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Subject: Re: Accelerating a one-line program doing matrix multiplication

Posted by on Wed, 29 Sep 2010 15:24:23 GMT

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On Sep 29, 4:49 pm, chris <rog...@googlemail.com> wrote:

> On 29 Sep., 12:48, Axel M <axe...@gmail.com> wrote:

>

>> I have to admit that I did not understand this proposed use of

>> REPLICATE:

>

>>>> sometimes (replicate({temp:input},newsiz)).(0) is faster then rebin

>

>> But it brought me a related question in mind: does IDL have a

>> "REPLICATE" function for vectors instead of scalar values? I am using

>> REBIN, but REBIN is thought for more advanced uses and probably

>> suboptimal for a "replicate-like" use... right?

>

> Yes, it has as I mentioned uncommented above:

>

> sometimes (replicate({temp:input},newsiz)).(0) is faster then rebin

>

> -> this means:

>

> IDL> a=findgen(3)

> IDL> print,a

> 0.000000 1.00000 2.00000

> IDL> print, rebin(a,3,5)

> 0.000000 1.00000 2.00000

> 0.000000 1.00000 2.00000

> 0.000000 1.00000 2.00000

> 0.000000 1.00000 2.00000

> 0.000000 1.00000 2.00000

> IDL> print, (replicate({temp:a},5)).(0)

> 0.000000 1.00000 2.00000

> 0.000000 1.00000 2.00000

> 0.000000 1.00000 2.00000

> 0.000000 1.00000 2.00000

> 0.000000 1.00000 2.00000

>

> Regards

>

> CR

Thanks!!

Great, I did not know about this construction, and honestly I do not understand how it works (is there any documentation about it?).

Anyways, I tried it, and unfortunately I saw that it needed ~20%

longer (the complete function, not the rebin only). So, it is not faster.. but it is great though.

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