How to run:

I ran my codes on my laptop in a 64-bit Linux system with the "-solver chaff" option. In order to use chaff, the unzipped zchaff should be put in the blackbox directory(I have put the zchaff in the folder 'myCodes').

The file named "domain.pddl" is the domain file I wrote for star puzzle, "star4.pddl", "star5.pddl" and "star6.pddl" are problem files respectively for the problem with 4, 5 and 6 disks.

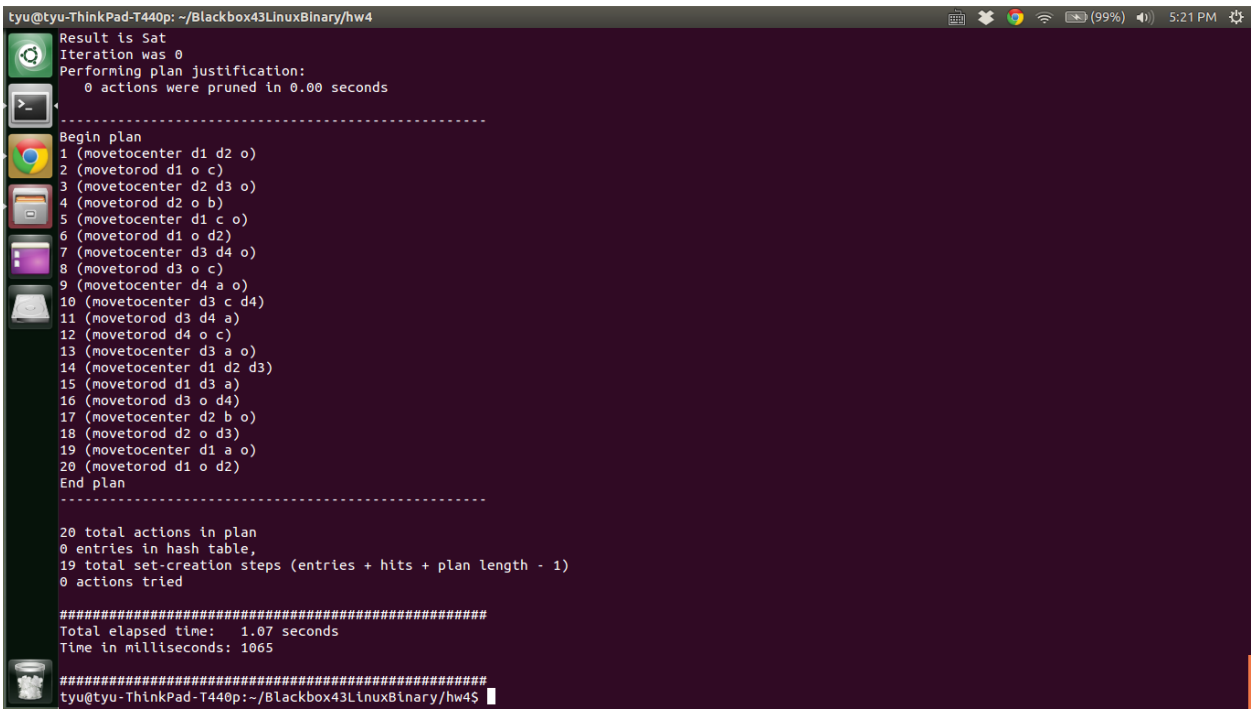
Put the 4 pddl files and zchaff all in the root directory of blackbox, then try the following command:

blackbox -o domain.pddl -f star4.pddl -solver chaff

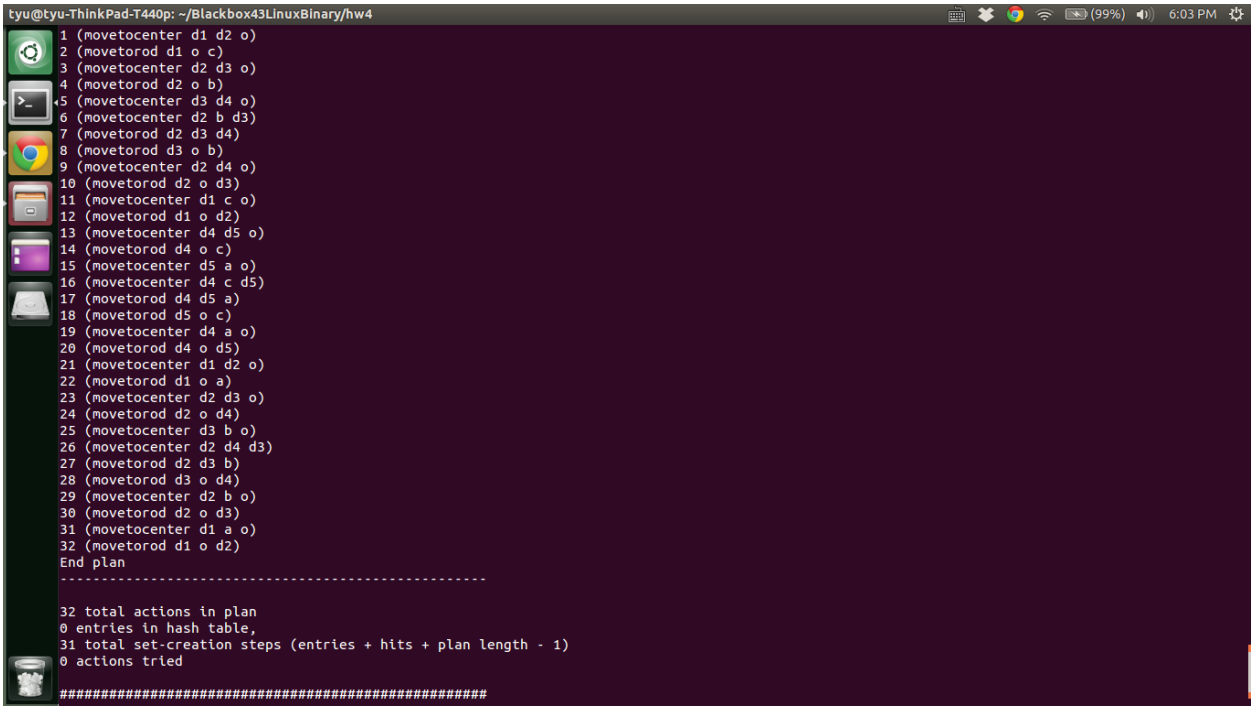
You will get the planning result for 4 disks star puzzle problem. And then replace "star4.pddl" with "star5.pddl" and "star6.pddl" respectively; you can get the planning results for 5 and 6 disks problems.

The results screenshot when I run my codes on my laptop are showed below:

4 disks:



5 disks:



List of resource used:

1. a nice pddl tutorial which helped me a lot:

   http://www.cs.rochester.edu/~kautz/satplan/blackbox/patrik-_haslum-writing-pddl.html

2. a short but helpful introduction with example code for pddl:

   http://www.cs.toronto.edu/~sheila/2542/w09/A1/introtopddl2.pdf

3. the zchaff website:

   https://www.princeton.edu/~chaff/zchaff.html

Aggie Code of honor

An Aggie does not lie, cheat or steal or tolerate those who do.