

## Task 3

### Extra Credit Problem

#### ExtraCredit\_Facts.txt (S1)

(A ttt1)

(B ttt1)

(C ttt1)

(preconds

(ppp1 B C)

(ppp2 A)

(ppp2 B)

(ppp3 C)

)

(effects

(eee1 A C)

(eee2 C)

(eee3 C)

(eee3 A)

)

### ExtraCredit\_Ops.txt

(operator

aaa

(params

(<b> ttt1) (<c> ttt1))

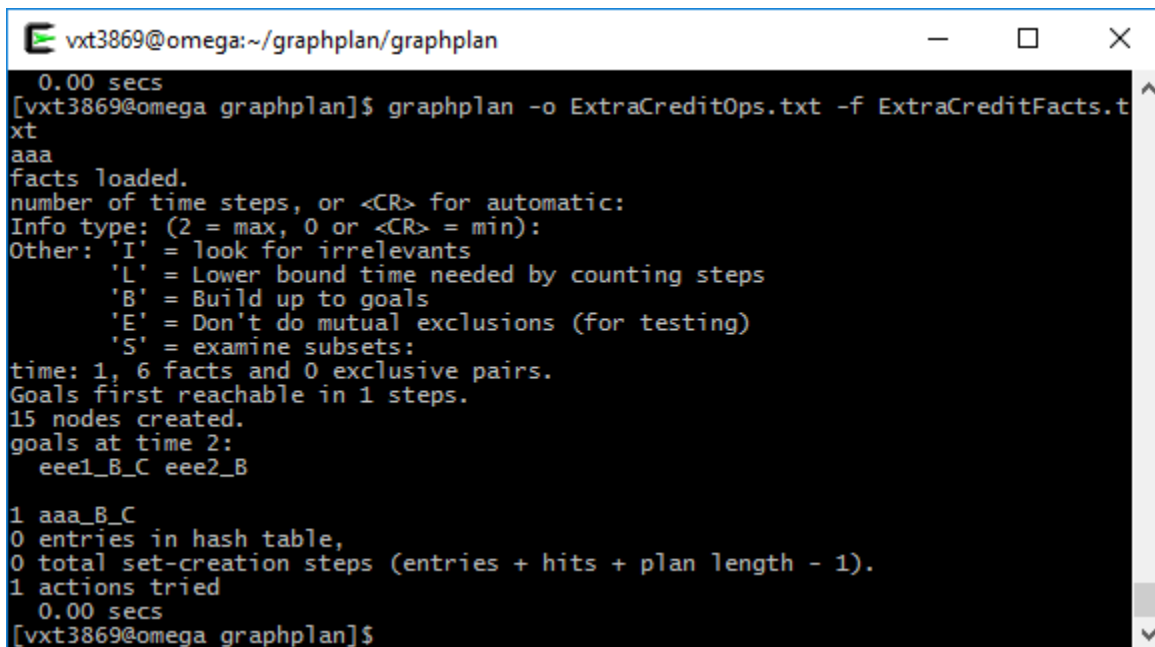
(preconds

(ppp1 <b> <c>) (ppp2 <b>) (ppp3 <c>))

(effects

(eee1 <b> <c>) (eee2 <b>) (del eee2 <c>) (del eee3 <c>)))

### Output

A terminal window titled 'vxt3869@omega:~/graphplan/graphplan' showing the output of the 'graphplan' command. The output includes timing information (0.00 secs), a list of facts loaded, a description of the number of time steps (2 = max, 0 or <CR> = min), and a list of other options ('I' = look for irrelevants, 'L' = Lower bound time needed by counting steps, 'B' = Build up to goals, 'E' = Don't do mutual exclusions (for testing), 'S' = examine subsets). It also shows the time taken (1, 6 facts and 0 exclusive pairs), the goals first reachable in 1 steps, 15 nodes created, goals at time 2 (eee1\_B\_C, eee2\_B), 1 action tried (aaa\_B\_C), 0 entries in hash table, 0 total set-creation steps (entries + hits + plan length - 1), and 1 action tried (0.00 secs). The terminal window has a standard Linux-style title bar with minimize, maximize, and close buttons.

```
vxt3869@omega:~/graphplan/graphplan
0.00 secs
[vxt3869@omega graphplan]$ graphplan -o ExtraCreditOps.txt -f ExtraCreditFacts.txt
xt
aaa
facts loaded.
number of time steps, or <CR> for automatic:
Info type: (2 = max, 0 or <CR> = min):
Other: 'I' = look for irrelevants
       'L' = Lower bound time needed by counting steps
       'B' = Build up to goals
       'E' = Don't do mutual exclusions (for testing)
       'S' = examine subsets:
time: 1, 6 facts and 0 exclusive pairs.
Goals first reachable in 1 steps.
15 nodes created.
goals at time 2:
  eee1_B_C eee2_B

1 aaa_B_C
0 entries in hash table,
0 total set-creation steps (entries + hits + plan length - 1).
1 actions tried
0.00 secs
[vxt3869@omega graphplan]$
```

After executing changes will be in effects of S1, 'eee2 C' & 'eee3 C' will get deleted and 'eee1 B C' & 'eee2 B' will be added. Objects and preconds will be same.

(effects

(eee1 A C) (eee1 B C) (eee2 B) (eee3 A))