Subject: Efficient IDL Programming - RESULTS Posted by dean on Wed, 08 Dec 1993 19:23:25 GMT

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I just wanted to share my results with everbody that monitors comp.lang.idl-pvwave. My first method for reading my (512,64) file and expanding to (512,512) was using the FOR DO BEGIN loops which took about 30 seconds on a VAXstation 4000 running VMS. I tested three suggestion that were posted or sent directly to me.

Dr. Marty Ryba suggestion took about 9 secs:

```
imxgrf = rebin(rotate(imxgrf, 4), 8, isize)
mask = 2b^rebin(bindgen(8), 8, isize)
graphic = (imxgrf AND mask) NE 0
graphic = reform(graphic, ysize, xsize, /overwrite)
```

Chris Chase suggestion took about 12 seconds:

```
mask = 2B^indgen(8)
B = bytarr(512,512)
A = transpose(A); Put the 64 bytes along the rows.
B(*) = (byte(mask#A(*))/128B)(*)
```

Eric Deutsch suggestion took about 20 seconds:

```
input_img=byte(indgen(xsize/8,ysize)) ; sample input image tmp=lindgen(1.0*ysize*xsize) ; 1.0 to avoid int wrap tmp2=tmp-(tmp/8)*8 ; create mask input tmp3=reform(tmp2,xsize,ysize) ; reform to correct dim's reform to correct dim's create bitmask work=congrid(inimg,xsize,ysize) ; replicate each byte 8 times outimg=(work and mask) ne 0 ; perform the mask outimg=byte(outimg)*244b ; enhance value
```

Thanks again for your suggestions. I approached this problem as FORTRAN programmer thinking FOR loop, FOR loop,, but came away thinking like an IDL programmer.

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