## Subject: Re: Accelerating a one-line program doing matrix multiplication Posted by rogass on Wed, 29 Sep 2010 14:49:57 GMT

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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},newsize)).(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},newsize)).(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