Subject: Re: vector of bin indices using histogram?
Posted by greg michael on Wed, 18 Oct 2006 14:00:09 GMT
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Thanks Ben - I never met that function before! Unfortunately, it's
using a bisection search, and comes out a little slower than the the
direct calculation:

```
pro test2,n
 x=randomu(0,n)
 h = HISTOGRAM(x, BINSIZE = 0.1, LOC = loc, MIN = 0.0)

 t=systime(/seconds)
 mx=max(x,min=mn)
 b=fix((x-mn)/(mx-mn)*10)
 print,"direct calc",systime(/seconds)-t

 t=systime(/seconds)
 b=VALUE_LOCATE(loc, x)
 print,"value_locate",systime(/seconds)-t
end

IDL> test2,5e7
direct calc       1.5470002
value_locate       2.8750000
```

Well, maybe the direct calculation isn't so inefficient. But histogram
must have known those numbers during its calculation. It's a pity they
got thrown away.

Greg