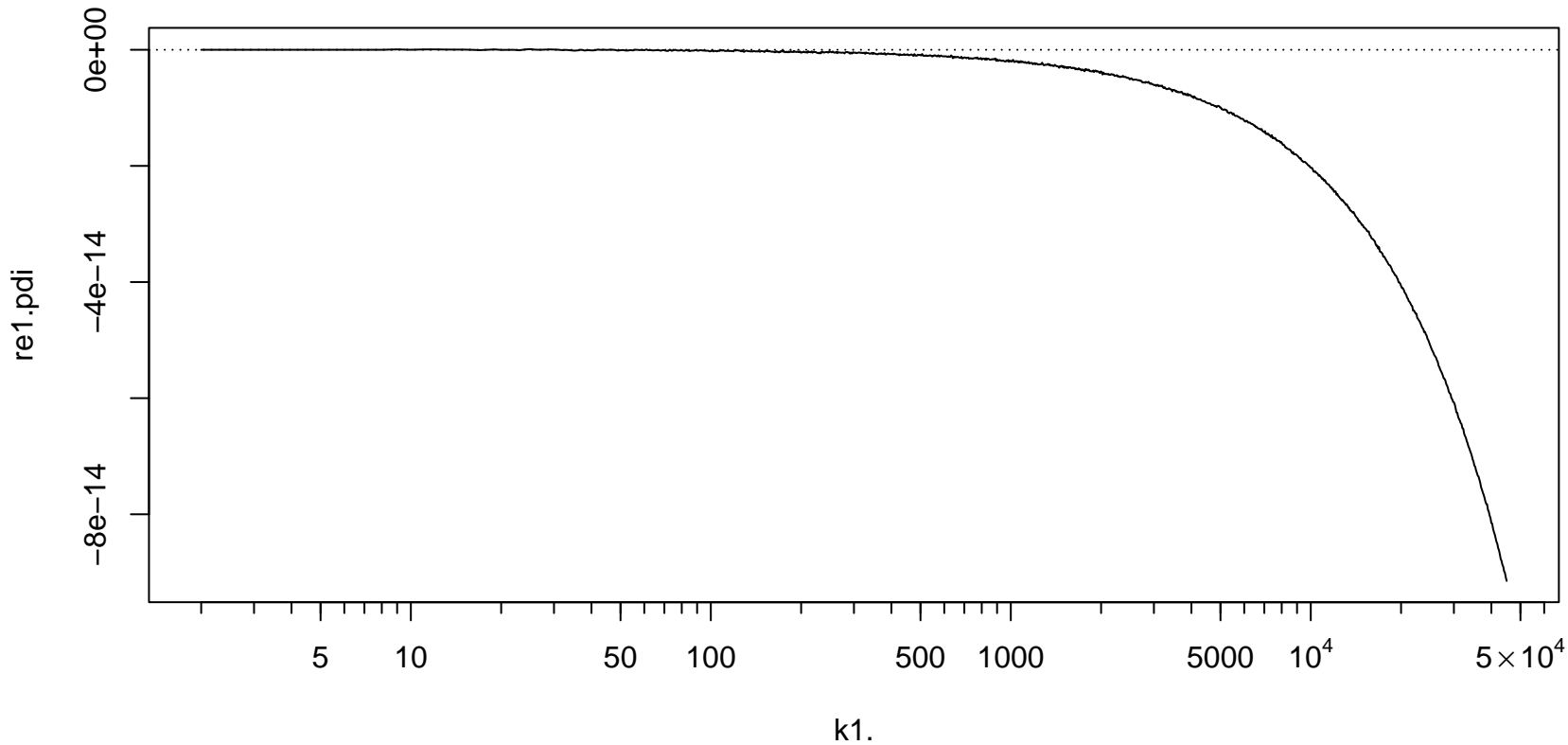
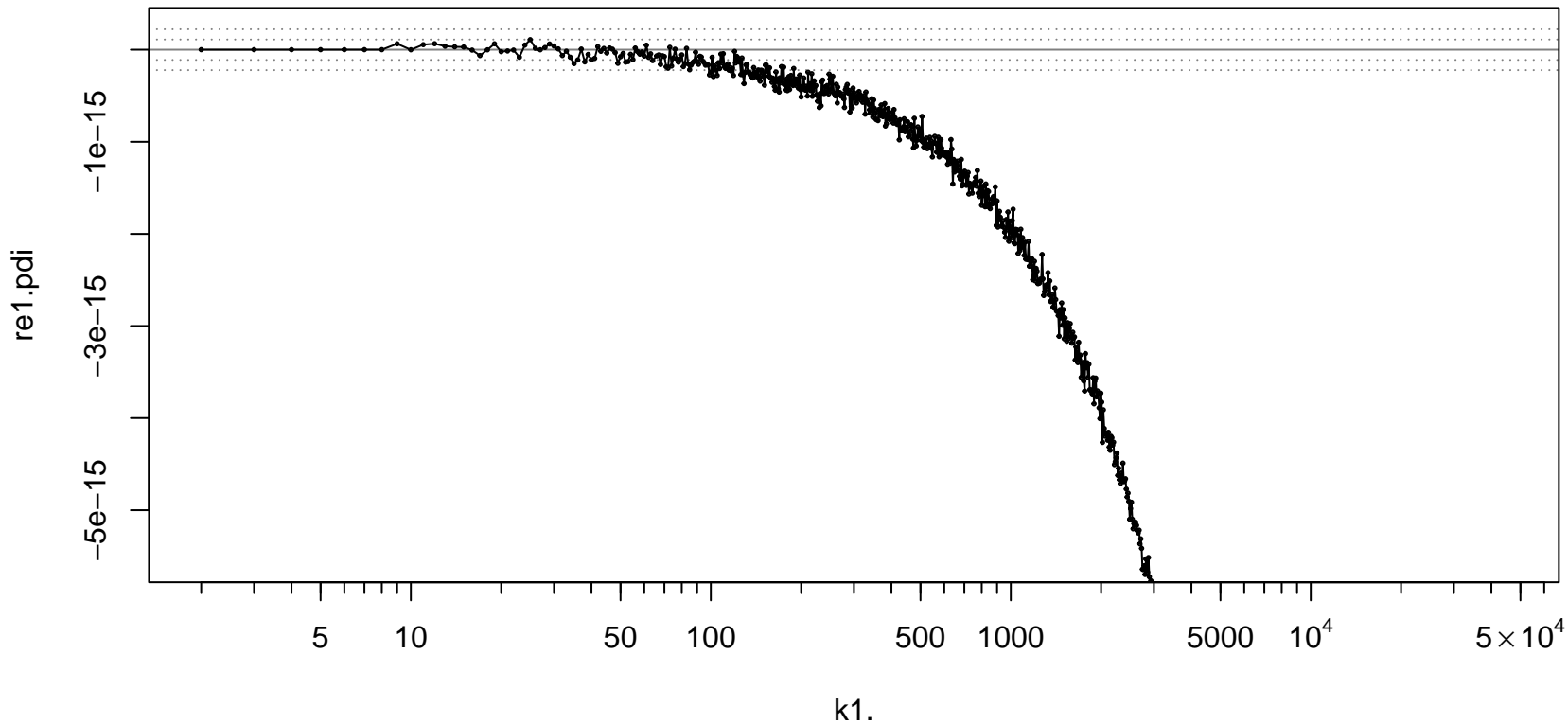


