Subject: Re: Multiplying a cube by a vector Posted by thompson on Thu, 09 Dec 1999 08:00:00 GMT

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- > Hi!
- > Has anybody written a function that multiplies an array by a vector along
- > a given dimension?
- > For the last dimension, one can do for an array of dimension nx,ny,nz :
- > vector_unit = replicate(1, nx*ny)
- > newcube = vector ## vector_unit
- > newcube = reform(cube,nx*ny, nz) * temporary(newcube)
- > newcube = reform(newcube, nx,ny,nz, /overwrite)
- > but for the other dimensions?
- > Cheers Pierre

Pierre:

I believe that the following will what you want. If CUBE has the dimensions (NX,NY,NZ), and VECTOR_Y has the dimensions (NY), then you can multiply the two with the command

NEWCUBE = REBIN(REFORM(VECTOR_Y, 1,NY,1), NX,NY,NZ)

(I believe that Stein Vidar Haugan first pointed this out.)

William Thompson