Subject: Re: REPLICATE question
Posted by paul on Tue, 15 Oct 1996 07:00:00 GMT
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In article <32636705.41C6@jmc-luni.u-bordeaux2.fr> Mario Noyon
<mnoyon@jmc-luni.u-bordeaux2.fr> writes:

> I would like to divide an arr1(n,n,m) by an arr2(n,n) and be able to
> obtain an array(n,n,m). I suppose there is a way to avoid the for
> statements.
> I had the idea to transform my arr2(n,n) in an arr2(n,n,m) where the
> m-elements are all the same but REPLICATE does not work with the arrays.
>
> Does some-one have an idea that could help me?

how about,

```
array=aar1                  ; define "array" as an (n,n,m) array
ii=lindgen(n*n*m)           ; define "ii" as a one dimension index array
array=arr1(ii)/aar2(ii/m)   ; "ii/m" is the correct index array for "aar2"
                        ; there is a  one-to-one correspondence of
                        ;   "vector" elements on the RHS with "array"
                        :   elements on the LHS.  Because "array" had
                        ;   already been defined as an (n,n,m) array,
                        ;   this equation does not alter the variable
                        ;   type.
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