# pyJMT docs

James Stadler

July 2023

Table 1: Supported features (everything in full is covered by tests)
https://www.overleaf.com/project/64b119a4f7f51dd5cdb1c8e6

| JMT Feature | Support | Notes |
|---|---|---|
| Distributions | Full | Deterministic, Exponential, Erlang, Gamma, Hyperexponential, Coxian, Logistic, Normal, Pareto, Uniform, Replayer, Weibull |
| Classes | Full | Open class, Closed class, Class priorities |
| Metrics | Full | Number of customers, Residence Time, Throughput, Response Time, Throughput per sink, Utilization, Arrival Rate, Drop rate, Response time per sink, Power |
| Nodes | Full | Source, Sink, Delay, Queue, Router, ClassSwitch |
| Routing | Full | Random, Round Robin, Join the Shortest Queue, Shortest Response Time, Least Utilization, Fastest Service time, Disabled, Probabilities |
| Scheduling | Full | FCFS, FCFS-PR, LCFS, LCFS-PR, SIRO (Random), SJF, SEPT, LJF, LEPT, PS, DPS, GPS, LPS, SRPT, HOL |
| Routing | Partial | Class Switch Routing |
| Nodes | Partial | Logger, Finite Capacity Region |
| Distributions | No | Phase-Type, Burst (MAP), Burst (MMPP2), Burst (General), Disabled |
| Nodes | No | Scaler, Zero Service Time, Semaphore, Place, Transition |
| Routing | No | Load Dependent |
| Scheduling | No | Polling |
| Mechanisms | No | Load Dependence, Retrial, Impatience, Setup times |