Jacobson/Karels Algorithm

Estimated_RTT = (1-α) Estimated RTT + (α) Sample_RTT

In the original TCP Specification, α=.0125

Jacobson/Karels included a variation component to the calculation for the Estimated_RTT

Estimated_RTT = Estimated_RTT + δ (Sample_RTT-Estimated_RTT)

Deviation = Deviation + δ (|Sample_RTT- Estimated_RTT|- Deviation)

Timeout = μ * Estimated_RTT + ϕ * Deviation

Typically ϕ=4, μ = 1, δ is between 0 and 1