Subject: Re: Matrix expansion performance
Posted by Chris Lee on Mon, 28 Mar 2005 13:43:39 GMT
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In article <d28tre$j32$1@pegasus.fccn.pt>, "Ricardo Bugalho"
<rbugalho@ibili.uc.pt> wrote:

> Hi,
> I have a matrix A (m,n) is and I want to create a matrix B(m,n,p) such
> that each B(*,*,i) slice equals A. p is very large and n is usually
> smaller than m so I have:
> B=bytArr(m,n,p)
> C=byteArr(p) + 1
> FOR i = 0, n-1 DO B[*,i,*] = REFORM(A[*,i]) # p Quite fast, but not
> enough for my needs. Any one has better sugestions? Still stuck in IDL
> 5.4, by the way.
> Thanks,
> Ricardo
>

Assuming your code was wrong, and that #p should be #C. A bit of reform
magic will do what you want.

http://www.dfanning.com/tips/rebin_magic.html

e.g.

b=rebin(reform(a, [m, n,1]), [m,n,p])

Chris.