Plan Validation Report

VAL

May 5, 2022

1 Domain and Problem

Domain: inspection014
Problem: inspect-object

2 Plan: plan14-04-02

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 waypoint1)
Adding (has-passed waypoint2)

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 waypoint2)
Adding (has-passed waypoint4)

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 waypoint4)
Adding (has-passed waypoint3)

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	plan14-04-02 11

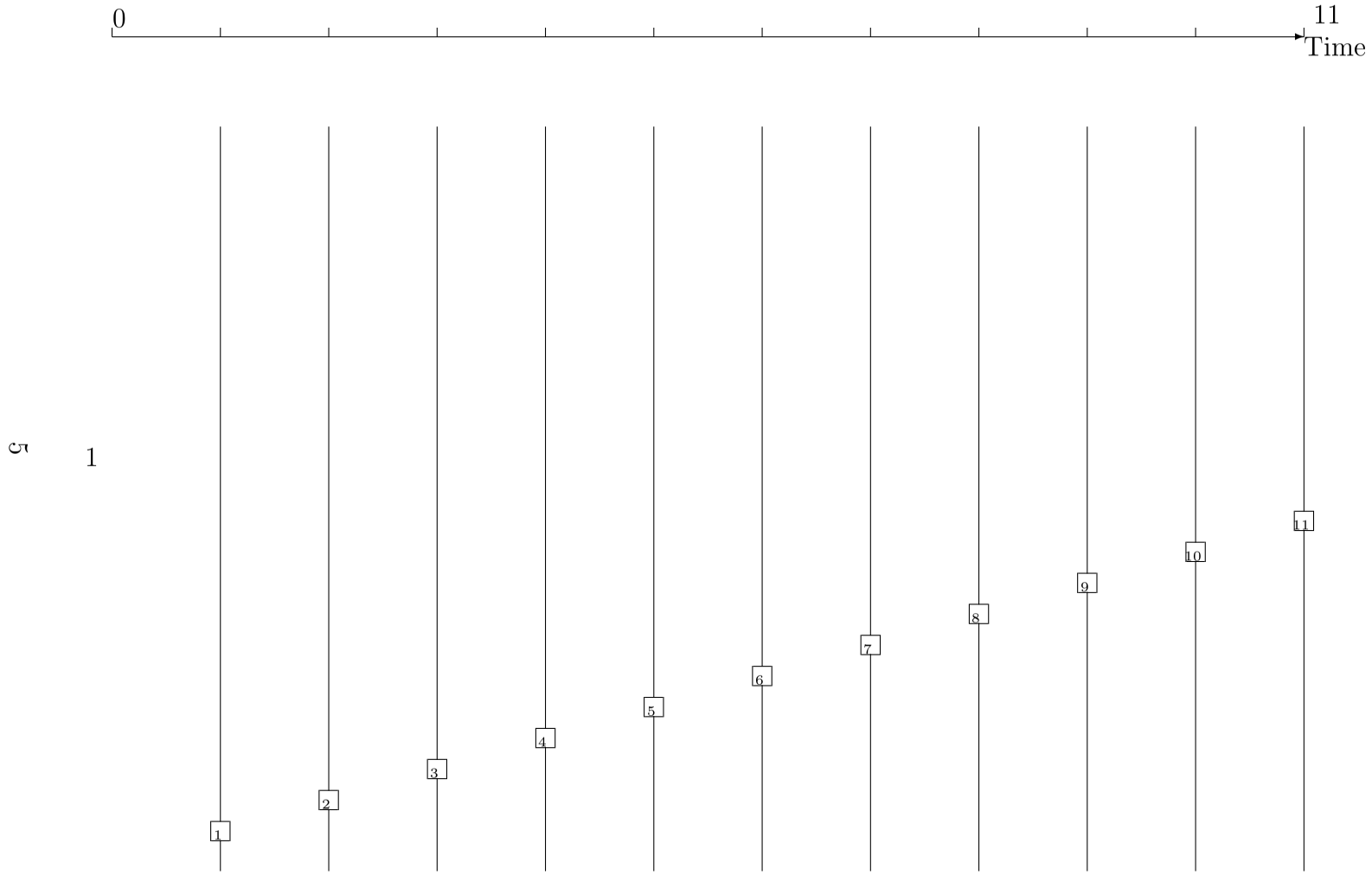

Figure 2.1: Gantt Chart