
Subject: Re: Fast Implementation

Posted by [David Fanning](#) on Fri, 05 Jul 2002 17:06:42 GMT

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David Fanning (david@dfanning.com) writes:

> If you normalize your quadrant to 1, and take a bin size
> of 0.5, then a Histogram would give you the answer in, oh,
> 0.00005 seconds. :-)

Sorry, I was busy before. Here is an example of what I mean:

PRO Example

```
; Find out how many points are in each quadrant  
; of a 2D space given by the max and min of the  
; data.
```

```
x = (randomu(seed, 1000) - 0.5) * 100
```

```
y = (randomu(seed, 1000) - 0.5) * 100
```

```
Plot, x, y, /NoData
```

```
Oplot, x, y, Psym=4
```

```
xx = Scale_Vector(x, 0, 0.9999999)
```

```
yy = Scale_Vector(y, 0, 0.9999999)
```

```
result = Hist_2D(xx, yy, Bin1 = 0.5, Bin2=0.5, $
```

```
Min1=0, Max1=1.0, Min2=0, Max2=1.0)
```

```
print, result[0:1, 0:1]
```

```
END
```

You can find the Scale_Vector program on my web page:

http://www.dfanning.com/programs/scale_vector.pro

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

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