Revisions to RFC2001

Sally Floyd

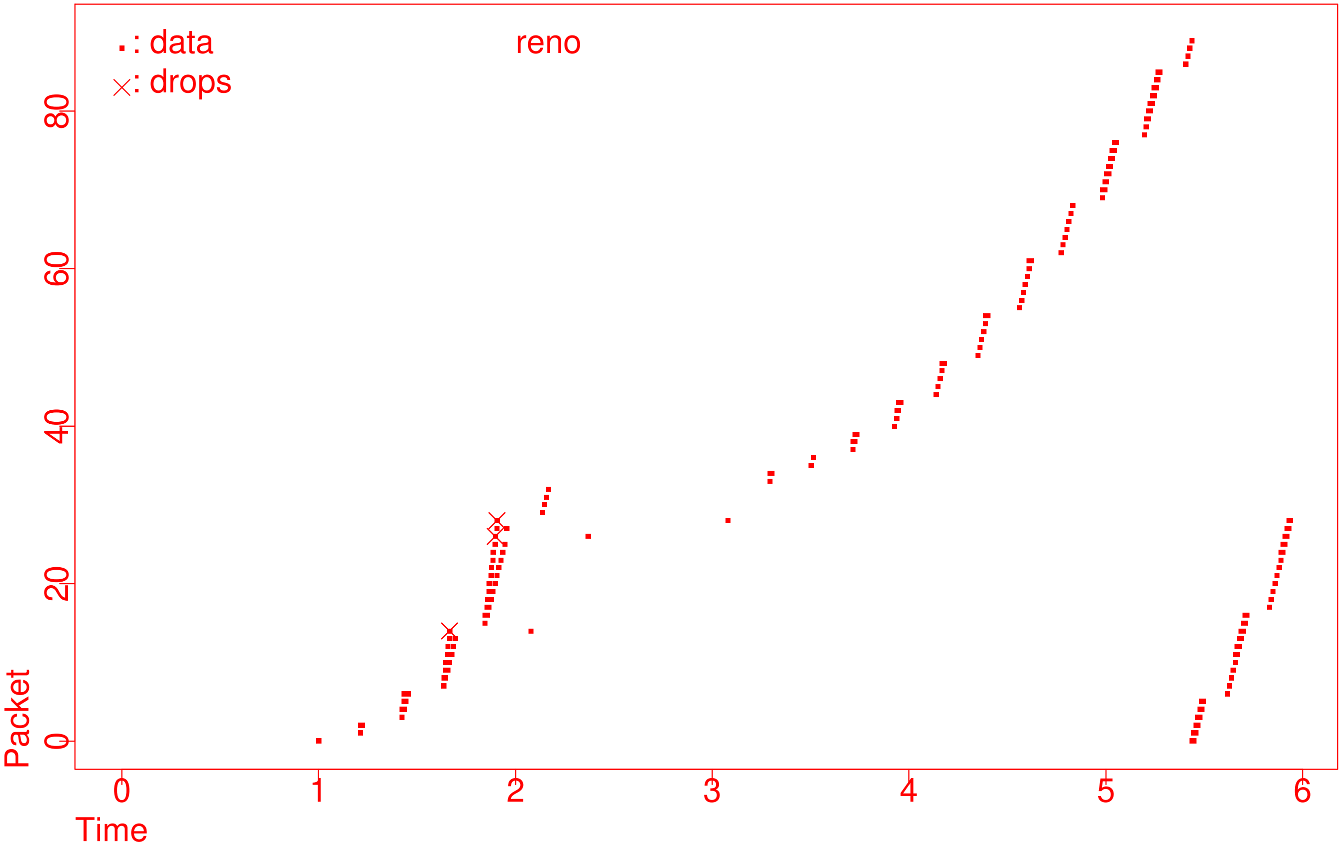
TCPIMPL Working Group,
Chicago IETF, August 1998

References for NewReno:

Hoe, J., ”Improving the Start-up Behavior of a Congestion Control Scheme for TCP”, SIGCOMM 96, August 1996.

Fall, K. and Floyd, S., ”Simulation-based Comparisons of Tahoe, Reno, and Sack TCP”, CCR, July 1996.
URL ”http://www-nrg.ee.lbl.gov/nrg-papers.html”.

