
Subject: Re: idl bimodal distribution

Posted by [penteado](#) on Fri, 19 Nov 2010 18:32:16 GMT

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On Nov 19, 4:24 pm, Paulo Penteado <pp.pente...@gmail.com> wrote:

> On Nov 19, 4:14 pm, Ana <u...@compgroups.net/> wrote:

>

>> I'm trying to simulate a bimodal "randomn" distribution with the 2 peaks having the sigmas of 0.3 each for example and mean around -1.2 and -0.7...

>> Do you have any tips?

>

>> I've tried adding these below, but it doesn't work..., I get a unimodal distribution...

>> met_1a = randomn(seed,100000)*0.3-1.2

>> met_1b = randomn(seed,100000)*0.3-0.7

>

>> Can someone help?

>

> Maybe I misunderstood it, but is this not a result of the central

> limit theorem?

If you want two peaks, it seems that you want the concatenation, not the addition of the two distributions. Still, the distance between the peaks will have to be large compared to the sum of their standard deviations.
