

Spanning USA Report

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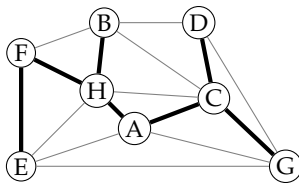
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Results

The following table summarizes our results:

Input file	MST total weight
USA-highway-miles.txt	16598
tinyEWG-alpha.txt	181

The MST we found in tinyEWG-alpha.txt can be drawn like this:



Implementation details

We implemented the algorithm of Prims, using IndexMinPQ. The total running time for implementation is $O(n^3 + \log^2 m)$.¹

¹ Replace as necessary. Use n for the number of vertices, m for the number of edges in the input graph.