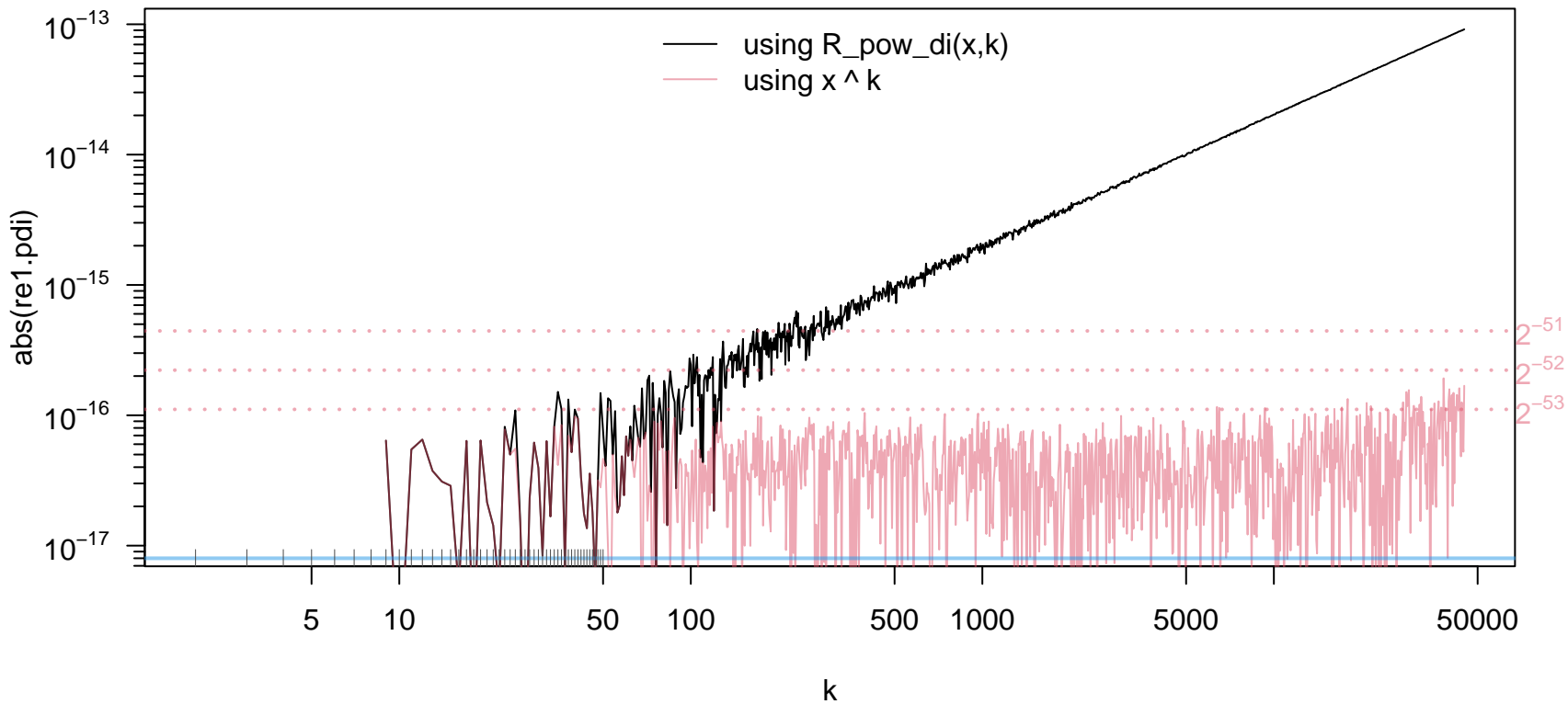
rel.error {wrt MPFR} of  $(63/64)^k$  -- using R\_pow\_di()



