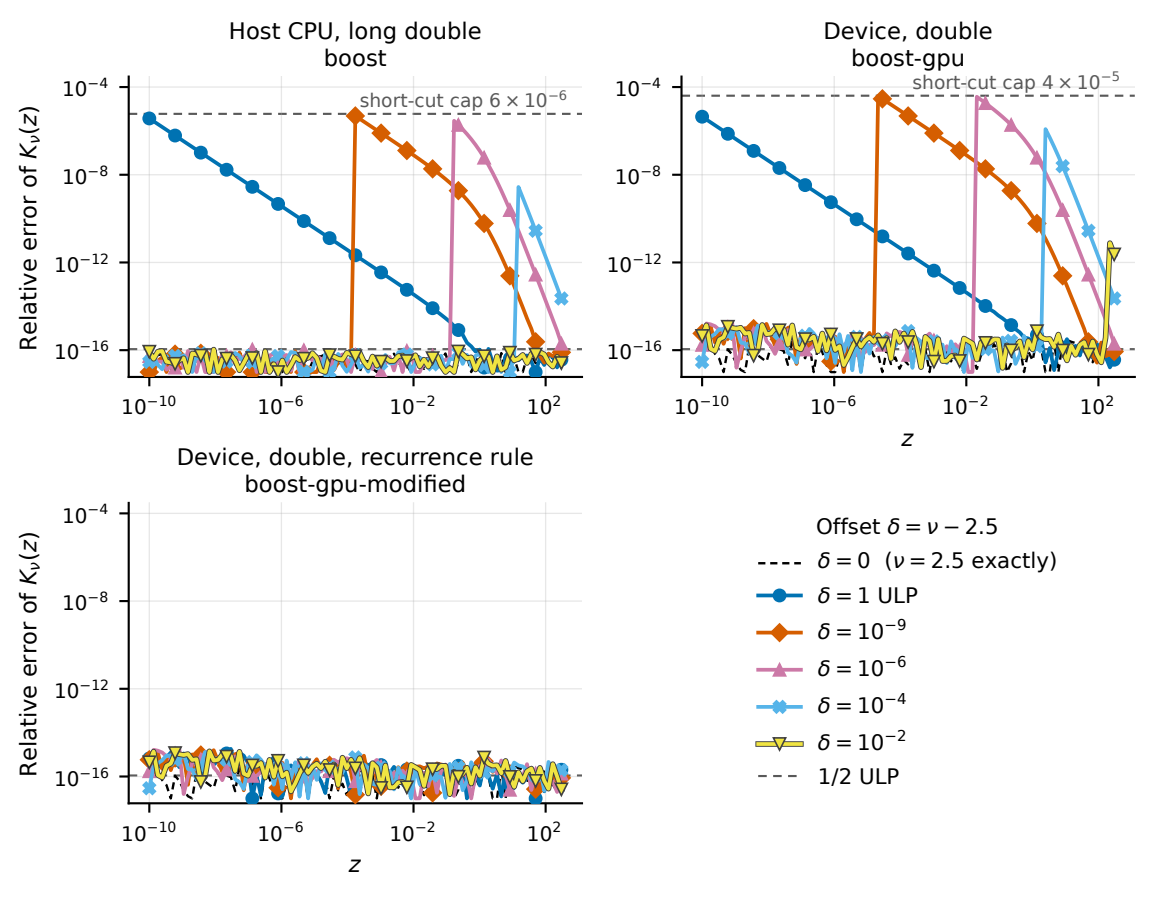
Host CPU, long double
boost
short-cut cap 6×10^{-6}
Device, double
boost-gpu
short-cut cap 4×10^{-5}
Device, double, recurrence rule
boost-gpu-modified
Relative error of $K_\nu(z)$
z
10^{-4}
10^{-8}
10^{-12}
10^{-16}
10^{-10}
10^{-6}
10^{-2}
10^{2}
Offset $\delta = \nu - 2.5$
$\delta = 0$ ($\nu = 2.5$ exactly)
$\delta = 1$ ULP
$\delta = 10^{-9}$
$\delta = 10^{-6}$
$\delta = 10^{-4}$
$\delta = 10^{-2}$
1/2 ULP