

**NAME**

UDIMSH – CUTER tool to determine the number of nonzeros required to store the sparse Hessian matrix in coordinate format.

**SYNOPSIS**

CALL UDIMSH( NNZH )

**DESCRIPTION**

The UDIMSH subroutine determine the number of nonzeros required to store the Hessian matrix of the objective function of the problem decoded into OUTSDIF.d at the point X in the case where the only possible constraints are bound constraints. This Hessian matrix is stored as a sparse matrix in coordinate format.

**ARGUMENTS**

The arguments of UDIMSH are as follows

**NNZH** [out] - integer  
the number of nonzero elements in the matrix.

**AUTHORS**

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**SEE ALSO**

*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, TOMS, **21**:1, pp.123-160, 1995.

cdimsh(3M).