jul 1999 07:00:00 GMT  
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Frank Morgan wrote:

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> Incedentally, I'd never realized you can say (where())[0] to get that first  
> element - that's a handy statement.

It is always better to use the count value.  
where(a eq 0 ,count)

if count gt 0 then ...

R.Bauer

>  
>  
> Thaks,  
> Frank

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