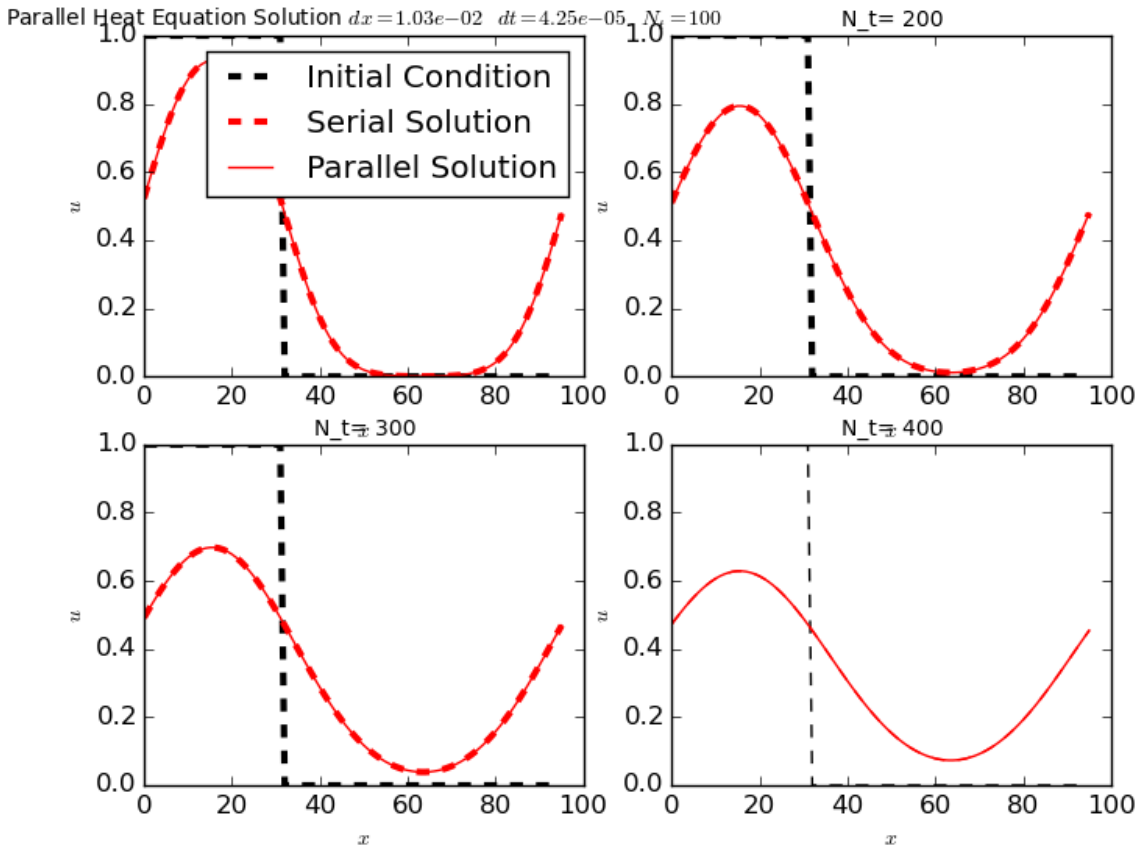


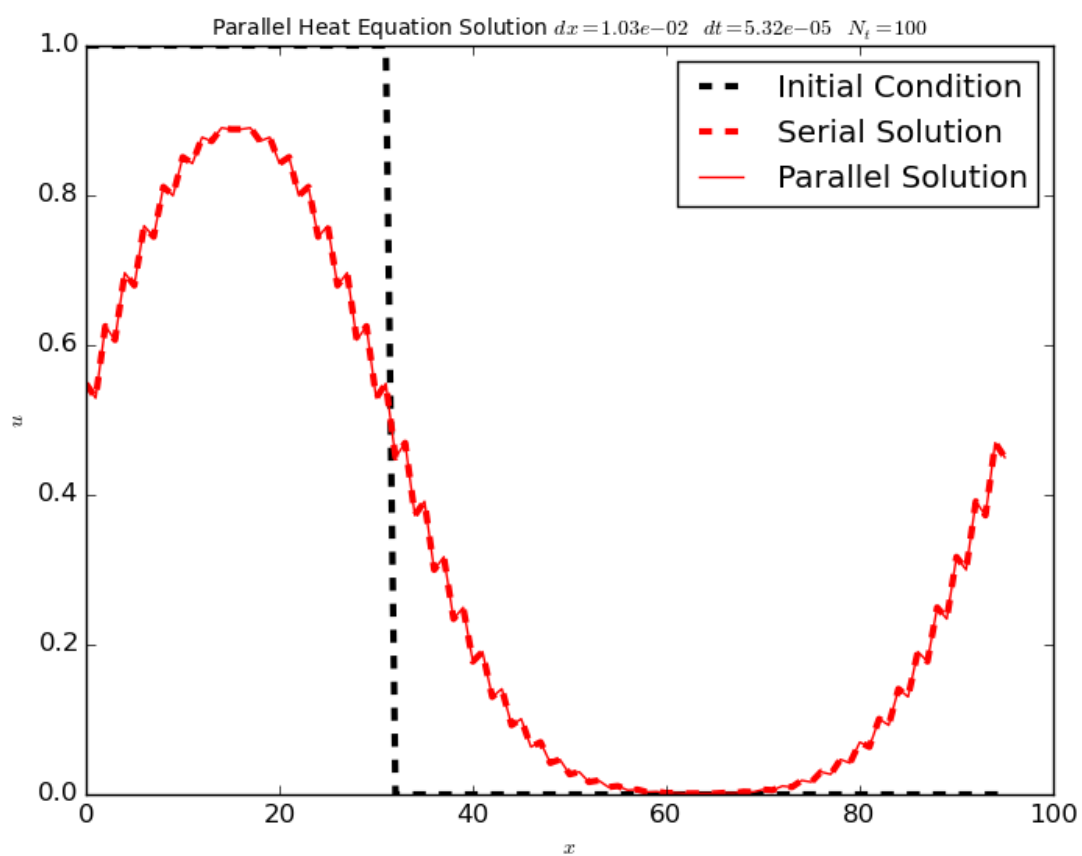
