

Plan Validation Report

VAL

April 2, 2014

1 Domain and Problem

Domain: yandi

Problem: yandimine

2 Plan: `/home/nirlipo/- Sandboxes/RIO/repository/yandi/- classicalPlanningModel/PDDLmodel/- demo/p`

2.1 Plan

Plan size: 76

Time	Action
0:	(move loader_3 locloader_3 b_2_44) [3.63]
0:	(move loader_2 locloader_2 b_2_45) [5.35]
3.631:	(dig-block-b_2_44-build-1 loader_3) [265.98]
5.351:	(dig-block-b_2_45-build-1 loader_2) [407.26]
269.611:	(move loader_3 b_2_44 locloader_2) [3.63]
273.242:	(move loader_3 locloader_2 b_2_43) [3.98]
277.223:	(dig-block-b_2_43-build-0 loader_3) [473.08]
412.611:	(move loader_2 b_2_45 locloader_2) [5.35]
417.962:	(move loader_2 locloader_2 b_2_42) [3.42]
421.383:	(p-dig-block-b_2_42-build-1 loader_2) [93.123]
514.509:	(p-dig-block-b_2_42-build-0 loader_2) [127.223]
641.732:	(move loader_2 b_2_42 locloader_2) [3.42]
645.153:	(move loader_2 locloader_2 b_2_41) [3.94]

649.094: (dig-block-b_2_41-build-1 loader_2) [159.98]
 750.303: (move loader_3 b_2_43 locloader_2) [3.98]
 754.284: (move loader_3 locloader_2 b_2_39) [3.86]
 758.145: (dig-block-b_2_39-build-2 loader_3) [165.96]
 809.074: (move loader_2 b_2_41 locloader_2) [3.94]
 813.015: (move loader_2 locloader_2 b_2_40) [3.72]
 816.736: (dig-block-b_2_40-build-1 loader_2) [321.2]
 924.105: (move loader_3 b_2_39 locloader_2) [3.86]
 927.966: (move loader_3 locloader_2 b_2_37) [3.58]
 931.547: (p-dig-block-b_2_37-build-1 loader_3) [166.123]
 1097.67: (move loader_3 b_2_37 b_2_38) [1.19]
 1098.86: (dig-block-b_2_38-build-1 loader_3) [200]
 1137.94: (move loader_2 b_2_40 locloader_2) [3.72]
 1141.66: (move loader_2 locloader_2 b_2_37) [3.58]
 1145.24: (p-dig-block-b_2_37-build-0 loader_2) [51.054]
 1196.29: (move loader_2 b_2_37 locloader_2) [3.58]
 1199.87: (move loader_2 locloader_2 b_2_36) [3.46]
 1203.33: (dig-block-b_2_36-build-0 loader_2) [276.2]
 1298.86: (move loader_3 b_2_38 locloader_2) [3.56]
 1302.42: (move loader_3 locloader_2 b_2_35) [6.62]
 1309.04: (dig-block-b_2_35-build-2 loader_3) [289.98]
 1479.53: (move loader_2 b_2_36 locloader_2) [3.46]
 1482.99: (move loader_2 locloader_2 b_2_33) [6.51]
 1489.51: (p-dig-block-b_2_33-build-1 loader_2) [295.744]
 1489.51: (p-dig-block-b_2_33-build-0 loader_2) [222.251]
 1599.02: (move loader_3 b_2_35 locloader_2) [6.62]
 1605.64: (move loader_3 locloader_2 b_2_34) [6.57]
 1612.21: (dig-block-b_2_34-build-2 loader_3) [302.64]
 1785.25: (move loader_2 b_2_33 locloader_2) [6.51]
 1791.76: (move loader_2 locloader_2 b_2_32) [6.45]
 1798.21: (dig-block-b_2_32-build-2 loader_2) [200]
 1914.86: (move loader_3 b_2_34 locloader_2) [6.57]
 1921.43: (move loader_3 locloader_2 b_2_31) [6.25]
 1927.68: (dig-block-b_2_31-build-2 loader_3) [100]
 1998.21: (move loader_2 b_2_32 locloader_2) [6.45]
 2004.66: (move loader_2 locloader_2 b_2_19) [6.67]
 2011.33: (move loader_2 b_2_19 b_2_26) [7.45]
 2018.79: (move loader_2 b_2_26 b_2_19) [7.45]
 2026.24: (dig-block-b_2_19-build-0 loader_2) [985.26]
 2027.68: (move loader_3 b_2_31 b_2_30) [1.18]
 2028.86: (dig-block-b_2_30-build-2 loader_3) [100]

2128.86: (move loader_3 b_2_30 locloader_2) [6.02]
 2134.88: (move loader_3 locloader_2 b_2_18) [6.58]
 2141.46: (dig-block-b_2_18-build-1 loader_3) [799.88]
 2941.34: (move loader_3 b_2_18 b_2_29) [11.62]
 2952.96: (dig-block-b_2_29-build-2 loader_3) [100]
 3011.5: (move loader_2 b_2_19 b_2_26) [7.45]
 3018.95: (move loader_2 b_2_26 b_2_21) [6.27]
 3025.22: (p-dig-block-b_2_21-build-1 loader_2) [839.481]
 3025.22: (p-dig-block-b_2_21-build-0 loader_2) [11.22]
 3036.44: (move loader_2 b_2_21 b_2_26) [6.27]
 3042.71: (dig-block-b_2_26-build-2 loader_2) [160]
 3052.96: (move loader_3 b_2_29 locloader_2) [5.83]
 3058.79: (move loader_3 locloader_2 b_2_25) [7.37]
 3066.16: (dig-block-b_2_25-build-2 loader_3) [160]
 3202.71: (move loader_2 b_2_26 b_2_24) [1.78]
 3204.49: (dig-block-b_2_24-build-2 loader_2) [200]
 3226.16: (move loader_3 b_2_25 b_2_23) [1.84]
 3228: (dig-block-b_2_23-build-2 loader_3) [160]
 3388: (move loader_3 b_2_23 b_2_22) [2.96]
 3390.97: (dig-block-b_2_22-build-2 loader_3) [160]
 3404.49: (move loader_2 b_2_24 b_2_20) [4.82]
 3409.31: (dig-block-b_2_20-build-0 loader_2) [959.92]

2.2 Plan To Validate

Time	Happening
0:	(move loader_2 locloader_2 b_2_45) - <i>start</i> (move loader_3 locloader_3 b_2_44) - <i>start</i>
3.63:	<i>Invariant for</i> (move loader_2 locloader_2 b_2_45) <i>Invariant for</i> (move loader_3 locloader_3 b_2_44)
3.63:	(move loader_3 locloader_3 b_2_44) - <i>end</i>
3.631:	<i>Invariant for</i> (move loader_2 locloader_2 b_2_45)
3.631:	(dig-block-b_2_44-build-1 loader_3) - <i>start</i>
5.35:	<i>Invariant for</i> (move loader_2 locloader_2 b_2_45) <i>Invariant for</i> (dig-block-b_2_44-build-1 loader_3)
5.35:	<i>Update of changing Primitive Numerical Expressions</i>

5.35: (move loader₂ locloader₂ b_{2.45}) - *end*
5.351: *Invariant for* (dig-block-b_{2.44}-build-1 loader₃)
5.351: *Update of changing Primitive Numerical Expressions*
5.351: (dig-block-b_{2.45}-build-1 loader₂) - *start*

