scosine (1000 variables) - max\_time with LBFGSSolver  $2.6\times10^{-5}$  $2.4 \times 10^{-5}$ init\_eval\_obj\_time (seconds)  $2.2 \times 10^{-5}$  $2 \times 10^{-5}$  $1.8 \times 10^{-5}$  $1.6 \times 10^{-5}$  $1.4\times10^{-5}$ 20 40 60 80 100 mem