

ROSPLAN TURTLEBOT EXAMPLE

(:objects wp0 wp1 wp2 wp3 wp4 wp5 - waypoint kenny - robot (robot_at kenny wp0) (connected wp0 wp1) (connected wp0 wp2) (connected wp0 wp3) (connected wp0 wp4) (connected wp0 wp5) (connected wp1 wp0) (connected wp1 wp2) (connected wp1 wp4) (connected wp1 wp5) planner output example: (connected wp2 0.000: (goto_waypoint kenny wp0 wp0) [10.000] (connected wp2 wp1) 10.001: (goto_waypoint kenny wp0 wp1) [10.000] (connected wp2 wp4) 20.002: (goto_waypoint kenny wp1 wp2) [10.000] (connected wp2 wp5) 30.003: (goto_waypoint kenny wp2 wp3) [10.000] 40.004: (goto_waypoint kenny wp3 wp4) [10.000] (connected wp3 wp0) 50.005: (goto_waypoint kenny wp4 wp5) [10.000] (connected wp3 wp5) (connected wp4 wp0) complete_plan example: (connected wp4 wp1) === (connected wp4 wp2) edges: (connected wp5 wp0) (connected node_type: 2 edge_id: 0 wp5 wp1) node_id: 0 edge_name: "edge_0" (connected wp5 wp2) name: "plan start" signal_type: 0 (connected wp5 wp3) action: source_ids: [0] action_id: 0 sink_ids: [1] name: " duration lower bound: 0.0 (= (distance parameters: [] duration_upper_bound: 1.79769313486e+308 wp0 wp1) 2) duration: 0.0 (= (distance wp0 wp2) 1.45527)dispatch time: 0.0 edge_id: 1 (= (distance wp0 wp3) 3.67492)edges_out: [0, 2, 5, 8, 11, 14, 17] edge_name: "edge_1" edges_in: [] signal_type: 0 (= (distance wp0 wp4) 2) source_ids: [1] (= (distance wp0 wp5) 1.01366)node_type: 0 sink_ids: [2] (= (distance node id: 1 duration lower bound: 10.0 wp1 wp0) 2) name: "goto_waypoint_start" duration_upper_bound: 10.0 (= (distance wp1 wp2) 2) action: (= (distance wp1 wp4) 1.71505)action id: 0 edge_id: 2 name: "goto_waypoint" edge_name: "edge_2" (= (distance wp1 wp5) 3.01159)parameters: signal_type: 0 (= (distance wp2 wp0) 1.45527)source_ids: [0] key: "v" sink_ids: [2] (distance wp2 wp1) 2) value: "kenny" duration lower bound: 0.0 (= (distance wp2 wp4) 2.99654)duration_upper_bound: 1.79769313486e+308 (= (distance wp2 key: "from" wp5) 2) value: "wp0" edge_id: 3 (= (distance wp3 wp0) 3.67492)edge_name: "edge_3" (= (distance wp3 wp5) 4.6614)key: "to" signal_type: 0 value: "wp0" source_ids: [2] (= (distance wp4 wp0) 2) duration: 10.0 sink_ids: [3] (= (distance wp4 wp1) 1.71505)dispatch time: 0.0 duration lower bound: 0.0 (= (distance edges_out: [1] duration_upper_bound: 1.79769313486e+308 wp4 wp2) 2.99654) edges_in: [0] (= (distance wp5 wp0) 1.01366)edge_id: 4 (= (distance wp5 wp1) node_type: 1 edge_name: "edge_4" 3.01159) node_id: 2 signal_type: 0 (= (distance wp5 wp2) 2) name: "goto_waypoint_end" source_ids: [3] (= (distance wp5 wp3) 4.6614)sink_ids: [4] action id: 0 duration lower bound: 10.0 name: "goto waypoint" duration upper bound: 10.0 parameters: (:goal (and edge_id: 5 (visited wp0) key: "v" edge name: "edge 5" (visited wp1) value: "kenny" signal_type: 0 (visited wp2) source_ids: [0] (visited key: "from" sink_ids: [4] wp3) value: "wp0" duration lower bound: 0.0 (visited wp4) duration upper bound: 1.79769313486e+308 (visited wp5) key: "to" value: "wp0" edge_id: 6 duration: 10.0 edge name: "edge 6" dispatch time: 0.0 signal_type: 0 edges_out: [3] source_ids: [4] edges_in: [1, 2] sink_ids: [5] duration lower bound: 0.0 node_type: 0 duration upper bound: 1.79769313486e+308 node id: 3 name: "goto_waypoint_start" edge_id: 7 edge_name: "edge 7' action id: 1 signal type: 0

problem instance example:

(define (problem task)

(:domain turtlebot_demo)