Statement of Karthik’s Contribution

Towards the beginning of this project, I dealt with the research into the differential equations concerning stellar evolution, which was later abandoned for the database method. I have kept up with the code on a regular basis (once a day) and edited anything that may have been problematic for Reese. I also wrote the colorFunction, connect (the generalized form that was applicable to any number of equally sized lists), alter (when it was still in use), and created the user interface. I created the original text readout and found out how to reverse the x-axis in the HR-diagram, which was then used by Reese to scale the y-axis logarithmically. I also figured out how to make the 0.1 and 0.5 MSun stars fade to white. I also did formatting of the main interface and the graphics within it. I did the first work with converting our lists into associations as well as accessing the data within the associations. I have commented the code wherever it seems to be lacking. I have written up and edited documents within our progress reports as well as written up and edited slides in the presentations. I have met with Dr. Carini to discuss the project and the differential equations (when they were still being considered). In the first half of the project time (3/4 into the semester), I spent about 3 hours per week researching the differential equations and doing small things with the code. In the weeks after that but two weeks before finals week, I spent about 4 hours per week looking over the progress of the project and editing/writing the code. In the week before finals week and finals week, I have spent about 10-12 hours per week writing/editing the code. Upon discussion with Reese concerning our contributions, he stated that he felt that we had made equal contributions to the project. This is not to say that we spent equal amounts of time on the project (he spent more time working on the project) but that we made nearly equal contributions. I personally feel that he made an overall greater contribution to the project than me, but he did express satisfaction with my ability to resolve problems that came up.

Karthik Boyareddygari