NAME
sccmap − extract strongly connected components of directed graphs

SYNOPSIS
sccmap [−**dsv**] [−**o***outfile*] [*files*]

DESCRIPTION
sccmap decomposes digraphs into strongly connected components and an auxiliary map of the relationship between components. In this map, each component is collapsed into a node. The resulting graphs are printed to standard out. The number of nodes, edges and strongly connected components are printed to standard error. **sccmap** is a way of partitioning large graphs into more manageable pieces.

OPTIONS
The following options are supported:

−d   Preserve degenerate components of only one node.

−s   Do not print the resulting graphs. Only the statistics are important.

−S   Just print the resulting graphs. No statistics are printed.

−o*output*
         Prints output to the file *output*. If not given, **sccmap** uses stdout.

−v   Generate additional statistics. In particular, **sccmap** prints the number of nodes, edges, connected components, and strongly connected components, followed by the fraction of nodes in a non-trivial strongly connected components, the maximum degree of the graph, and fraction of non-tree edges in the graph.

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.

DIAGNOSTICS
sccmap emits a warning if it encounters an undirected graph, and ignores it.

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