
Subject: Re: Creating a sub array from an array
Posted by [David Fanning](#) on Thu, 10 Jun 2010 14:38:34 GMT
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Fster writes:

> I have an array in this format
>
> OLR FLOAT = Array[720, 144, 144]
> where 720 = t
> 144 = x and y
>
> I need to create an array for particular extracted values of this
> array where say x has values from 1 to 5 and y has values from 1 to 5.
>
> I'm just not sure on how to perform this, a do loop perhaps? sorry I
> am a complete beginner!

I would do something like this:

```
xindices = Where(x ge 1 and x le 5, xcount)
yindices = Where(y ge 1 and y le 5, ycount)
CASE 1 OF
  xcount gt 0 and ycount eq 0: subOLR = olr[* ,xindices,*]
  xcount eq 0 and ycount gt 0: subOLR = olr[* ,*,yindices]
  xcount eq 0 and ycount eq 0: subOLR = olr
  xcount gt 0 and ycount gt 0: subOLR = olr[* ,xindices,yindices]
ENDCASE
```

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: Creating a sub array from an array
Posted by [jeanh](#) on Thu, 10 Jun 2010 16:42:52 GMT
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> xindices = Where(x ge 1 and x le 5, xcount)

> xcount eq 0 and ycount eq 0: subOLR = olr

> David

I suggest having subOLR = -1 in this case, as there is no match

Jean

Subject: Re: Creating a sub array from an array
Posted by [greg.addr](#) on Thu, 10 Jun 2010 17:28:31 GMT
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On 10 Jun., 16:27, Fster <francis.colle...@live.co.uk> wrote:

> I have an array in this format
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> am a complete beginner!

Is this what you're looking for:

```
subset=olr[:,1:5,1:5]
```

regards,
Greg
