
Subject: Re: fast convolving question

Posted by [rogass](#) on Fri, 30 May 2008 07:44:18 GMT

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On May 29, 9:47 pm, Chris <cnb4s...@gmail.com> wrote:

>> But, did you see the error, why:

>

>> else (conv)[(i=indarray2[0:sm-1])]=kernel##mat(indsmall+ind(i))

>

>> only works for the first ind(i=0) and then repeats it by using always

>> ind(0) instead of ind(i)?

>

>> It this a bug or error in code?

>

> Both kernel and mat(indsmall+ind(i)) are vectors of length sm. When
> you matrix multiply them, the answer is single number. So you are just
> asking to fill in conv with the same number at every element given by
> i.

Ah, ok - THANKS. But how can I fix this?

If I would:

(conv)[(i=0)]=kernel##mat(indsmall+ind(i)) ->result right

(conv)[(i=1)]=kernel##mat(indsmall+ind(i)) ->result right
and so on..

But if I would:

(conv)[(i=indarray2[0:sm-1])]=kernel##mat(indsmall+ind(i))

or

(conv)[(i=indgen(sm)))]]=kernel##mat(indsmall+ind(i))

then it does what you said. That makes no sense to me. How can I do it
parallel for all indices given by i?

If the code would work, its 100 times faster than fft - and that is
the aim.

Please help again.

Thanks and best regards

Christian
