NAME

CUTEST_udimen - CUTEst tool to get the number of variables involved.

SYNOPSIS

```
\label{eq:call_cut_entropy} CALL\ CUTEST\_udimen(\ status,\ input,\ n\ ) For real rather than double precision arguments, instead
```

and for quadruple precision arguments, when available,

```
CALL CUTEST_udimen_q( ... )
```

CALL CUTEST_udimen_s(...)

DESCRIPTION

The CUTEST_udimen subroutine discovers how many variables are involved in the problem decoded from a SIF file by the script *sifdecoder*.

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_udimen 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,

```
input [in] - integer
```

the unit number for the decoded data; the unit from which OUTSDIF.d is read,

n [out] - integer

the number of variables for the problem,

AUTHORS

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SEE ALSO

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

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I. Bongartz, A.R. Conn, N.I.M. Gould and Ph.L. Toint,

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