
Subject: Re: chunk indexing like
Posted by [Wout De Nolf](#) on Sun, 10 Jan 2010 13:52:14 GMT
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On Sat, 9 Jan 2010 01:37:18 -0800 (PST), chris <rogass@googlemail.com> wrote:

```
> h=histogram(total(n>0,/CUMULATIVE,/int)-1,/
> BINSIZE,MIN=0,REVERSE_INDICES=ri )
> nh=n_elements(h)
> chinkind=ri[0:nh-1]-ri[0]
> ind2=where([1,chinkind[1:]-chinkind[0:nh-2]] ne 0)
> l1=lindgen(nh)-ind2[chinkind]
```

The code below solves the histogram approach error but even when excluding the histogram from timing (I need chunk indexing anyway), the loop approach is the fastest.

```
h=histogram(total(n>0,/CUMULATIVE,/int)-1,/BINSIZE,MIN=0,REVERSE_INDICES=ri)
nh=n_elements(h)
chunkind=ri[0:nh-1]-ri[0]
```

```
t0=sysime(1)
tmp=[1,chunkind[1:]-chunkind[0:nh-2]]
ind2=where(tmp ne 0)
tmp=total((tmp-1)>0,/cum,/int)
l2=lindgen(nh)-ind2[chunkind-tmp]
print,'Histogram-approach: ',sysime(1)-t0,' seconds for
',n_elements(n), ' elements'
```

Timing:

```
CR-Rebin/mod-approach:      1.4690001 seconds for , 10000 elements
Histogram-approach:      2.3290000 seconds for , 10000 elements
Loop-approach:      0.82800007 seconds for , 10000 elements
```
