NAME

    unflatten − adjust directed graphs to improve layout aspect ratio

SYNOPSIS

    unflatten [**−f?**] [**−l***len*] [**−c***len*] [**−o** *outfile*] [files]

DESCRIPTION

    unflatten is a preprocessor to **dot** that is used to improve the aspect ratio of graphs having many leaves or disconnected nodes. The usual layout for such a graph is very wide or tall. **unflatten** creates chains with invisible edges or adjusts the **minlen** on edges to improve layout compaction.

OPTIONS

    The following options are supported:

    −l *len*   The **minlen** of leaf edges is staggered between 1 and *len* (a small integer).

    −f   Applies the **−l** option to fanout nodes whose indegree and outdegree are both 1. This helps with structures such as *a -> {w x y z} -> b*. This option only works if the **−l** flag is set.

    −c *len*   Form disconnected nodes into chains of up to *len* edges.

    −o *outfile*

        causes the output to be written to the specified file; by default, output is written to **stdout**.

    −?   Prints the usage and exits.

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.

AUTHORS

    Stephen C. North <north@research.att.com>
    Emden R. Gansner <erg@research.att.com>

SEE ALSO

    gc(1), dot(1), acyclic(1), gvpr(1), gvcolor(1), ccomps(1), tred(1), libgraph(3)