NAME

CCIFG – CUTEr tool to evaluate a single constraint function value and possibly gradient.

SYNOPSIS

CALL CCIFG(N, ICON, X, CI, GCI, GRAD)

DESCRIPTION

The CCIFG subroutine evaluates the value of a particular constraint function of the problem decoded into OUTSDIF.d at the point X, and possibly its gradient in the constrained minimization case.

ARGUMENTS

The arguments of CCIFG are as follows

N [in] - integer
the number of variables for the problem,

ICON [in] - integer
the index of the constraint function to be evaluated,

X [in] - real/double precision
an array which gives the current estimate of the solution of the problem,

CI [out] - real/double precision
the value of constraint function ICON at X,

GCI [out] - real/double precision
an array which gives the gradient of constraint function ICON evaluated at X,

GRAD [in] - logical
a logical variable which should be set .TRUE. if the gradient of the constraint functions are required and .FALSE. otherwise.

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.