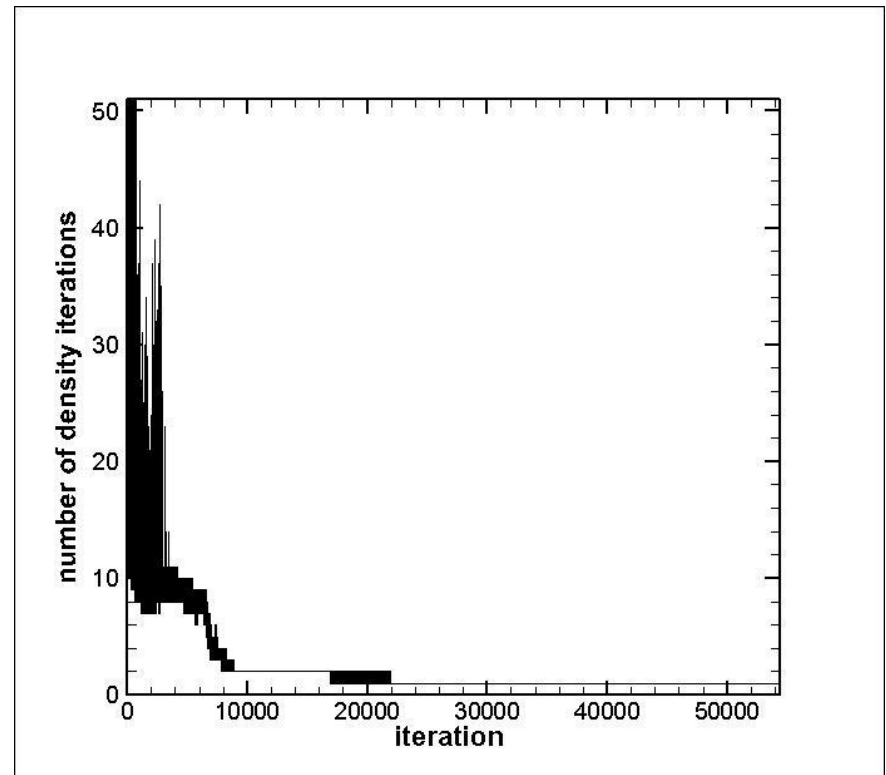
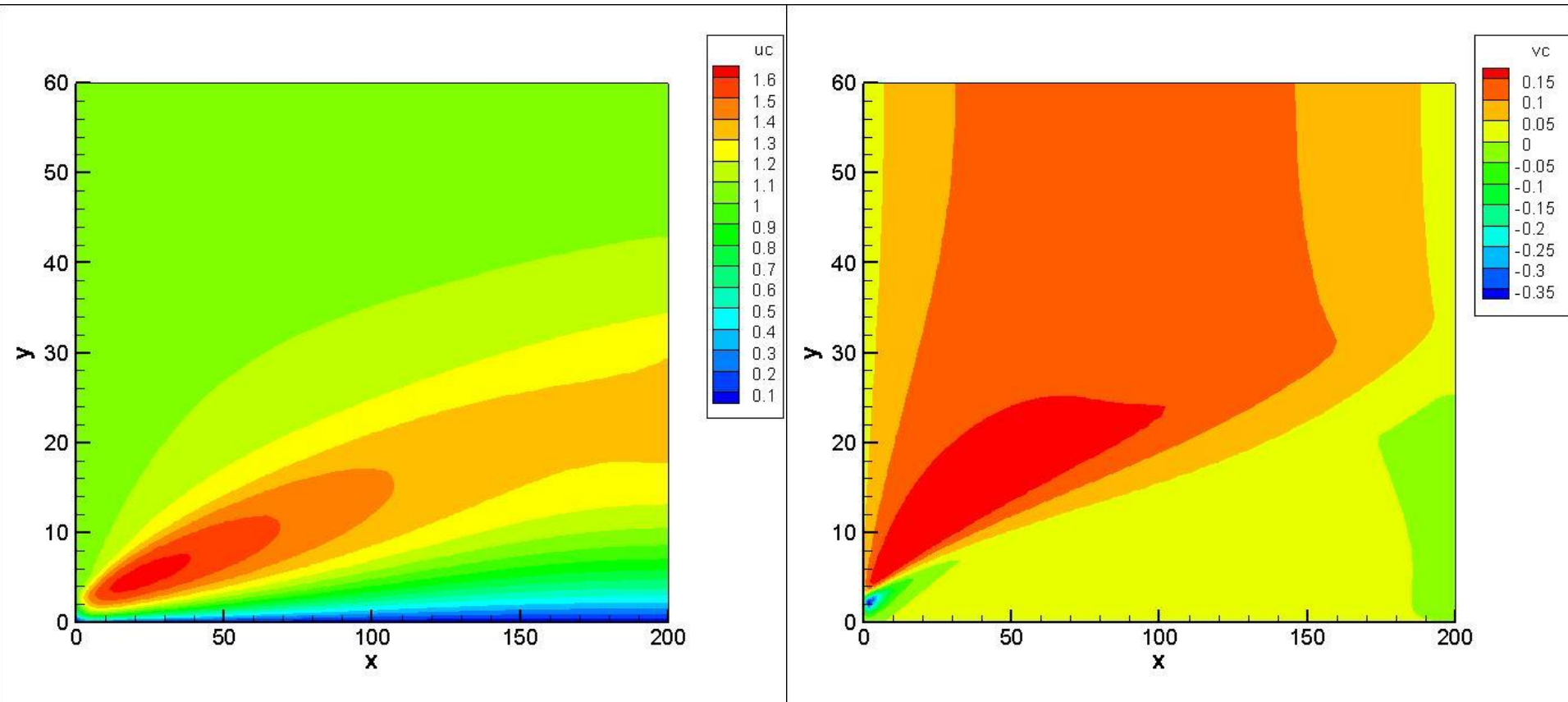


# Forced convection flame ( $\rho \neq 1$ )

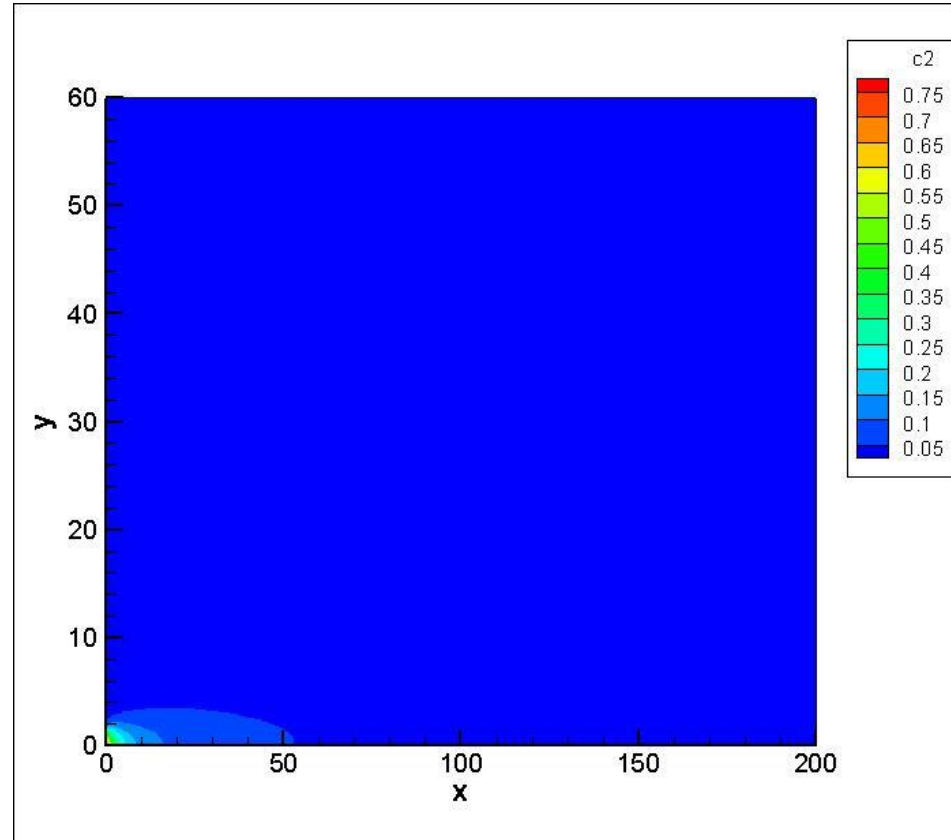
