Profiles with the "random\_nan\_0.1" feature interior-point interior-point 1.5 0.6 History-based profiles 0.4 Log-ratio profile (tol =  $10^{-2}$ ) Log-ratio profile  $(tol = 10^{-1})$ 0.5 0.2 -0.5 -0.4 -0.6 sqp sqp -1.5 Problem Problem interior-point interior-point 3 3 Output-based profiles Log-ratio profile (tol =  $10^{-1}$ ) Log-ratio profile (tol =  $10^{-2}$ ) -2 -3 -3 Problem Problem