
Subject: Re: Fast matrix filling in IDL
Posted by [steinhh](#) on Sat, 12 Dec 1998 08:00:00 GMT
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A slight modification of David's program, and adding
my favourite speedup method:

```
PRO TEST
  m = 1000
  n = 500

  array = Filtarr(m, n)
  v = RandomU(seed, m)

  time = systime(1)
  FOR i=0,n-1 DO array[:,i] = v
  Print, 'Time for Loop: ', systime(1) - time

  time = systime(1)
  vector = Replicate(1, n)
  array = v ## vector
  Print, 'Time for Matrix Operations: ', systime(1) - time

  time = systime(1)
  array = rebin(reform(v,m,1,/overwrite),m,n,/sample)
  print, 'Time for Rebin Operations: ', systime(1) - time
END
```

On { alpha OSF unix 5.2 Oct 30 1998}, this gives:

```
Time for Loop:          0.27343702
Time for Matrix Operations: 0.093750000
Time for Rebin Operations: 0.067382932
```

Note that the relative speeds can vary quite a lot on
different architectures.

Regards,

Stein Vidar
