Subject: Re: Array juggling help needed
Posted by David Fanning on Fri, 23 Sep 2005 13:40:59 GMT
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Haje Korth writes:

> I need to expand and an array non-uniformly based on its content. I am
> trying to to the following:
>
> input array: [1,5,4,1]
> output array should be: [1,0.2,0.2,0.2,0.2,0.2,0.25,0.25,0.25,0.25,1]
>
> Each elements of the input array is basically tuned into
> fltarr(inputarray[i])/inputarray[i] and the subarray concatenated. Is there
> a way to do this in one step, without using "for" loops and array
> concatenation? If not, I can work around this, but knowing for sure that
> this doesn't work would at least allow me to stop thinking about this
> problem. :-)
>
> To me this looks kind of like a "REPLICATE" for vectors function?

We've got to get more people reading that Histogram Tutorial.
Does anyone have a picture of a sexy young woman in a
"Histogram" T-shirt they want to share?

This is the "index chunking" problem discussed in the tutorial
and last week in this newsgroup:

```
IDL> n = [1, 5, 4, 1]
IDL> d = 1./n
IDL> print, d
      1.00000     0.200000     0.250000      1.00000
IDL> h=histogram(total(n,/CUMULATIVE)-1,/BINSIZE,$
       MIN=0,REVERSE_INDICES=ri)
IDL> I=ri[0:n_elements(h)-1]-ri[0]
IDL> print, d[I]
1.00 0.20 0.20 0.20 0.20 0.20 0.25 0.25 0.25 0.25
```

Cheers,

David

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