

# draft-ietf-tcpm-newcwv-06

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# Status of Internet draft

- Several changes to the draft -06 after review:
  - Terminology clarified (data-limited concept)
  - Specified what is in-scope and out-of-scope
  - new-CWV is more conservative than standard TCP in reducing cwnd after loss
  - Clarified differences between PipeACK and FlightSize
- No changes to the method
- WG Chairs changed intended status to “Experimental “ pending experience with deployed implementations

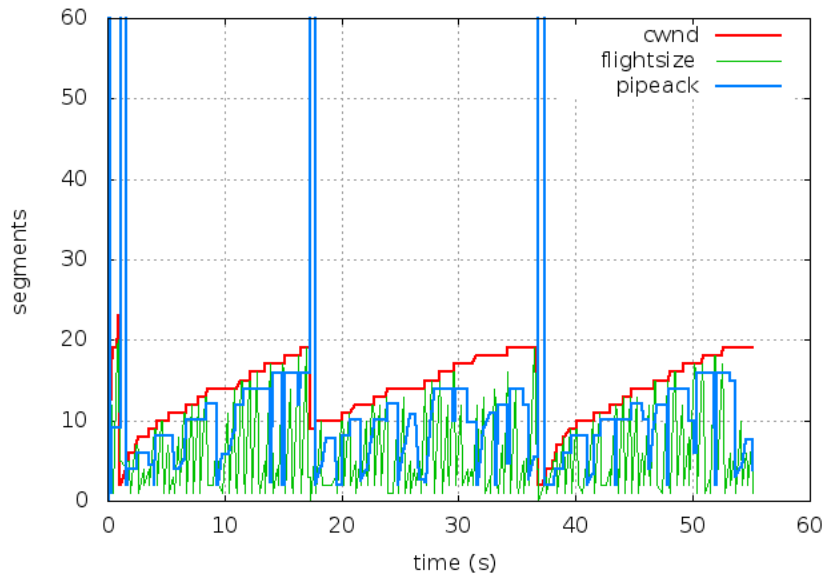
# Status of NewCWV implementation

- New Linux kernel patch (R Secchi)
  - Linux kernel 3.14
  - Interoperable with other CC schemes
  - Fixes cases when congestion is local
- Patch for Free BSD under review (T Jones)
  - Patch freedbsd-net (30/6/2014)
  - Bug 191520