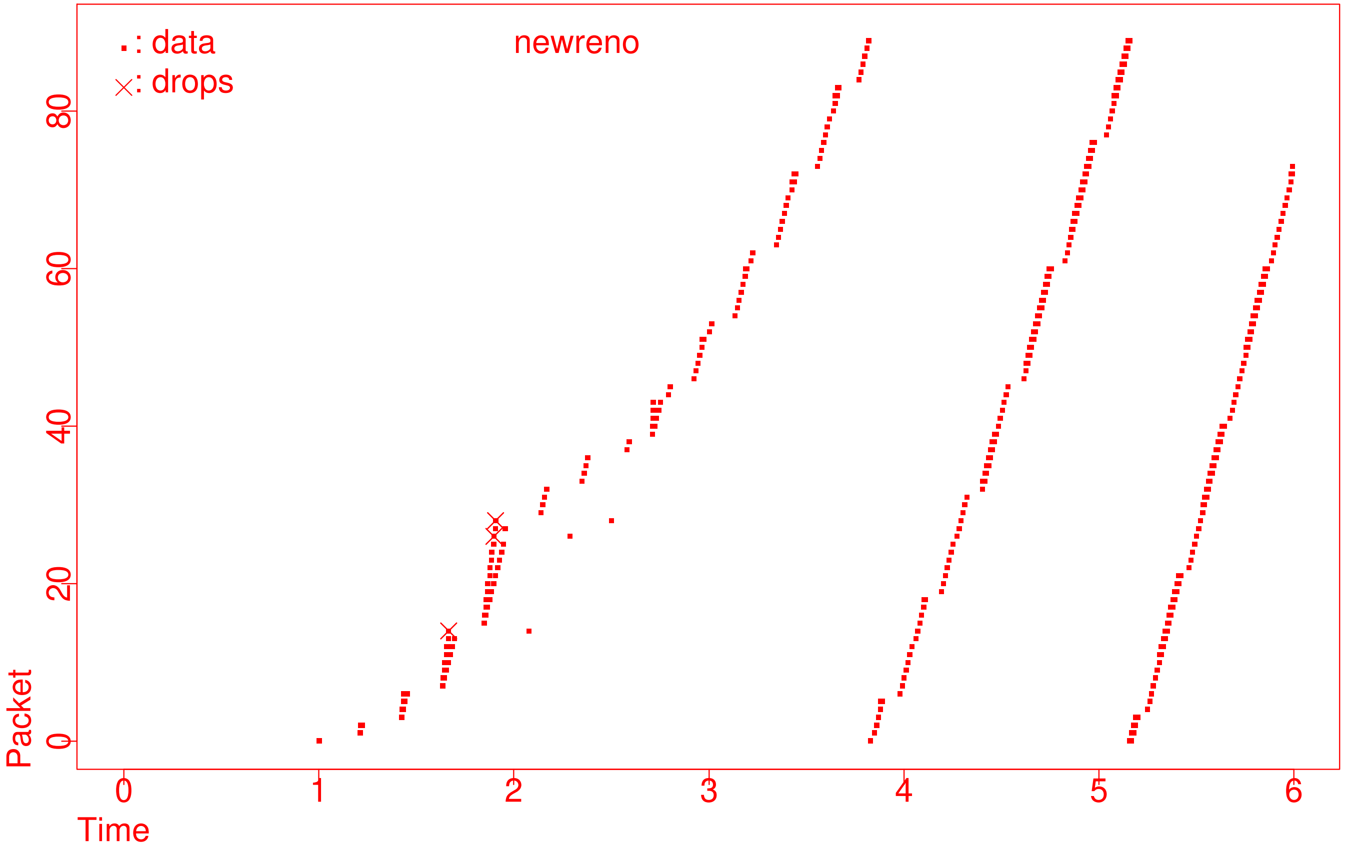
Reno: Unnecessary retransmit timeout:



Reno congestion control, unnecessary retransmit timeout.

In ns-2, in tcl/test:
ns test-suite-rfc2001.tcl reno

NewReno: No unnecessary retransmit timeout:



NewReno congestion control - no unnecessary retransmit timeout.

