
Subject: Re: lower and upper triangular matrices

Posted by on Thu, 30 May 2013 10:51:20 GMT

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Den torsdagen den 30:e maj 2013 kl. 12:05:16 UTC+2 skrev fd_...@mail.com:

> On Thursday, 30 May 2013 02:33:48 UTC+1, Craig Markwardt wrote:

>

>> What do you mean? Do you want to factor a matrix, such as with CHOLDC? Or do you just want to extract the upper and lower triangle elements from a matrix?

>

> I need the upper and lower triangle elements from a matrix. I am trying to use the Gauss-Seidel method.

Like this?

```
IDL> n=4
```

```
IDL> a=indgen(n,n)+1
```

```
IDL> ii=indgen(n) # replicate(1,n)
```

```
IDL> jj=indgen(n) ## replicate(1,n)
```

```
IDL> print,a
```

```
  1   2   3   4
  5   6   7   8
  9  10  11  12
 13  14  15  16
```

```
IDL> print,a*(ii lt jj)
```

```
  0   0   0   0
  5   0   0   0
  9  10   0   0
 13  14  15   0
```

```
IDL> print,a*(ii ge jj)
```

```
  1   2   3   4
  0   6   7   8
  0   0  11  12
  0   0   0  16
```