NAME

CUTEST_varnames – CUTEst tool to obtain the names of the problem variables.

SYNOPSIS

CALL CUTEST_varnames(status, n, VNAME)

For real rather than double precision arguments, instead

CALL CUTEST_varnames_s(...)

and for quadruple precision arguments, when available,

CALL CUTEST_varnames_q(...)

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 $x \in R^n$ subject to general equations $c_i(x) = 0$, $(i \in 1, \ldots, m_E)$, general inequalities $c_i^l \leq c_i(x) \leq c_i^{u,}$ $(i \in m_E + 1, \ldots, m)$, and simple bounds $x^l \leq x \leq x^{u.}$ The objective function is group-partially separable and all constraint functions are partially separable.

ARGUMENTS

The arguments of CUTEST_varnames are as follows

status [out] - integer
the outputr status: 0 for a succesful 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,
N.I.M. Gould, D. Orban and Ph.L. Toint,
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,
ACM TOMS, **21**:1, pp.123-160, 1995.

cutest_unames(3M), cutest_cnames(3M), cutest_connames(3M), cutest_probname(3M).