269.611: *Invariant for* (dig-block-b_{2.44}-build-1 loader₃)
Invariant for (dig-block-b_{2.45}-build-1 loader₂)
269.611: *Update of changing Primitive Numerical Expressions*
269.611: (dig-block-b_{2.44}-build-1 loader₃) - *end*
(move loader₃ b_{2.44} locloader₂) - *start*

273.241: *Invariant for* (dig-block-b_{2.45}-build-1 loader₂)
Invariant for (move loader₃ b_{2.44} locloader₂)
273.241: *Update of changing Primitive Numerical Expressions*
273.241: (move loader₃ b_{2.44} locloader₂) - *end*

273.242: *Invariant for* (dig-block-b_{2.45}-build-1 loader₂)
273.242: *Update of changing Primitive Numerical Expressions*
273.242: (move loader₃ locloader₂ b_{2.43}) - *start*

277.222: *Invariant for* (dig-block-b_{2.45}-build-1 loader₂)
Invariant for (move loader₃ locloader₂ b_{2.43})
277.222: *Update of changing Primitive Numerical Expressions*
277.222: (move loader₃ locloader₂ b_{2.43}) - *end*

277.223: *Invariant for* (dig-block-b_{2.45}-build-1 loader₂)
277.223: *Update of changing Primitive Numerical Expressions*
277.223: (dig-block-b_{2.43}-build-0 loader₃) - *start*

412.611: *Invariant for* (dig-block-b_{2.45}-build-1 loader₂)
Invariant for (dig-block-b_{2.43}-build-0 loader₃)
412.611: *Update of changing Primitive Numerical Expressions*
412.611: (dig-block-b_{2.45}-build-1 loader₂) - *end*
(move loader₂ b_{2.45} locloader₂) - *start*

417.961: *Invariant for* (dig-block-b_{2.43}-build-0 loader₃)
Invariant for (move loader₂ b_{2.45} locloader₂)
417.961: *Update of changing Primitive Numerical Expressions*
417.961: (move loader₂ b_{2.45} locloader₂) - *end*

417.962: *Invariant for (dig-block-b_2_43-build-0 loader_3)*
417.962: *Update of changing Primitive Numerical Expressions*
417.962: (move loader_2 locloader_2 b_2_42) - *start*

421.382: *Invariant for (dig-block-b_2_43-build-0 loader_3)*
Invariant for (move loader_2 locloader_2 b_2_42)
421.382: *Update of changing Primitive Numerical Expressions*
421.382: (move loader_2 locloader_2 b_2_42) - *end*

421.383: *Invariant for (dig-block-b_2_43-build-0 loader_3)*
421.383: *Update of changing Primitive Numerical Expressions*
421.383: (p-dig-block-b_2_42-build-1 loader_2) - *start*

514.506: *Invariant for (dig-block-b_2_43-build-0 loader_3)*
Invariant for (p-dig-block-b_2_42-build-1 loader_2)
514.506: *Update of changing Primitive Numerical Expressions*
514.506: (p-dig-block-b_2_42-build-1 loader_2) - *end*

514.509: *Invariant for (dig-block-b_2_43-build-0 loader_3)*
514.509: *Update of changing Primitive Numerical Expressions*
514.509: (p-dig-block-b_2_42-build-0 loader_2) - *start*

641.732: *Invariant for (dig-block-b_2_43-build-0 loader_3)*
Invariant for (p-dig-block-b_2_42-build-0 loader_2)
641.732: *Update of changing Primitive Numerical Expressions*
641.732: (p-dig-block-b_2_42-build-0 loader_2) - *end*
(move loader_2 b_2_42 locloader_2) - *start*

645.152: *Invariant for (dig-block-b_2_43-build-0 loader_3)*
Invariant for (move loader_2 b_2_42 locloader_2)
645.152: *Update of changing Primitive Numerical Expressions*
645.152: (move loader_2 b_2_42 locloader_2) - *end*

645.153: *Invariant for (dig-block-b_2_43-build-0 loader_3)*
645.153: *Update of changing Primitive Numerical Expressions*
645.153: (move loader_2 locloader_2 b_2_41) - *start*

649.093: *Invariant for (dig-block-b_2_43-build-0 loader_3)*
Invariant for (move loader_2 locloader_2 b_2_41)
649.093: *Update of changing Primitive Numerical Expressions*
649.093: (move loader_2 locloader_2 b_2_41) - *end*

649.094: *Invariant for (dig-block-b_2_43-build-0 loader_3)*
 649.094: *Update of changing Primitive Numerical Expressions*
 649.094: *(dig-block-b_2_41-build-1 loader_2) - start*

750.303: *Invariant for (dig-block-b_2_43-build-0 loader_3)*
 Invariant for (dig-block-b_2_41-build-1 loader_2)
 750.303: *Update of changing Primitive Numerical Expressions*
 750.303: *(dig-block-b_2_43-build-0 loader_3) - end*
 (move loader_3 b_2_43 locloader_2) - start

754.283: *Invariant for (dig-block-b_2_41-build-1 loader_2)*
 Invariant for (move loader_3 b_2_43 locloader_2)
 754.283: *Update of changing Primitive Numerical Expressions*
 754.283: *(move loader_3 b_2_43 locloader_2) - end*

754.284: *Invariant for (dig-block-b_2_41-build-1 loader_2)*
 754.284: *Update of changing Primitive Numerical Expressions*
 754.284: *(move loader_3 locloader_2 b_2_39) - start*

758.144: *Invariant for (dig-block-b_2_41-build-1 loader_2)*
 Invariant for (move loader_3 locloader_2 b_2_39)
 758.144: *Update of changing Primitive Numerical Expressions*
 758.144: *(move loader_3 locloader_2 b_2_39) - end*

758.145: *Invariant for (dig-block-b_2_41-build-1 loader_2)*
 758.145: *Update of changing Primitive Numerical Expressions*
 758.145: *(dig-block-b_2_39-build-2 loader_3) - start*

809.074: *Invariant for (dig-block-b_2_41-build-1 loader_2)*
 Invariant for (dig-block-b_2_39-build-2 loader_3)
 809.074: *Update of changing Primitive Numerical Expressions*
 809.074: *(move loader_2 b_2_41 locloader_2) - start*
 (dig-block-b_2_41-build-1 loader_2) - end

813.014: *Invariant for (dig-block-b_2_39-build-2 loader_3)*
 Invariant for (move loader_2 b_2_41 locloader_2)
 813.014: *Update of changing Primitive Numerical Expressions*
 813.014: *(move loader_2 b_2_41 locloader_2) - end*

813.015: *Invariant for (dig-block-b_2_39-build-2 loader_3)*

813.015: *Update of changing Primitive Numerical Expressions*
813.015: (move loader_2 locloader_2 b_2_40) - start

816.735: *Invariant for (dig-block-b_2_39-build-2 loader_3)*
Invariant for (move loader_2 locloader_2 b_2_40)
816.735: *Update of changing Primitive Numerical Expressions*
816.735: (move loader_2 locloader_2 b_2_40) - end

816.736: *Invariant for (dig-block-b_2_39-build-2 loader_3)*
816.736: *Update of changing Primitive Numerical Expressions*
816.736: (dig-block-b_2_40-build-1 loader_2) - start

