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Subject: elegant array index expansion using INTERPOLATE

Posted by [Ryan](#) on Fri, 11 Jan 2008 20:33:12 GMT

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Hi All,

If I have a range of array indices I want to be able to interpolate between this to get all indices in between. What is an elegant way of doing this?

Here is an example of what I want:

```
array = [0,2,4,6,8,10,12,14,16,18]
```

```
idxrange = [3, 6]
```

```
expidxrange = Interpolate('idxrange') to get [3,4,5,6]
```

so that I can get

```
array[expidxrange] OR [6,8,10,12]
```

I would like it to be as general as possible. This is what I have, but it doesn't work for a range of 1:

```
expidxrange = INTERPOLATE(idx, $  
(1./(idxrange[1]-idxrange[0])*FINDGEN(idxrange[1]-idxrange[0] ) ) )
```

Any thoughts?

Ryan.

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