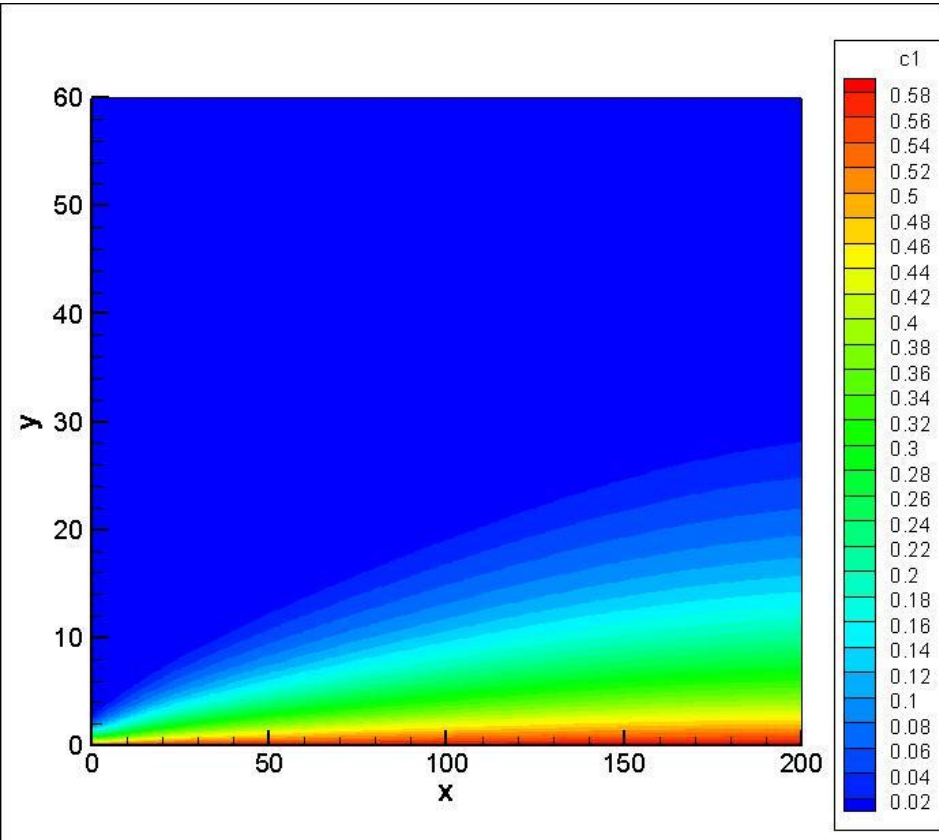
- Inflow profiles based on:  $u^* = \frac{h-h_{wall}^*}{h_{inf}^*-h_{wall}^*} = \frac{Z-Z_{wall}^*}{Z_{inf}^*-Z_{wall}^*}$
- Fuel injected at wall ( $Z_{wall}$ )