924.105: *Invariant for (dig-block-b_2_39-build-2 loader_3)*
Invariant for (dig-block-b_2_40-build-1 loader_2)
924.105: *Update of changing Primitive Numerical Expressions*
924.105: (dig-block-b_2_39-build-2 loader_3) - end
 (move loader_3 b_2_39 locloader_2) - start

927.965: *Invariant for (dig-block-b_2_40-build-1 loader_2)*
Invariant for (move loader_3 b_2_39 locloader_2)
927.965: *Update of changing Primitive Numerical Expressions*
927.965: (move loader_3 b_2_39 locloader_2) - end

927.966: *Invariant for (dig-block-b_2_40-build-1 loader_2)*
927.966: *Update of changing Primitive Numerical Expressions*
927.966: (move loader_3 locloader_2 b_2_37) - start

931.546: *Invariant for (dig-block-b_2_40-build-1 loader_2)*
Invariant for (move loader_3 locloader_2 b_2_37)
931.546: *Update of changing Primitive Numerical Expressions*
931.546: (move loader_3 locloader_2 b_2_37) - end

931.547: *Invariant for (dig-block-b_2_40-build-1 loader_2)*
931.547: *Update of changing Primitive Numerical Expressions*
931.547: (p-dig-block-b_2_37-build-1 loader_3) - start

1097.67: *Invariant for (dig-block-b_2_40-build-1 loader_2)*
Invariant for (p-dig-block-b_2_37-build-1 loader_3)
1097.67: *Update of changing Primitive Numerical Expressions*
1097.67: (p-dig-block-b_2_37-build-1 loader_3) - end
 (move loader_3 b_2_37 b_2_38) - start

1098.86: *Invariant for (dig-block-b_2_40-build-1 loader_2)*
 Invariant for (move loader_3 b_2_37 b_2_38)
 1098.86: *Update of changing Primitive Numerical Expressions*
 1098.86: *(move loader_3 b_2_37 b_2_38) - end*

1098.86: *Invariant for (dig-block-b_2_40-build-1 loader_2)*
 1098.86: *Update of changing Primitive Numerical Expressions*
 1098.86: *(dig-block-b_2_38-build-1 loader_3) - start*

1137.94: *Invariant for (dig-block-b_2_40-build-1 loader_2)*
 Invariant for (dig-block-b_2_38-build-1 loader_3)
 1137.94: *Update of changing Primitive Numerical Expressions*
 1137.94: *(dig-block-b_2_40-build-1 loader_2) - end*
 (move loader_2 b_2_40 locloader_2) - start

1141.66: *Invariant for (dig-block-b_2_38-build-1 loader_3)*
 Invariant for (move loader_2 b_2_40 locloader_2)
 1141.66: *Update of changing Primitive Numerical Expressions*
 1141.66: *(move loader_2 b_2_40 locloader_2) - end*

1141.66: *Invariant for (dig-block-b_2_38-build-1 loader_3)*
 1141.66: *Update of changing Primitive Numerical Expressions*
 1141.66: *(move loader_2 locloader_2 b_2_37) - start*

1145.24: *Invariant for (dig-block-b_2_38-build-1 loader_3)*
 Invariant for (move loader_2 locloader_2 b_2_37)
 1145.24: *Update of changing Primitive Numerical Expressions*
 1145.24: *(move loader_2 locloader_2 b_2_37) - end*

1145.24: *Invariant for (dig-block-b_2_38-build-1 loader_3)*
 1145.24: *Update of changing Primitive Numerical Expressions*
 1145.24: *(p-dig-block-b_2_37-build-0 loader_2) - start*

1196.29: *Invariant for (dig-block-b_2_38-build-1 loader_3)*
 Invariant for (p-dig-block-b_2_37-build-0 loader_2)
 1196.29: *Update of changing Primitive Numerical Expressions*
 1196.29: *(move loader_2 b_2_37 locloader_2) - start*
 (p-dig-block-b_2_37-build-0 loader_2) - end

1199.87: *Invariant for (dig-block-b_2_38-build-1 loader_3)*

Invariant for (move loader_2 b_2_37 locloader_2)
1199.87: *Update of changing Primitive Numerical Expressions*
1199.87: (move loader_2 b_2_37 locloader_2) - *end*

1199.87: *Invariant for (dig-block-b_2_38-build-1 loader_3)*
1199.87: *Update of changing Primitive Numerical Expressions*
1199.87: (move loader_2 locloader_2 b_2_36) - *start*

1203.33: *Invariant for (dig-block-b_2_38-build-1 loader_3)*
Invariant for (move loader_2 locloader_2 b_2_36)
1203.33: *Update of changing Primitive Numerical Expressions*
1203.33: (move loader_2 locloader_2 b_2_36) - *end*

1203.33: *Invariant for (dig-block-b_2_38-build-1 loader_3)*
1203.33: *Update of changing Primitive Numerical Expressions*
1203.33: (dig-block-b_2_36-build-0 loader_2) - *start*

1298.86: *Invariant for (dig-block-b_2_38-build-1 loader_3)*
Invariant for (dig-block-b_2_36-build-0 loader_2)
1298.86: *Update of changing Primitive Numerical Expressions*
1298.86: (dig-block-b_2_38-build-1 loader_3) - *end*
(move loader_3 b_2_38 locloader_2) - *start*

1302.42: *Invariant for (dig-block-b_2_36-build-0 loader_2)*
Invariant for (move loader_3 b_2_38 locloader_2)
1302.42: *Update of changing Primitive Numerical Expressions*
1302.42: (move loader_3 b_2_38 locloader_2) - *end*

1302.42: *Invariant for (dig-block-b_2_36-build-0 loader_2)*
1302.42: *Update of changing Primitive Numerical Expressions*
1302.42: (move loader_3 locloader_2 b_2_35) - *start*

1309.04: *Invariant for (dig-block-b_2_36-build-0 loader_2)*
Invariant for (move loader_3 locloader_2 b_2_35)
1309.04: *Update of changing Primitive Numerical Expressions*
1309.04: (move loader_3 locloader_2 b_2_35) - *end*

1309.04: *Invariant for (dig-block-b_2_36-build-0 loader_2)*
1309.04: *Update of changing Primitive Numerical Expressions*
1309.04: (dig-block-b_2_35-build-2 loader_3) - *start*

1479.53: *Invariant for (dig-block-b_2_36-build-0 loader_2)*
 Invariant for (dig-block-b_2_35-build-2 loader_3)
 1479.53: *Update of changing Primitive Numerical Expressions*
 1479.53: (dig-block-b_2_36-build-0 loader_2) - *end*
 (move loader_2 b_2_36 locloader_2) - *start*

1482.99: *Invariant for (dig-block-b_2_35-build-2 loader_3)*
 Invariant for (move loader_2 b_2_36 locloader_2)
 1482.99: *Update of changing Primitive Numerical Expressions*
 1482.99: (move loader_2 b_2_36 locloader_2) - *end*

1482.99: *Invariant for (dig-block-b_2_35-build-2 loader_3)*
 1482.99: *Update of changing Primitive Numerical Expressions*
 1482.99: (move loader_2 locloader_2 b_2_33) - *start*

1489.5: *Invariant for (dig-block-b_2_35-build-2 loader_3)*
 Invariant for (move loader_2 locloader_2 b_2_33)
 1489.5: *Update of changing Primitive Numerical Expressions*
 1489.5: (move loader_2 locloader_2 b_2_33) - *end*

