ctpttr.f(3)   LAPACK   ctpttr.f(3)

NAME

ctpttr.f –

SYNOPSIS

Functions/Subroutines

subroutine **ctpttr** (UPLO, N, AP, A, LDA, INFO)

CTPTTR *copies a triangular matrix from the standard packed format (TP) to the standard full format (TR).*

Function/Subroutine Documentation

subroutine ctpttr (characterUPLO, integerN, complex, dimension(*)AP, complex, dimension(lda, *)A, integerLDA, integerINFO)

CTPTTR copies a triangular matrix from the standard packed format (TP) to the standard full format (TR).

Purpose:

CTPTTR copies a triangular matrix A from standard packed format (TP)
to standard full format (TR).

Parameters:

UPLO

UPLO is CHARACTER*1
= 'U': A is upper triangular.
= 'L': A is lower triangular.

N

N is INTEGER
The order of the matrix A. N >= 0.

AP

AP is COMPLEX array, dimension (N*(N+1)/2),
On entry, the upper or lower triangular matrix A, packed
columnwise in a linear array. The j-th column of A is stored
in the array AP as follows:
if UPLO = 'U', AP(i + (j-1)*j/2) = A(i,j) for $1<=i<=j$;
if UPLO = 'L', AP(i + (j-1)*(2n-j)/2) = A(i,j) for $j<=i<=n$.

A

A is COMPLEX array, dimension (LDA, N)
On exit, the triangular matrix A. If UPLO = 'U', the leading
N-by-N upper triangular part of A contains the upper
triangular part of the matrix A, and the strictly lower
triangular part of A is not referenced. If UPLO = 'L', the
leading N-by-N lower triangular part of A contains the lower
triangular part of the matrix A, and the strictly upper
triangular part of A is not referenced.

LDA

LDA is INTEGER
The leading dimension of the array A. LDA >= max(1,N).

INFO

INFO is INTEGER
= 0: successful exit
< 0: if INFO = -i, the i-th argument had an illegal value

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Definition at line 105 of file ctpttr.f.

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