Rocky Enterprise Linux 9.2 Manual Pages on command 'tc-choke.8'

$ man tc-choke.8

TC(8)   Linux   TC(8)

NAME

   choke - choose and keep scheduler

SYNOPSIS

   tc qdisc ... choke limit packets min packets max packets avpkt bytes burst packets [ecn]

   [bandwidth rate] probability chance

DESCRIPTION

   CHOKe (CHOose and Keep for responsive flows, CHOose and Kill for unresponsive flows) is a

   classless qdisc designed to both identify and penalize flows that monopolize the queue.

   CHOKe is a variation of RED, and the configuration is similar to RED.

ALGORITHM

   Once the queue hits a certain average length, a random packet is drawn from the queue. If

   both the to-be-queued and the drawn packet belong to the same flow, both packets are

   dropped. Otherwise, if the queue length is still below the maximum length, the new packet

   has a configurable chance of being marked (which may mean dropped). If the queue length

   exceeds max, the new packet will always be marked (or dropped). If the queue length ex?

   ceeds limit, the new packet is always dropped.

   The marking probability computation is the same as used by the RED qdisc.

PARAMETERS

The parameters are the same as for RED, except that RED uses bytes whereas choke counts packets. See tc-red(8) for a description.

SOURCE

o   R. Pan, B. Prabhakar, and K. Psounis, "CHOKe, A Stateless Active Queue Management Scheme for Approximating Fair Bandwidth Allocation", IEEE INFOCOM, 2000.

o   A. Tang, J. Wang, S. Low, "Understanding CHOKe: Throughput and Spatial Characteris? tics", IEEE/ACM Transactions on Networking, 2004

SEE ALSO

tc(8), tc-red(8)

AUTHOR

sched_choke was contributed by Stephen Hemminger.

iproute2   August 2011   TC(8)