1489.51: *Invariant for (dig-block-b_2_35-build-2 loader_3)*
 1489.51: *Update of changing Primitive Numerical Expressions*
 1489.51: (p-dig-block-b_2_33-build-1 loader_2) - *start*

1489.51: *Invariant for (dig-block-b_2_35-build-2 loader_3)*
 Invariant for (p-dig-block-b_2_33-build-1 loader_2)
 1489.51: *Update of changing Primitive Numerical Expressions*
 1489.51: (p-dig-block-b_2_33-build-0 loader_2) - *start*

1599.02: *Invariant for (dig-block-b_2_35-build-2 loader_3)*
 Invariant for (p-dig-block-b_2_33-build-1 loader_2)
 Invariant for (p-dig-block-b_2_33-build-0 loader_2)
 1599.02: *Update of changing Primitive Numerical Expressions*
 1599.02: (dig-block-b_2_35-build-2 loader_3) - *end*
 (move loader_3 b_2_35 locloader_2) - *start*

1605.64: *Invariant for (p-dig-block-b_2_33-build-1 loader_2)*
 Invariant for (p-dig-block-b_2_33-build-0 loader_2)
 Invariant for (move loader_3 b_2_35 locloader_2)
 1605.64: *Update of changing Primitive Numerical Expressions*
 1605.64: (move loader_3 b_2_35 locloader_2) - *end*

1605.64: *Invariant for (p-dig-block-b_2_33-build-1 loader_2)*
Invariant for (p-dig-block-b_2_33-build-0 loader_2)
1605.64: *Update of changing Primitive Numerical Expressions*
1605.64: (move loader_3 locloader_2 b_2_34) - *start*

1612.21: *Invariant for (p-dig-block-b_2_33-build-1 loader_2)*
Invariant for (p-dig-block-b_2_33-build-0 loader_2)
Invariant for (move loader_3 locloader_2 b_2_34)
1612.21: *Update of changing Primitive Numerical Expressions*
1612.21: (move loader_3 locloader_2 b_2_34) - *end*

1612.21: *Invariant for (p-dig-block-b_2_33-build-1 loader_2)*
Invariant for (p-dig-block-b_2_33-build-0 loader_2)
1612.21: *Update of changing Primitive Numerical Expressions*
1612.21: (dig-block-b_2_34-build-2 loader_3) - *start*

1711.76: *Invariant for (p-dig-block-b_2_33-build-1 loader_2)*
Invariant for (p-dig-block-b_2_33-build-0 loader_2)
Invariant for (dig-block-b_2_34-build-2 loader_3)
1711.76: *Update of changing Primitive Numerical Expressions*
1711.76: (p-dig-block-b_2_33-build-0 loader_2) - *end*

1785.25: *Invariant for (p-dig-block-b_2_33-build-1 loader_2)*
Invariant for (dig-block-b_2_34-build-2 loader_3)
1785.25: *Update of changing Primitive Numerical Expressions*
1785.25: (p-dig-block-b_2_33-build-1 loader_2) - *end*
(move loader_2 b_2_33 locloader_2) - *start*

1791.76: *Invariant for (dig-block-b_2_34-build-2 loader_3)*
Invariant for (move loader_2 b_2_33 locloader_2)
1791.76: *Update of changing Primitive Numerical Expressions*
1791.76: (move loader_2 b_2_33 locloader_2) - *end*

1791.76: *Invariant for (dig-block-b_2_34-build-2 loader_3)*
1791.76: *Update of changing Primitive Numerical Expressions*
1791.76: (move loader_2 locloader_2 b_2_32) - *start*

1798.21: *Invariant for (dig-block-b_2_34-build-2 loader_3)*
Invariant for (move loader_2 locloader_2 b_2_32)
1798.21: *Update of changing Primitive Numerical Expressions*

1798.21: (move loader₂ locloader₂ b_{2.32}) - *end*
1798.21: *Invariant for* (dig-block-b_{2.34}-build-2 loader₃)
1798.21: *Update of changing Primitive Numerical Expressions*
1798.21: (dig-block-b_{2.32}-build-2 loader₂) - *start*

1914.86: *Invariant for* (dig-block-b_{2.34}-build-2 loader₃)
Invariant for (dig-block-b_{2.32}-build-2 loader₂)
1914.86: *Update of changing Primitive Numerical Expressions*
1914.86: (dig-block-b_{2.34}-build-2 loader₃) - *end*
(move loader₃ b_{2.34} locloader₂) - *start*

1921.42: *Invariant for* (dig-block-b_{2.32}-build-2 loader₂)
Invariant for (move loader₃ b_{2.34} locloader₂)
1921.42: *Update of changing Primitive Numerical Expressions*
1921.42: (move loader₃ b_{2.34} locloader₂) - *end*

1921.43: *Invariant for* (dig-block-b_{2.32}-build-2 loader₂)
1921.43: *Update of changing Primitive Numerical Expressions*
1921.43: (move loader₃ locloader₂ b_{2.31}) - *start*

1927.68: *Invariant for* (dig-block-b_{2.32}-build-2 loader₂)
Invariant for (move loader₃ locloader₂ b_{2.31})
1927.68: *Update of changing Primitive Numerical Expressions*
1927.68: (move loader₃ locloader₂ b_{2.31}) - *end*

1927.68: *Invariant for* (dig-block-b_{2.32}-build-2 loader₂)
1927.68: *Update of changing Primitive Numerical Expressions*
1927.68: (dig-block-b_{2.31}-build-2 loader₃) - *start*

1998.21: *Invariant for* (dig-block-b_{2.32}-build-2 loader₂)
Invariant for (dig-block-b_{2.31}-build-2 loader₃)
1998.21: *Update of changing Primitive Numerical Expressions*
1998.21: (dig-block-b_{2.32}-build-2 loader₂) - *end*
(move loader₂ b_{2.32} locloader₂) - *start*

2004.66: *Invariant for* (dig-block-b_{2.31}-build-2 loader₃)
Invariant for (move loader₂ b_{2.32} locloader₂)
2004.66: *Update of changing Primitive Numerical Expressions*
2004.66: (move loader₂ b_{2.32} locloader₂) - *end*

2004.66: *Invariant for (dig-block-b_2_31-build-2 loader_3)*
2004.66: *Update of changing Primitive Numerical Expressions*
2004.66: (move loader_2 locloader_2 b_2_19) - *start*

2011.33: *Invariant for (dig-block-b_2_31-build-2 loader_3)*
Invariant for (move loader_2 locloader_2 b_2_19)
2011.33: *Update of changing Primitive Numerical Expressions*
2011.33: (move loader_2 locloader_2 b_2_19) - *end*

2011.33: *Invariant for (dig-block-b_2_31-build-2 loader_3)*
2011.33: *Update of changing Primitive Numerical Expressions*
2011.33: (move loader_2 b_2_19 b_2_26) - *start*

2018.78: *Invariant for (dig-block-b_2_31-build-2 loader_3)*
Invariant for (move loader_2 b_2_19 b_2_26)
2018.78: *Update of changing Primitive Numerical Expressions*
2018.78: (move loader_2 b_2_19 b_2_26) - *end*

2018.79: *Invariant for (dig-block-b_2_31-build-2 loader_3)*
2018.79: *Update of changing Primitive Numerical Expressions*
2018.79: (move loader_2 b_2_26 b_2_19) - *start*

