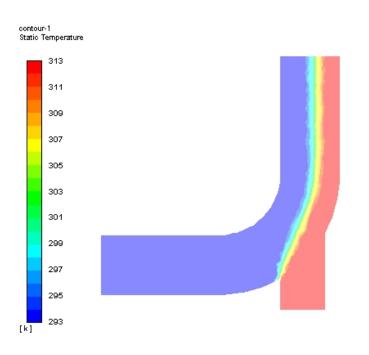
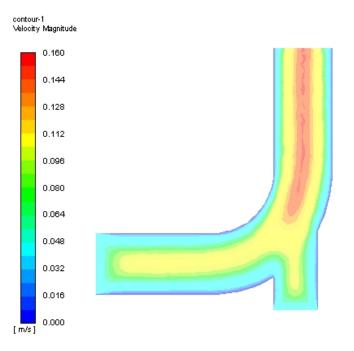
ACFD 2018 HW1 solution

Task 1 Temperature



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Velocity magnitude

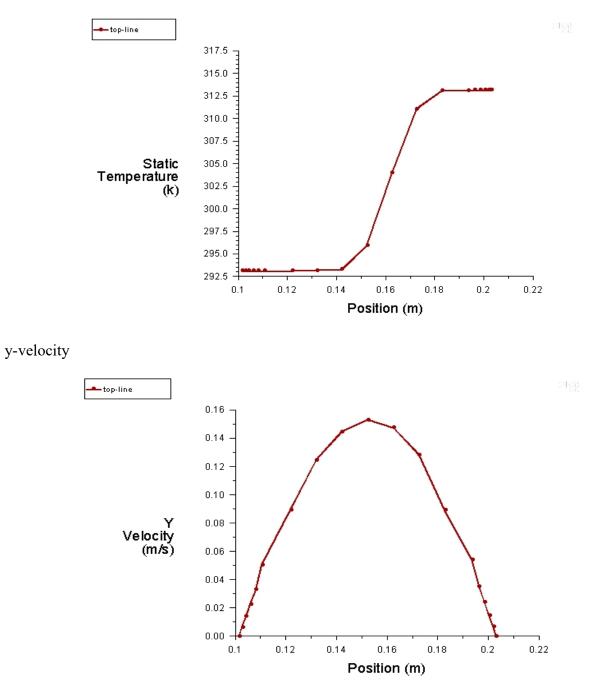


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Task 2

Temperature



Task 3

Large inlet $H_1 = 96846.8$ (unit in W) Small inlet $H_2 = 57891.7$ $H_1 + H_2 = 154783.5$ Outlet $H_3 = 154338.1$ Discrepancy between inlet and outlet energy flux is about 0.26 % Note: The results may vary slightly with the choice of mesh. For the reference, the mesh we used to produce the solution is shown below. (The plot of mesh is not a required deliverable.)

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