

Plan Validation Report

VAL

April 28, 2017

1 Domain and Problem

Domain: generator_linear

Problem: run-generator2

2 Plan: solution

2.1 Plan

Plan size: 2

Time	Action
0:	(generate gen) [1000]
990:	(refuel gen tank1) [10]

2.2 Plan To Validate

Time	Happening
0:	(generate gen) - <i>start</i>
990:	<i>Invariant for</i> (generate gen)
990:	<i>Update of changing Primitive Numerical Expressions</i>
990:	(refuel gen tank1) - <i>start</i>
1000:	<i>Invariant for</i> (generate gen)
	<i>Invariant for</i> (refuel gen tank1)
1000:	<i>Update of changing Primitive Numerical Expressions</i>
1000:	(generate gen) - <i>end</i>

(refuel gen tank1) - *end*

2.3 Plan Validation

Time	Details
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0:	Checking Happening... ...OK!
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990:	Checking Happening... ...OK!
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990:	Checking Happening... ...OK! $(\text{fuellevel gen})(t) = -t + 990$ Updating (fuellevel gen) (990) by 0 for continuous update.
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990:	Checking Happening... ...OK! Deleting (available tank1) Adding (refueling gen)
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1000:	Checking Happening... ...OK!
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1000:	Checking Happening... ...OK! $(\text{fuellevel gen})(t) = t$ Updating (fuellevel gen) (0) by 10 for continuous update.
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1000:	Checking Happening... ...OK! Deleting (refueling gen) Adding (generator-ran)
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Plan executed successfully - checking goal

$(\text{generator-ran}) (\text{fuellevel gen}) = 10 (\text{capacity gen}) = 1000$

2.4 Primitive Numerical Expression Graphs

2.5 Gantt Chart

Gantt Chart Key

Row 1

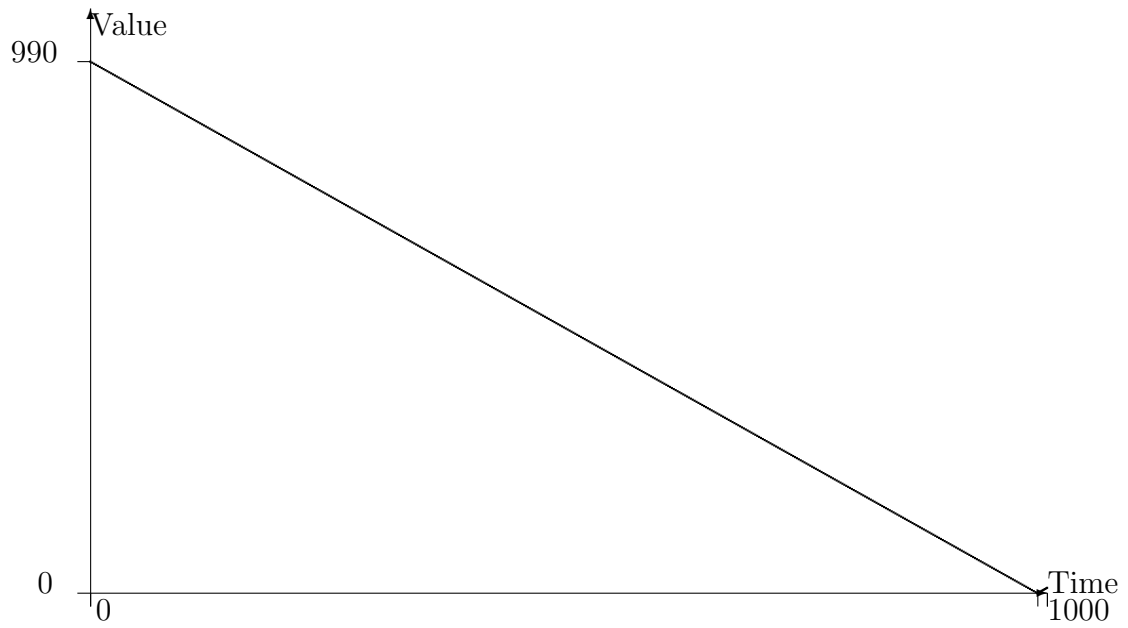


Figure 2.1: Graph of (fuellevel gen).

