

# Flow Queue PIE: A Hybrid Packet Scheduler and Active Queue Management Algorithm

draft-tahiliani-tsvwg-fq-pie-00

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# FQ-PIE in a nutshell

- Combines “flow queuing” and PIE algorithm
  - Similar to how FQ-CoDel combines FQ and CoDel
- The functioning of FQ is similar to RFC 8290
  - Incoming packets are hashed into buckets, each having its own queue
  - Packets are dequeued using a DRR-based packet scheduler
- The functioning of PIE is similar to RFC 8033 with minor modifications
  - Uses timestamps to calculate queue delay
- Implementations of FQ-PIE
  - Mainline Linux kernel. Supported by several Linux distributions
  - network simulator - 3 (ns-3)
- Your feedback is very valuable!
  - <https://github.com/mohittahiliani/draft-tahiliani-tsvwg-fq-pie>