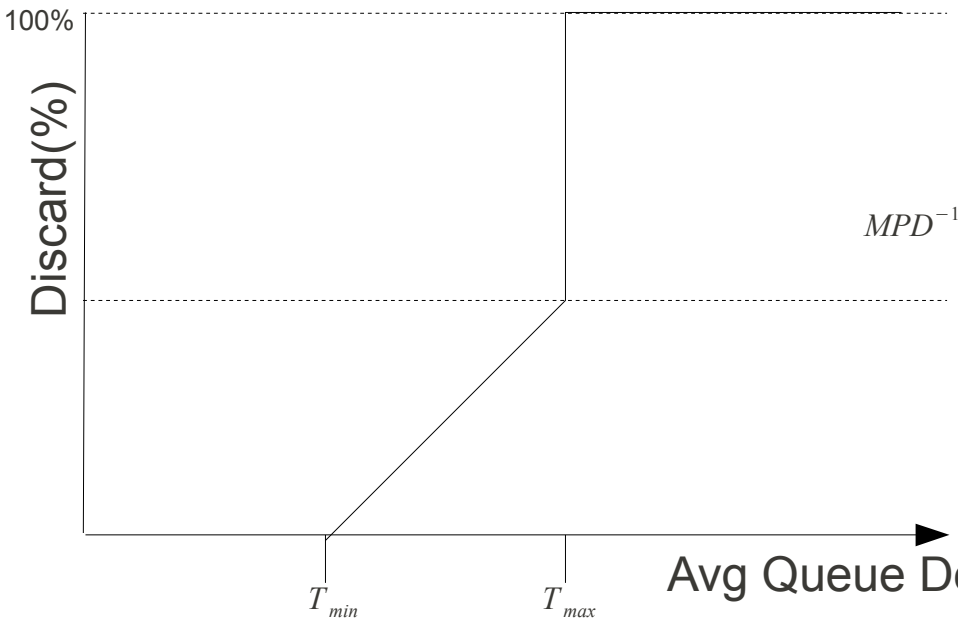
Random Early Detection

x *Average Queue Depth*
P_{nr} *Package Nr*
d_{cur} *current Droprate* x^{-1} *percent*



Drop Condition

$$(P_{nr} \bmod d_{cur} = 0 \wedge x_t > T_{min}) \vee x_t > T_{max}$$

$$d_{cur} = \frac{MPD}{T_{max} - T_{min}} \times (x_t - T_{min})$$

$$x_t = x_{t-1} \times (1 - 2^{-n}) + x_{eff} \times 2^{-n}$$

$$x_t = x_{t-1} - \frac{x_{t-1}}{2^n} + \frac{x_{eff}}{2^n}$$