NAME

mminfo - reads the contents of the Matrix Market file ’filename’ and extracts informations on size and storage

CALLING SEQUENCE

[rows, cols, entr, rep, typ, symm] = mminfo(file)

PARAMETERS

file : the name of the Matrix Market file

rows : number of rows of the matrix

cols : number of columns of the matrix

entr : number of nonzero entries stored in the file

rep : representation of the Matrix Market format

-’coordinate’, coordinate sparse storage

-’array’, dense array storage

typ : type of the entries: ’real’, ’complex’, ’integer’, pattern’

symm : gives some informations about the symmetry of the matrix: ’general’, ’symmetric’, ’hermitian’, ’skew-symmetric’

DESCRIPTION

Reads the contents of the Matrix Market file ’file’ and extracts informations on size and storage. For coordinate sparse storage, **entr** refers to the number of nonzero entries stored in the file. The **nnz** command determines the final number of nonzero entries in the matrix after the data extraction. For array sparse storage, **entr** is the product **rows*cols** and represents the final number of nonzero entries in the matrix too.

EXAMPLE

[rows,cols] = mminfo(’test.mtx’)
[rows,cols,entr,rep,typ,symm] = mminfo(’test.mtx’)
The file ’test.mtx’ has been priorly downloaded from the Matrix Market home page.

AUTHOR

Adaptation by Aladin of the corresponding code of Matrix Market set - 14 May 2001.

SEE ALSO

mmread, mmwrite