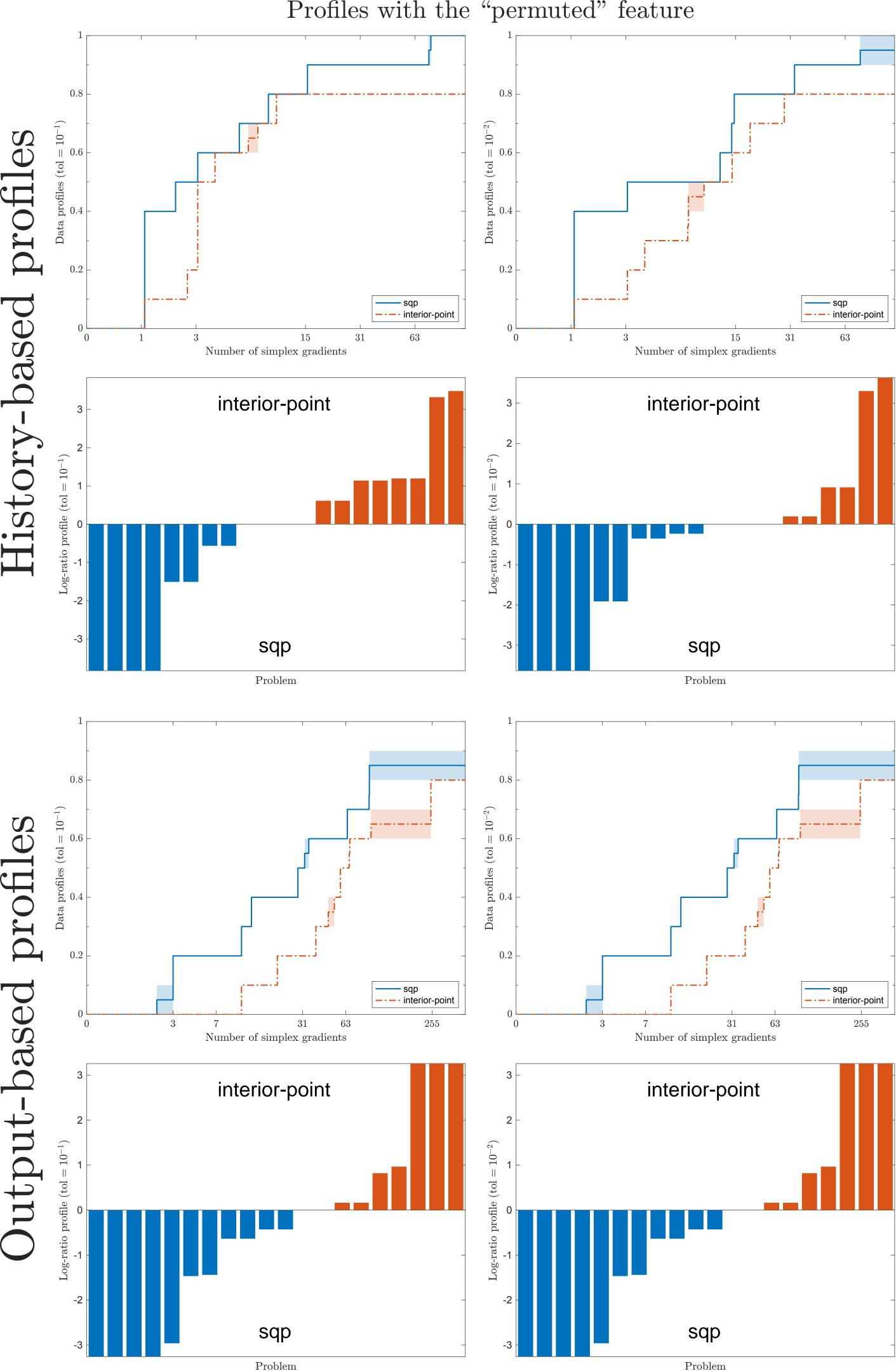


Profiles with the "nonquantifiable\_constraints" feature History-based profiles 0.8 0.8 Data profiles (tol =  $10^{-2}$ )  $\stackrel{.0}{\cdot}$   $\stackrel{.0}{\cdot}$ 0.2 0.2sqp sqp -- interior-point - · interior-point 15 15 31 Number of simplex gradients Number of simplex gradients Output-based profiles 0.8 0.8 Data profiles (tol =  $10^{-2}$ ) .0
.9 0.20.2sqp sqp --- interior-point - interior-point 31 3 63 255 3 255 Number of simplex gradients Number of simplex gradients



Profiles with the "quantized\_0.01" feature ×10<sup>-16</sup> interior-point interior-point 1.5 Log-ratio profile (tol =  $10^{-2}$ ) 0.5 -1.5 sqp sqp -2 Problem Problem 0.6 interior-point interior-point 0.4 Log-ratio profile (tol =  $10^{-2}$ ) 0.2 -0.4 sqp sqp

-0.6

Problem

Problem

8.0

0.6

-0.4

-0.6

-0.8

History-based profiles

Output-based profiles

Log-ratio profile (tol =  $10^{-1}$ )

Log-ratio profile  $(tol = 10^{-1})$ 

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