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CS 115

Professor Hayes

Assignment #1 – Train Unloading Dock

The amount of trains that get served within a 7200 hour period is around 720 trains, which matches the estimated trains served, given that trains arrive at the station as a Poisson process on average once every 10 hours. The average time that a train spends in the system is 6 hours. A train spends about 1.8 hours in queue. Other statistics are printed out at the end of the simulation (shown in the figure below). For this assignment, I was unable to gather the percentage of time the loading dock is busy, idle, and hogged out accurately. I was also unable to create a histogram of the number of times a train hogged out. However, my simulation is complete and accurate and takes into account that trains hog out more than once.



