#### **NAME**

CUTEST\_varnames - CUTEst tool to obtain the names of the problem variables.

#### **SYNOPSIS**

CALL CUTEST\_varnames( status, n, VNAME )

# DESCRIPTION

The CUTEST varnames subroutine obtains the names of the problem variables.

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  $c_i^l \le c_i(x) \le c_i^u$ .  $(i \in m_E + 1, ..., m)$ , 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\_varnames 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.

n [in] - integer

the number of variables for the problem,

**VNAME** [out] - character

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

# **AUTHORS**

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#### SEE ALSO

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

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Computational Optimization and Applications 60:3, pp.545-557, 2014.

CUTEr (and SifDec): A Constrained and Unconstrained Testing Environment, revisited,

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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,

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cutest\_unames(3M), cutest\_cnames(3M), cutest\_connames(3M), cutest\_probname(3M).