
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
```
