NAME

CUTEST probname – CUTEst tool to obtain the name of the problem.

SYNOPSIS

```
CALL CUTEST probname( status, pname )
```

For real rather than double precision arguments, instead

```
CALL CUTEST_probname_s( ... )
```

and for quadruple precision arguments, when available,

```
CALL CUTEST_probname_q( ... )
```

DESCRIPTION

The CUTEST probname subroutine obtains the name 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 $c_i^l \le c_i(x) \le c_i^u$, $(i \in m_E + 1, ..., m)$, 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_probname 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,

```
pname [out] - character
```

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

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,

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.

 $cutest_pname(3M), \quad cutest_unames(3M), \quad cutest_cnames(3M), \quad cutest_cnames(3M), \quad cutest_varnames(3M).$