

Assignment 3

Due Wednesday Sept 23.

Compare the results of the 3 methods from the previous assignment (Euler, Euler Predictor-Corrector, and Runge-Kutta) with that obtained using the Hamming's modified predictor-corrector method. Using the program INTDHPCG.F

Graph your results and quantify them. By this I mean determine how many steps each method takes to reach a certain level of accuracy. How many steps to get to 10^{-6} relative accuracy? to 10^{-9} ?, to 10^{-12} ?