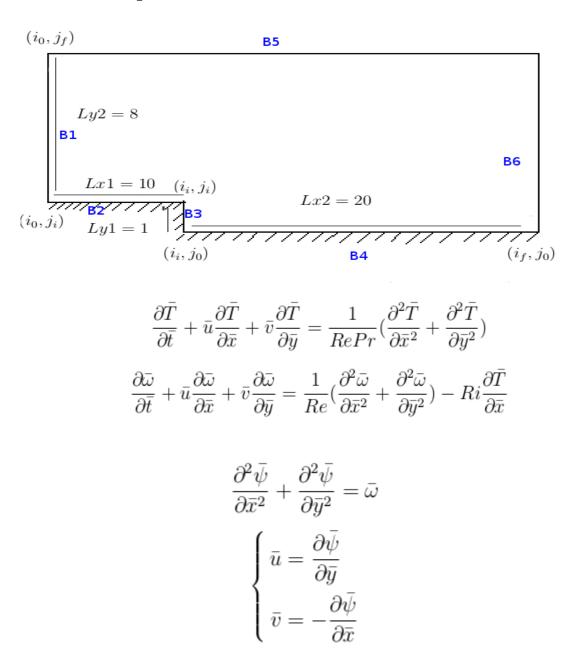
Géométrie et équations :



Maillage et schémas :

Maillage:

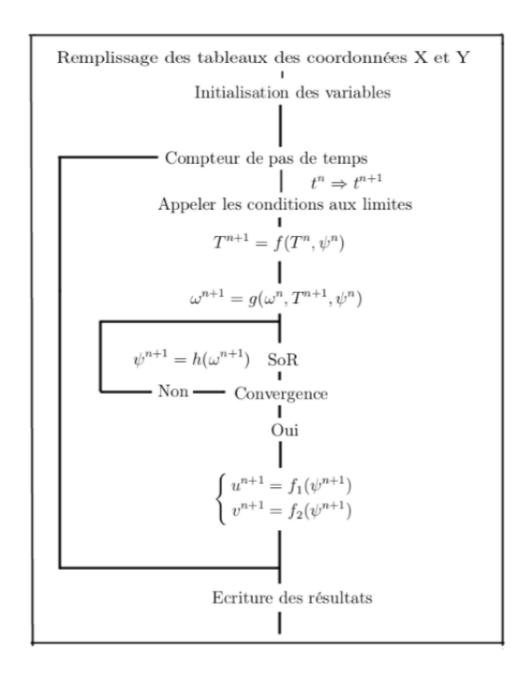
Nombre de nœuds suivant la hauteur de la marche = $10 \Rightarrow \sim 29000$ noeuds



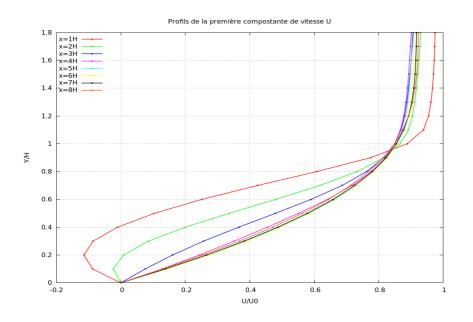
Paramètres numériques :

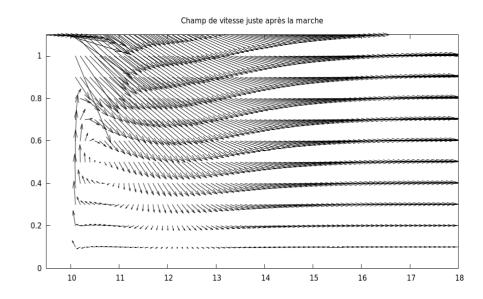
- Schéma de discrétisation centré d'ordre 2
- Implicite en temps
- Schéma d'ordre 1 pour les CL en vorticité
- ADI pour T et vorticité
- SOR pour la fonction de courant
- Fo = $O(10^{-2}) = C$

