
Subject: Re: confused multiplying arrays

Posted by [penteado](#) on Thu, 11 Nov 2010 21:33:57 GMT

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On Nov 11, 7:11 pm, Paula <paulartcoe...@gmail.com> wrote:

> IDL> help,area,fluxes

> AREA FLOAT = Array[2000]

> FLUXES FLOAT = Array[2000, 112864]

>

> I want the i-th element in area AREA[i] to multiply all elements in

> the corresponding 2nd dimension in fluxes FLUXES[i,*] and then sum up

> all the 2000 resulting fluxes, i.e., using loop:

>

> for i = 0,1999 do begin

> TOTAL_FLUX = TOTAL_FLUX + AREA[i]*reform(FLUXES[i,*])

> endfor

>

> i've been trying to figure out (without success) how to compute

> TOTAL_FLUX without the loop using TOTAL(). ideas?

If I understand it right, you want total_flux to be a 112864-element array, where each is the sum of all 2000 elements in the corresponding line of fluxes, weighted by area. So, if there is enough memory, it could be done with

total_flux=total(rebin(area,100,112864)*fluxes,1)