2026.24: *Invariant for (dig-block-b_2_31-build-2 loader_3)*
Invariant for (move loader_2 b_2_26 b_2_19)
2026.24: *Update of changing Primitive Numerical Expressions*
2026.24: (move loader_2 b_2_26 b_2_19) - *end*

2026.24: *Invariant for (dig-block-b_2_31-build-2 loader_3)*
2026.24: *Update of changing Primitive Numerical Expressions*
2026.24: (dig-block-b_2_19-build-0 loader_2) - *start*

2027.68: *Invariant for (dig-block-b_2_31-build-2 loader_3)*
Invariant for (dig-block-b_2_19-build-0 loader_2)
2027.68: *Update of changing Primitive Numerical Expressions*
2027.68: (dig-block-b_2_31-build-2 loader_3) - *end*
(move loader_3 b_2_31 b_2_30) - *start*

2028.86: *Invariant for (dig-block-b_2_19-build-0 loader_2)*
Invariant for (move loader_3 b_2_31 b_2_30)
2028.86: *Update of changing Primitive Numerical Expressions*
2028.86: (move loader_3 b_2_31 b_2_30) - *end*

2028.86: *Invariant for (dig-block-b_2_19-build-0 loader_2)*
 2028.86: *Update of changing Primitive Numerical Expressions*
 2028.86: *(dig-block-b_2_30-build-2 loader_3) - start*

2128.86: *Invariant for (dig-block-b_2_19-build-0 loader_2)*
 Invariant for (dig-block-b_2_30-build-2 loader_3)
 2128.86: *Update of changing Primitive Numerical Expressions*
 2128.86: *(dig-block-b_2_30-build-2 loader_3) - end*
 (move loader_3 b_2_30 locloader_2) - start

2134.88: *Invariant for (dig-block-b_2_19-build-0 loader_2)*
 Invariant for (move loader_3 b_2_30 locloader_2)
 2134.88: *Update of changing Primitive Numerical Expressions*
 2134.88: *(move loader_3 b_2_30 locloader_2) - end*

2134.88: *Invariant for (dig-block-b_2_19-build-0 loader_2)*
 2134.88: *Update of changing Primitive Numerical Expressions*
 2134.88: *(move loader_3 locloader_2 b_2_18) - start*

2141.46: *Invariant for (dig-block-b_2_19-build-0 loader_2)*
 Invariant for (move loader_3 locloader_2 b_2_18)
 2141.46: *Update of changing Primitive Numerical Expressions*
 2141.46: *(move loader_3 locloader_2 b_2_18) - end*

2141.46: *Invariant for (dig-block-b_2_19-build-0 loader_2)*
 2141.46: *Update of changing Primitive Numerical Expressions*
 2141.46: *(dig-block-b_2_18-build-1 loader_3) - start*

2941.34: *Invariant for (dig-block-b_2_19-build-0 loader_2)*
 Invariant for (dig-block-b_2_18-build-1 loader_3)
 2941.34: *Update of changing Primitive Numerical Expressions*
 2941.34: *(dig-block-b_2_18-build-1 loader_3) - end*
 (move loader_3 b_2_18 b_2_29) - start

2952.96: *Invariant for (dig-block-b_2_19-build-0 loader_2)*
 Invariant for (move loader_3 b_2_18 b_2_29)
 2952.96: *Update of changing Primitive Numerical Expressions*
 2952.96: *(move loader_3 b_2_18 b_2_29) - end*

2952.96: *Invariant for (dig-block-b_2_19-build-0 loader_2)*

2952.96: *Update of changing Primitive Numerical Expressions*
2952.96: (dig-block-b_2_29-build-2 loader_3) - start

3011.5: *Invariant for* (dig-block-b_2_19-build-0 loader_2)
Invariant for (dig-block-b_2_29-build-2 loader_3)
3011.5: *Update of changing Primitive Numerical Expressions*
3011.5: (dig-block-b_2_19-build-0 loader_2) - end
 (move loader_2 b_2_19 b_2_26) - start

3018.95: *Invariant for* (dig-block-b_2_29-build-2 loader_3)
Invariant for (move loader_2 b_2_19 b_2_26)
3018.95: *Update of changing Primitive Numerical Expressions*
3018.95: (move loader_2 b_2_19 b_2_26) - end

3018.95: *Invariant for* (dig-block-b_2_29-build-2 loader_3)
3018.95: *Update of changing Primitive Numerical Expressions*
3018.95: (move loader_2 b_2_26 b_2_21) - start

3025.22: *Invariant for* (dig-block-b_2_29-build-2 loader_3)
Invariant for (move loader_2 b_2_26 b_2_21)
3025.22: *Update of changing Primitive Numerical Expressions*
3025.22: (move loader_2 b_2_26 b_2_21) - end

3025.22: *Invariant for* (dig-block-b_2_29-build-2 loader_3)
3025.22: *Update of changing Primitive Numerical Expressions*
3025.22: (p-dig-block-b_2_21-build-1 loader_2) - start

3025.22: *Invariant for* (dig-block-b_2_29-build-2 loader_3)
Invariant for (p-dig-block-b_2_21-build-1 loader_2)
3025.22: *Update of changing Primitive Numerical Expressions*
3025.22: (p-dig-block-b_2_21-build-0 loader_2) - start

3036.44: *Invariant for* (dig-block-b_2_29-build-2 loader_3)
Invariant for (p-dig-block-b_2_21-build-1 loader_2)
Invariant for (p-dig-block-b_2_21-build-0 loader_2)
3036.44: *Update of changing Primitive Numerical Expressions*
3036.44: (p-dig-block-b_2_21-build-0 loader_2) - end
 (move loader_2 b_2_21 b_2_26) - start

3042.71: *Invariant for* (dig-block-b_2_29-build-2 loader_3)
Invariant for (p-dig-block-b_2_21-build-1 loader_2)

Invariant for (move loader_2 b_2_21 b_2_26)
3042.71: *Update of changing Primitive Numerical Expressions*
3042.71: (move loader_2 b_2_21 b_2_26) - end

3042.71: *Invariant for (dig-block-b_2_29-build-2 loader_3)*
Invariant for (p-dig-block-b_2_21-build-1 loader_2)
3042.71: *Update of changing Primitive Numerical Expressions*
3042.71: (dig-block-b_2_26-build-2 loader_2) - start

3052.96: *Invariant for (dig-block-b_2_29-build-2 loader_3)*
Invariant for (p-dig-block-b_2_21-build-1 loader_2)
Invariant for (dig-block-b_2_26-build-2 loader_2)
3052.96: *Update of changing Primitive Numerical Expressions*
3052.96: (dig-block-b_2_29-build-2 loader_3) - end
 (move loader_3 b_2_29 locloader_2) - start

3058.79: *Invariant for (p-dig-block-b_2_21-build-1 loader_2)*
Invariant for (dig-block-b_2_26-build-2 loader_2)
Invariant for (move loader_3 b_2_29 locloader_2)
3058.79: *Update of changing Primitive Numerical Expressions*
3058.79: (move loader_3 b_2_29 locloader_2) - end

3058.79: *Invariant for (p-dig-block-b_2_21-build-1 loader_2)*
Invariant for (dig-block-b_2_26-build-2 loader_2)
3058.79: *Update of changing Primitive Numerical Expressions*
3058.79: (move loader_3 locloader_2 b_2_25) - start

