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Subject: Re: Issues with read\_png and/or profiler  
Posted by [hugh.ramp](#) on Wed, 25 Jul 2012 17:02:27 GMT  
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Profiler snapshot of 640x480 image: <http://i.imgur.com/gfcq2.png>

Profiler snapshot of 220x159 image: <http://i.imgur.com/8L7yp.png>

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Subject: Re: Issues with read\_png and/or profiler  
Posted by [Brian Daniel](#) on Wed, 25 Jul 2012 17:05:14 GMT  
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Are you reading the image over a network connection? If so, your network speed is the bottleneck. Download your file locally before processing.

Also, check out the convol function. I expect it to take much less time than 1.5 hours that you are reporting.

-Brian

On Wednesday, July 25, 2012 11:51:54 AM UTC-4, Hugh wrote:

> Hi all,  
>  
> I'm running a fairly straight forward image correlation program, which should run fairly quickly ( $\sim O(n^4)$ , I believe). However, the complexity seems to be rising much quicker than that, an 962x722 image with a 30x29 kernel takes ~16 hours (with profiler on), whereas a 640x480 image with the same kernel takes ~1.5 hours.  
>  
> Using profiler to determine the source for the complexity, I found that the Time self(ms) for read\_png() was ~60,000,000ms, i.e., 99% of the runtime was loading in the image. However, time+sub(ms) reports taking only ~100ms. I was under the impression that Time+sub should always include time self, no? In any case, I don't think read\_png should be taking nearly 16 hours to read a 700,000 pixel image.  
>  
> I was able to recreate the problem on a separate computer using the same code.  
>  
> Profiler Snapshot here: <http://i.imgur.com/xJelD.png>  
>  
>  
> Cheers and thanks,  
> Hugh

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Subject: Re: Issues with read\_png and/or profiler  
Posted by [hugh.ramp](#) on Fri, 27 Jul 2012 20:24:11 GMT  
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I was reading over a network, although moving it onto local storage did not drastically increase the speed. However, I believe I've found that profiler was the source of misinformation, after editing my code it now shows read\_png to take a reasonable amount of time. Instead, I found that the time appropriated to the read\_png function was actually from the convol function, which I had been misusing. My code now runs much faster!

Thanks,  
Hugh

On Wednesday, 25 July 2012 11:05:14 UTC-6, Brian J. Daniel wrote:

> Are you reading the image over a network connection? If so, your network speed is the bottleneck. Download your file locally before processing.

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> -Brian

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>  
>> Cheers and thanks,  
>  
>> Hugh

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