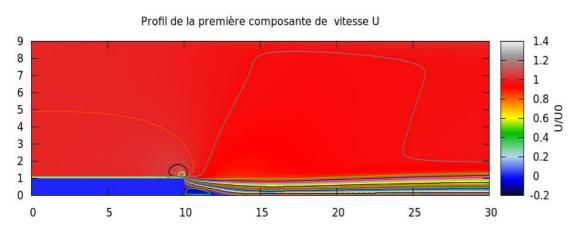
Structure du programme

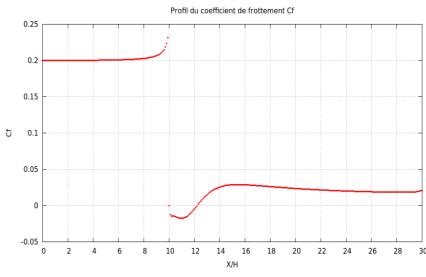


Validation: Dynamique

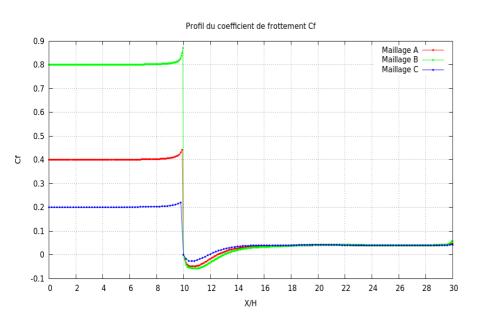


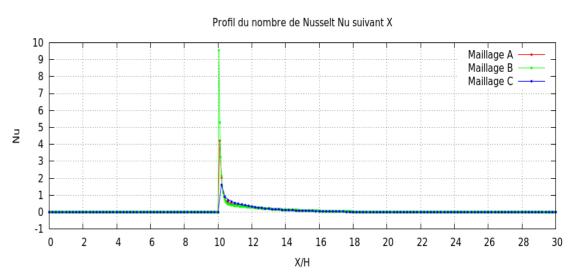


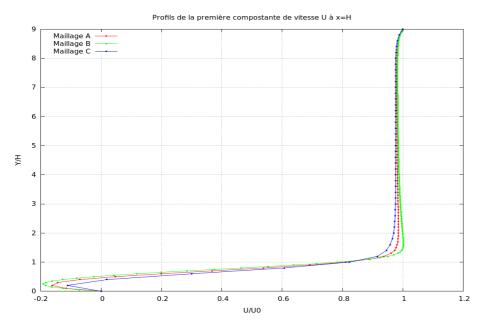


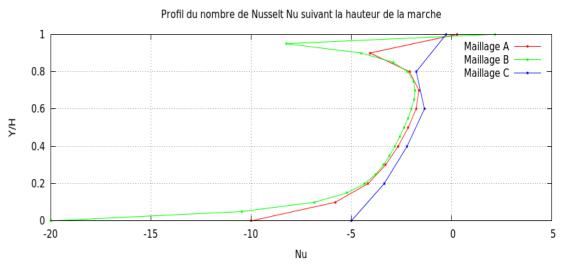


Validation : Convergence en maillage

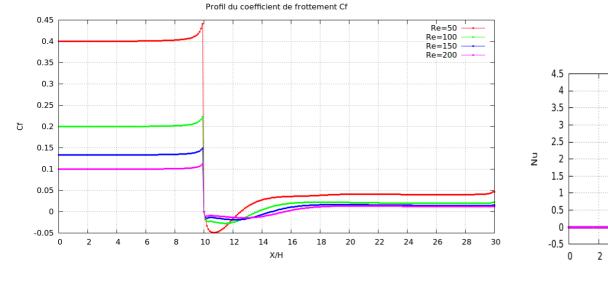


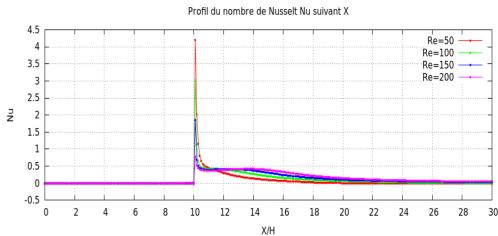


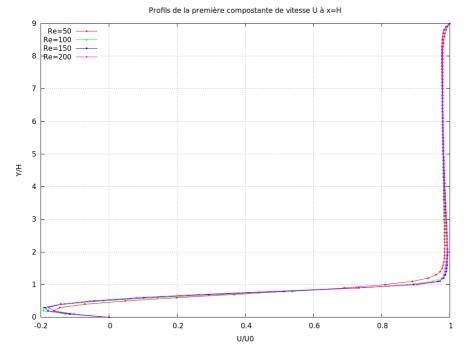


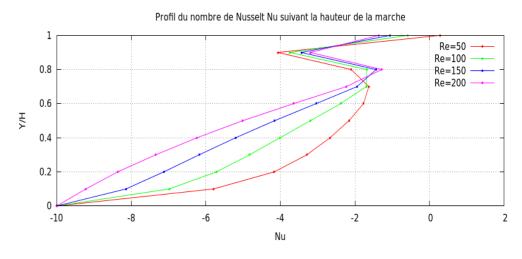


Influence du nombre de Reynolds (Ri=1)