3066.16: *Invariant for (p-dig-block-b_2_21-build-1 loader_2)*
Invariant for (dig-block-b_2_26-build-2 loader_2)
Invariant for (move loader_3 locloader_2 b_2_25)
3066.16: *Update of changing Primitive Numerical Expressions*
3066.16: (move loader_3 locloader_2 b_2_25) - end

3066.16: *Invariant for (p-dig-block-b_2_21-build-1 loader_2)*
Invariant for (dig-block-b_2_26-build-2 loader_2)
3066.16: *Update of changing Primitive Numerical Expressions*
3066.16: (dig-block-b_2_25-build-2 loader_3) - start

3202.71: *Invariant for (p-dig-block-b_2_21-build-1 loader_2)*
Invariant for (dig-block-b_2_26-build-2 loader_2)
Invariant for (dig-block-b_2_25-build-2 loader_3)

3202.71: *Update of changing Primitive Numerical Expressions*
3202.71: (dig-block-b_2_26-build-2 loader_2) - end
 (move loader_2 b_2_26 b_2_24) - start

3204.49: *Invariant for* (p-dig-block-b_2_21-build-1 loader_2)
Invariant for (dig-block-b_2_25-build-2 loader_3)
Invariant for (move loader_2 b_2_26 b_2_24)
3204.49: *Update of changing Primitive Numerical Expressions*
3204.49: (move loader_2 b_2_26 b_2_24) - end

3204.49: *Invariant for* (p-dig-block-b_2_21-build-1 loader_2)
Invariant for (dig-block-b_2_25-build-2 loader_3)
3204.49: *Update of changing Primitive Numerical Expressions*
3204.49: (dig-block-b_2_24-build-2 loader_2) - start

3226.16: *Invariant for* (p-dig-block-b_2_21-build-1 loader_2)
Invariant for (dig-block-b_2_25-build-2 loader_3)
Invariant for (dig-block-b_2_24-build-2 loader_2)
3226.16: *Update of changing Primitive Numerical Expressions*
3226.16: (dig-block-b_2_25-build-2 loader_3) - end
 (move loader_3 b_2_25 b_2_23) - start

3228: *Invariant for* (p-dig-block-b_2_21-build-1 loader_2)
Invariant for (dig-block-b_2_24-build-2 loader_2)
Invariant for (move loader_3 b_2_25 b_2_23)
3228: *Update of changing Primitive Numerical Expressions*
3228: (move loader_3 b_2_25 b_2_23) - end

3228: *Invariant for* (p-dig-block-b_2_21-build-1 loader_2)
Invariant for (dig-block-b_2_24-build-2 loader_2)
3228: *Update of changing Primitive Numerical Expressions*
3228: (dig-block-b_2_23-build-2 loader_3) - start

3388: *Invariant for* (p-dig-block-b_2_21-build-1 loader_2)
Invariant for (dig-block-b_2_24-build-2 loader_2)
Invariant for (dig-block-b_2_23-build-2 loader_3)
3388: *Update of changing Primitive Numerical Expressions*
3388: (dig-block-b_2_23-build-2 loader_3) - end
 (move loader_3 b_2_23 b_2_22) - start

3390.96: *Invariant for* (p-dig-block-b_2_21-build-1 loader_2)

Invariant for (dig-block-b_2_24-build-2 loader_2)
Invariant for (move loader_3 b_2_23 b_2_22)
3390.96: *Update of changing Primitive Numerical Expressions*
3390.96: (move loader_3 b_2_23 b_2_22) - end

3390.97: *Invariant for (p-dig-block-b_2_21-build-1 loader_2)*
Invariant for (dig-block-b_2_24-build-2 loader_2)
3390.97: *Update of changing Primitive Numerical Expressions*
3390.97: (dig-block-b_2_22-build-2 loader_3) - start

3404.49: *Invariant for (p-dig-block-b_2_21-build-1 loader_2)*
Invariant for (dig-block-b_2_24-build-2 loader_2)
Invariant for (dig-block-b_2_22-build-2 loader_3)
3404.49: *Update of changing Primitive Numerical Expressions*
3404.49: (dig-block-b_2_24-build-2 loader_2) - end
 (move loader_2 b_2_24 b_2_20) - start

3409.31: *Invariant for (p-dig-block-b_2_21-build-1 loader_2)*
Invariant for (dig-block-b_2_22-build-2 loader_3)
Invariant for (move loader_2 b_2_24 b_2_20)
3409.31: *Update of changing Primitive Numerical Expressions*
3409.31: (move loader_2 b_2_24 b_2_20) - end

3409.31: *Invariant for (p-dig-block-b_2_21-build-1 loader_2)*
Invariant for (dig-block-b_2_22-build-2 loader_3)
3409.31: *Update of changing Primitive Numerical Expressions*
3409.31: (dig-block-b_2_20-build-0 loader_2) - start

3550.97: *Invariant for (p-dig-block-b_2_21-build-1 loader_2)*
Invariant for (dig-block-b_2_22-build-2 loader_3)
Invariant for (dig-block-b_2_20-build-0 loader_2)
3550.97: *Update of changing Primitive Numerical Expressions*
3550.97: (dig-block-b_2_22-build-2 loader_3) - end

3864.7: *Invariant for (p-dig-block-b_2_21-build-1 loader_2)*
Invariant for (dig-block-b_2_20-build-0 loader_2)
3864.7: *Update of changing Primitive Numerical Expressions*
3864.7: (p-dig-block-b_2_21-build-1 loader_2) - end

4369.23: *Invariant for (dig-block-b_2_20-build-0 loader_2)*
4369.23: *Update of changing Primitive Numerical Expressions*

4369.23: (dig-block-b_2_20-build-0 loader_2) - *end*

2.3 Plan Validation

Time	Details
0:	Event triggered! <i>Activated process</i> (crushing pc3) <i>Activated process</i> (timing)
0:	Checking Happening... ...OK! Deleting (at loader_2 locloader_2) Deleting (at loader_3 locloader_3)
3.63:	Checking Happening... ...OK!
3.63:	Checking Happening... ...OK! $(\text{crusher_supply pc3})(t) = -100t + 3000$ $(\text{current-time})(t) = t$ Updating (crusher_supply pc3) (3000) by 2637 for continuous update. Updating (current-time) (0) by 3.63 for continuous update.
3.63:	Checking Happening... ...OK! Adding (at loader_3 b_2_44)
3.631:	Checking Happening... ...OK!
3.631:	Checking Happening... ...OK! $(\text{crusher_supply pc3})(t) = -100t + 2637$ $(\text{current-time})(t) = t + 3.63$ Updating (crusher_supply pc3) (2637) by 2636.9 for continuous update. Updating (current-time) (3.63) by 3.631 for continuous update.
3.631:	Checking Happening... ...OK! Deleting (nodigging loader_3) Decreasing (trucks-available) (10) by 0.
5.35:	Checking Happening... ...OK!

5.35: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 2636.9$
 $(\text{current-time})(t) = t + 3.631$
 $(\text{tonnage block-b_2_44})(t) = -50t + 13299$
 Updating **(crusher_supply pc3)** (2636.9) by 2550.95 for continuous update.
 Updating **(current-time)** (3.631) by 5.35 for continuous update.
 Updating **(tonnage block-b_2_44)** (13299) by 13213.1 for continuous update.

5.35: Checking Happening... ...OK!
 Adding **(at loader_2 b_2_45)**

5.351: Checking Happening... ...OK!

