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Subject: Re: zero-padding an array of arbitrary dimensionality (replacing execute in vm)

Posted by Allan Whiteford on Thu, 19 Jul 2007 16:37:26 GMT

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Vince,

```
data=fltarr(43,45,23,12) ; <- arbitrary  
data[1,1,1,1]=1000. ; <- so we know we get the right answer
```

```
tmp=size(data)  
tmp=tmp[1:tmp[0]]  
idx=1  
for i=0,n_elements(tmp)-2 do idx=idx+product(tmp[0:i])  
  
print,data[idx] ; We get element [1,1,1,1]
```

Helpful?

Probably doesn't work for 1D arrays.

Thanks,

Allan

hradilv wrote:

```
> I would like to zero-pad an array programmatically without knowing in  
> advance what the dimensionality is of the array.  
>  
> For example, in 2D, for data = some fltarr (31,31) I could do  
> dims = size(data,/dimensions)  
> zpad = fltarr(dims[0]+1,dims[1]+1)  
> zpad[1,1] = data  
>  
> For arb. dimensionality I have:  
>  
> dsize = size(data)  
> ndim = dsize[0]  
> dim = dsize[1:ndim]  
> dtmp = make_array(dim+2,value=0,type=dsize[ndim+1])  
>  
> cmd = 'dtmp'  
> for n=0L, ndim-1 do cmd = cmd+'1,'  
> cmd = strmid(cmd,0,strlen(cmd)-1)+']=data'  
> result = execute(cmd)  
>  
> But this won't work in the vm. So I need to somehow figure out the  
> position of the [1,1,1,...] index for an arbitrary dimensionality.
```

>  
> Clear enough? TIA!  
> Vince  
>

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