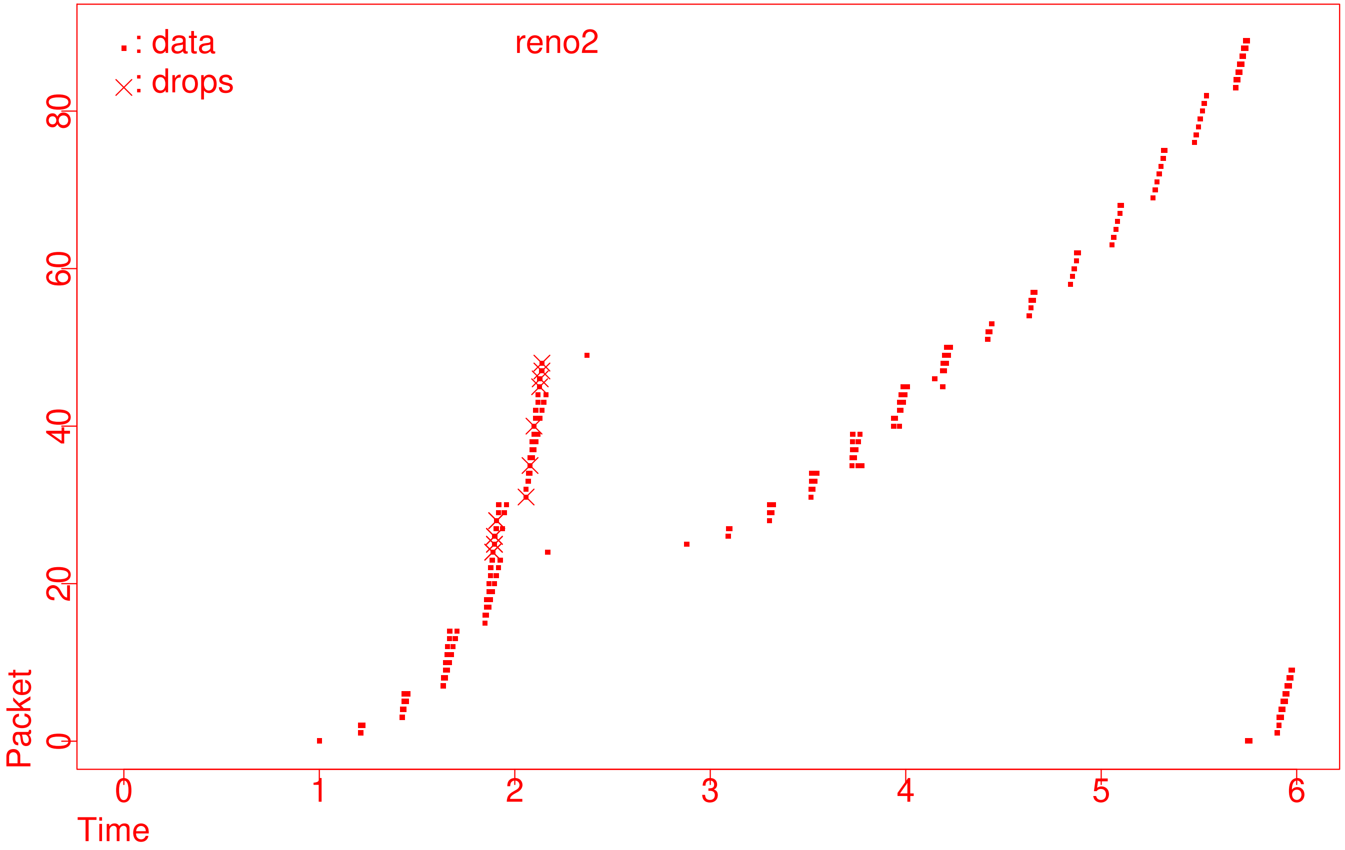
In ns-2, in tcl/test:

ns test-suite-rfc2001.tcl newreno

References for avoiding multiple fast retransmits:

Floyd, S., ”TCP and Successive Fast Retransmits”. Technical report, October 1994.
Available from ”http://www-nrg.ee.lbl.gov/floyd/notes.html”.

