A. Parametrization: b = 0Value loss function Std. dev. loss function Value loss function (last periods) Cumulative execution time (sec)  $10^{3}$ bc-MC N=2, T=1  $10^{1}$ bc-MC N=2, T=10 50  $10^{2}$ bc-MC N=2, T=100  $10^{1}$  $10^{0}$  $10^{-1}$ bc-MC N=2, T=1000 40  $10^{0}$ 30  $10^{-1}$  $10^{-2}$ 20  $10^{-2}$  $10^{-2}$  $10^{-3}$ 10  $10^{-4}$  $10^{-3}$ 0 2500 5000 7500 10000 0 2500 7500 10000 9000 9250 9500 9750 10000 2500 5000 7500 10000 5000 Iterations **Iterations Iterations** Iterations B. Parametrization: b=1Std. dev. loss function Value loss function Value loss function (last periods) Cumulative execution time (sec) bc-MC N=2, T=1 60 bc-MC N=2, T=10  $10^{-2}$ bc-MC N=2, T=100 50 bc-MC N=2, T=1000 40  $10^{-3}$ 30  $10^{-2}$ 20  $10^{-4}$  $3\times 10^{-3}$ 10 0 2500 5000 7500 10000 0 2500 5000 7500 10000 9000 9250 9500 9750 10000 0 2500 5000 7500 10000 Iterations **Iterations Iterations Iterations**