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

Posted by [Vince Hradil](#) on Thu, 19 Jul 2007 15:51:58 GMT

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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
