In article <7mhjl5bme1@readme.uio.no>, colin.rosenthal@astro.uio.no wrote:

> If I have an i*j*k array and vector of length k and I want to
> put the vector in every column of the array how do I do it?

FOR k = 0L, nk-1L DO a[*,*,k] = v[k]

> More specifically, I have a 3-d array and wish to compute the average
> value of the array over two of the dimensions and store the result in
> a 3-d array of the same size as the original.

Do you mean "store the result in a *2-D* array"? If so, then

a_mean = TOTAL(a, 3)/nk

If you really mean 3-D, then

a_mean = TOTAL(a, 3)/nk
FOR k = 0L, nk-1L DO a[0L,0L,k] = a_mean

Ken Bowman