NAME

CUTEST_cscifg – CUTEst tool to evaluate a single constraint function value and possibly gradient in sparse format.

SYNOPSIS

CALL CUTEST_cscifg(data, status, n, icon, X, ci, nnzgci, lgci, GCI_val, GCI_var, grad)

DESCRIPTION

The CUTEST_cscifg subroutine evaluates the value of a particular constraint function of the problem decoded from a SIF file by the script *sifdecode* at the point X, and possibly its gradient. The gradient is stored in sparse format.

The problem under consideration is to minimize or maximize an objective function $f(x)$ over all $x \in R^n$ subject to general equations $c_i(x) = 0$, $(i \in 1, \ldots, m_E)$, general inequalities $c_i^l(x) \le c_i(x) \le c_i^u(x)$, $(i \in m_E + 1, \ldots, m)$, and simple bounds $x^l \le x \le x^{u.}$ The objective function is group-partially separable and all constraint functions are partially separable.

NOTE

This function is obsolete and has been included for compatibility purposes only. Refer to cutest_ccifsg(3M).

AUTHORS

I. Bongartz, A.R. Conn, N.I.M. Gould, D. Orban and Ph.L. Toint

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.

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