rel.error of  $(63/64)^k$  -- R\_pow\_di() -- zoomed in



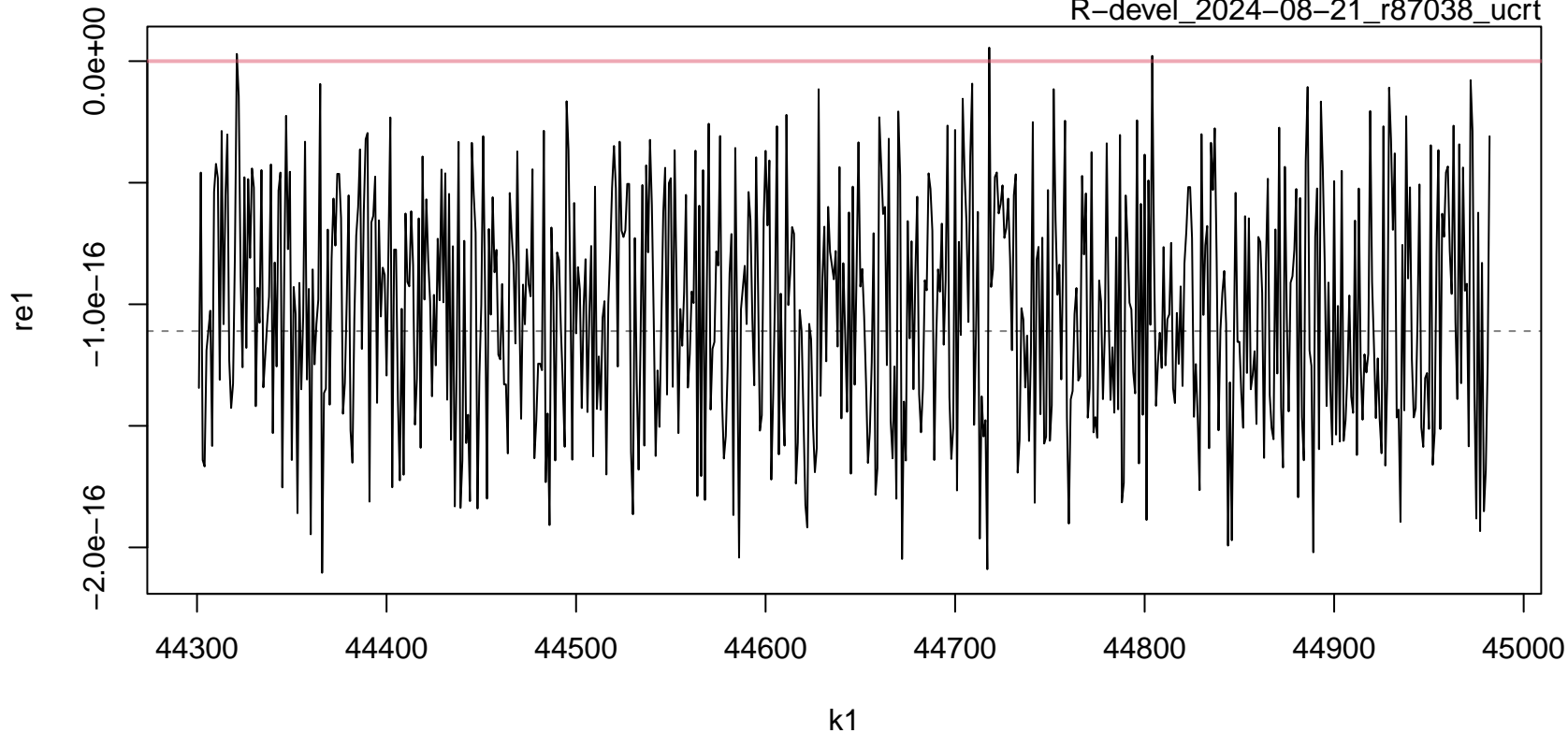
|rel.error| {wrt MPFR} of  $\left(\frac{63}{64}\right)^k$

