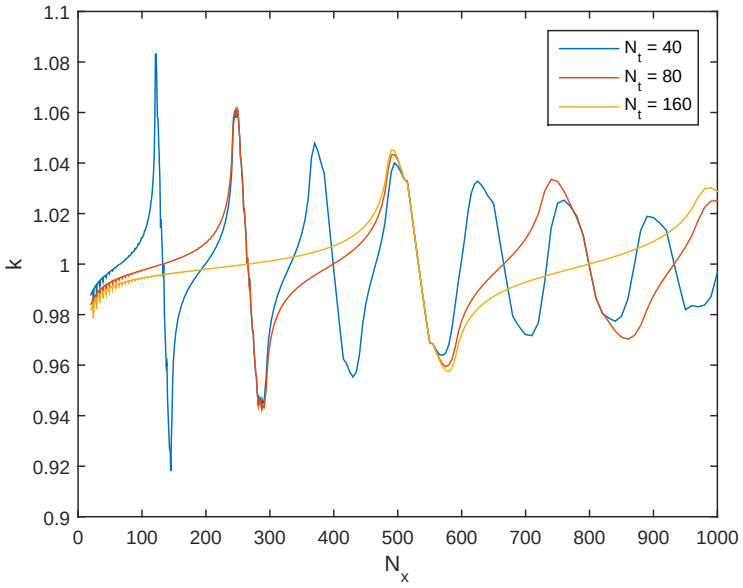

Figure 1: Default parameters: $\alpha = 0.1$, $\theta_u = \theta_x = 0.5$, linear interpolation and static mesh.

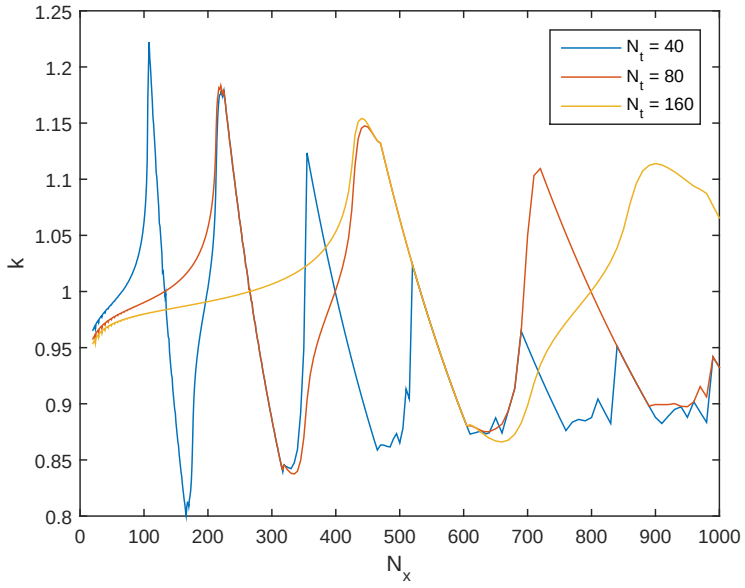

Figure 2: As above, but $\alpha = 0.25$.

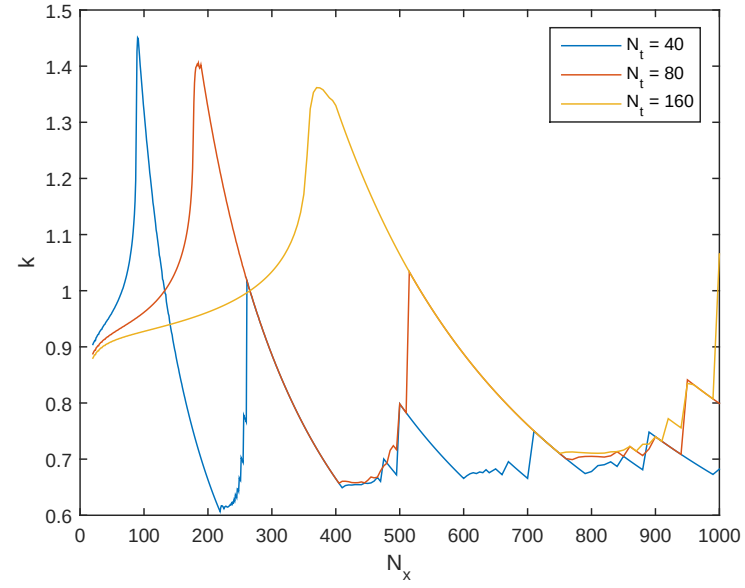

Figure 3: Large wave amplitude, $\alpha = 0.5$.

