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Subject: Convolving a vector with the 2nd derivative of a Gaussian

Posted by [johan\[1\]](#) on Wed, 29 Dec 2010 19:37:26 GMT

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I am trying to do something that must be straightforward but I don't seem to get my head around it.

I have a vector, say

A = [20, 20, 20, 21, 26, 48, 88, 105, 182, 182, 241, 245, 241, 182, 182, 105, 88, 48, 26, 21, 20, 20, 20, 20]

I want to convolve it with the 2nd derivative of a Gaussian with a sigma of 10.

Is the CONVOL of IDL suitable and how do I construct the kernel?

Help will be greatly appreciated.

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