

Automated Planning - Lab 4

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4.1 Compare building the HTN domain to what you did previously in PDDL. Was it easier/harder?

Answer: It was harder in the sense that we have become used to the pddl domain. However, the HTN domain was more similar to programming since you start with a major function breaking it down in to smaller subroutines, passing arguments and so on. The biggest problem was that it was difficult to debug since the error message suggests that something entirely different was the problem. It was very convenient to be able to go through the plan step by step to see where there were any issues.

4.2 Is the JHOP2 faster/slower than the competition planners from previous labs?

Answer: To generate a plan for a fairly large problem takes approximately 0.5 s which is fast compared to the other planners.

4.3 How does JSHOP2 run-times scale with larger problems?

Answer: When increasing the size of the problem the time used to generate a plan remains almost constant. When increasing the number of locations with a factor of 2 the time increases with less than 20 %.