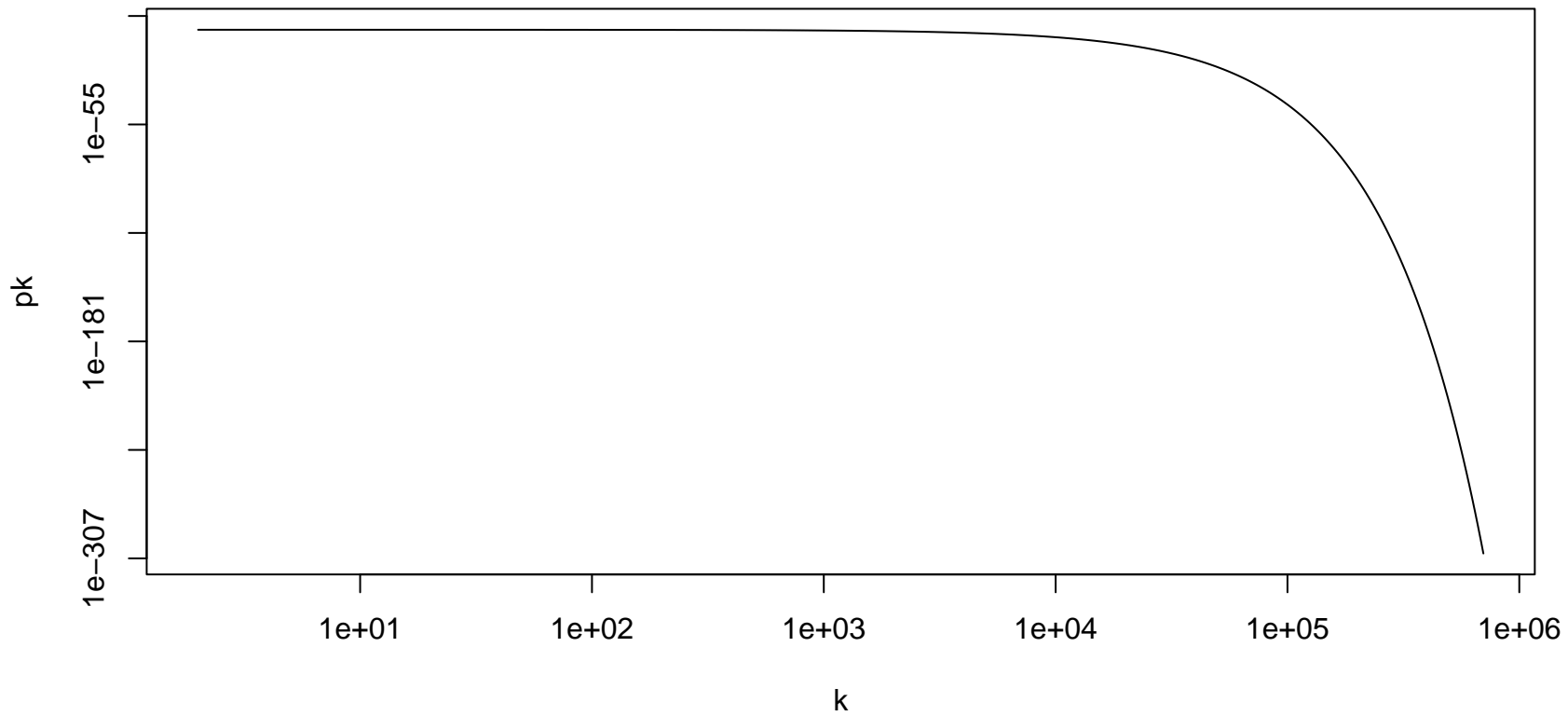


# rel.error {wrt MPFR} of $(63/64)^k$

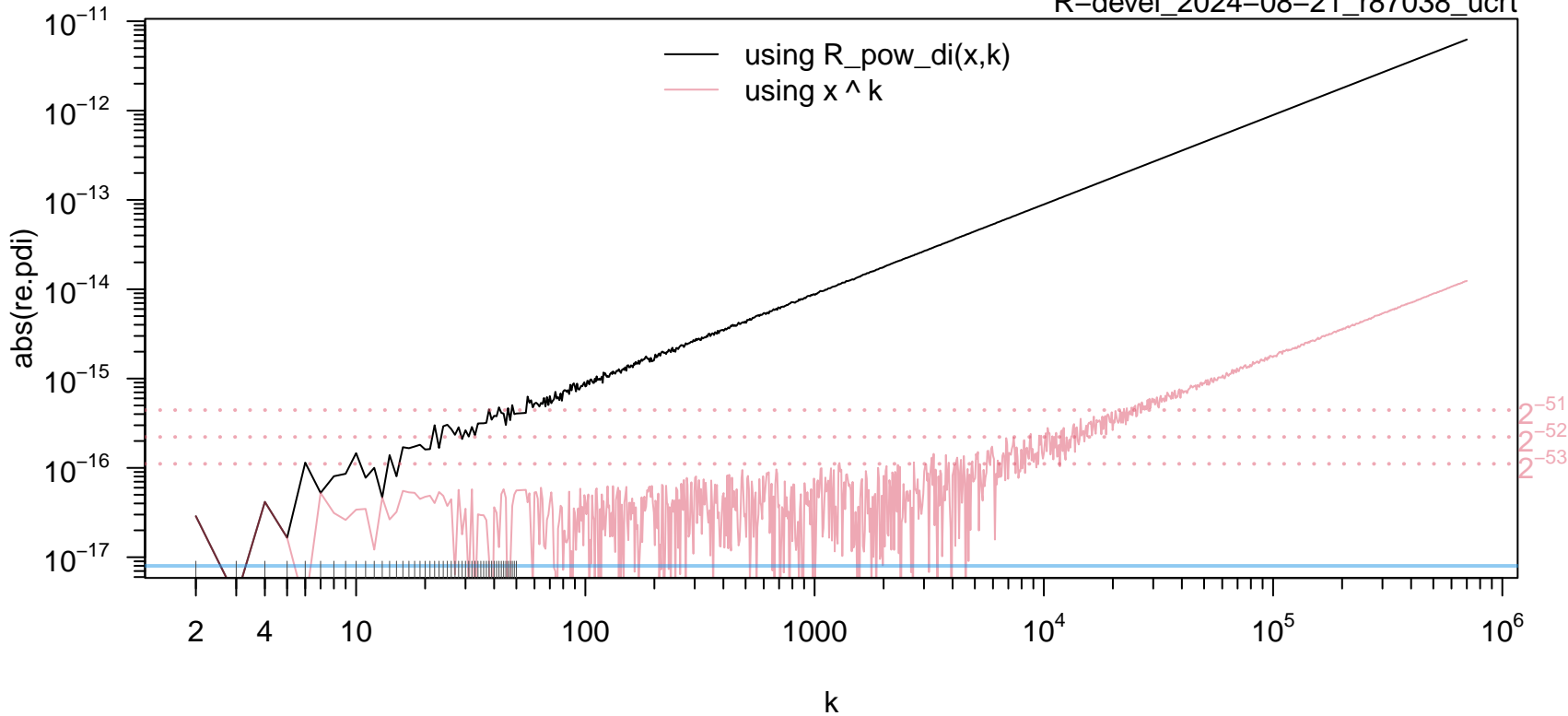
Windows Server 2022 x64 (build 20348)

