
Subject: Re: confused multiplying arrays

Posted by [David Gell](#) on Fri, 12 Nov 2010 14:30:36 GMT

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On Nov 11, 3:11 pm, Paula <paulartcoe...@gmail.com> wrote:

> hello,

>

> i've got two arrays:

>

> 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?

>

> thx

> p.

Use the matrix multiply operator, TOTAL_FLUX=TOTAL(AREA # FLUXES).

IDL can be a little confusing about matrix multiplication. It has two operators # and ## that perform the operation.

A#B = B##A.
