NAME

CUTEST_cdimen - CUTEst tool to get the number of variables and constraints involved.

SYNOPSIS

CALL CUTEST_cdimen(status, input, n, m)

DESCRIPTION

The CUTEST_cdimen subroutine discovers how many variables and constraints are involved in the problem decoded from a SIF file by the script *sifdecoder*.

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

ARGUMENTS

The arguments of CUTEST_cdimen are as follows

status [out] - integer

the outputr status: 0 for a successful call, 1 for an array allocation/deallocation error, 2 for an array bound error, 3 for an evaluation error,

input [in] - integer

the unit number for the decoded data; the unit from which OUTSDIF.d is read,

n [out] - integer

the number of variables for the problem,

m [out] - integer

the total number of general constraints.

AUTHORS

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

SEE ALSO

CUTEst: a Constrained and Unconstrained Testing Environment with safe threads,

N.I.M. Gould, D. Orban and Ph.L. Toint,

Technical Report, Rutherford Appleton Laboratory, 2013.

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, ACM TOMS, 21:1, pp.123-160, 1995.

cutest_udimen(3M), sifdecoder(1).

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