# Example experiments with data-limited flow: 427 kb/s VBR Flow The flow is **NOT** paced

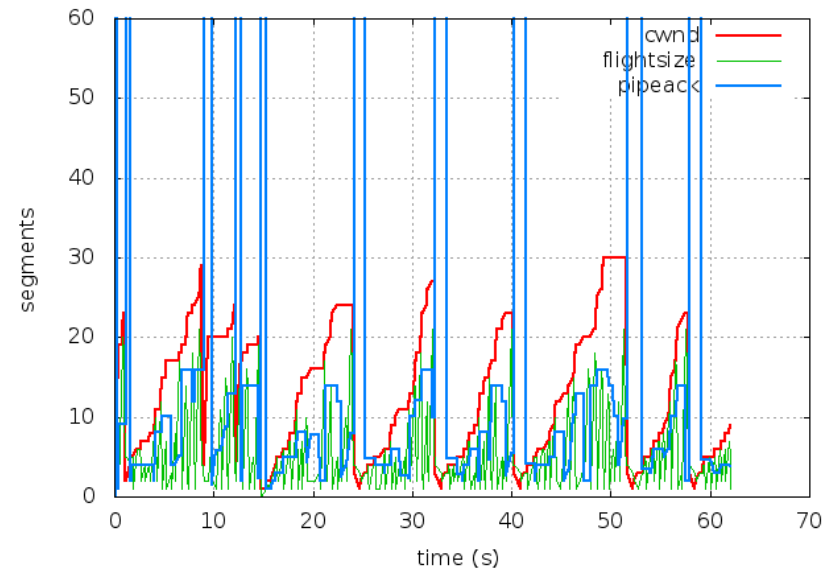
## TCP Reno

graphs/datalim\_bttm\_reno.tr



## TCP Cubic

graphs/datalim\_bttm\_cubic.tr



### Path characteristics:

Bottleneck capacity = 1 Mb/s

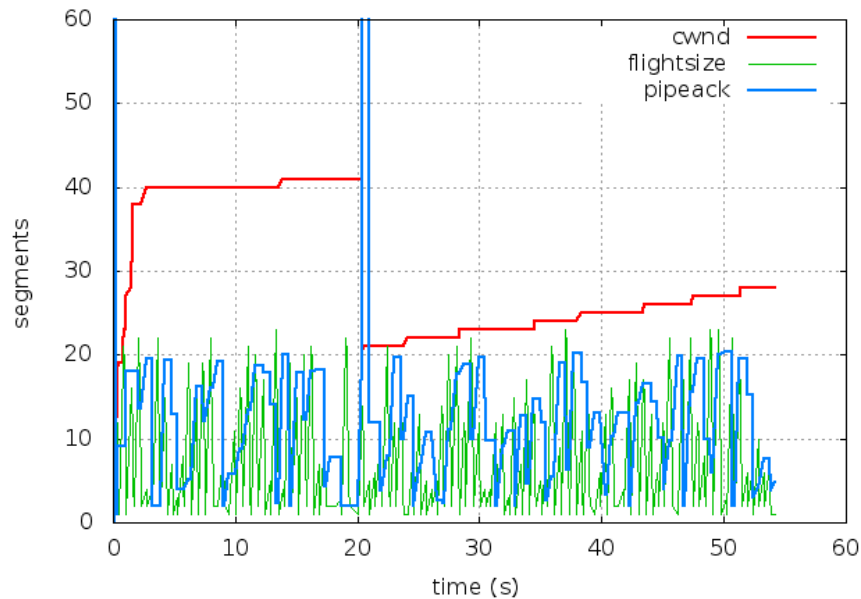
Bottleneck buffer latency = 200ms (18 MSSs)

Round-trip propagation delay = 100ms

# Example experiments with data-limited flow: 427 kb/s VBR Flow The flow is paced: Linux FQ scheduler

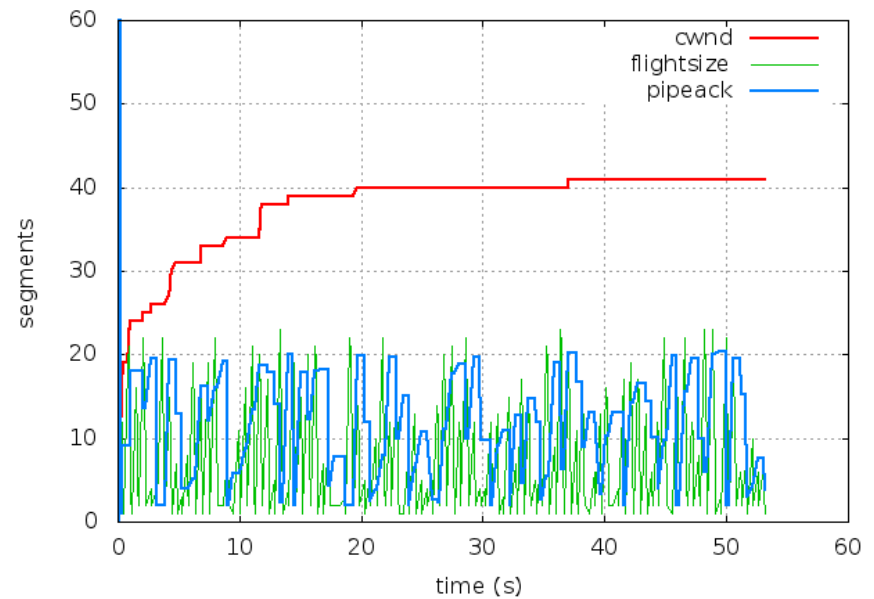
## TCP Reno

graphs/fq\_datalim\_bttm\_reno.tr



## TCP Cubic

graphs/fq\_datalim\_bttm\_cubic.tr



Path characteristics:

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# Current Plans

- Using new-cwv in our labs
- Feedback on implementations welcome
- Comments on draft welcome