- Adiabatic wall conditions ( $dh/dy=0$ )
- Farfield conditions ( $u_{farfield} = 1$ )



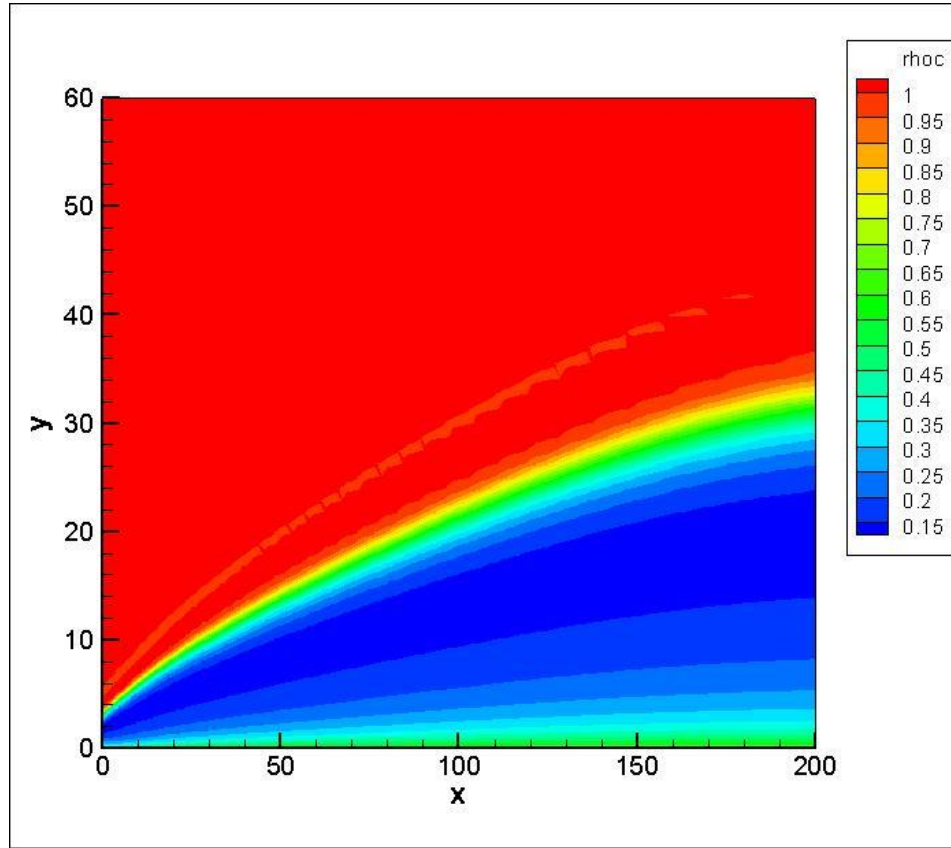
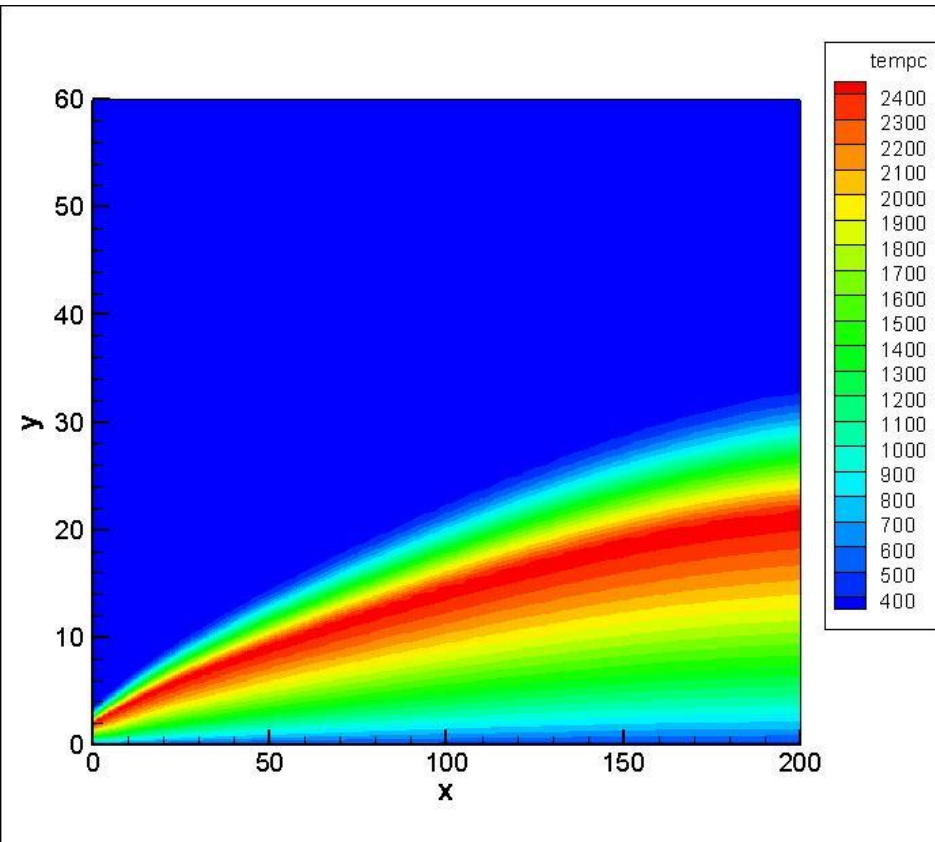