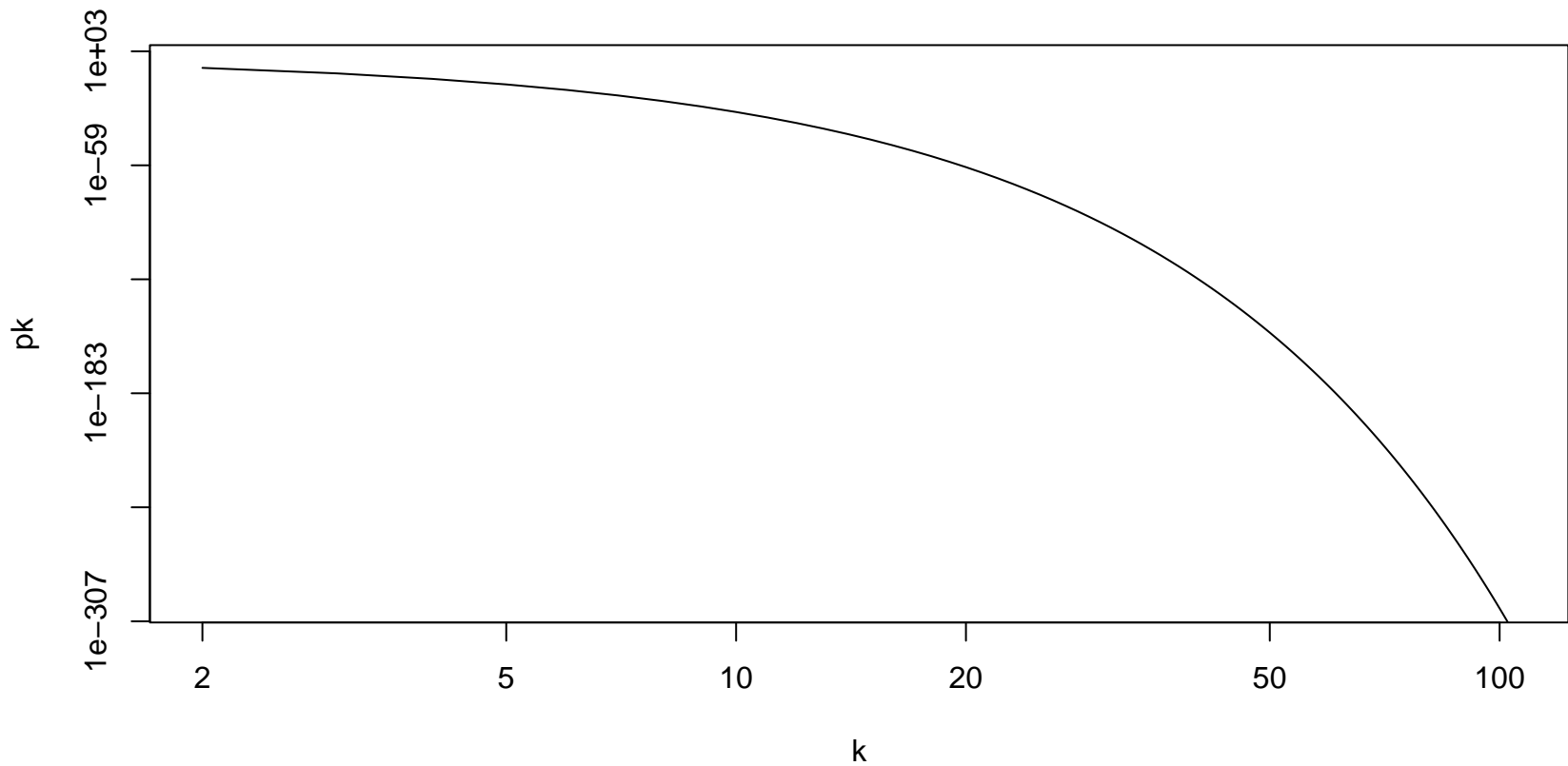
R-devel\_2024-08-21\_r87038\_ucrt



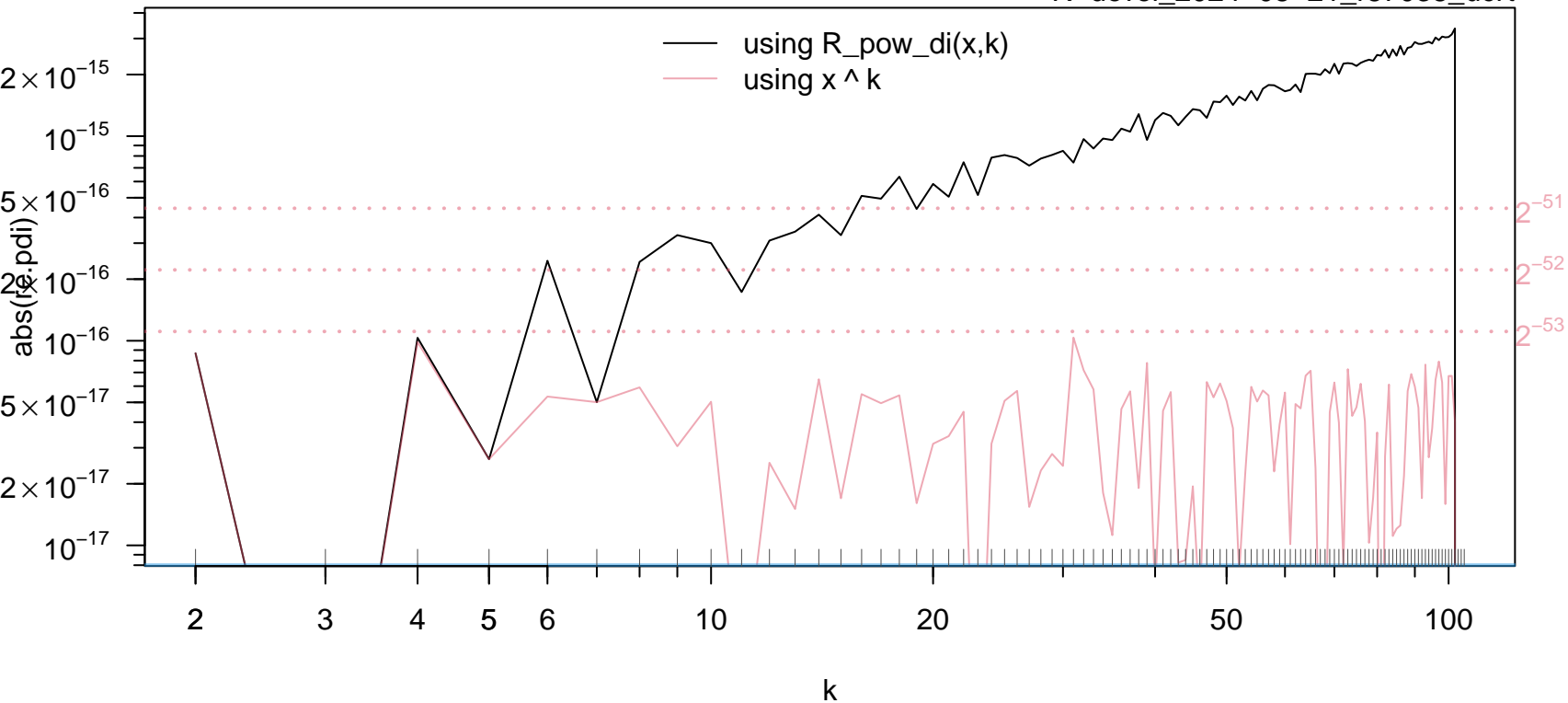


rel.error of  $0.999^k$  Windows Server 2022 x64 (build 20348)  
R-devel\_2024-08-21\_r87038\_ucrt

