Subject: Re: how to compile a matrix whose some elements are matrixes Posted by Jean H. on Fri, 14 Jul 2006 16:34:50 GMT

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Hello,

well, your array will hold two different things: an int and an array of int. If you want to keep your zeroes as individual values, maybe you should consider using a pointer. You create a 7*7 pointer array, and you assign either the value 0 or the matrix G or I to each cell.

```
mat = ptrarr(7,7)
(*mat)[0,0] = G
(*mat)[0,3] = 0
```

If you don't mind to replicate your zeroes (in a 7,7 array), just create a 49*49 array and fill it with G,I and the 7*7 zeroes array! mat[0,0] = G mat[7,0] = I

Jean

>

haojuanchina@gmail.com wrote:

- > Hello, everyone
- > I want obtain a matric whose some elements are matrixes, how to compile
- > the program?
- > example: I want to abtain the following matrix

G I 0 0 0 0 0

- > I G I 0 0 0 0 > 0 I G I 0 0 0 > 0 0 I G I 0 0 > 0 0 0 I G I 0 > 0 0 0 0 I G I > 0 0 0 0 I G I
- in which I is an identity matrix,
- 0 0 0 0 0 0 1 > 0 0 0 0 0 > 0 0 1 0 0 0 0 > 0 0 0 1 0 0 0 0 $0 \quad 0$ 0 > 0 0 0 0 1 0 0 > 0 0 0 0 0 0 1
- > and G is a similar diagonal matrix:
- 1 2 0 0 0 0 > 2 0 0 0 0 2 1 > 0 2 1 2 0 0 0 > 0 0 2 1 2 0 0 > 0 0 0 2 1 2 0

```
0 0 0 0 2 1 2
>
           0 0 0 0 0 2 1
>
  I can compile the program of the matrix G and I:
> PRO Matrix
>
> diag =findgen(7)
> sub=findgen(6)
> super=findgen(6)
>
> diag[0:6]=1
> sub[0:5]=2
> super[0:5]=2
>
>
> G = DIAG_MATRIX(diag) + $
> DIAG_MATRIX(super, 1) + DIAG_MATRIX(sub, -1)
> G[0,1:5]=2
> G[1:5,0]=2
> print,G
>
> I= identity(7)
> print,l
>
> END
>
>
> but how to get the first matrix in which include the matrix G and I?
> The difficulty is that I can not compile the diagonal elements (the
> smaller matrixes) of the larger matrix. How should I do?
> Thanks!
> Juan Hao
>
```