# Forced convection flame ( $\rho \neq 1$ )



# Forced convection flame ( $\rho \neq 1$ )



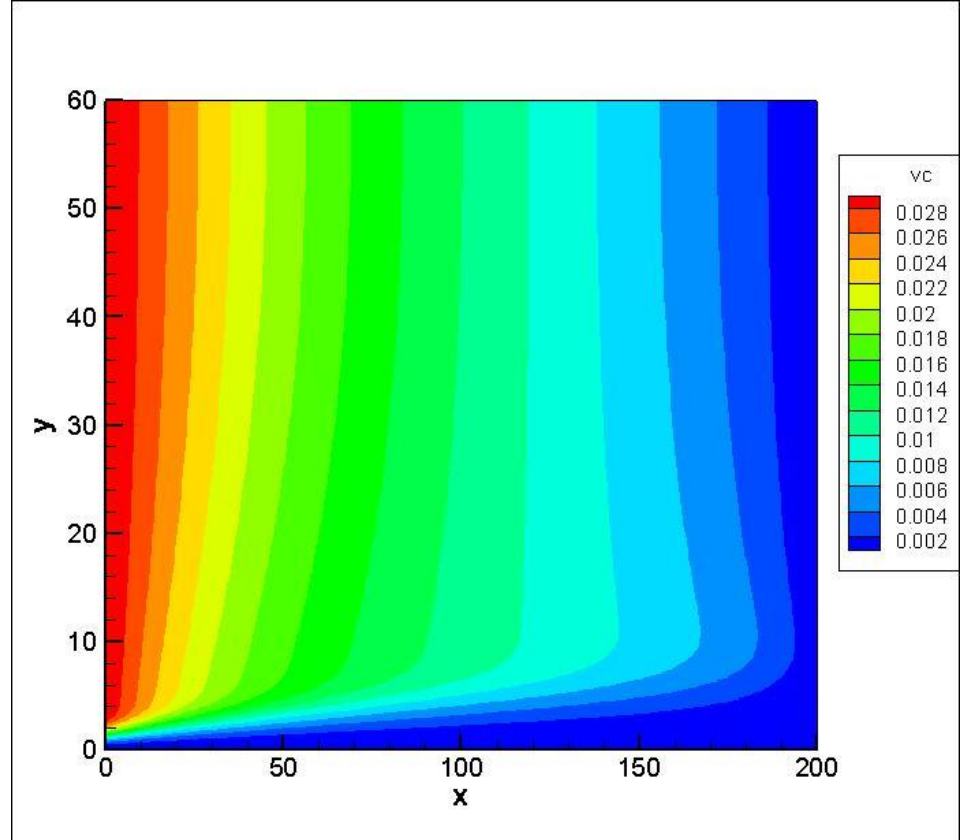
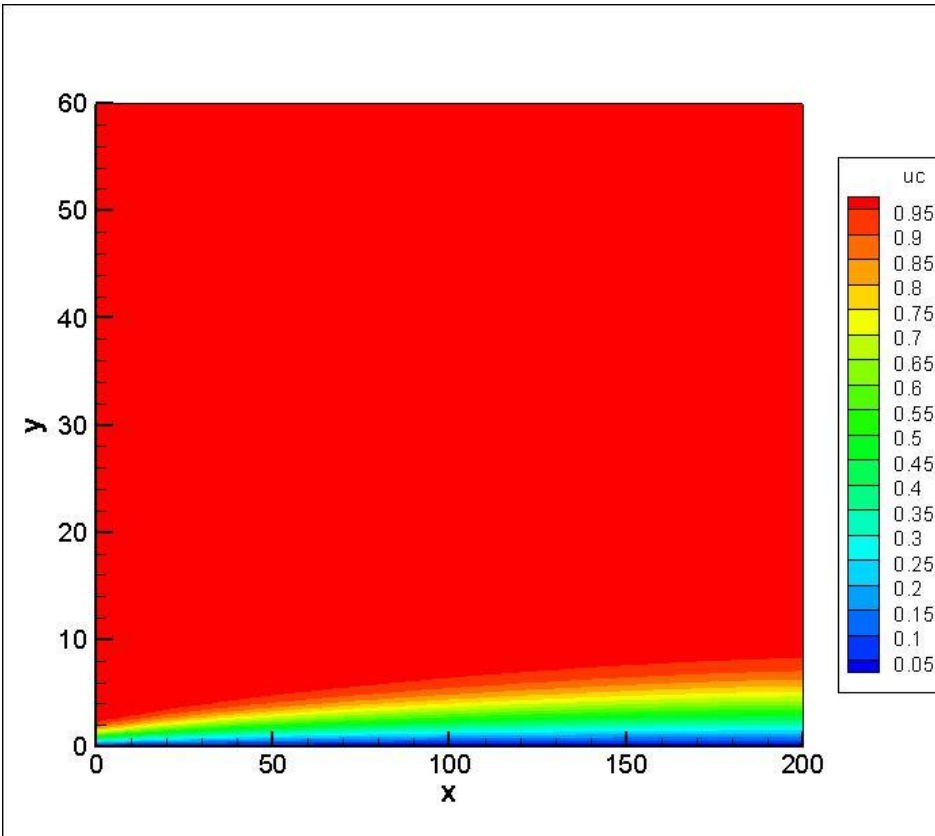
