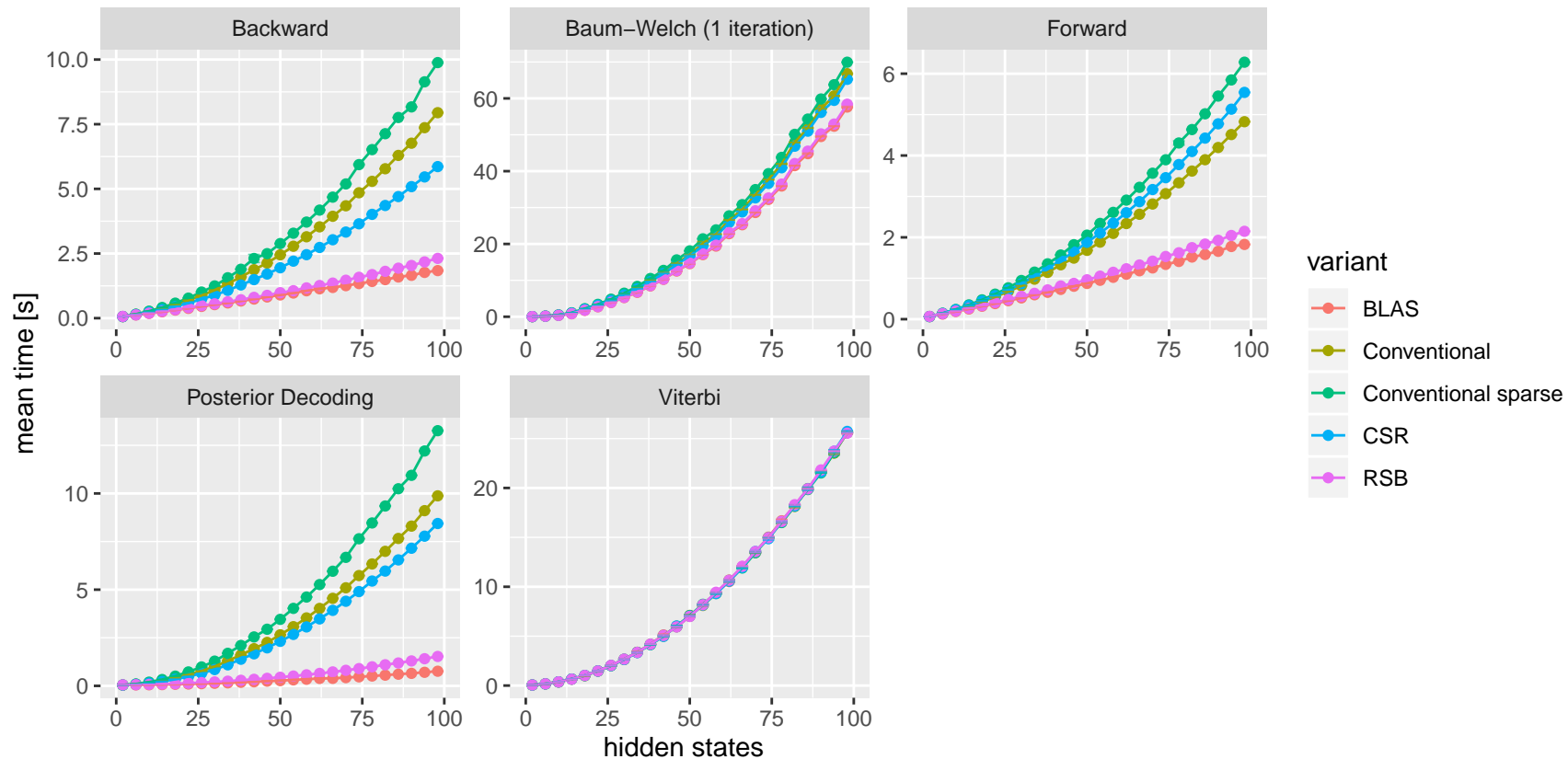Running time of increasing hidden state space

error bars: standard deviation of 3 replicates
input size: 100000, alphabet size: 4