
Subject: Re: Padding arrays - vector subscripts not working

Posted by [James\[2\]](#) on Sat, 03 Jul 2010 20:52:00 GMT

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On Jul 2, 1:01 pm, Paulo Penteado <pp.pente...@gmail.com> wrote:

> On Jul 2, 3:45 pm, James <donje...@gmail.com> wrote:

>

>> By the way, I would like my final program to work on arrays with any

>> number of dimensions, so I'd rather avoid a kludge like X[diff[0],

>> diff[1], diff[2]] = Y.

>

> As I wrote above, X[diff[0],diff[1],diff[2]] is not the same as

> X[diff]. What you seem to want is the equivalent of X[diff[0],

> diff[1], diff[2]] = Y, but working for any number of dimensions. That

> is, assign the elements of Y to a contiguous piece of X that starts at

> some location you calculate with the N-dimensional indexes. So it is

> just a matter of converting from those N indexes to a 1D index of

> that element:

>

> IDL> strides=[1L,product(size(x,/dimensions),/integer,/cumulative)]

> IDL> start_index=total(strides*diff,/integer)

>

> Then you can do X[start_index]=Y

Paulo, your explanation makes perfect sense. I guess I was hoping there was a more elegant way than calculating every single 1d index that will be used, but your method looks good. Thank you!
