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 (~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