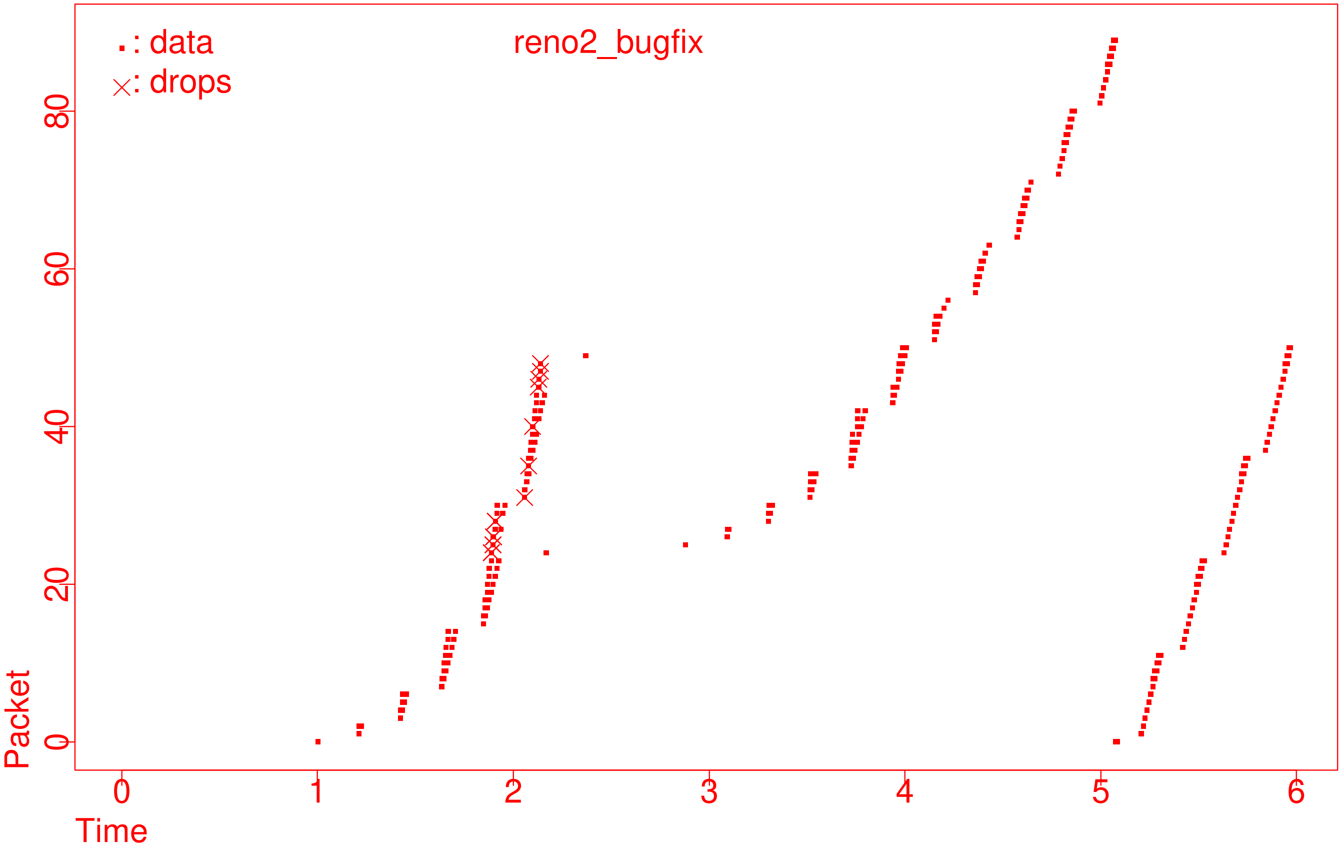
Reno, with unnecessary multiple fast retransmits.



Reno congestion control. Unnecessary multiple fast retransmits.

