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Subject: Re: Performance of a loop  
Posted by [Martin Downing](#) on Fri, 19 Oct 2001 20:29:58 GMT  
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Paul,  
Im curious, can you explain why your modification should run faster?  
cheers  
Martin

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"Paul van Delst" <paul.vandelst@noaa.gov> wrote in message  
news:3BCEF673.6858D2A@noaa.gov...

> azM wrote:

>>

>> How can i speed up this procedure? It steps through a matrix of either  
>> 64x64x64, 128x128x128 or in the worst case 256x256x256.

>>

>> <==BEGIN IDL==>

>> FOR i = init, limit, 1 DO BEGIN

>> FOR j = init, limit, 1 DO BEGIN

>> FOR k = init, limit, 1 DO BEGIN

>> X=img\_a(i:kernel\_dim+i,j:kernel\_dim+j,k:kernel\_dim+k)

>> Y=img\_b(i:kernel\_dim+i,j:kernel\_dim+j,k:kernel\_dim+k)

>> sign\_prob\_map=TM\_TEST(X,Y)

>> spm\_plot\_statistic(i,j,k)= sign\_prob\_map(0)

>> spm\_plot\_significance(i,j,k)= sign\_prob\_map(1)

>> ENDFOR

>> ENDFOR

>> ENDFOR

>> <== END IDL ==>

>

> The easiest mod for some increase in speed:

>

> <==BEGIN IDL==>

> FOR k = init, limit, 1 DO BEGIN

> FOR j = init, limit, 1 DO BEGIN

> FOR i = init, limit, 1 DO BEGIN

> X=img\_a(i:kernel\_dim+i,j:kernel\_dim+j,k:kernel\_dim+k)

```
> Y=img_b(i:kernel_dim+i,j:kernel_dim+j,k:kernel_dim+k)
> sign_prob_map=TM_TEST(X,Y)
> spm_plot_statistic(i,j,k)= sign_prob_map(0)
> spm_plot_significance(i,j,k)= sign_prob_map(1)
> ENDFOR
> ENDFOR
> ENDFOR
> <== END IDL ==>
>
> assuming the guts of the inner loop can't be sped up somehow.
>
> paulv
>
> --
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