Final Project

Numerical Solution to The Diffusion Equation

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MECE 5397

Spring 2019

University of Houston

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Abstract

Mathematical Statement of Problem

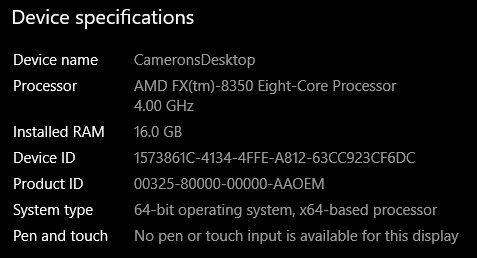
**Solve:**

**Over:**

**Given:**

Discretized Version of the Equations

Technical Specifications of the Computer Used



Results

– Specifications of parameters used in simulations

– Evaluate the effect of number of points used for discretization

– Perform grid convergence study

– Evaluate the effect of diffusive CFL\*

– Comparison of results with expected theoretical behavior

– Verify the order of spatial accuracy of discretization