
Subject: Re: Question on plotting a histogram with original values

Posted by [davidf](#) on Thu, 06 Feb 1997 08:00:00 GMT

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David van Kuijk <kuijk@mpi.nl> writes:

```
> When I use the histogram-function I find it very annoying that I can't see
> which range of data has been put in which bin. Has anybody written a
> function which returns these values, or the mean values for each bin?
>
> To give an example:
> PRO testHisto
>
> testAr = [-44,0,-42,-58,-48,-25,-26,-1,-46,-36,-16,-55,-6,-81,10,-31, -38,$
>
> -34,-49,-80,2,-40,-65,-3,10,-31,-85,-34,-27,-14,-41,-73,-67, 3,-51,$
>          -6,0,-107,-7,-36,-33,-59,-2,-99,-22]
> testHisto = histogram(testAr, BINSIZE = 10)
> plot, testHisto, PSYM = 10
> END
>
> This program will plot a nice histogram, but the values on the x-axis just
> show the rank number of the bins, and the information on the ranges of the
> original data is lost.
```

Try this modification to your program, David.

```
PRO testHisto
```

```
testAr = [-44,0,-42,-58,-48,-25,-26,-1,-46,-36,-16,-55,-6,-81,10,-31, -38,$
```

```
-34,-49,-80,2,-40,-65,-3,10,-31,-85,-34,-27,-14,-41,-73,-67, 3,-51,$
        -6,0,-107,-7,-36,-33,-59,-2,-99,-22]
```

```
testHisto = histogram(testAr, BINSIZE = 10)
```

```
s = SIZE(testHisto)
```

```
maxData = MAX(testAr, MIN=minData)
```

```
x = FINDGEN(s(1)) * ((maxData - minData)/(s(1)-1)) + minData
```

```
plot, x, testHisto, PSYM = 10, XSTYLE=1
```

```
END
```

Cheers!

David

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