

Shortest path in JCL

Important:

Turn on JCL cluster before start this example.

This application was developed in order to provide the shortest route between two destinations. We use a version of Dijkstra algorithm in the solution. The input file consists of several origins and destinations with their respective distances.

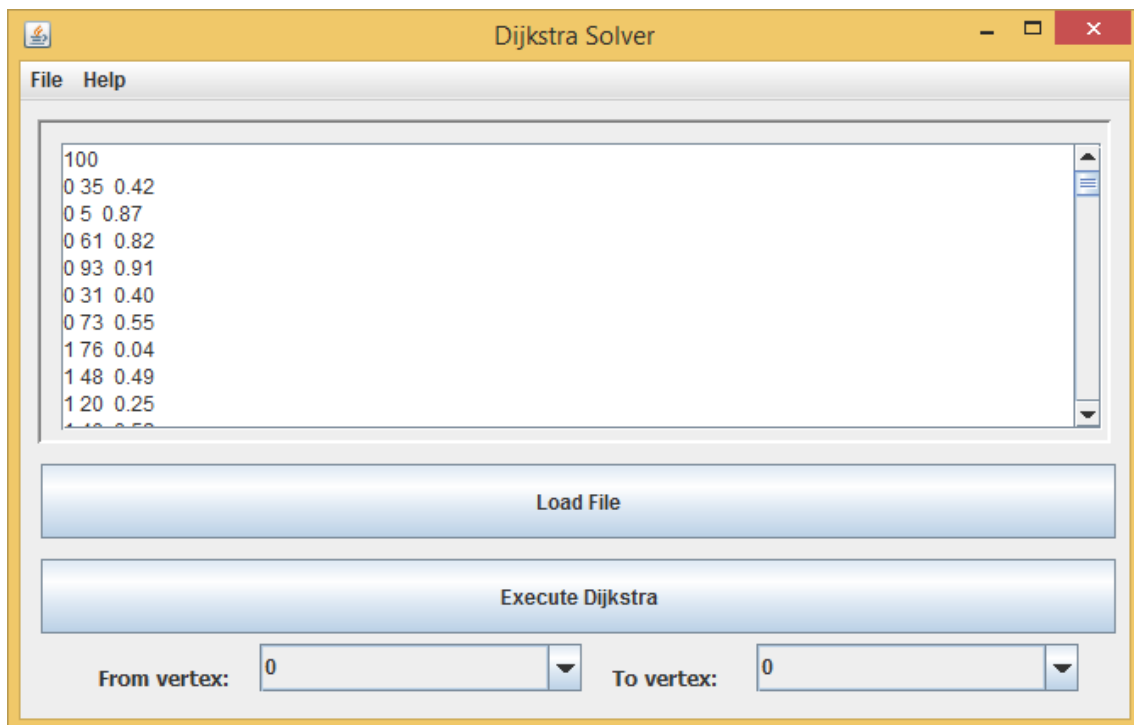


Figure 1. JCL Dijkstra application

To use this example follow the instructions bellow:

1) Load input file and run application

To load a file to be used by the application simply clicks in "Load File" button, chooses the directory where the file is stored and finally loads it in the application.

Sample files can be found in the \ Dijkstra_month_year_jar \ jcl_app

You must select start point in the "From vertex" combo box, and the arrival point in the "vertex To" combo box.

Click in "Run Dijkstra" button to run the application.

Result:

The JCL Dijkstra application will display the shortest path, the points visited between the paths and the runtime, as Figure 3 illustrates.

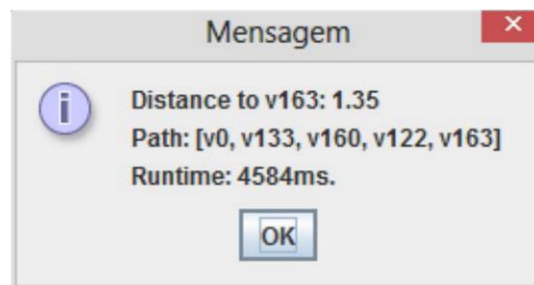


Figure 3. Dijkstra result