NAME

ctrti2.f −

SYNOPSIS

Functions/Subroutines

subroutine **ctrti2** (UPLO, DIAG, N, A, LDA, INFO)

CTRTI2 *computes the inverse of a triangular matrix (unblocked algorithm).*

Function/Subroutine Documentation

subroutine ctrti2 (characterUPLO, characterDIAG, integerN, complex, dimension(lda, *)A, integerLDA, integerINFO)

CTRTI2 computes the inverse of a triangular matrix (unblocked algorithm).

Purpose:

CTRTI2 computes the inverse of a complex upper or lower triangular matrix.

This is the Level 2 BLAS version of the algorithm.

Parameters:

UPLO

UPLO is CHARACTER*1
Specifies whether the matrix A is upper or lower triangular.
= ’U’: Upper triangular
= ’L’: Lower triangular

DIAG

DIAG is CHARACTER*1
Specifies whether or not the matrix A is unit triangular.
= ’N’: Non-unit triangular
= ’U’: Unit triangular

N

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

A

A is COMPLEX array, dimension (LDA,N)
On entry, the triangular matrix A. If UPLO = ’U’, the leading n by n upper triangular part of the array A contains the upper triangular matrix, and the strictly lower triangular part of A is not referenced. If UPLO = ’L’, the leading n by n lower triangular part of the array A contains the lower triangular matrix, and the strictly upper triangular part of A is not referenced. If DIAG = ’U’, the diagonal elements of A are also not referenced and are assumed to be 1.

On exit, the (triangular) inverse of the original matrix, in the same storage format.

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 = -k, the k-th argument had an illegal value

Author:

Univ. of Tennessee

Univ. of California Berkeley

Univ. of Colorado Denver

NAG Ltd.

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Definition at line 111 of file ctrti2.f.

Author

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