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Subject: Re: Padding arrays - vector subscripts not working

Posted by [pentead0](#) on Tue, 06 Jul 2010 20:48:25 GMT

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I think this does it, but you should check. I am assuming that both out and array have the same number of dimensions.

function pad, array, dims

;error checking, etc. removed for more compact newsgroup post

```
type = size(array, /type)
out = make_array(dims, type=type)
```

;calculate where to put the original array in the new

```
sz = size(array, /dimensions)
```

```
dimdiff=dims-sz
```

```
diff = dimdiff/2
```

```
out_strides = [1L, product(dims, /integer, /cumulative)]
```

```
out_ind = total(out_strides*diff, /integer) ;starting index where
```

out is to be set

```
array_ind=l64indgen(n_elements(array)) ;indexes of array to use in
out
```

```
out_ind+=array_ind ;make the index list a contiguous list starting
at out_ind
```

```
;if more than 1D, the section of out to be set may not be
contiguous, so make the jumps in the indexes at every dimension
```

```
array_strides = [1L, product(sz, /integer, /cumulative)]
```

```
for i=1,n_elements(dims)-1 do out_ind+=(array_ind/
```

```
array_strides[i])*dimdiff[i-1]*out_strides[i-1]
```

```
out[out_ind] = array[array_ind]
```

```
return, out
```

```
end
```

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