NAME

gc - count graph components

SYNOPSIS

gc [-necCaDUrsv?] [files]

DESCRIPTION

gc is a graph analogue to wc in that it prints to standard output the number of nodes, edges, connected components or clusters contained in the input files. It also prints a total count for all graphs if more than one graph is given.

OPTIONS

The following options are supported:

- **-n** Count nodes.
- **-e** Count edges.
- **-c** Count connected components.
- -C Count clusters. By definition, a cluster is a graph or subgraph whose name begins with "cluster".
- -a Count all. Equivalent to -encC
- **-r** Recursively analyze subgraphs.
- -s Print no output. Only exit value is important.
- **-D** Only analyze directed graphs.
- **-U** Only analyze undirected graphs.
- **-v** Verbose output.
- **-?** Print usage information.

By default, gc returns the number of nodes and edges.

OPERANDS

The following operand is supported:

files Names of files containing 1 or more graphs in dot format. If no *files* operand is specified, the standard input will be used.

EXIT STATUS

The following exit values are returned:

- **0** Successful completion.
- 1 The –U or –E option was used, and a graph of the wrong type was encountered.

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SEE ALSO

wc(1), acyclic(1), gvpr(1), gvcolor(1), ccomps(1), sccmap(1), tred(1), libgraph(3)

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