

Subject: Re: Specification for a new array slicing function
Posted by [Martin Schultz](#) on Thu, 20 May 1999 07:00:00 GMT
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Liam Gumley wrote:

 $\triangleright$

- > I agree that START, STRIDE, COUNT are somewhat wordy. However I'd like
- > to be able to specify them in any combination, e.g.
- > I'm not sure I know a clean way to allow these combinations, other than
- > using optional keywords.

well, if you set the ones you don't need to -1 (as this was suggested to specify "all"). But at least for STRIDE, -1 should be possible as such (see my other post).

- > START only, or ARREX(array,START)
- > STRIDE only, or ARREX(array,-1,-1,STRIDE)
- > COUNT only, or ARREX(array,0,COUNT-1) ; you need a start to count !
- > START and STRIDE, or ARREX(array,START,-1,STRIDE)
- > START and COUNT, or ARREX(array,START,START+COUNT)
- > STRIDE and COUNT, or ARREX(array,0,COUNT-1,STRIDE)
- > START and STRIDE and COUNT. ARREX(array,START,START+COUNT,STRIDE)

Note that I used `START,END,STRIDE` as in F90.

Also: while START,END,STRIDE can be multi-dimensional, they must have the same dimensions - -1 being an exception, e.g.

```
array=fltarr(10,10,10)
start=[0,0,5]
stride=[2,2,1]
help,arrex(array,start,-1,stride)  should yield ARRAY[5,5,5]
```

Also, perhaps, an undefined parameter should also be interpreted as "ALL" (and then be returned as -1), i.e. in the above example `arrex(array,start,theend,stride)` should yield the same result although `THEEND` wasn't defined

A boolean /REFORM keyword would be a nice feature.

Martin.

—

A standard 1D barcode with vertical black bars of varying widths on a white background.

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