

NAME

CUTEST_cscfg – CUTEst tool to evaluate constraint functions values and possibly gradients in sparse format.

SYNOPSIS

CALL CUTEST_cscfg(data, status, n, m, X, C, nnzj, lj, J_val, J_var, J_fun, grad)

DESCRIPTION

The CUTEST_cscfg subroutine evaluates the values of the constraint functions of the problem decoded from a SIF file by the script *sifdecode* at the point X, and possibly their gradients. The gradients are 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 $c_i(x) = 0$, ($i \in 1, \dots, m_E$), general inequalities $c_i^l(x) \leq c_i(x) \leq c_i^u(x)$, ($i \in m_E + 1, \dots, m$), and simple bounds $x^l \leq x \leq x^u$. 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This function is obsolete and has been included for compatibility purposes only.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_ccfsg(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.

sifdecode(1).

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