In ns-2, in tcl/test:
ns test-suite-rfc2001.tcl reno2

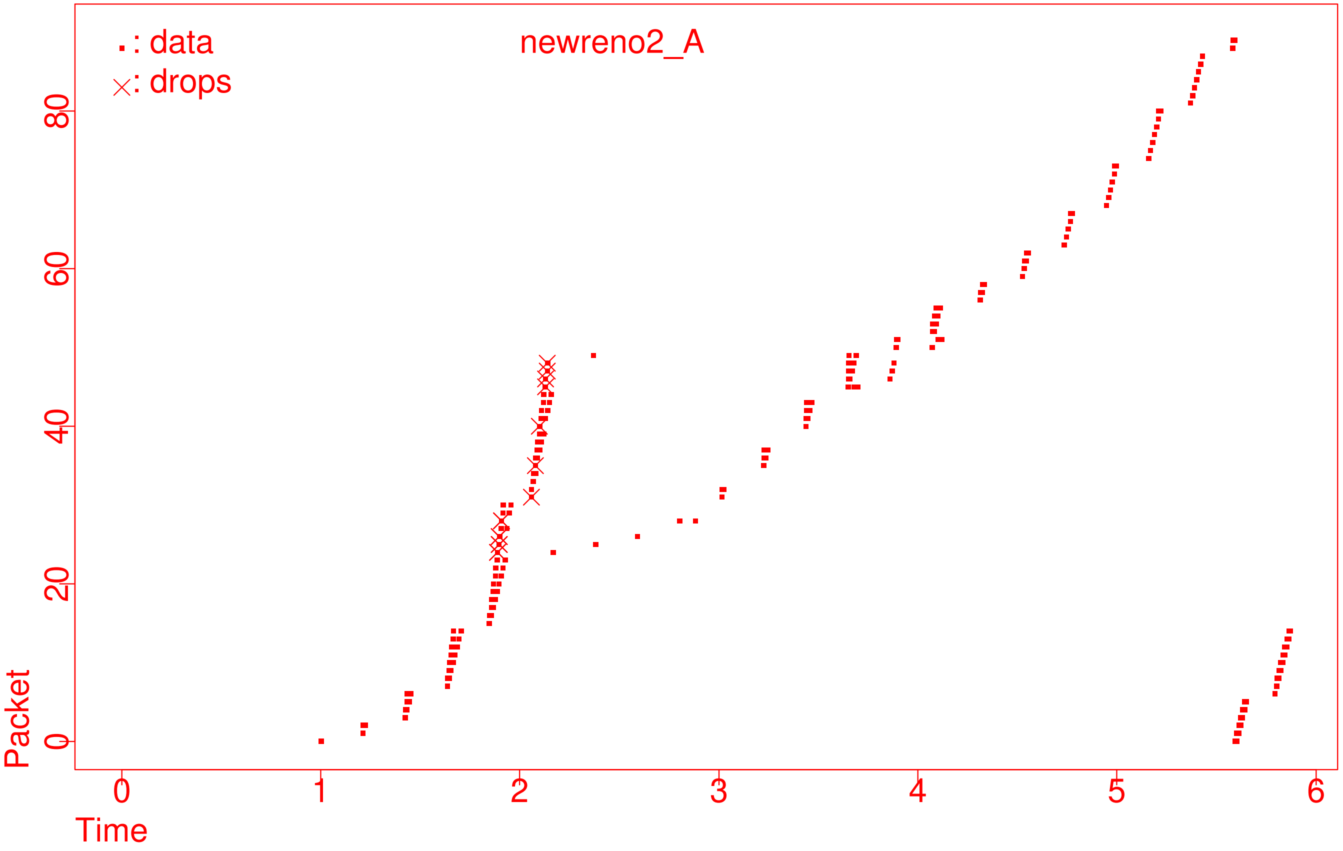
Reno, with bugfix for unnecessary multiple fast retransmits.



In ns-2, in tcl/test:

ns test-suite-rfc2001.tcl reno2_bugfix

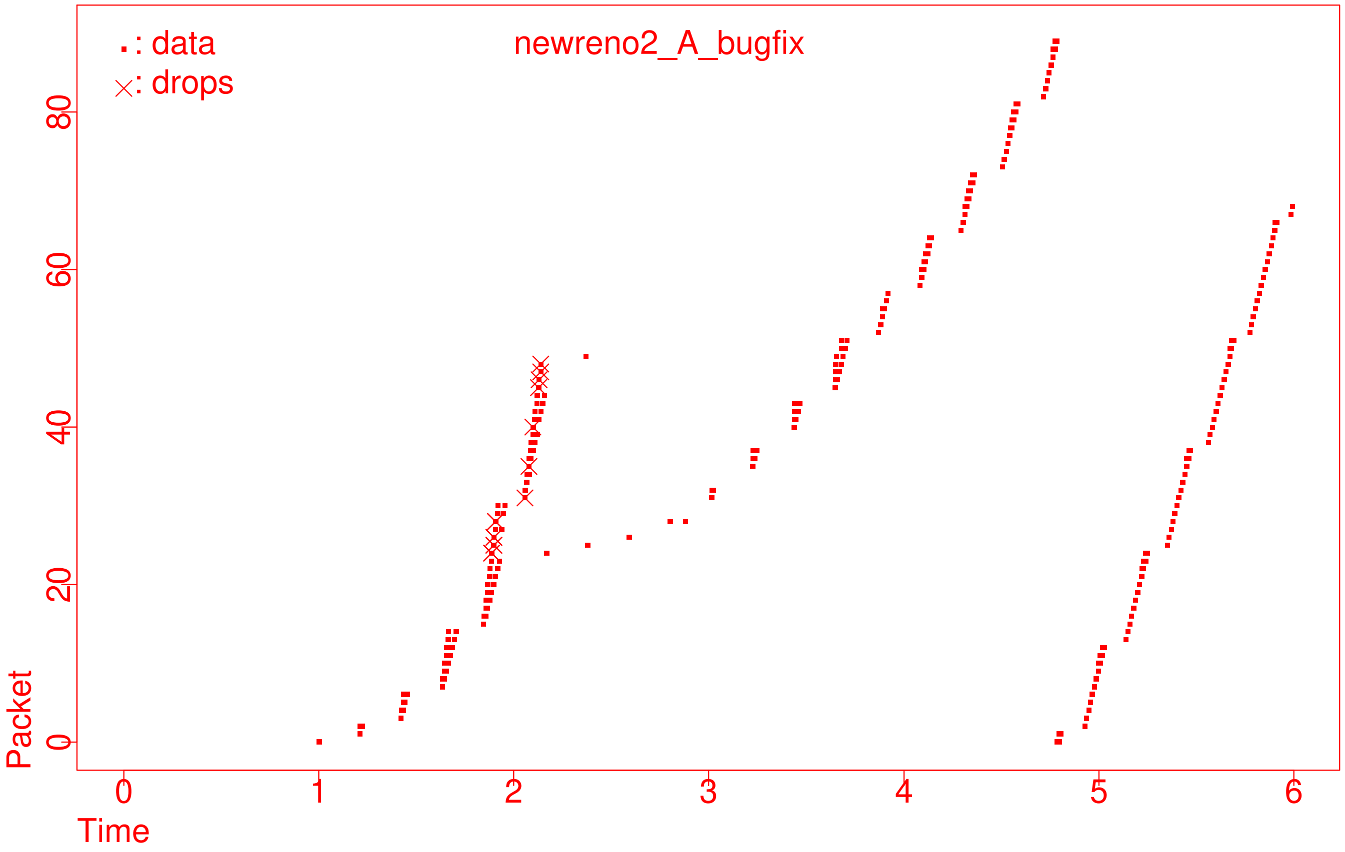
NewReno Version A, with unnecessary multiple fast retransmits.



