

Plan Validation Report

VAL

May 5, 2022

1 Domain and Problem

Domain: inspection015

Problem: inspect-object

2 Plan: plan15-04-02

2.1 Plan

Plan size: 11

Time	Action
1:	(move waypoint1 waypoint2)
2:	(turn waypoint2 object1 waypoint2)
3:	(inspect waypoint2 object1)
4:	(turn waypoint2 object2 object1)
5:	(inspect waypoint2 object2)
6:	(turn waypoint2 waypoint4 object2)
7:	(move waypoint2 waypoint4)
8:	(turn waypoint4 object3 waypoint4)
9:	(inspect waypoint4 object3)
10:	(turn waypoint4 waypoint3 object3)
11:	(move waypoint4 waypoint3)

2.2 Plan To Validate

Time	Happening
1:	(move waypoint1 waypoint2)

- 2: (turn waypoint2 object1 waypoint2)
- 3: (inspect waypoint2 object1)
- 4: (turn waypoint2 object2 object1)
- 5: (inspect waypoint2 object2)
- 6: (turn waypoint2 waypoint4 object2)
- 7: (move waypoint2 waypoint4)
- 8: (turn waypoint4 object3 waypoint4)
- 9: (inspect waypoint4 object3)
- 10: (turn waypoint4 waypoint3 object3)
- 11: (move waypoint4 waypoint3)

2.3 Plan Validation

Time	Details
1:	Checking Happening... ...OK! Deleting (at-waypoint waypoint1) Adding (at-waypoint waypoint2) Adding (has-passed waypoint2) Adding (has-passed waypoint1)
2:	Checking Happening... ...OK! Deleting (rob-facing waypoint2) Adding (at-waypoint waypoint2) Adding (rob-facing object1)
3:	Checking Happening... ...OK! Adding (has-inspected object1)

- 4: Checking Happening... ...OK!
 Deleting (rob-facing object1)
 Adding (at-waypoint waypoint2)
 Adding (rob-facing object2)
- 5: Checking Happening... ...OK!
 Adding (has-inspected object2)
- 6: Checking Happening... ...OK!
 Deleting (rob-facing object2)
 Adding (at-waypoint waypoint2)
 Adding (rob-facing waypoint4)
- 7: Checking Happening... ...OK!
 Deleting (at-waypoint waypoint2)
 Adding (at-waypoint waypoint4)
 Adding (has-passed waypoint4)
 Adding (has-passed waypoint2)
- 8: Checking Happening... ...OK!
 Deleting (rob-facing waypoint4)
 Adding (at-waypoint waypoint4)
 Adding (rob-facing object3)
- 9: Checking Happening... ...OK!
 Adding (has-inspected object3)
- 10: Checking Happening... ...OK!
 Deleting (rob-facing object3)
 Adding (at-waypoint waypoint4)
 Adding (rob-facing waypoint3)
- 11: Checking Happening... ...OK!
 Deleting (at-waypoint waypoint4)
 Adding (at-waypoint waypoint3)
 Adding (has-passed waypoint3)
 Adding (has-passed waypoint4)

Plan executed successfully - checking goal

2.4 Gantt Chart

Gantt Chart Key

Row 1

No	Time	Action
1	1	(move waypoint1 waypoint2)
2	2	(turn waypoint2 object1 waypoint2)
3	3	(inspect waypoint2 object1)
4	4	(turn waypoint2 object2 object1)
5	5	(inspect waypoint2 object2)
6	6	(turn waypoint2 waypoint4 object2)
7	7	(move waypoint2 waypoint4)
8	8	(turn waypoint4 object3 waypoint4)
9	9	(inspect waypoint4 object3)
10	10	(turn waypoint4 waypoint3 object3)
11	11	(move waypoint4 waypoint3)

3 Successful Plans

Value	Plan
11	plan15-04-02 11



Figure 2.1: Gantt Chart