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Subject: Re: realizing the formula in idl

Posted by [James Kuyper](#) on Fri, 09 Sep 2005 14:14:17 GMT

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pravesh.subramanian@gmail.com wrote:

> Hello,  
> How do I realize this formula in IDL?  
>  
>  $\text{matrix}(x, y) = 1/(s^2 * 2 * \pi) * \text{Exp}(-(x^2 + y^2)/2 * s^2)$   
>  
> let's say  $x = y = 300$

The other people who've responded have assumed that what you mean is that matrix is a 300x300 array, and that you want to fill in the entire array. That seems likely, but there's an alternative interpretation of your message, for which the answer is different. If you merely want to set one element of the array to this value, then what you've already written is almost exactly the correct IDL translation:

$\text{matrix}[x, y] = 1/(s^2 * 2 * \pi) * \text{Exp}(-(x^2 + y^2)/2 * s^2)$

Even the use of the square brackets "[]" isn't strictly necessary, I just think it's clearer.

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