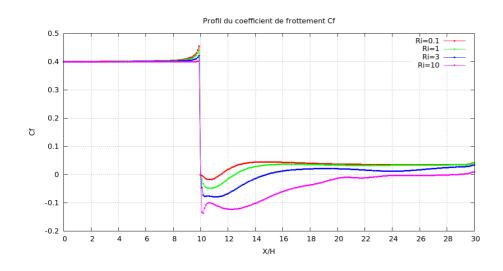


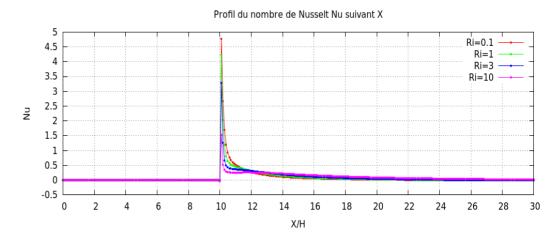


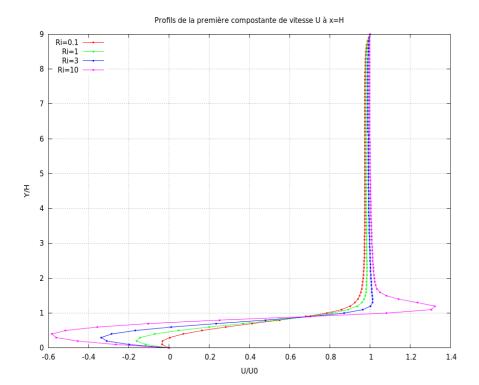


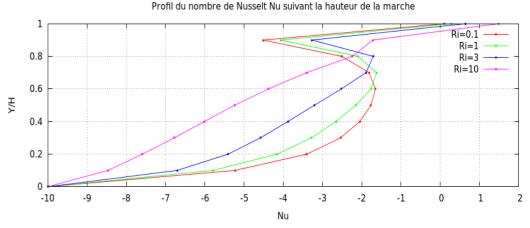


Influence du nombre de Richardson (Re=50) (I)

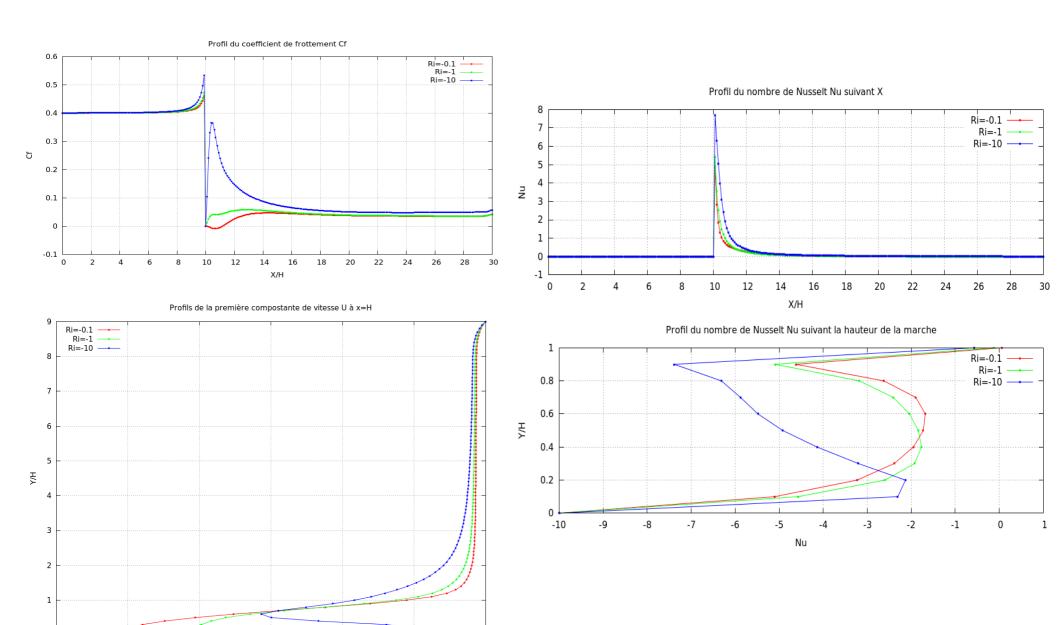








Influence du nombre de Richardson (Re=50) (II)



0.6

U/U0

-0.2