NAME

CUTEST unames – CUTEst tool to obtain the names of the problem and its variables.

SYNOPSIS

```
CALL CUTEST_unames( status, n, pname, VNAME )

For real rather than double precision arguments, instead

CALL CUTEST_unames_s( ... )
```

and for quadruple precision arguments, when available,

```
CALL CUTEST_unames_q( ... )
```

DESCRIPTION

The CUTEST_unames subroutine obtains the names of the problem and its variables.

The problem under consideration is to minimize or maximize an objective function f(x) over all $x \in \mathbb{R}^n$ subject to the simple bounds $x^l \le x \le x^u$. The objective function is group-partially separable.

ARGUMENTS

The arguments of CUTEST_unames 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,

pname [out] - character

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

VNAME [out] - character

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

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,

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

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.

 $cutest_cnames(3M).$