No	Time	Action
1	0	(generate gen) [1000]

Row 2

No	Time	Action
2	990	(refuel gen tank1) [10]

3 Successful Plans

Value	Plan
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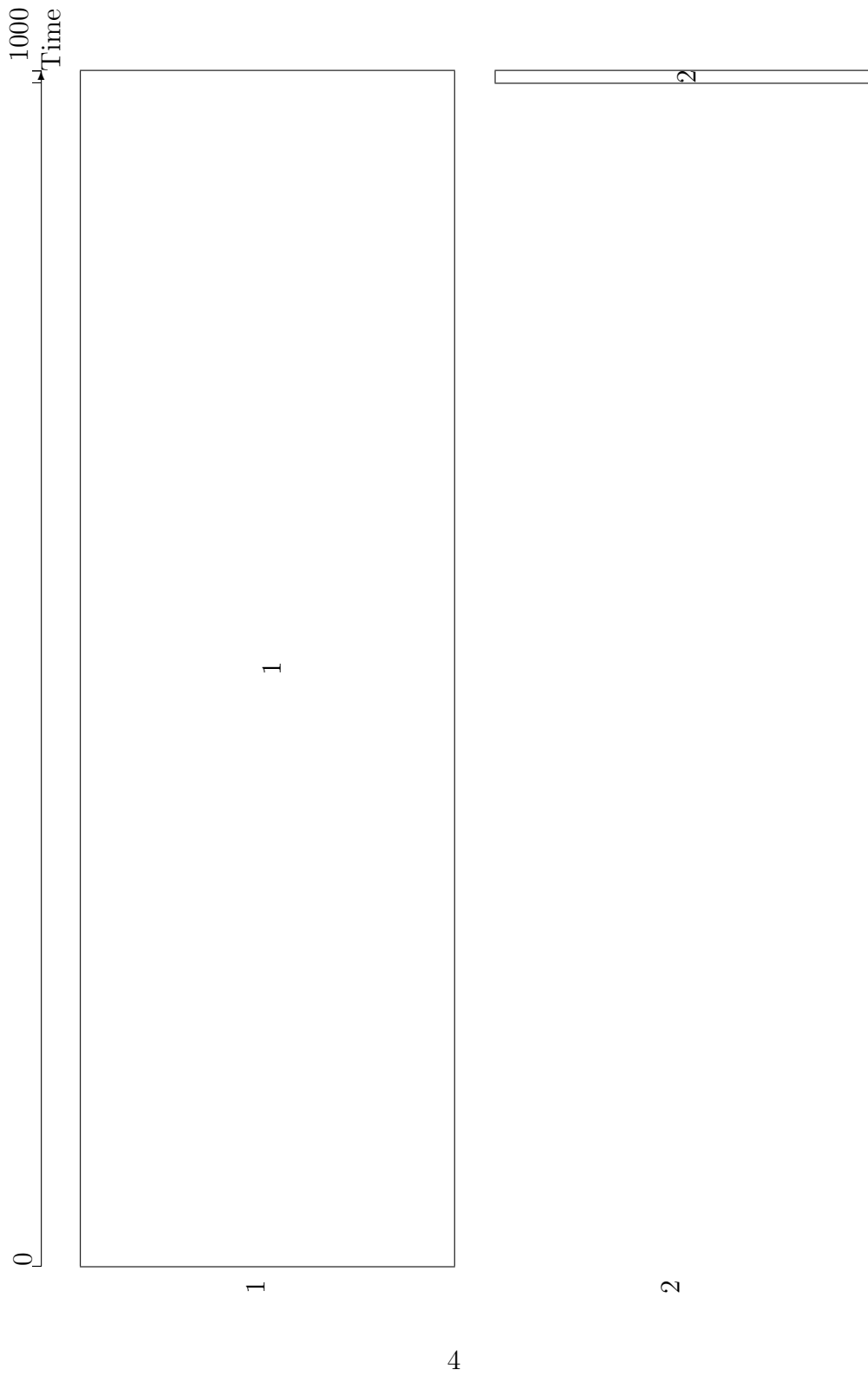


Figure 2.2: Gantt Chart