5.351: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 2550.95$
 $(\text{current-time})(t) = t + 5.35$
 $(\text{tonnage block-b_2_44})(t) = -50t + 13213$
 Updating **(crusher_supply pc3)** (2550.95) by 2550.9 for continuous update.
 Updating **(current-time)** (5.35) by 5.351 for continuous update.
 Updating **(tonnage block-b_2_44)** (13213.1) by 13213 for continuous update.

5.351: Checking Happening... ...OK!
 Deleting **(nodigging loader_2)**
 Decreasing **(trucks-available)** (10) by 0.

269.611: Checking Happening... ...OK!

269.611: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 2550.9$
 $(\text{current-time})(t) = t + 5.351$
 $(\text{tonnage block-b_2_44})(t) = -50t + 13213$
 $(\text{tonnage block-b_2_45})(t) = -50t + 20363$
 Updating **(crusher_supply pc3)** (2550.9) by 2550.9 for continuous update.
 Updating **(current-time)** (5.351) by 269.611 for continuous update.

Updating (**tonnage block-b_2_44**) (13213) by 4.54747e-13 for continuous update.
Updating (**tonnage block-b_2_45**) (20363) by 7150 for continuous update.

269.611: Checking Happening... ...OK!
Deleting (**not-digged-block-b_2_44-build-1**)
Deleting (**at loader_3 b_2_44**)
Adding (**nodigging loader_3**)
Adding (**digged-block-b_2_44-build-1**)
Increasing (**trucks-available**) (10) by 0.

273.241: Checking Happening... ...OK!

273.241: Checking Happening... ...OK!
(**crusher_supply pc3**)(t) = $-50t + 2550.9$
(**current-time**)(t) = $t + 269.611$
(**tonnage block-b_2_45**)(t) = $-50t + 7150$
Updating (**crusher_supply pc3**) (2550.9) by 2369.4 for continuous update.
Updating (**current-time**) (269.611) by 273.241 for continuous update.
Updating (**tonnage block-b_2_45**) (7150) by 6968.5 for continuous update.

273.241: Checking Happening... ...OK!
Adding (**at loader_3 locloader_2**)

273.242: Checking Happening... ...OK!

273.242: Checking Happening... ...OK!
(**crusher_supply pc3**)(t) = $-50t + 2369.4$
(**current-time**)(t) = $t + 273.241$
(**tonnage block-b_2_45**)(t) = $-50t + 6968.5$
Updating (**crusher_supply pc3**) (2369.4) by 2369.35 for continuous update.
Updating (**current-time**) (273.241) by 273.242 for continuous update.
Updating (**tonnage block-b_2_45**) (6968.5) by 6968.45 for continuous update.

273.242: Checking Happening... ...OK!

Deleting (at loader_3 locloader_2)

277.222: Checking Happening... ...OK!

277.222: Checking Happening... ...OK!

(**crusher_supply pc3**)(t) = $-50t + 2369.35$

(**current-time**)(t) = $t + 273.242$

(**tonnage block-b_2_45**)(t) = $-50t + 6968.45$

Updating (**crusher_supply pc3**) (2369.35) by 2170.35 for continuous update.

Updating (**current-time**) (273.242) by 277.222 for continuous update.

Updating (**tonnage block-b_2_45**) (6968.45) by 6769.45 for continuous update.

277.222: Checking Happening... ...OK!

Adding (at loader_3 b_2_43)

277.223: Checking Happening... ...OK!

277.223: Checking Happening... ...OK!

(**crusher_supply pc3**)(t) = $-50t + 2170.35$

(**current-time**)(t) = $t + 277.222$

(**tonnage block-b_2_45**)(t) = $-50t + 6769.45$

Updating (**crusher_supply pc3**) (2170.35) by 2170.3 for continuous update.

Updating (**current-time**) (277.222) by 277.223 for continuous update.

Updating (**tonnage block-b_2_45**) (6769.45) by 6769.4 for continuous update.

277.223: Checking Happening... ...OK!

Deleting (nodigging loader_3)

Decreasing (**trucks-available**) (10) by 0.

412.611: Checking Happening... ...OK!

412.611: Checking Happening... ...OK!

(**crusher_supply pc3**)(t) = 2170.3

(**current-time**)(t) = $t + 277.223$

(**tonnage block-b_2_43**)(t) = $-50t + 23654$

(tonnage block-b_2_45)(t) = $-50t + 6769.4$
 Updating (**crusher_supply pc3**) (2170.3) by 2170.3 for continuous update.
 Updating (**current-time**) (277.223) by 412.611 for continuous update.
 Updating (**tonnage block-b_2_43**) (23654) by 16884.6 for continuous update.
 Updating (**tonnage block-b_2_45**) (6769.4) by -1.02318e-12 for continuous update.

412.611: Checking Happening... ...OK!
 Deleting (**not-digged-block-b_2_45-build-1**)
 Deleting (**at loader_2 b_2_45**)
 Adding (**nodigging loader_2**)
 Adding (**digged-block-b_2_45-build-1**)
 Increasing (**trucks-available**) (10) by 0.

417.961: Checking Happening... ...OK!

417.961: Checking Happening... ...OK!
(crusher_supply pc3)(t) = $-50t + 2170.3$
(current-time)(t) = $t + 412.611$
(tonnage block-b_2_43)(t) = $-50t + 16884.6$
 Updating (**crusher_supply pc3**) (2170.3) by 1902.8 for continuous update.
 Updating (**current-time**) (412.611) by 417.961 for continuous update.
 Updating (**tonnage block-b_2_43**) (16884.6) by 16617.1 for continuous update.

417.961: Checking Happening... ...OK!
 Adding (**at loader_2 locloader_2**)

417.962: Checking Happening... ...OK!

417.962: Checking Happening... ...OK!
(crusher_supply pc3)(t) = $-50t + 1902.8$
(current-time)(t) = $t + 417.961$
(tonnage block-b_2_43)(t) = $-50t + 16617.1$
 Updating (**crusher_supply pc3**) (1902.8) by 1902.75 for continuous update.

Updating (**current-time**) (417.961) by 417.962 for continuous update.
Updating (**tonnage block-b_2_43**) (16617.1) by 16617.1 for continuous update.

417.962: Checking Happening... ...OK!
Deleting (at loader_2 locloader_2)

421.382: Checking Happening... ...OK!

421.382: Checking Happening... ...OK!
(**crusher_supply pc3**)(t) = $-50t + 1902.75$
(**current-time**)(t) = $t + 417.962$
(**tonnage block-b_2_43**)(t) = $-50t + 16617.1$
Updating (**crusher_supply pc3**) (1902.75) by 1731.75 for continuous update.
Updating (**current-time**) (417.962) by 421.382 for continuous update.
Updating (**tonnage block-b_2_43**) (16617.1) by 16446.1 for continuous update.

421.382: Checking Happening... ...OK!
Adding (at loader_2 b_2_42)

421.383: Checking Happening... ...OK!

421.383: Checking Happening... ...OK!
(**crusher_supply pc3**)(t) = $-50t + 1731.75$
(**current-time**)(t) = $t + 421.382$
(**tonnage block-b_2_43**)(t) = $-50t + 16446.1$
Updating (**crusher_supply pc3**) (1731.75) by 1731.7 for continuous update.
Updating (**current-time**) (421.382) by 421.383 for continuous update.
Updating (**tonnage block-b_2_43**) (16446.1) by 16446 for continuous update.

421.383: Checking Happening... ...OK!
Deleting (nodigging loader_2)
Decreasing (**trucks-available**) (10) by 0.

