Subject: Re: data removal from array
Posted by David Fanning on Sun, 05 Nov 2006 18:41:55 GMT
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StevenM writes:

> I have an array of data of size 4915200, I want to keep data points
> 0:639 and get rid of the next 128 data points and then keep the next
> 640 and get rid of the next 128 and so on to the end of the array
> i.e.
>
> 0:639 keep
> 640:767 discard
> 768: 1407 keep
> 1408: 1536 discard

I should think something like this

```
IDL> a=bytarr(4915200)
IDL> for j = 0L,4915200-(640+1),(640+128) do a[j:j+639] = 1
IDL> indices = Where(a ge 1)
IDL> array = array[indices]
```

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: data removal from array
Posted by David Fanning on Sun, 05 Nov 2006 18:48:29 GMT
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David Fanning writes:

> IDL> indices = Where(a ge 1)

Whoops! Obviously, this should be:

```
IDL> indices = Where (a eq 1)
```

Cheers,

David
--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
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Sepore ma de ni thui. ("Perhaps thou speakest truth.")

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Subject: Re: data removal from array
Posted by greg michael on Sun, 05 Nov 2006 20:12:37 GMT
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How about this one...

result=array[where(rebin(indgen(768) lt 640,768,4915200/768) gt 0)]

regards,
Greg

---

Subject: Re: data removal from array
Posted by greg michael on Sun, 05 Nov 2006 22:46:24 GMT
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Actually, David's way is three times faster than that (I'm not sure why
the rebin takes so long?). But this is several times faster still...

```
array=reform(array,768,4915200/768,/overwrite)
array=array[0:639,*]
array=reform(array,n_elements(array),/overwrite)
```

regards,
Greg

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