

Scientific Computing (PHYS4007 UNUK) (AUT1 21-22)

Project Feedback

Project title: N-body simulation

Student: Yassen Boychev

Quality of Programming: 90

Clean, precise and very understandable coding with well thought out development strategy and structure. A fantastic piece of work. Well done.

Scientific content: 80

The science content was both well developed and interesting. Careful consideration of energy conservation was used to control simulation accuracy throughout. Clear comparisons were also made to observational data. On figure 7 you could perhaps have explored the two dropouts further, are these just issues with the comparison data? (Would guess so as the orbital tracks are likely to be smooth). The actual positional error is then likely to be much smaller (and currently not visible as plotted).

Quality of Figures: 80

The figures supplied are excellent and very clear. Captions are precise and well written in a sound scientific style. There are some minor issues with labelling and display of data (fig 7 mentioned above for instance) but overall this figure set is very well constructed. Try to avoid using exponential notation on figures (1e-13 for instance).

Assessors: [REDACTED], [REDACTED]