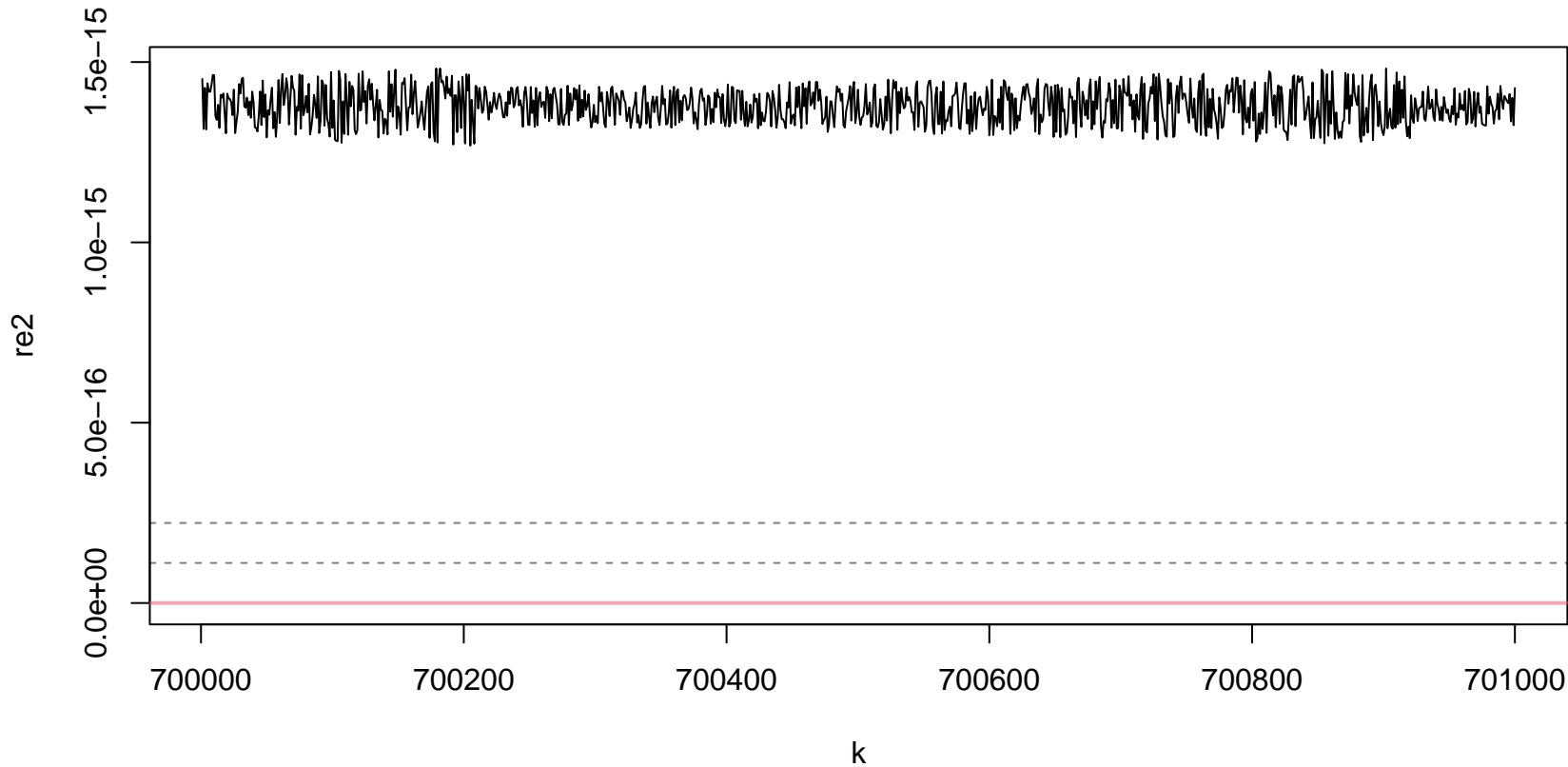




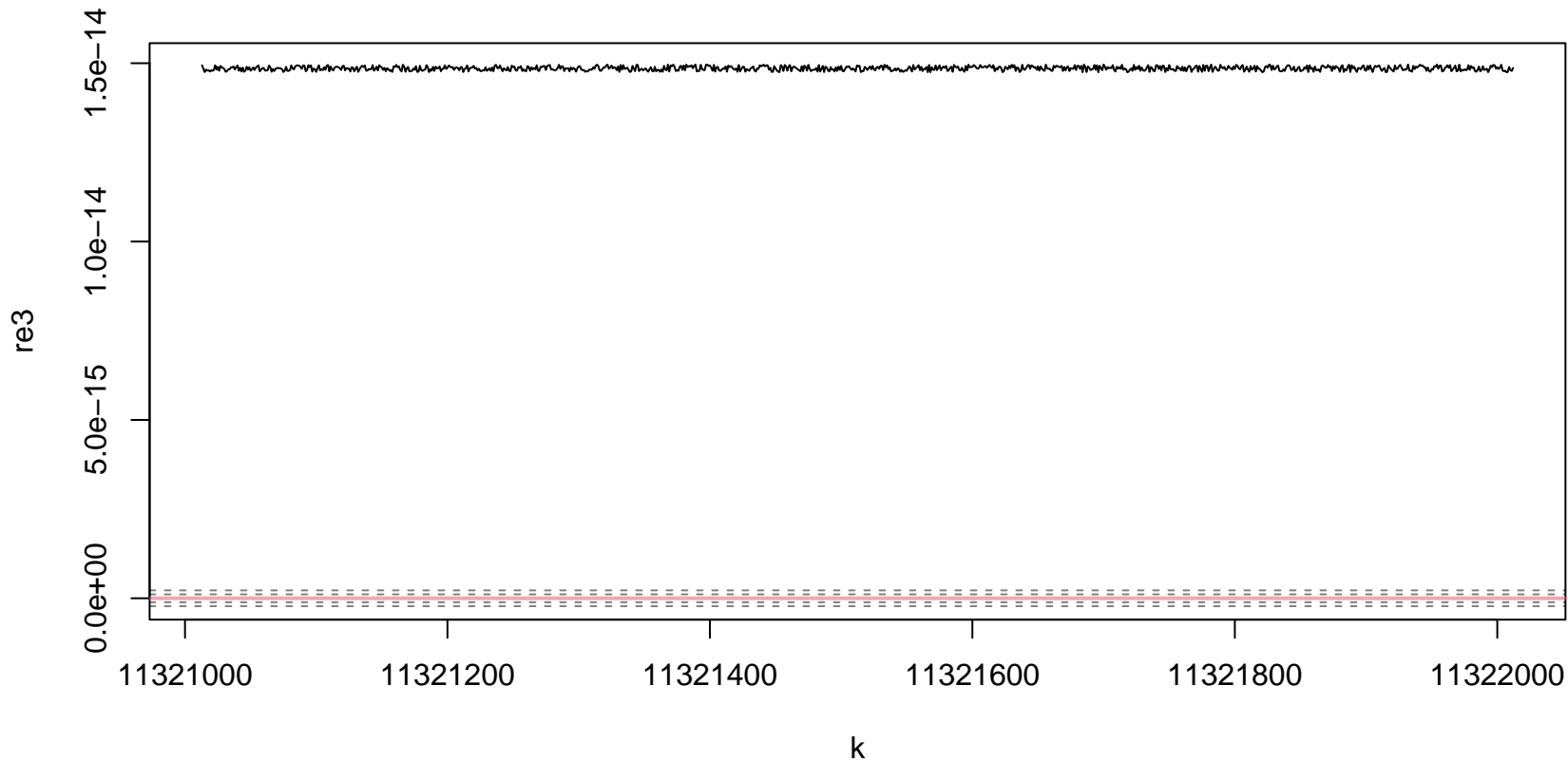


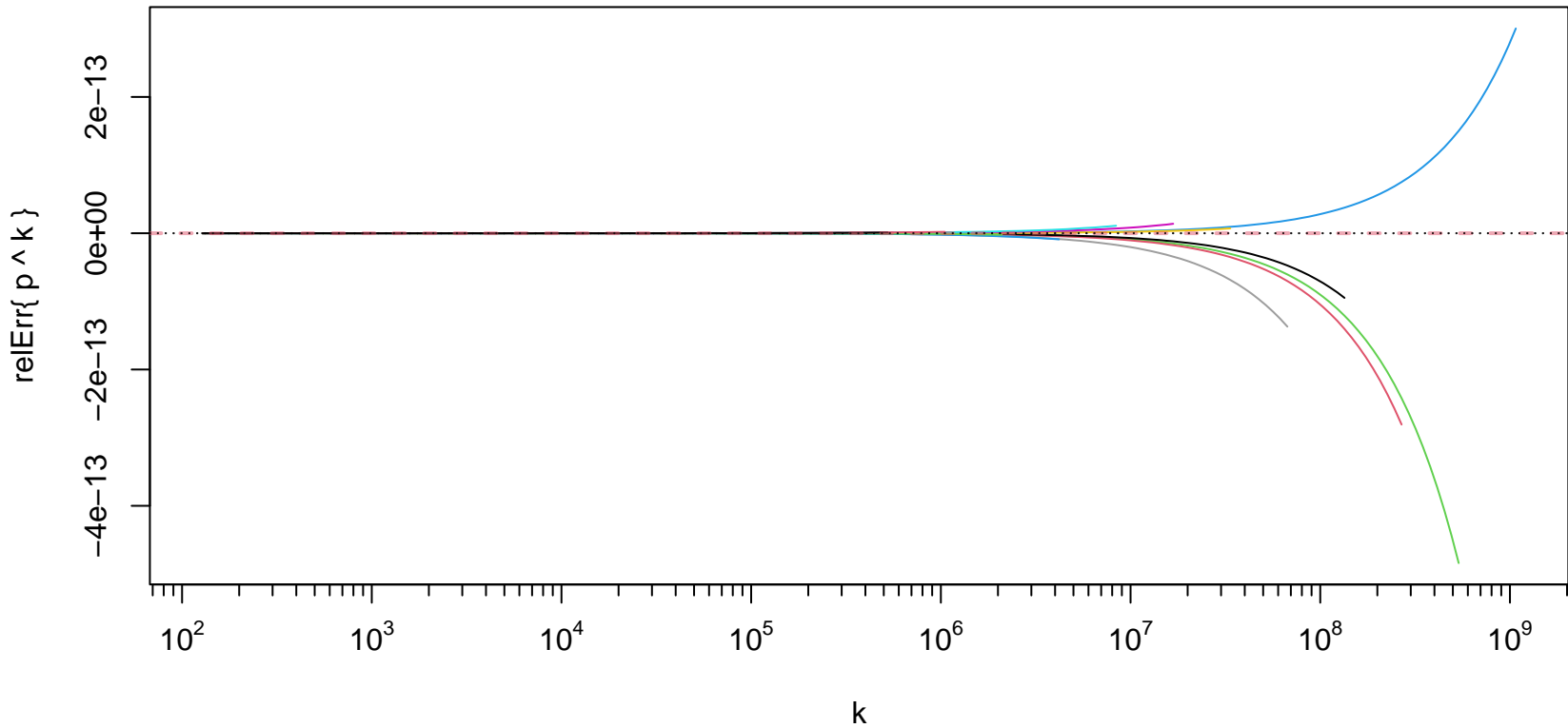


rel.Err of  $(1023/1024)^k$



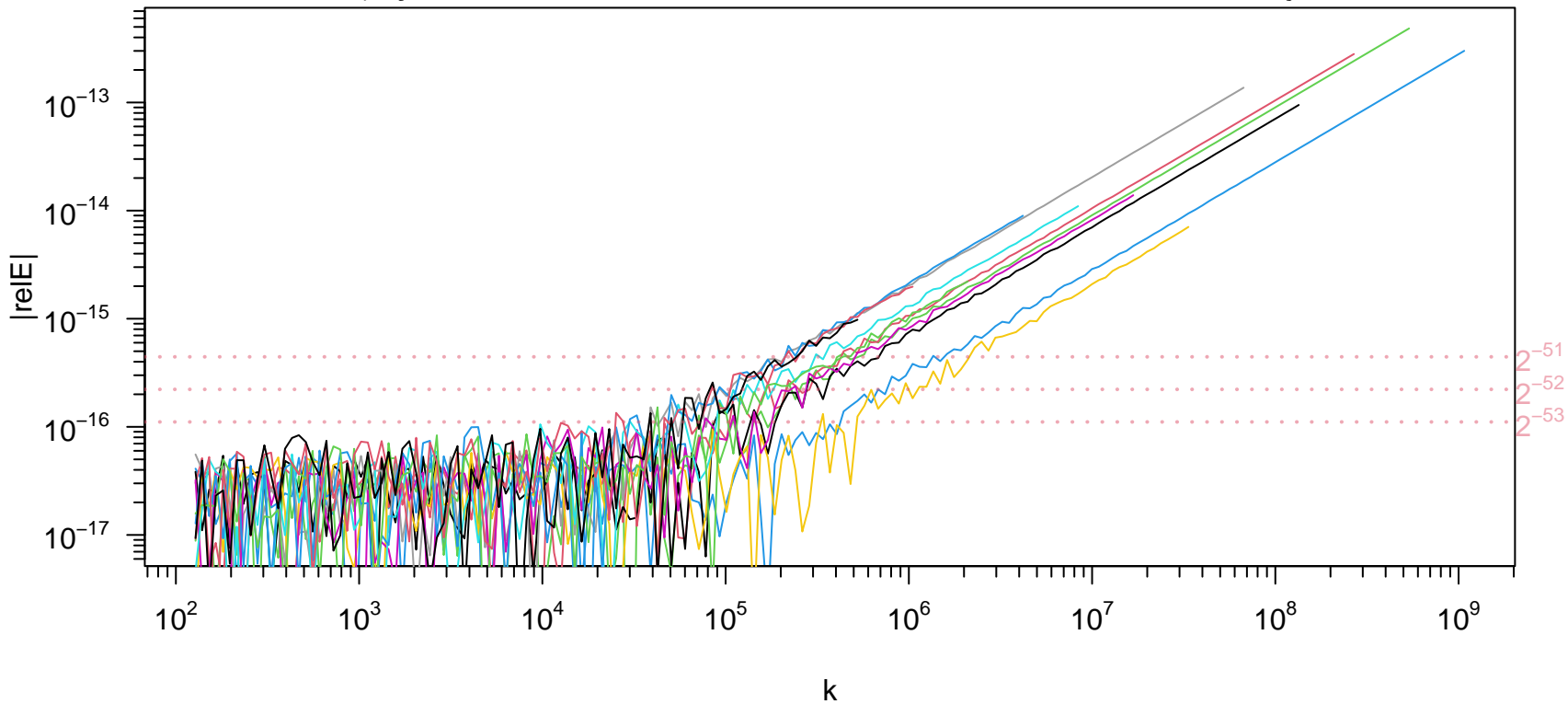
