

14ms 3 Phase Fault using NE 39 Bus, 10 Machine Benchmark System

System and event

Summary

table stuff

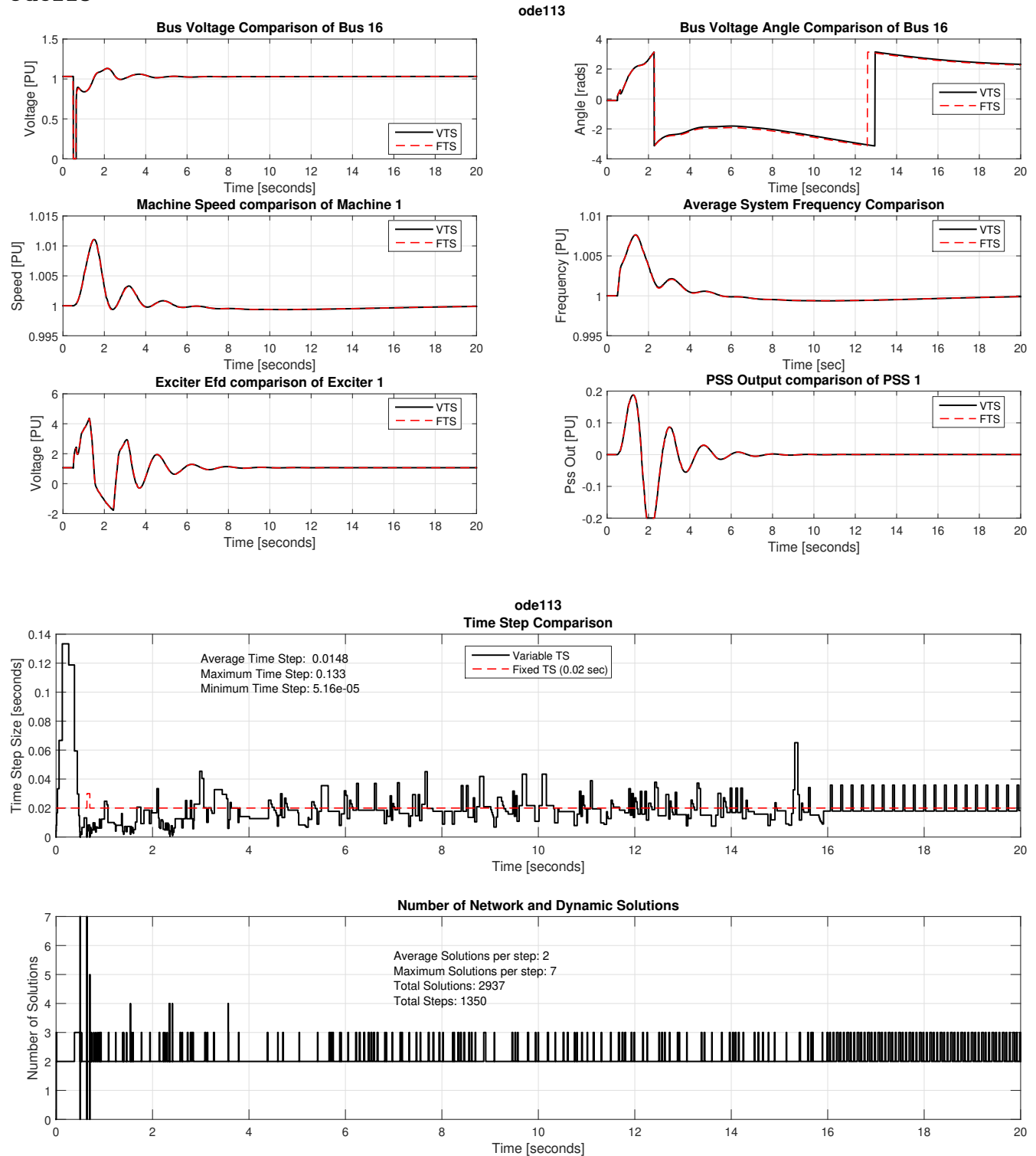
Method	Number of Steps	Max Step Post Disturbance [ms]	SS Error Magnitude	Octave compatible
Fixed	14,401	≈ 4	-	*
ODE45	2,426	30	10^{-4}	*
ODE23	803	75	10^{-4}	*
ODE113	1,298	75	10^{-4}	
ODE15s	71	20,000	10^{-8}	*
ODE23s	45	20,000	10^{-9}	
ODE23t	72	$\approx 17,000$	10^{-9}	
ODE23tb	49	20,000	10^{-8}	

