
Subject: Re: help with chunk indexing

Posted by [Wox](#) on Mon, 02 Jul 2007 09:53:02 GMT

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On Fri, 29 Jun 2007 19:51:14 -0000, "Matt B." <becker.mr@gmail.com>
wrote:

> But what is a fast way to do this
> n = [1,2,1,4] ==> inds = [0,0,1,0,0,1 ,2 ,3]

Maybe there is a more clever way, but this works:

```
in=[1,2,1,4]
h=histogram(total(in,/CUMULATIVE,/PRESERVE_TYPE)-1,/BINSIZE,
MIN=0,REVERSE_INDICES=ri)
nh=n_elements(h)

i=ri[0:nh-1]-ri[0]
ind=shift(i,-1)-i
ind=[1,ind[0:nh-2]]
out=indgen(nh)-(where(ind))[i]

print,out ;[0,0,1,0,0,1 ,2 ,3]
```

Subject: Re: help with chunk indexing

Posted by [greg.addr](#) on Mon, 02 Jul 2007 12:42:08 GMT

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Here's a simpler way...

```
IDL> inds = [0,1,1,2,3,3 ,3 ,3]
IDL> n = [1,2,1,4]
IDL> c=[0,total(n,/cum,/int)]
IDL> print,indgen(n_elements(inds))-c[inds]

      0      0
1      0      0
1      2      3
```

For the life of me, I can't remember how to transform n = [1,2,1,4]
==> inds = [0,1,1,2,3,3 ,3 ,3] - I spent ages reading the IDL function
list, but I can't find it...

many greetings,
Greg

Subject: Re: help with chunk indexing
Posted by [Wox](#) on Tue, 03 Jul 2007 08:11:14 GMT
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On Mon, 02 Jul 2007 05:42:08 -0700, greg.addr@gmail.com wrote:

```
>
> Here's a simpler way...
>
> IDL> inds = [0,1,1,2,3,3 ,3 ,3]
> IDL> n = [1,2,1,4]
> IDL> c=[0,total(n,/cum,/int)]
> IDL> print,indgen(n_elements(inds))-c[inds]
>           0           0
> 1           0           0
> 1           2           3
```

From the moment I used the where function, I just knew there was a better way :-).

```
> For the life of me, I can't remember how to transform n = [1,2,1,4]
> ==> inds = [0,1,1,2,3,3 ,3 ,3] - I spent ages reading the IDL function
> list, but I can't find it...
```

http://www.dfanning.com/idl_way/chunkindex.html

But Matt knew how to do that.
