Running time of increasing hidden state space backward baumWelch forward 0.025 -0.008 -0.020 -0.012 -0.007 -0.015 -0.006 -0.008 -0.005 -0.010 -0.004 -0.004 -0.005 mean time [s] 0.003 variant Ö 15 10 15 Ö 10 5 20 Ö 5 20 5 10 15 20 BLAS Conventional posteriorDecoding viterbi CSR 0.010 -0.006 -0.008 -0.004 -0.006 -0.002 -0.004 -0.000 -20 5 10 15 ò 10 20

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hidden states