Subject: Re: Speed-up of code
Posted by wlandsman on Tue, 25 Aug 2009 15:36:15 GMT
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On Aug 25, 10:16 am, Philip Elson <philipel...@googlemail.com> wrote:

> My assumption is that the HISTOGRAM function will be helpful, but
> having spent quite some time on this I am beginning to think that it
> cannot be done - though I would love to be proved wrong by any
> histogram guru out there.

I think you want to read the "drizzling" article on David's Web page
(http://www.dfanning.com/code_tips/drizzling.html).   (Your question
differs only in that in you want to average the values rather than sum
them).

I think "Histogram plus cumulative total" usually had the winning
time:

```
 h = HISTOGRAM(day, REVERSE_INDICES=ri)
 nh = N_ELEMENTS(h)
 sortData = value[ri[nh+1:*]]
 totSortData = [0., TOTAL(sortData, /CUMULATIVE)]
 vec8 = totSortData[ri[1:nh]-nh-1] - $
     totSortData[ri[0:nh-1]-nh-1]
 print,vec8/h  ;May need to check for zero values first
```

--Wayne