Subject: Re: Faster image median filtering
Posted by Deckard++; on Sun, 03 Jul 2011 13:53:55 GMT
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On Jun 28, 7:33 pm, Bennett <juggernau...@gmail.com> wrote:
> On Jun 24, 9:48 am, "Deckard++;" <arthur.vi...@gmail.com> wrote:
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>
>
>> Hi,
>
>> I am confronted with a performance issue related to median filtering
>> of images using the median() function of IDL. I have rather extended
>> sets (several thousands) of 1500x1500 images, and I need to median
>> filter each of them. So far I have been using this to filter them
>
>> img_filtered = median(img, boxsize)
>
>> The problem is that it take ~5 seconds per image for boxsize=15, which
>> is ok for a few images but really time consuming when considering
>> thousands of images. I have a few questions:
>
>> 1- is there a way to speed-up median filtering that I am not aware of?
>> 2- do you know if IDL implementation of 2D median() is the most
>> efficient?
>> 3- if not, are you aware of a DLM that would implement a faster median
>> filtering of images?
>
>> Thank a lot in advance.
>
>> Best regards,
>
>> -- Arthur;
>
> If you have multiple cores on your computer try out the idl_idlbridge
> object in IDL and just run multiple instances of your median
> processing at once.

This looks really interesting! I had never heard of idl_idlbridge
before. I will look into it because I am running my code on a 16-core
computer. Actually I am quite surprised that the MEDIAN function is
not optimised for multi-core.

Thanks,

-- Arthur;