
Subject: Re: HISTOGRAM and the Razor's Edge.
Posted by [David Fanning](#) on Thu, 12 Jun 2003 14:30:40 GMT
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Craig Markwardt writes:

- > Partial solution number one: use double precision.
- >
- > Partial solution number two: multiply all values by (1+EPS)
- > where EPS = (MACHAR()).EPS (or equivalent double version)
- > (assumes you always want to round "up" to the next bin)
- >
- > Partial solution number three: add a random deviate to each value
- > (doesn't solve the razor's edge problem per se, but reduces the
- > chances that a human-entered quantity will land on a bin-edge, and
- > reduces the bias of always rounding "up" to the next bin)
- >
- >
- > Partial solution number four: work in powers of 2 instead of multiples
- > of 0.05.
- >
- > Partial solution number five: learn to live with it.

It's been a few months. Everyone ought to have another
go at the Sky is Falling article and the good links
therein:

http://www.dfanning.com/math_tips/sky_is_falling.html

Cheers,

David

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