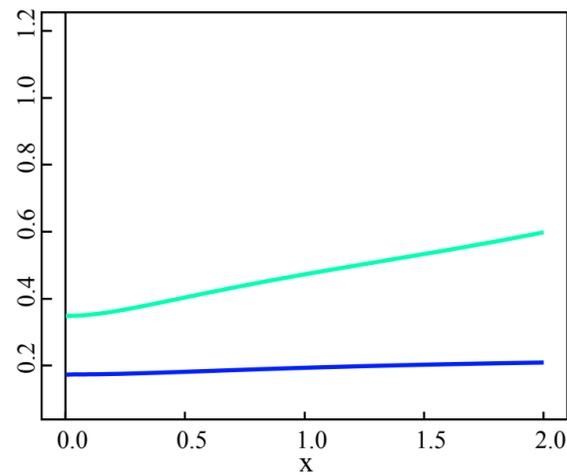


Density (ρ)Results with $\nu = 1e-5$, $Dn = 0$;cut at midplane $y = 0$;
(x-axis is in units of d_i)

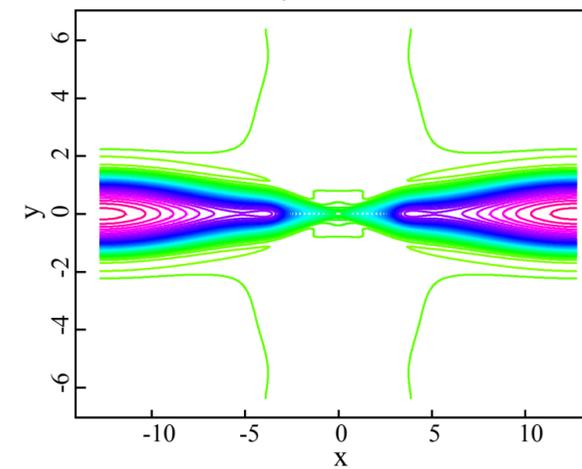
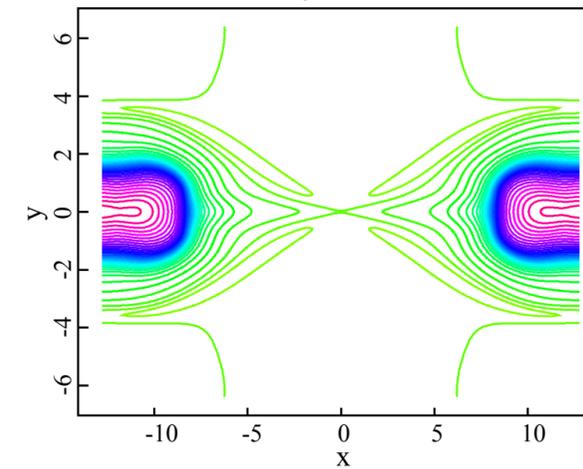
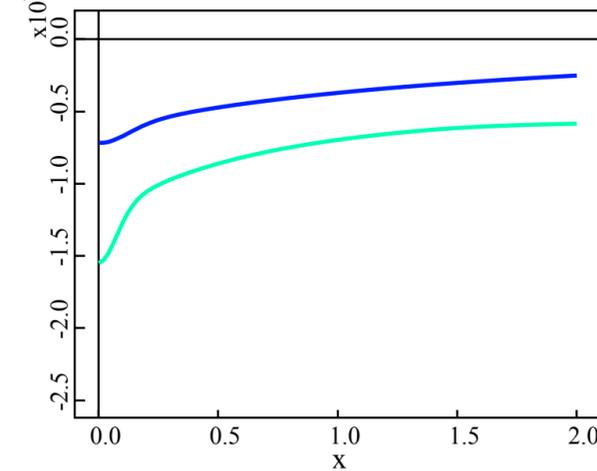
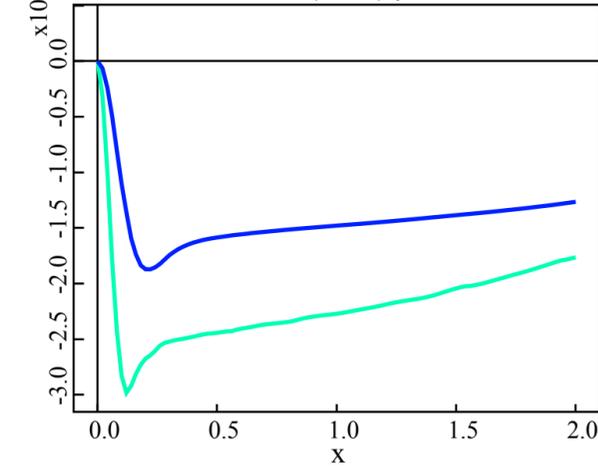
— $t = 20.0625$
(peak of reconnection rate)

