NAME

CUTEST_cnames - CUTEst tool to obtain the names of the problem and its variables.

SYNOPSIS

CALL CUTEST_cnames(status, n, m, pname, VNAMES, CNAMES)

DESCRIPTION

The CUTEST_cnames subroutine obtains the names of the problem, its variables and general constraints.

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_cnames are as follows

status [out] - integer

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

n [in] - integer

the number of variables for the problem,

m [in] - integer

the total number of general constraints,

pname [out] - character

a 10-character string containing the name of the problem,

VNAMES [out] - character

an array of 10-character strings containing the names of the variables,

CNAMES [out] - character

an array of 10-character strings containing the names of the general constraints.

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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_unames(3M).