Observations of Note

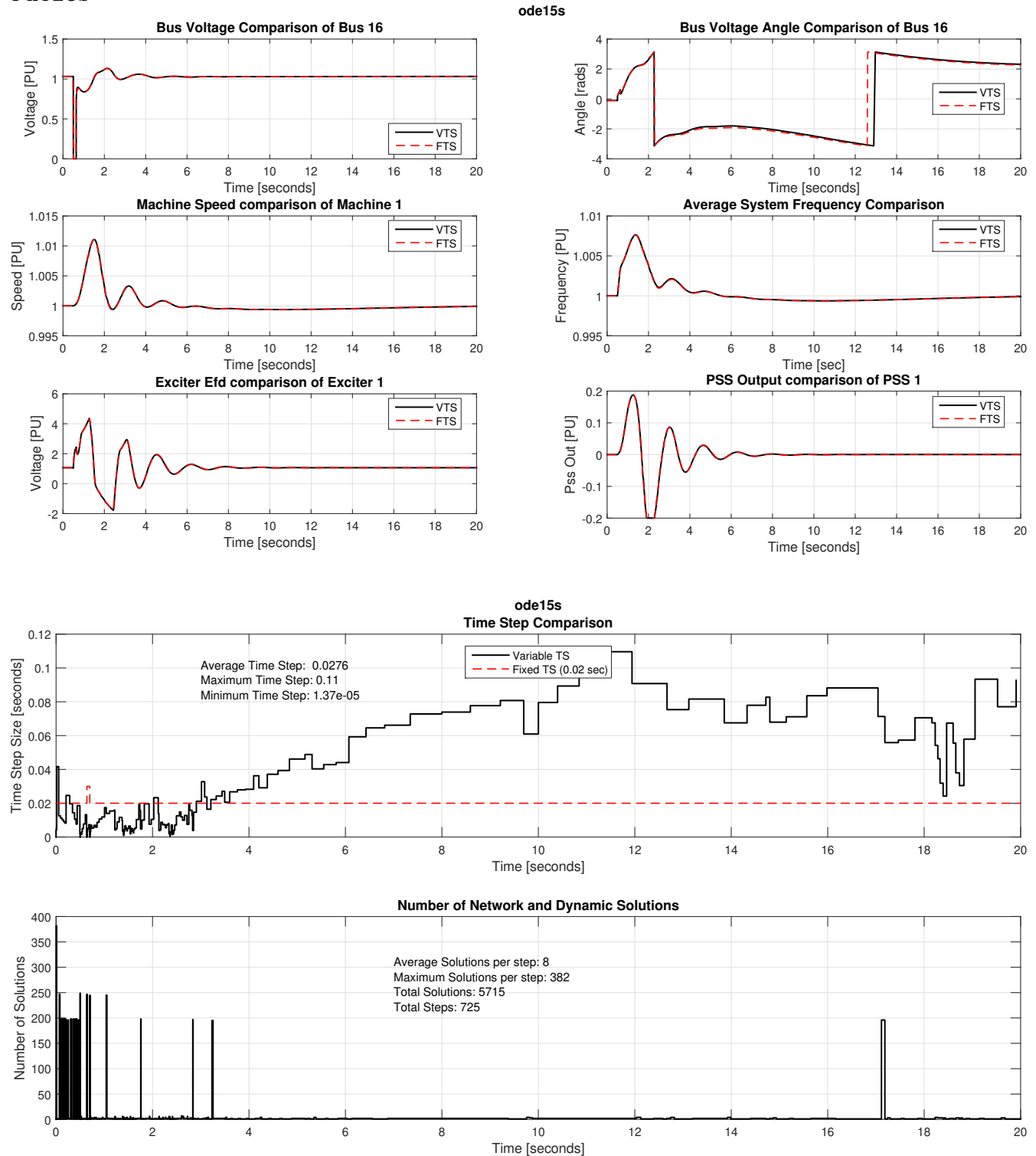
1. ODE45 not compatible - returns 4 solutions per integration step.
2. ODE 23s requires 200 solutions per step (not useful)

