Subject: Re: Matrix expansion performance
Posted by Kenneth P. Bowman on Mon, 28 Mar 2005 13:50:00 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

This should be quite fast, if I understand your problem correctly:

```
B = BYTARR(m,n,p)
FOR k = 0, p-1 DO B[0,0,k] = A
```

This will avoid subscript arrays and should access memory efficiently on
most machines.

Ken Bowman