

Plan Validation Report

VAL

May 5, 2022

1 Domain and Problem

Domain: inspection013

Problem: inspect-object

2 Plan: plan13-04-02

2.1 Plan

Plan size: 9

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

2.2 Plan To Validate

Time	Happening
1:	(turn waypoint1 waypoint2)
2:	(move waypoint1 waypoint2)

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

2.3 Plan Validation

Time	Details
1:	Checking Happening... ...OK! Adding (at-waypoint waypoint1) Adding (rob-facing waypoint2)
2:	Checking Happening... ...OK! Deleting (at-waypoint waypoint1) Adding (at-waypoint waypoint2) Adding (has-passed waypoint1) Adding (has-passed waypoint2)
3:	Checking Happening... ...OK! Adding (has-inspected object1)
4:	Checking Happening... ...OK! Adding (has-inspected object2)
5:	Checking Happening... ...OK! Adding (at-waypoint waypoint2) Adding (rob-facing waypoint3)

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

Plan executed successfully - checking goal

2.4 Gantt Chart

Gantt Chart Key

Row 1

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



Figure 2.1: Gantt Chart

3 Successful Plans

Value	Plan
9	plan13-04-02 9