
Subject: Re: User selectable lower array bound?
Posted by [Paul van Delst](#) on Fri, 03 Aug 2001 14:08:24 GMT
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Jeff Guerber wrote:

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>
> On Thu, 2 Aug 2001, Paul van Delst wrote:
>
>> Is is just me, or would anyone else find useful the ability to define
>> arrays in IDL such that the lower bound is *not* always zero? Sorta
>> like:
>>
>> x = FINDGEN( 11, LOWER = -5 )
>> or
>> y = DBLARR( 100, LOWER = 1 )
>>
>> so that accessing elements such as x[ -4 ] or y[ 100 ] are o.k.? [...]
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>

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> Here, here!! This was #1 on my (13-item) contribution to last summer's
> "Top 10 IDL Requests" discussion. As I pointed out then, Fortran's had
> this capability for decades. (And IDL is expressly a data-analysis
> language, like Fortran, not a systems-programming language like C.) The
> biggest problem I see is that certain IDL intrinsics, like WHERE(), return
> -1 to indicate an invalid index. Perhaps WHERE could return
> (lowerbound-1) instead, on the presumption that existing programs would be
> using 0-based arrays? Of course it's much better to check the COUNT=
> keyword anyway. (This would also be a good application for some sort of
> "undefined value" type.)
```

Well, maybe WHERE could work as it does now, but for cases where the start index is not zero, a function like the Fortran 90 intrinsic LBOUND() could be used.

BTW, I never check the WHERE result either, always the COUNT value.

paulv

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Paul van Delst A little learning is a dangerous thing;
CIMSS @ NOAA/NCEP Drink deep, or taste not the Pierian spring;
Ph: (301)763-8000 x7274 There shallow draughts intoxicate the brain,
Fax:(301)763-8545 And drinking largely sobers us again.
 Alexander Pope.