Eddie Richter

Diego Jimenez

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**Introduction**

In our implementation of the Distributed Coordination Function (DCF) of 802.11 simulation we developed all the functionality in a python script. This allowed us to use object-oriented programming and 3rd party graphing modules to easily create and test our simulation. Both members communicated how the problem would be solved and worked on all parts together. However, for book keeping purposes, a binary work distribution is given below:

Eddie:

* Created initial framework, including class structure and organization.
* Developed first simulation where just one packet could be sent. Used to test the various timing functionalities (DIFS, SIFS, data, etc.)
* Implemented statistic functionality such as counting the number of collisions, fairness index (FI), and throughput of the nodes with varying rates.
* Implemented graphing functionality within the script.

Diego

* Implemented Poisson distribution.
* Implemented collision functionality.
* Implemented debug print statements so we could create synthetic scenarios and see how the system reacted.

**Description**

**Graphs**