
Subject: Re: Approximate convolution - for loop problem

Posted by [Sam](#) on Mon, 22 Dec 2008 22:19:39 GMT

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It seems more memory demanding and I can not allocate the memory for it.

Well, thank you for the suggestions. Best Regards, Sam.

On Dec 22, 10:31 am, Wox <s...@nomail.com> wrote:

> On Sun, 21 Dec 2008 09:32:40 -0800 (PST), samuel.le...@gmail.com

> wrote:

>

>> nsamp=n_elements(signal)

>> const1 = exp(-tsamp/taubolo)

>> const2 = 1.-const1

>

>> bolo_signal = const2*signal

>> for ii= 1L,nsamp-1L do begin

>> bolo_signal[ii] += const1*bolo_signal[ii-1]

>> endfor

>

>> where tsamp and taubolo are scalars. Is there any way to avoid the for

>> loop in this case? The hope is to speed up the execution.

>

> This is without loop. Not sure it's faster though.

>

> a=[1.,2.,3.,4.]

> c=0.5

> n=n_elements(a)

>

> a=reform([reform(rebin([a,0],n+1,n-1,/sample),n*n-1),a[0]],n ,n)

> i=REBIN(LINDGEN(n), n, n)

> j=REBIN(TRANPOSE(LINDGEN(n)), n, n)

> a*= i ge j

>

> c=rebin(c^reverse(indgen(n)),n,n,/sample)

> a=reverse(total(a*c,1))

> print,a