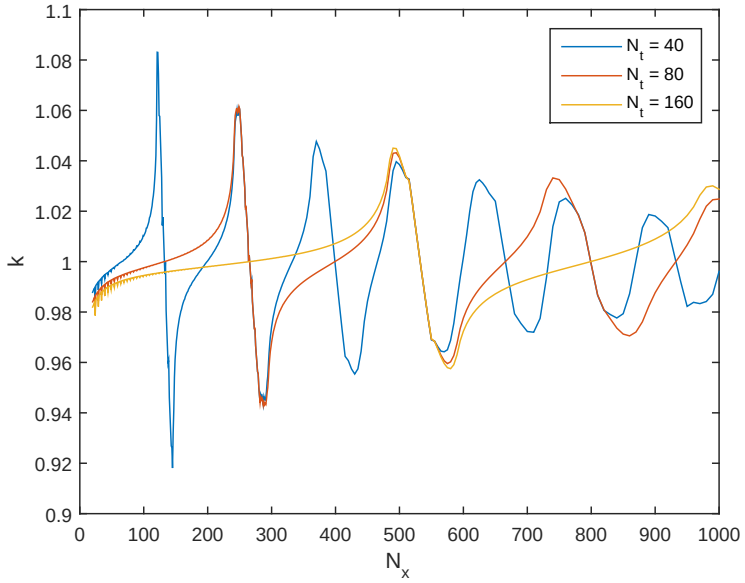

Figure 4: Theta method in place of Crank-Nicholson with $\theta_u = \theta_x = 0.55$. Side-by-side, this Figure and Figure 1 are indistinguishable.

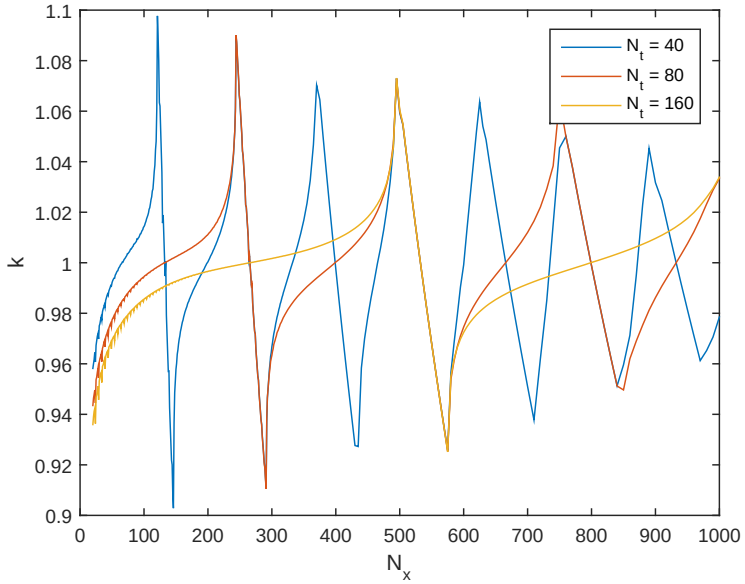

Figure 5: Front speed using cubic Lagrange interpolation.