rel.Err of  $(16383/16384)^k$

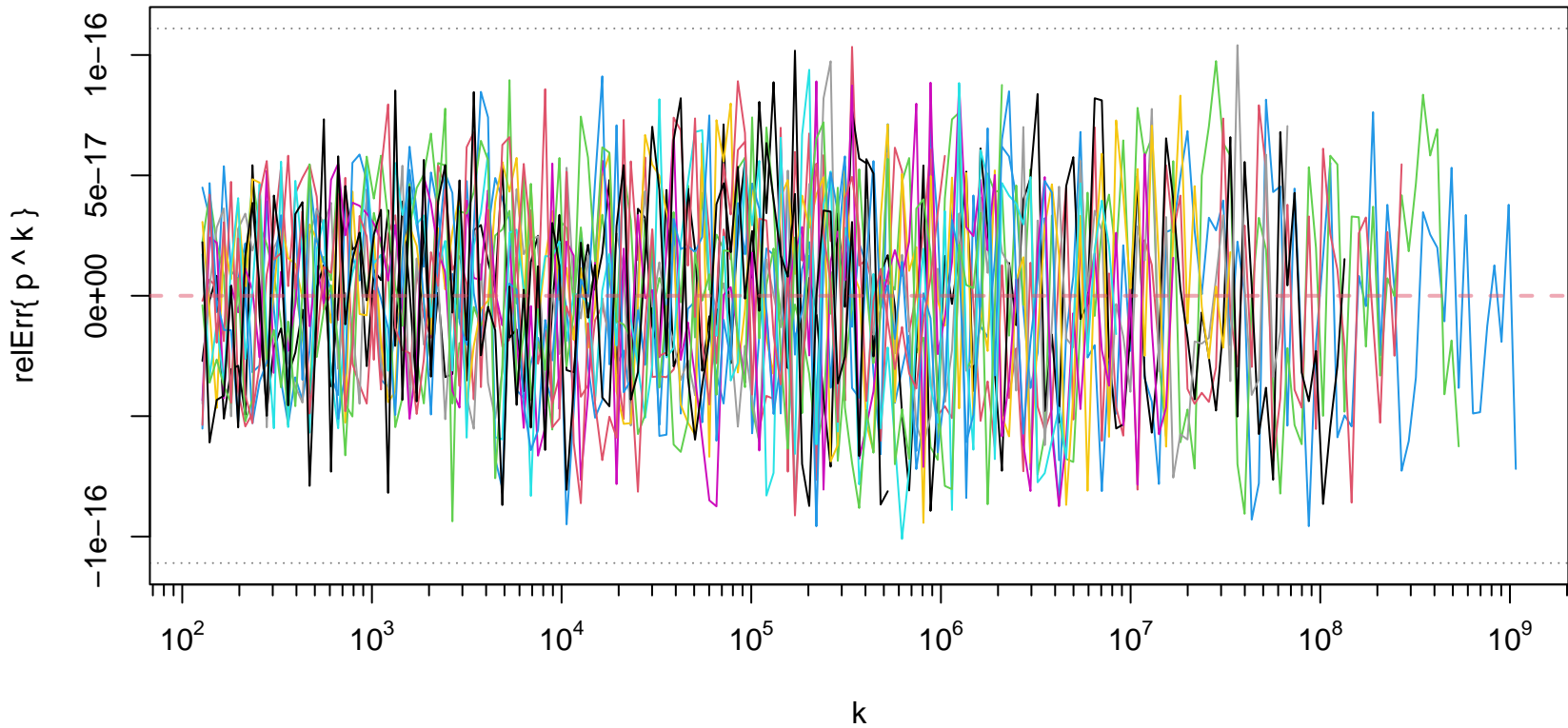




$|\text{rel.Err}(p^k)|$

$p = \{1-2^{-10}, 1-2^{-11}, 1-2^{-12}, 1-2^{-13}, 1-2^{-14}, 1-2^{-15}, 1-2^{-16}, 1-2^{-17}, 1-2^{-18}, 1-2^{-19}, 1-2^{-20}, 1-2^{-21}\}$





$|\text{rel.Err}(x^y)|, y \text{ *not* integer}$

$x = \{1-2^{-10}, 1-2^{-11}, 1-2^{-12}, 1-2^{-13}, 1-2^{-14}, 1-2^{-15}, 1-2^{-16}, 1-2^{-17}, 1-2^{-18}, 1-2^{-19}, 1-2^{-20}, 1-2^{-21}\}$