# Forced convection flame ( $\rho \neq 1$ )



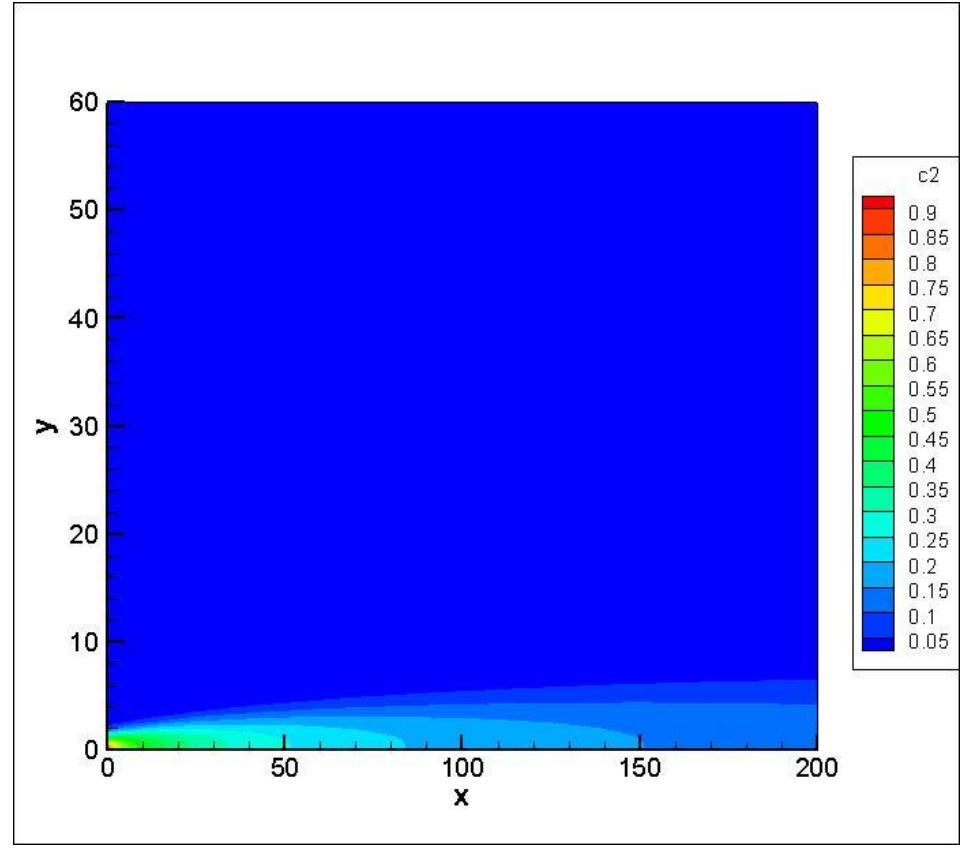
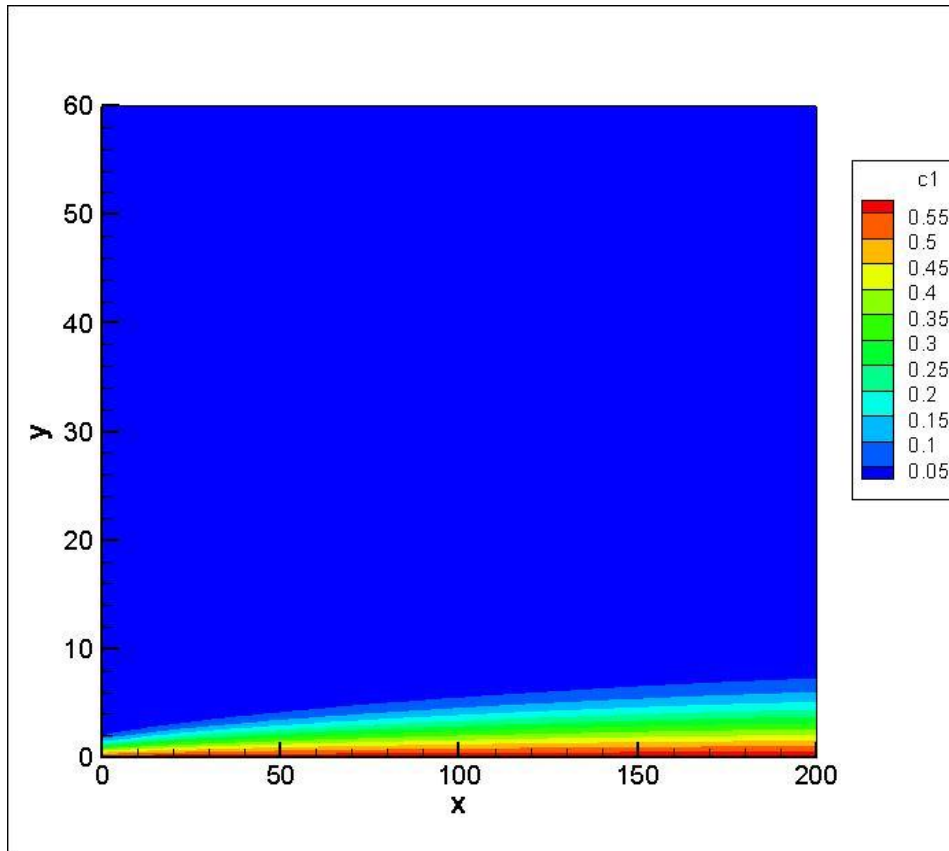
# Forced convection flame ( $\rho = 1$ )

- Inflow profiles based on:  $u^* = \frac{h-h_{wall}^*}{h_{inf}^*-h_{wall}^*} = \frac{Z-Z_{wall}^*}{Z_{inf}^*-Z_{wall}^*}$
- Fuel injected at wall ( $Z_{wall}$ )
- Adiabatic wall conditions ( $dh/dy=0$ )
- Farfield conditions ( $u_{farfield} = 1$ )

# Forced convection flame ( $\rho = 1$ )



# Forced convection flame ( $\rho = 1$ )



# Forced convection flame ( $\rho = 1$ )

