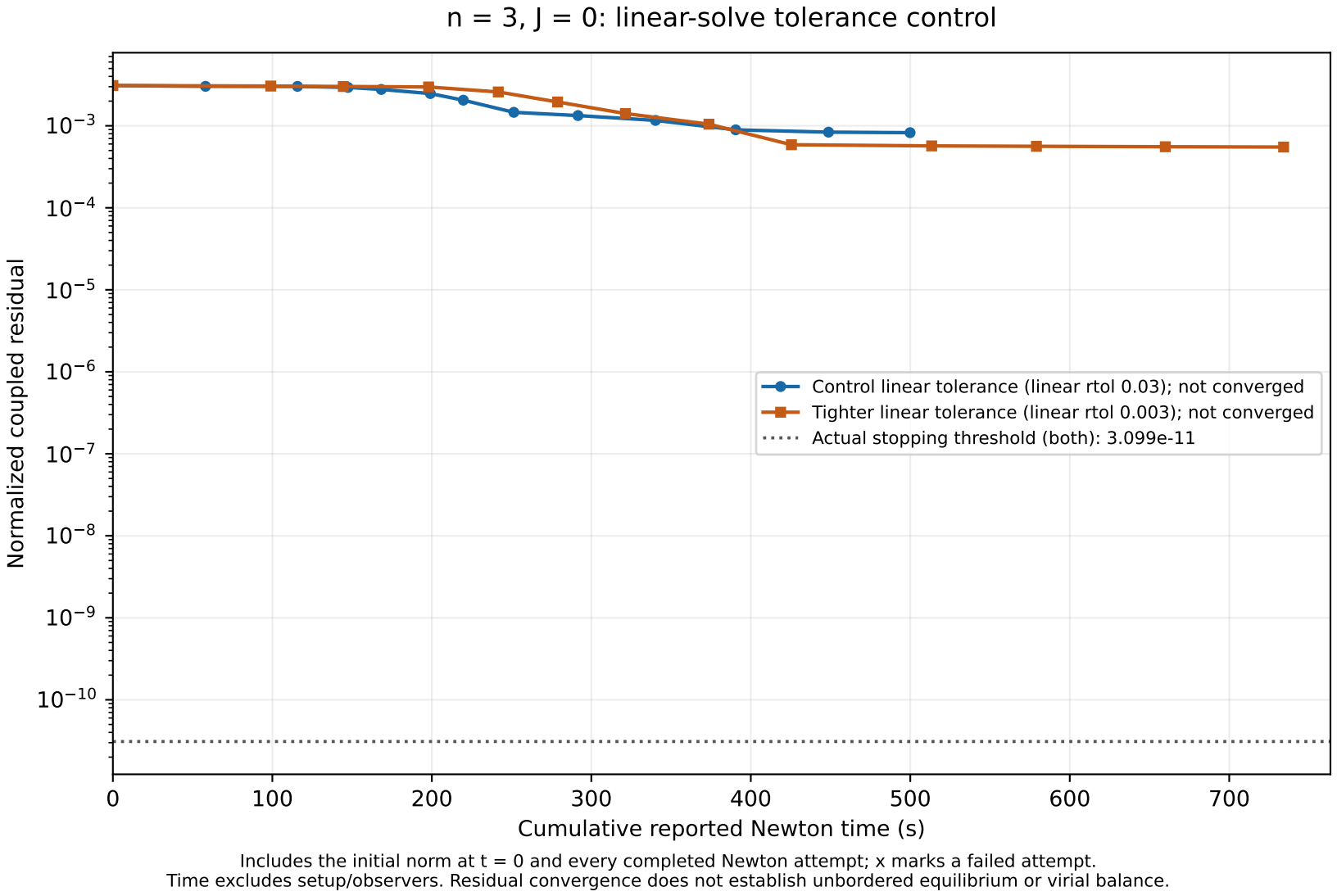

n = 3, J = 0: linear-solve tolerance control
Normalized coupled residual
10^{-3}
10^{-4}
10^{-5}
10^{-6}
10^{-7}
10^{-8}
10^{-9}
10^{-10}
0
100
200
300
400
500
600
700
Cumulative reported Newton time (s)
Control linear tolerance (linear rtol 0.03); not converged
Tighter linear tolerance (linear rtol 0.003); not converged
Actual stopping threshold (both): 3.099e-11
Includes the initial norm at t = 0 and every completed Newton attempt; x marks a failed attempt.
Time excludes setup/observers. Residual convergence does not establish unbordered equilibrium or virial balance.