#### **NAME**

CUTEST connames – CUTEst tool to obtain the names of the problem constraints.

#### **SYNOPSIS**

CALL CUTEST\_connames( status, m, CNAMES )

# DESCRIPTION

The CUTEST connames subroutine obtains the names of the general constraints of the problem.

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\_connames 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.

m [in] - integer

the total number of general constraints,

**CNAMES** [out] - character

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

# **AUTHORS**

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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), cutest\_cnames(3M), cutest\_varnames(3M), cutest\_probname(3M).