
Subject: Re: Using two different arrays in the same calculation

Posted by [dan](#) on Wed, 08 Jun 1994 14:42:33 GMT

[View Forum Message](#) <> [Reply to Message](#)

Newsgroup: comp.lang.idl-pvwave:

Subject: Using two different arrays in the same calculation

ragnar@kvarf.fi.uib.no (Ragnar Aas) writes :

> I have the following problem :
>
> I have two different arrays, (8) of float and (300,8) of float.
> I want to vectorize the equation and therefore I need to use both
> arrays in the same equation. For example :
>
> newarray=cos(small_array)*sin(large_array)
>
> where I want the data in small_array to be used over and over 300 times
> in this calculation.
>
> Hope somebody can help me.
>

Ragnar,

You can use the # operator (matrix multiply) to make the small (8)
array into a (300,8) array. Try this :

```
IDL> arr1 = Findgen(8)
```

```
IDL> arr2 = Findgen(300, 8)
```

```
IDL> newarr = (Replicate(1.0, 300) # Cos(arr1)) * Sin(arr2)
```

Dan Carr
Research Systems
Boulder, Colorado
dan@rsinc.com
