NAME

CUTEST_pname - CUTEst tool to obtain the name of the problem directly from OUTSDIF.d.

SYNOPSIS

CALL CUTEST_pname(status, input, pname)

DESCRIPTION

The CUTEST_pname subroutine obtains the name of the problem directly from the datafile OUTSDIF.d that was created by the script *sifdecoder* when decoding a SIF file.

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_pname are as follows

```
status [out] - integer
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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,

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input [in] - integer
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the unit number for the decoded data; the unit from which OUTSDIF.d is read,

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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,

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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.

 $cutest_probname(3M), sifdecoder(1).$