NAME

mm2gv − Matrix Market-DOT converters

SYNOPSIS

mm2gv [**−cluv?**] [**-o***outfile*] [*file*]

DESCRIPTION

mm2gv converts a sparse matrix of the Matrix Market format to a graph in the GV (formerly DOT) format.

OPTIONS

The following options are supported:

−c This flag causes **mm2gv** to assign colors to the edges. The matrix element is scaled to the range [0,1] depending on where it lies between the minimum and maximum set matrix values. This scaled value is used as the *"wt"* attribute of the corresponding edge. In addition, this scalar value is mapped to an RGB value, which is stored as the edge *"color"*.

−l If set, **mm2gv** attaches a label to the graph indicating the base name of the input file, and the number of nodes and edges.

−u If specified, the graph is assumed to be undirected. By default, the graph generated is directed.

−v This flag causes **mm2gv** to store the matrix values as the *"len"* attribute of the corresponding edge.

−o*outfile*

Prints output to the file *outfile*. If not given, **mm2gv** uses stdout.

OPERANDS

The following operand is supported:

file Name of the file in MatrixMarket format. If no *file* operand is specified, the standard input will be used.

RETURN CODES

Return **0** if there were no problems during conversion; and non-zero if any error occurred.

AUTHORS

Yifan Hu <yifanhu@research.att.com>
Emden R. Gansner <erg@research.att.com>

ADDITIONAL INFO

See http://math.nist.gov/MatrixMarket/ for description of the format and http://www.cise.ufl.edu/research/sparse/matrices/ for a large collection of sparse matrices in this format.