Subject: Re: Floating underflow?
Posted by Jeremy Bailin on Sun, 18 May 2008 12:46:58 GMT
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The floating underflow is almost certainly coming from points far out on the distribution... normal distributions drop below machine-representable numbers (even doubles) remarkably fast. In this case, it's probably innocuous enough, but if they're bothering you (or slowing down your code) you could always test to make sure the argument to the Gaussian isn't too large, and if it is then assign zero instead of doing the calculation.

Incidentally, you're not looping over i and j are you? :-)=

On May 18, 3:10 am, Magic.Z...@gmail.com wrote:
> can some one who can tell me how to deal with Floating underflow?
>
> my code is
> Pro_00(i,j)=(1.d32/(C*sqrt(MS_01[1,Oimage(i,j)]*1.d)))*EXP(-
> ((Oimage(i,j)-
> MS_01[0,Oimage(i,j)])^2)*1.d32/2.d32*MS_01[1,Oimage(i,j)])
> all of the input value is double
> it is a normal distribution, but the result report it has a Floating
> underflow, can some one give me some ideas?
> ps:
> it is a markov random fields