— $t = 29.125$
(peak of kinetic energy)

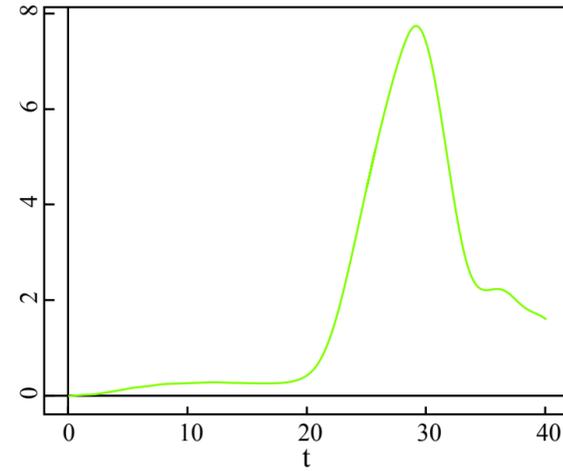
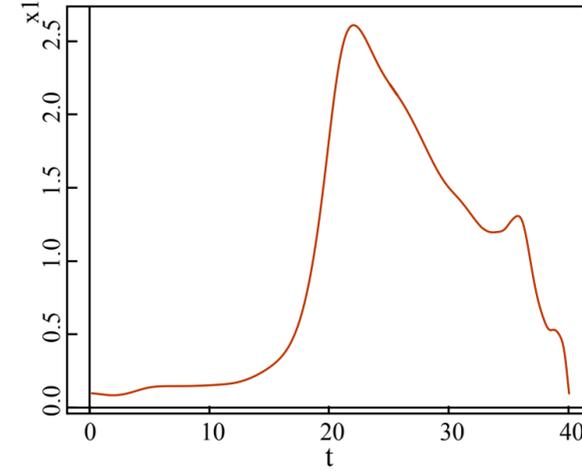
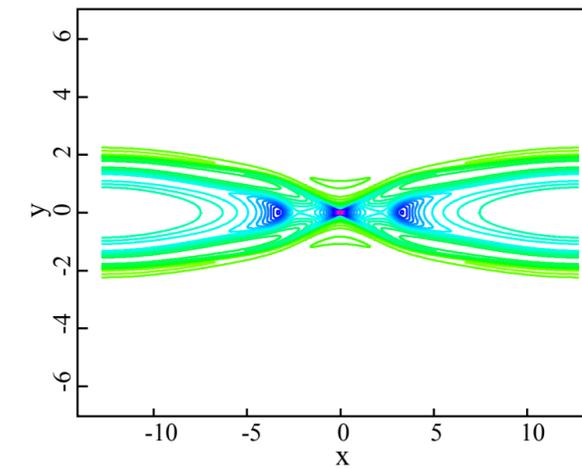
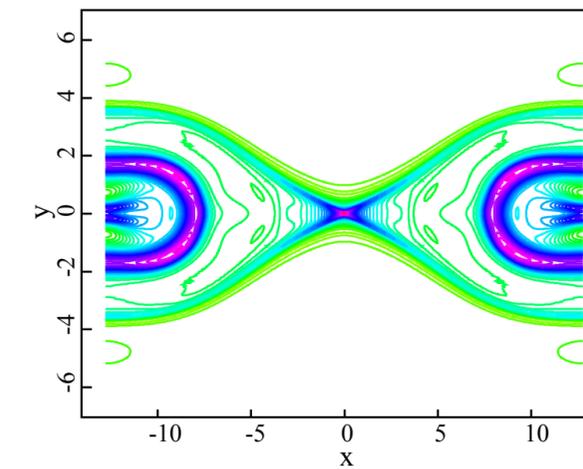
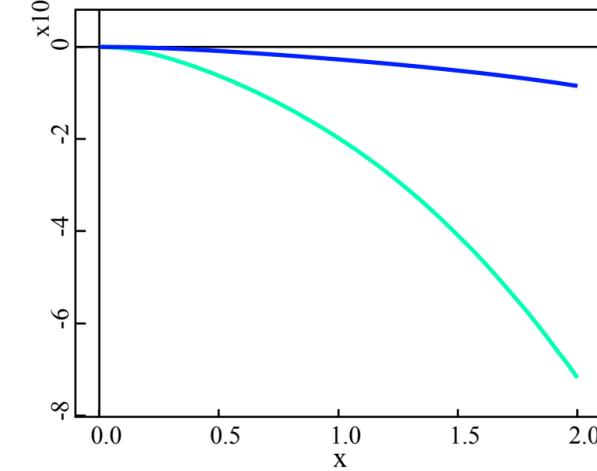
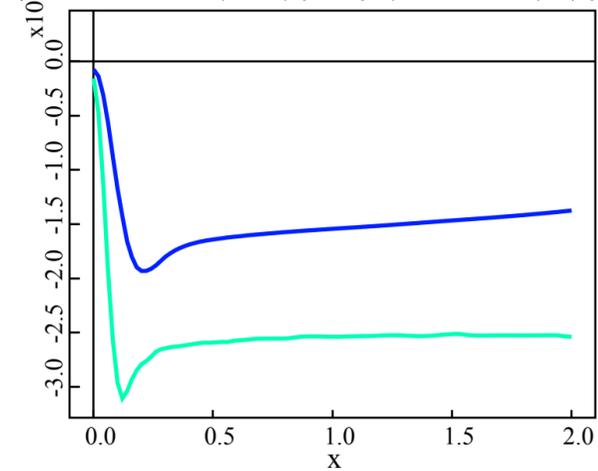
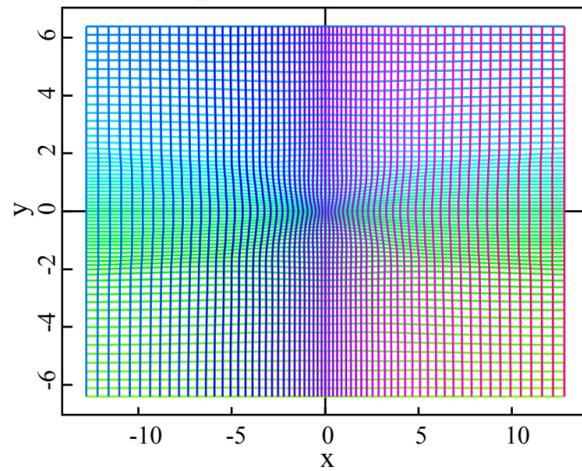
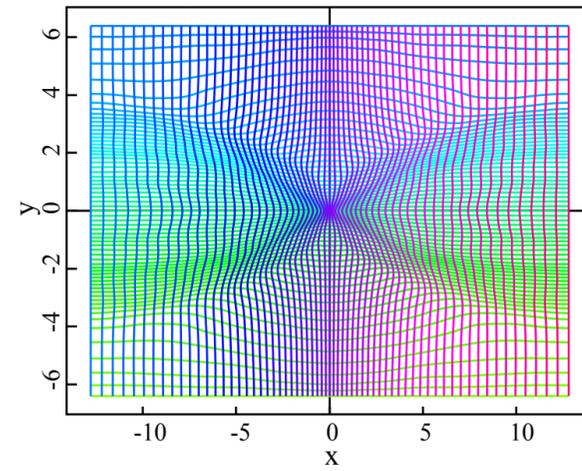
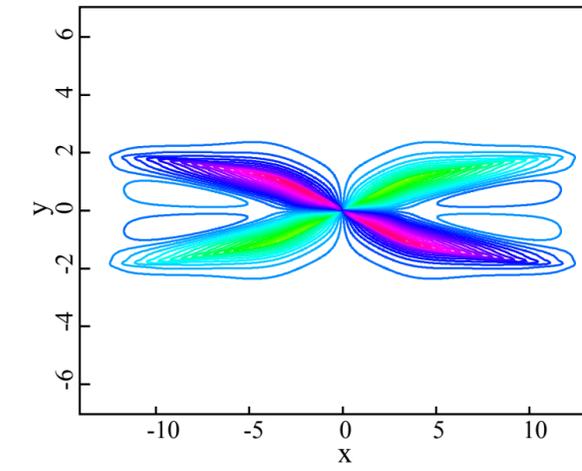
Logical grid: $[n_x, n_y, n_p] = [40, 40, 8]$;# of time-steps = 419; $\delta t = .0625 \rightarrow .25$;

of grid remappings = 18;

Computed on Bassi on 4 nodes of 8 processors each;

Wallclock time = 9 hours \Rightarrow cpu time = 288 hours;Density at $t = 20.0625$ Density at $t = 29.125$  ηJ  $di*(J \times B)/\rho$ 

Kinetic Energy

Reconnection rate ($\delta\psi/\delta t$ at x-point)Electron z-momentum at $t = 20.0625$ Electron z-momentum at $t = 29.125$  $-V_i \times B$  $-V_i \times B + di*(J \times B)/\rho + \eta J (= E - di*v\Delta(Ve)/\rho)$ Computational grid at $t = 20.0625$ Computational grid at $t = 29.125$  B_z at $t = 20.0625$  B_z at $t = 29.125$ 