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Program: main.cpp, ARserver.cpp, ARBGP.cpp, IPCE.cpp, CallGenerator.cpp, intradijkstra.cpp, randgen.c

**Input:**

Inputdata folder: this directory contains sub-directories for each of the ASes simulated. In each of the sub-directory, there are topology file, ARBGP parameter file and MED value file.

Common folder: this directory contains common parameter file (needed by call generator), src\_destination\_probability\_matrix (also needed by call generator) nodenum file may not still be needed (I’ll double check).

**Output:**

The output of this program can be varied based on the goal of simulation. Data structures like reservation window, and RIB can be printed using built in output function. Also some important parameters like CBP (call blocking probability) can be output.

**How to run the program:**

The program can be run on local machine by simply executing the executable. However, for large scale simulation, a multi task shell script is needed to fire multiple job at the same time on a cluster. Make sure that the input files are in the same directory as the executable.

**Limitations, known bugs and possible improvements:**

Limitations: EPCE module is still under implementation.

Known bugs: Under my current test, I have not observed time range other than the whole reservation window. Two possible reasons may be: 1) no such kind of NLRI is generated under the settings of my test cases; 2) program bugs. Should create more test cases and inspect the ‘ARBGP::sendUpdate’ function.

Possible improvements:

The generation of ARBGP message is very time consuming at this point. Possible solutions are: 1) implement new data structures for advance reservation windows; 2) improvement the method of creating ARBGP update messages.