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Subject: Padding arrays - vector subscripts not working

Posted by [James\[2\]](#) on Fri, 02 Jul 2010 18:45:55 GMT

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Hello Everyone,

I'm writing a phase correlation routine for image registration. A preliminary step is padding the images with zeroes. Here's a simplified example of what I'd like to do:

```
X = bytarr(5,5,5)
Y = bindgen(2,2,3)
diff = (size(X, /dimensions) - size(Y, /dimensions))/2
X[diff] = Y
```

Unfortunately, this gives me an error message:

```
% Array subscript for X must have same size as source expression.
```

The strange part is, if I type in:

```
X[1,1,1] = Y
```

it works fine - but using the array DIFF (whose contents are [1,1,1]) it fails. What's happening? Is there any way I can do this in IDL?

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`.

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