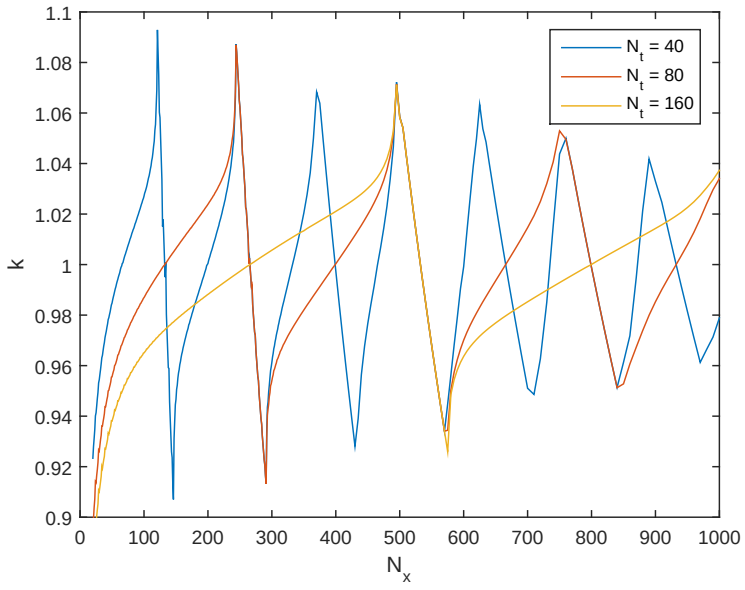

Figure 6: As in Figure 5, but with an interpolation limiter applied, sacrificing smoothness for monotonicity.

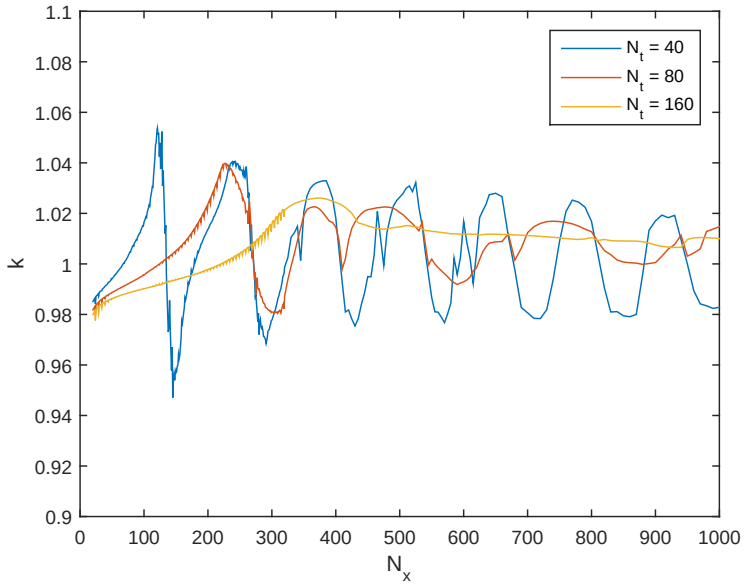

Figure 7: Moving mesh with exact equidistribution, so X_A^{n+1} equidistributes the linear interpolant of $M(U_A^n, X_A^n)$, with $M(u,x) = \sqrt{0.1 + {u_x}^2}$ (after smoothing and normalisation.

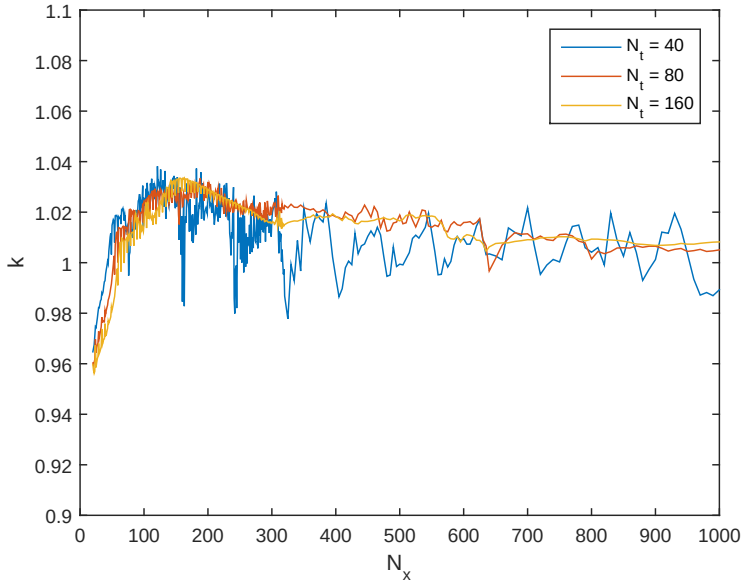

Figure 8: Moving mesh as in Figure 7, but with $M(u,x) = \sqrt{0.1 + {u_x}^2}$.