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Subject: Re: Getting array indices

Posted by [Brian Larsen](#) on Tue, 23 Sep 2008 21:17:46 GMT

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> Because of "indgen(ns)" or because of array\_indices?

Because of array\_indices according to this test:

```
;; .run test.pro
```

```
array = findgen(15, 3)
```

```
ind_in = lindgen(n_elements(array))
```

```
t1 = systime(/sec)
```

```
FOR i = 0UL, 1e5 DO BEGIN
```

```
    ind = array_indices(array, ind_in
```

```
ENDFOR
```

```
print, systime(/sec)-t1
```

```
t1 = systime(/sec)
```

```
FOR i = 0UL, 1e5 DO BEGIN
```

```
    sz = size(array)
```

```
    nx = sz[1]
```

```
    ny = sz[2]
```

```
    verts = lindgen(nx*ny)
```

```
    verts = transpose( [ [verts mod nx], [verts/nx] ] )
```

```
ENDFOR
```

```
print, systime(/sec)-t1
```

```
END
```

```
IDL> .run test
```

```
% Compiled module: $MAIN$.
```

```
    1.2473059
```

```
    0.50232387
```

```
IDL> print, !version
```

```
{ i386 darwin unix Mac OS X 6.4.1 Sep 25 2007    32    64}
```

For closure I whipped this together into a quick function  
all\_array\_indices.pro so I don't have to remember how to do this  
again.

[http://people.bu.edu/balarsen/IDLdoc/all\\_array\\_indices.html](http://people.bu.edu/balarsen/IDLdoc/all_array_indices.html)

Brian

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<http://people.bu.edu/balarsen/Home/IDL>

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