ejhda

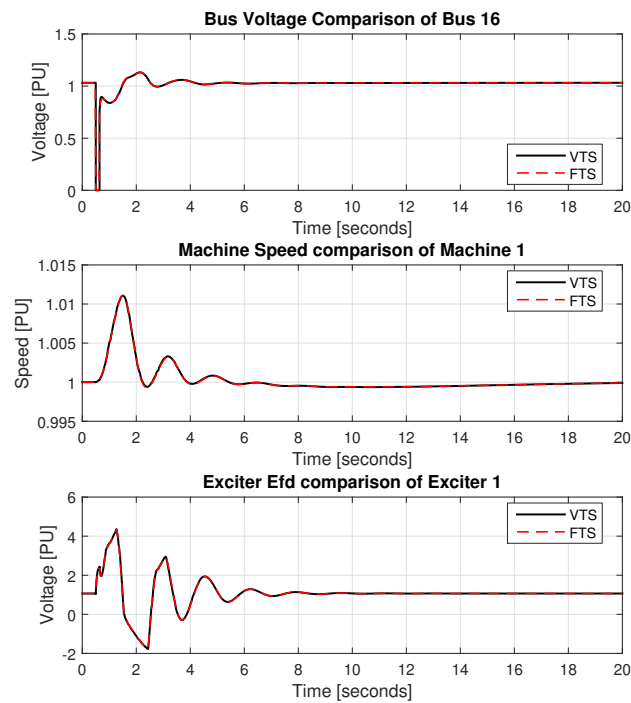
ode113



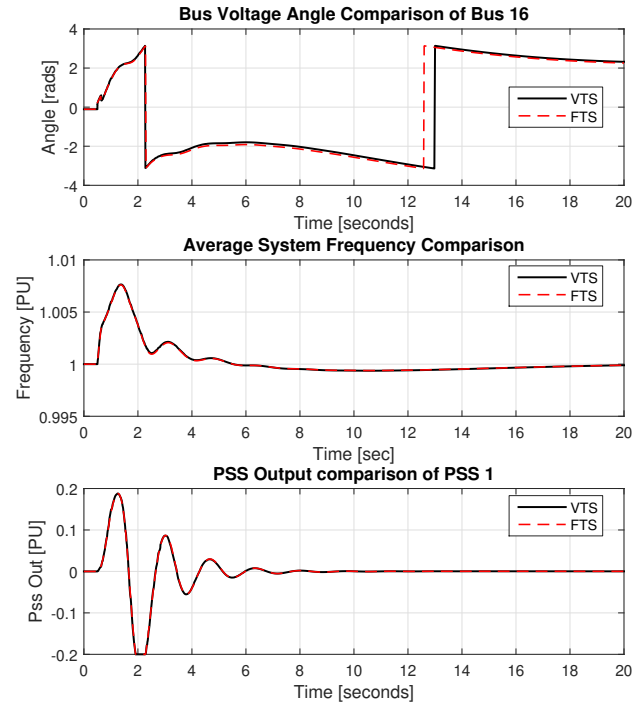
ode15s



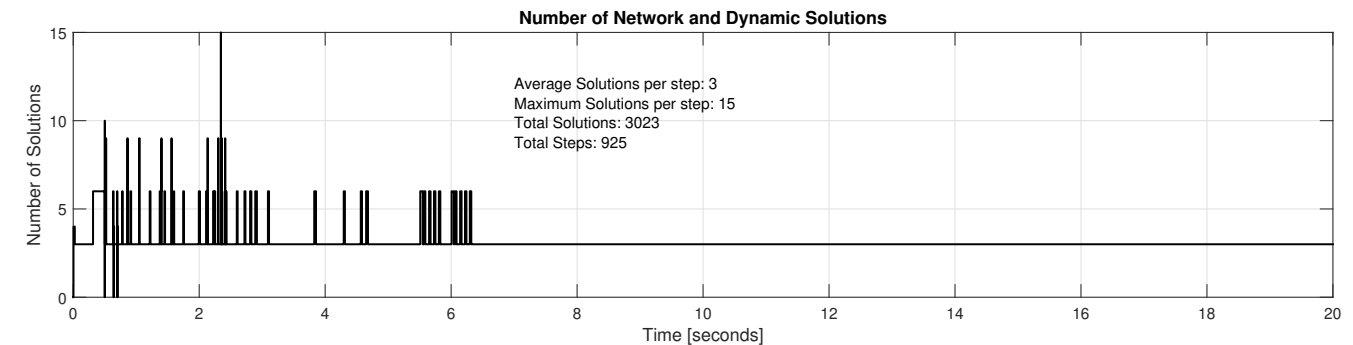
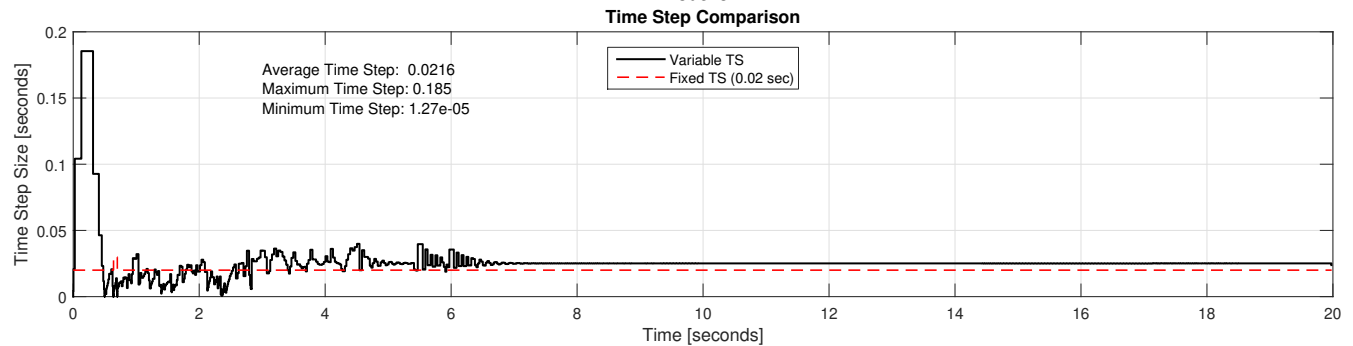
ode23



