A Request for Information About the Deployment of RED

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URL: http://www.aciri.org/floyd/red/
What is RED?

- RED (Random Early Detection) [FJ93] is a form of Active Queue Management (AQM).

- Active Queue Management:
  - Monitors the average queue size.
  - Drops packets before buffer overflow, as an indication of congestion to end nodes.
Why use Active Queue Management?

- To reduce persistent queueing delay.
- To reduce unnecessary packet drops, in some cases.
- As a precondition for Explicit Congestion Notification (ECN) [RFC 2481].
What about deployment?

- As far as I know, there is not much deployment:
  - Curtis Villamizar’s report from 1994 [V94].
  - Sean Doran’s data from 1998 [D98].
  - Various informal, private reports.

- There are many research papers, both pro and con, as well as other proposals for AQM [RED].
Request of NANOG members:

- Reports of difficulties, or success, in the deployment of RED?
- Reasons for not deploying active queue management?
- Reports of interest, or lack of interest, in ECN?
Tests of queue management in the Internet?

- Tests for persistent queueing delay along a path?
- Tests for bursty packet drops for a flow?
  (These are unnecessary packet drops.)
Contacts:

- Sally Floyd at "floyd@aciri.org".
  (Responses can be somewhat slow.)

- The mailing list for issues related to the deployment of RED, listed at [RED].

- The RED Web Page [RED],
  "http://www.aciri.org/floyd/red/".
References


More References