NAME

CFN - CUTEr tool to evaluate function and constraints values.

SYNOPSIS

CALL CFN(N, M, X, F, LC, C)

DESCRIPTION

The CFN subroutine evaluates the value of the objective function and general constraint functions of the problem decoded into OUTSDIF.d at the point X, in the constrained programming case.

ARGUMENTS

The arguments of CFN are as follows

N [in] - integer

the number of variables for the problem,

M [in] - integer

the total number of general constraints,

X [in] - real/double precision

an array which gives the current estimate of the solution of the problem,

- **F** [out] real/double precision the value of the objective function evaluated at X,
- C [out] real/double precision

an array which gives the values of the general constraint functions evaluated at X. The i-th component of C will contain the value of $c_i(x)$,

LC [in] - integer

is the actual declared dimension of C, with LC no smaller than M.

AUTHORS

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SEE ALSO

CUTEr (and SifDec): A Constrained and Unconstrained Testing Environment, revisited, N.I.M. Gould, D. Orban and Ph.L. Toint, ACM TOMS, **29**:4, pp.373-394, 2003.

CUTE: Constrained and Unconstrained Testing Environment, I. Bongartz, A.R. Conn, N.I.M. Gould and Ph.L. Toint, TOMS, **21**:1, pp.123-160, 1995.

ufn(3M).