AMATH 483: HW 4 Report

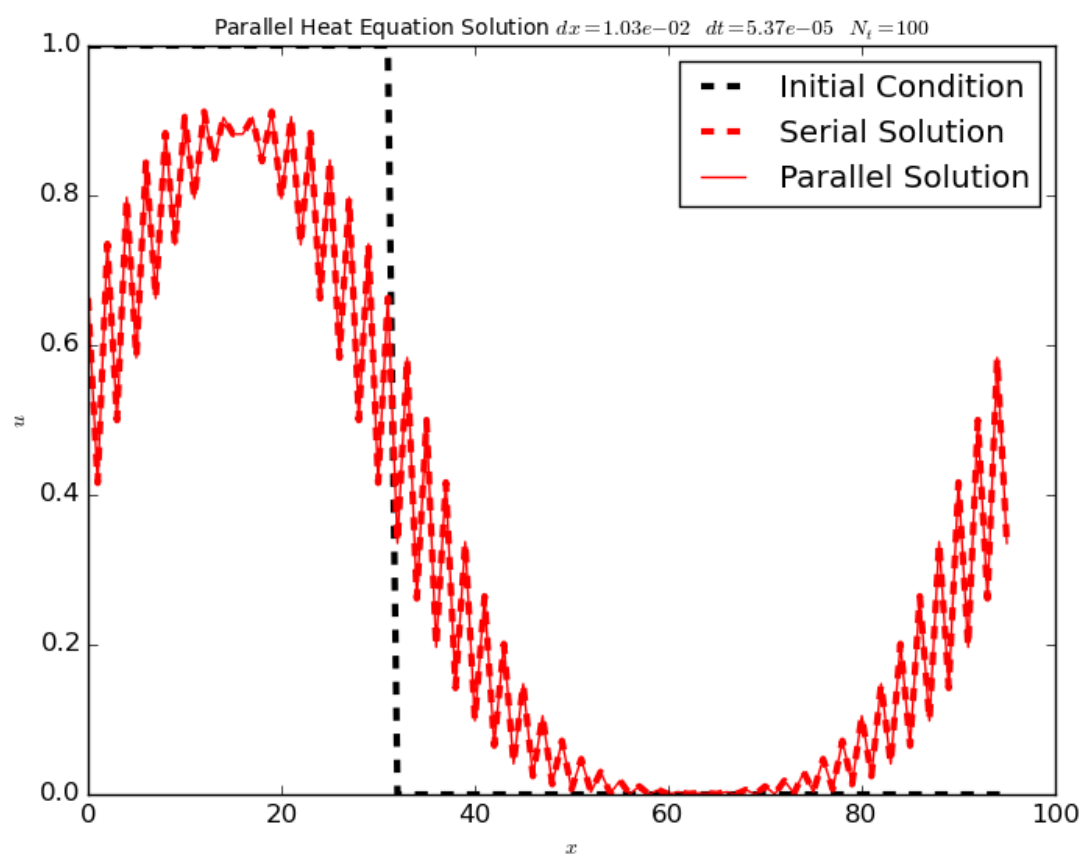
sotoba @ uw .edu (Snigdha Kanuparth)

