
Subject: Re: array manipulation problem

Posted by [Paul Hick](#) on Wed, 07 Jun 2000 07:00:00 GMT

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

"Martin B. Schmidt" wrote:

> How can I assign
> $a[i,j,k] = i^2 + j^2 + k^2$ for all i,j,k ($i,j,k=0,1,2,\dots,n-1$)
> without using any loop?

```
one = replicate(1.0, n)
index = findgen(n)^2
a = reform( reform( index#one, n*n)#one + reform( one#index, n*n)#one
+ reform( one#one, n*n)#index ,n,n,n)
```

Not particularly pretty, but it should work.

Cheers,

Paul

--

	Paul Hick (pphick@ucsd.edu)	
	Office : SERF Rm. 302	Smail : UCSD/CASS/0424
	Phone : (858) 534-8965	9500 Gilman Drive
	Fax : (858) 534-0177	La Jolla CA 92093-0424
	WWW : http://casswww.ucsd.edu/personal/Plh.html	