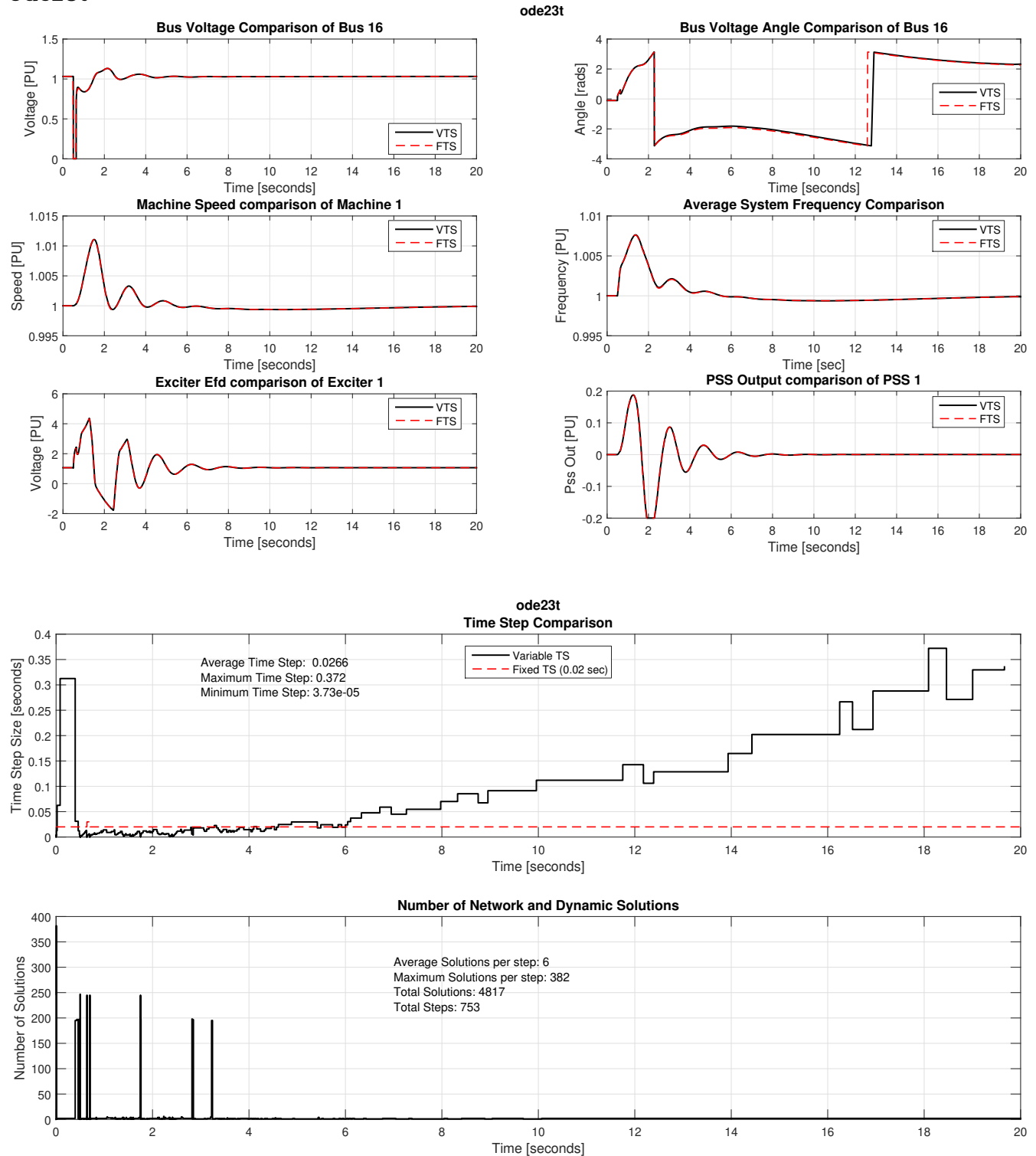
ode23



ode23



ode23t



ode23tb