In ns-2, in tcl/test:

ns test-suite-rfc2001.tcl newreno2_A

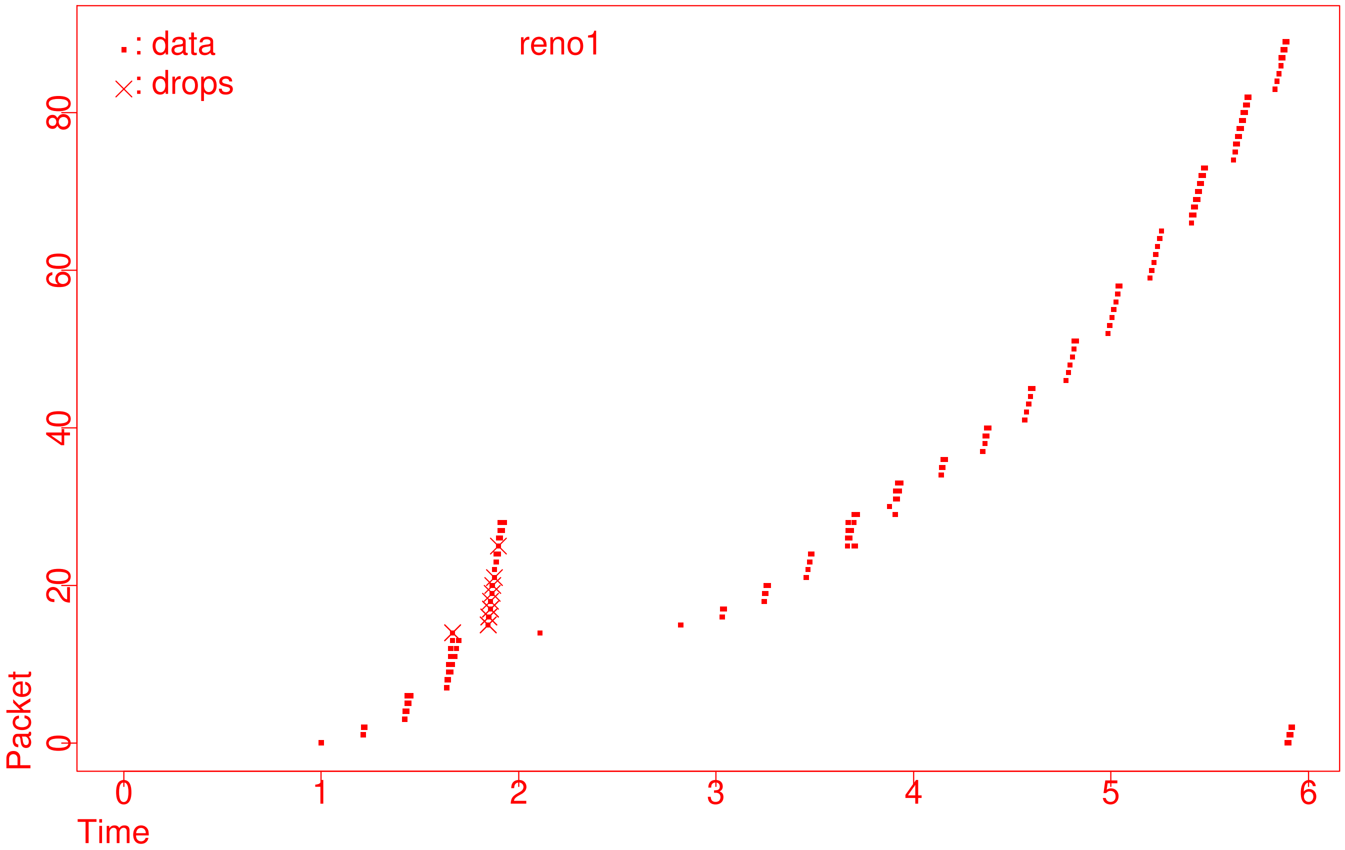
NewReno, with bugfix for unnecessary multiple fast retransmits.