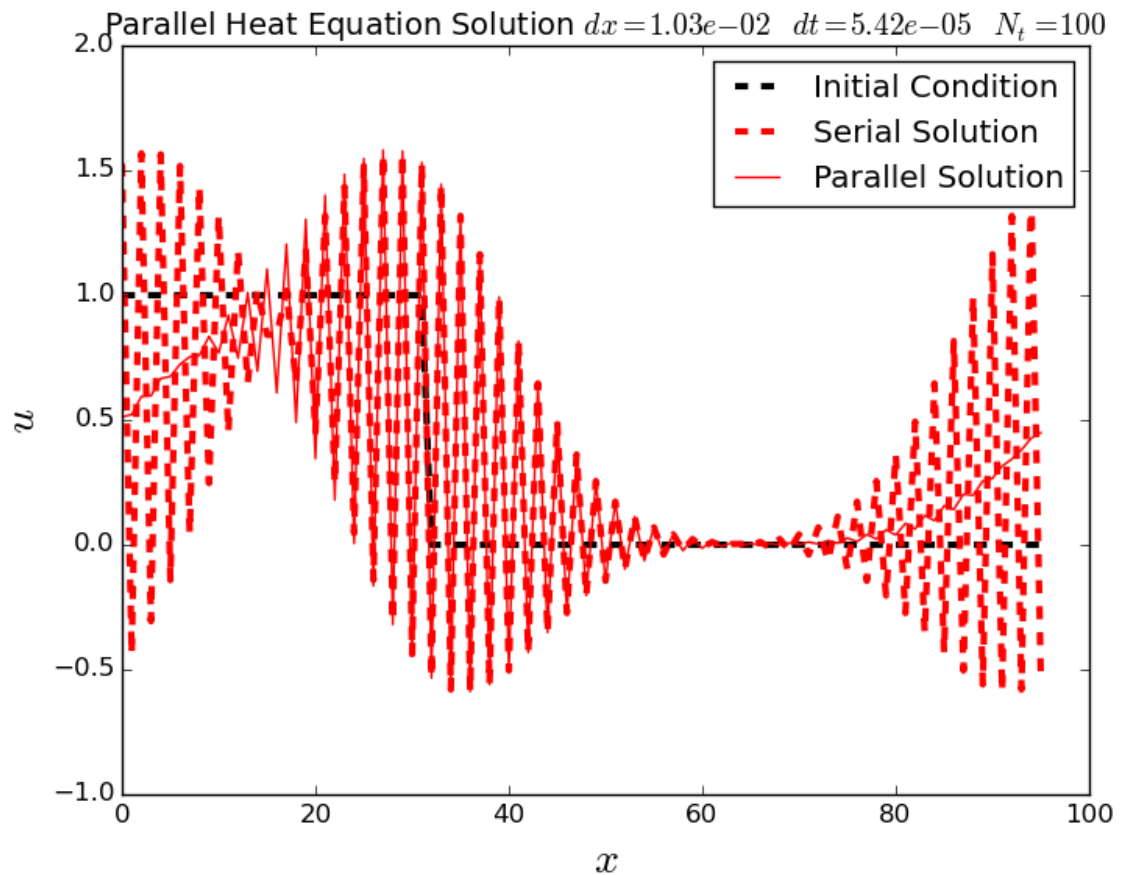
1. This is technically a single plot with multiple subplots. It makes it easier to see the data this way.



2. As you increase N_t , given that previous increases of the timestep increased the value of the solution minima, and decreased the solution value of the maxima, you would expect to see similar effects here, except with unstable oscillations.







3. I primarily work with image processing in my research (MRI scans of the fetal brain,) and there is a lot of motion artifact that we use a type of parallel slice motion intersection correction to try and minimize. This class gave me a better understanding of the logic behind the implementation of that algorithm and will most likely use it to optimize registration and segmentation methods to label brain tissues in a comprehensive study on fetal alcohol syndrome. (Our group is in part trying to understand whether or not the pathology of FAS/FASD can be diagnosed in utero using MR techniques.)