In ns-2, in tcl/test:

ns test-suite-rfc2001.tcl newreno2_A_bugfix

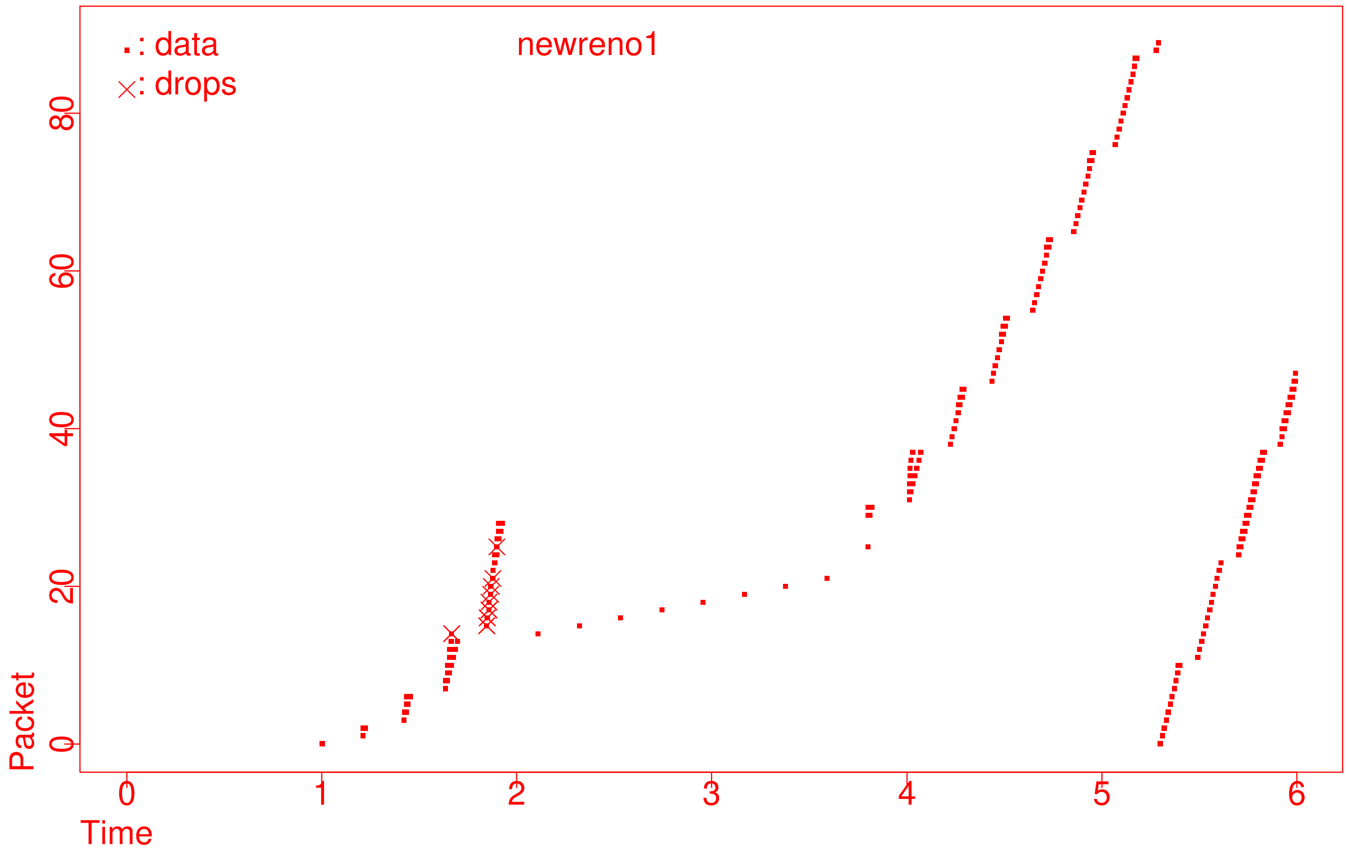
Reno: Unnecessary retransmit timeout, and unnecessary fast retransmit:



In ns-2, in tcl/test:

ns test-suite-rfc2001.tcl reno1

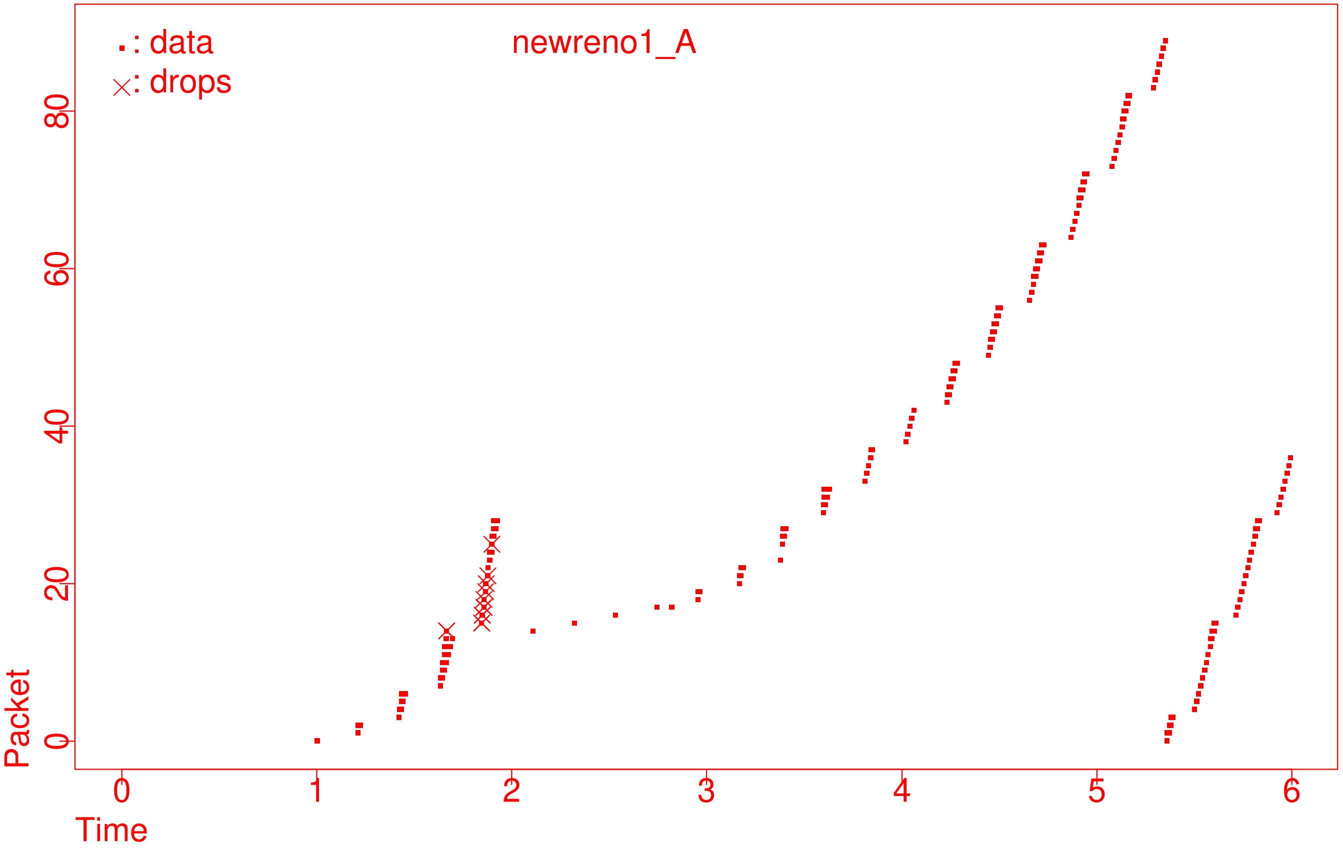
NewReno:



NewReno congestion control.

In ns-2, in tcl/test:
ns test-suite-rfc2001.tcl newreno1

NewReno, version A:



NewReno congestion control. Version A.

In ns-2, in tcl/test:
ns test-suite-rfc2001.tcl newreno1_A