514.506: Checking Happening... ...OK!

514.506: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 1731.7$
 $(\text{current-time})(t) = t + 421.383$
 $(\text{tonnage block-b_2_42})(t) = -50t + 11017$
 $(\text{tonnage block-b_2_43})(t) = -50t + 16446$
Updating **(crusher_supply pc3)** (1731.7) by 1731.7 for continuous update.
Updating **(current-time)** (421.383) by 514.506 for continuous update.
Updating **(tonnage block-b_2_42)** (11017) by 6360.85 for continuous update.
Updating **(tonnage block-b_2_43)** (16446) by 11789.9 for continuous update.

514.506: Checking Happening... ...OK!
Deleting (not-partially-digged-block-b_2_42-build-1)
Adding (nodigging loader_2)
Adding (partially-digged-block-b_2_42-build-1)
Increasing **(trucks-available)** (10) by 0.

514.509: Checking Happening... ...OK!

514.509: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 1731.7$
 $(\text{current-time})(t) = t + 514.506$
 $(\text{tonnage block-b_2_43})(t) = -50t + 11789.9$
Updating **(crusher_supply pc3)** (1731.7) by 1731.55 for continuous update.
Updating **(current-time)** (514.506) by 514.509 for continuous update.
Updating **(tonnage block-b_2_43)** (11789.9) by 11789.7 for continuous update.

514.509: Checking Happening... ...OK!
Deleting (nodigging loader_2)
Decreasing **(trucks-available)** (10) by 0.

641.732: Checking Happening... ...OK!

641.732: Checking Happening... ...OK!

$(\text{crusher_supply pc3})(t) = 1731.55$
 $(\text{current-time})(t) = t + 514.509$
 $(\text{tonnage block-b_2_42})(t) = -50t + 6360.85$
 $(\text{tonnage block-b_2_43})(t) = -50t + 11789.7$
 Updating **(crusher_supply pc3)** (1731.55) by 1731.55 for continuous update.
 Updating **(current-time)** (514.509) by 641.732 for continuous update.
 Updating **(tonnage block-b_2_42)** (6360.85) by -0.3 for continuous update.
 Updating **(tonnage block-b_2_43)** (11789.7) by 5428.55 for continuous update.

641.732: Checking Happening... ...OK!
 Deleting **(not-partially-digged-block-b_2_42-build-0)**
 Deleting **(at loader_2 b_2_42)**
 Adding **(nodigging loader_2)**
 Adding **(partially-digged-block-b_2_42-build-0)**
 Increasing **(trucks-available)** (10) by 0.

645.152: Checking Happening... ...OK!

645.152: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 1731.55$
 $(\text{current-time})(t) = t + 641.732$
 $(\text{tonnage block-b_2_43})(t) = -50t + 5428.55$
 Updating **(crusher_supply pc3)** (1731.55) by 1560.55 for continuous update.
 Updating **(current-time)** (641.732) by 645.152 for continuous update.
 Updating **(tonnage block-b_2_43)** (5428.55) by 5257.55 for continuous update.

645.152: Checking Happening... ...OK!
 Adding **(at loader_2 locloader_2)**

645.153: Checking Happening... ...OK!

645.153: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 1560.55$
 $(\text{current-time})(t) = t + 645.152$

$(\text{tonnage block-b_2_43})(t) = -50t + 5257.55$
 Updating (**crusher_supply pc3**) (1560.55) by 1560.5 for continuous update.
 Updating (**current-time**) (645.152) by 645.153 for continuous update.
 Updating (**tonnage block-b_2_43**) (5257.55) by 5257.5 for continuous update.

645.153: Checking Happening... ...OK!
 Deleting (at loader_2 locloader_2)

649.093: Checking Happening... ...OK!

649.093: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 1560.5$
 $(\text{current-time})(t) = t + 645.153$
 $(\text{tonnage block-b_2_43})(t) = -50t + 5257.5$
 Updating (**crusher_supply pc3**) (1560.5) by 1363.5 for continuous update.
 Updating (**current-time**) (645.153) by 649.093 for continuous update.
 Updating (**tonnage block-b_2_43**) (5257.5) by 5060.5 for continuous update.

649.093: Checking Happening... ...OK!
 Adding (at loader_2 b_2_41)

649.094: Checking Happening... ...OK!

649.094: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 1363.5$
 $(\text{current-time})(t) = t + 649.093$
 $(\text{tonnage block-b_2_43})(t) = -50t + 5060.5$
 Updating (**crusher_supply pc3**) (1363.5) by 1363.45 for continuous update.
 Updating (**current-time**) (649.093) by 649.094 for continuous update.
 Updating (**tonnage block-b_2_43**) (5060.5) by 5060.45 for continuous update.

649.094: Checking Happening... ...OK!
 Deleting (nodigging loader_2)

Decreasing (**trucks-available**) (10) by 0.

750.303: Checking Happening... ...OK!

750.303: Checking Happening... ...OK!

(**crusher_supply pc3**)(t) = 1363.45

(**current-time**)(t) = $t + 649.094$

(**tonnage block-b_2_41**)(t) = $-50t + 7999$

(**tonnage block-b_2_43**)(t) = $-50t + 5060.45$

Updating (**crusher_supply pc3**) (1363.45) by 1363.45 for continuous update.

Updating (**current-time**) (649.094) by 750.303 for continuous update.

Updating (**tonnage block-b_2_41**) (7999) by 2938.55 for continuous update.

Updating (**tonnage block-b_2_43**) (5060.45) by 3.41061e-12 for continuous update.

750.303: Checking Happening... ...OK!

Deleting (**not-digged-block-b_2_43-build-0**)

Deleting (**at loader_3 b_2_43**)

Adding (**nodigging loader_3**)

Adding (**digged-block-b_2_43-build-0**)

Increasing (**trucks-available**) (10) by 0.

754.283: Checking Happening... ...OK!

754.283: Checking Happening... ...OK!

(**crusher_supply pc3**)(t) = $-50t + 1363.45$

(**current-time**)(t) = $t + 750.303$

(**tonnage block-b_2_41**)(t) = $-50t + 2938.55$

Updating (**crusher_supply pc3**) (1363.45) by 1164.45 for continuous update.

Updating (**current-time**) (750.303) by 754.283 for continuous update.

Updating (**tonnage block-b_2_41**) (2938.55) by 2739.55 for continuous update.

754.283: Checking Happening... ...OK!

Adding (**at loader_3 locloader_2**)

754.284: Checking Happening... ...OK!

754.284: Checking Happening... ...OK!

(crusher_supply pc3)(t) = $-50t + 1164.45$

(current-time)(t) = $t + 754.283$

(tonnage block-b_2_41)(t) = $-50t + 2739.55$

Updating **(crusher_supply pc3)** (1164.45) by 1164.4 for continuous update.

Updating **(current-time)** (754.283) by 754.284 for continuous update.

Updating **(tonnage block-b_2_41)** (2739.55) by 2739.5 for continuous update.

754.284: Checking Happening... ...OK!

Deleting (at loader_3 locloader_2)

758.144: Checking Happening... ...OK!

758.144: Checking Happening... ...OK!

(crusher_supply pc3)(t) = $-50t + 1164.4$

(current-time)(t) = $t + 754.284$

(tonnage block-b_2_41)(t) = $-50t + 2739.5$

Updating **(crusher_supply pc3)** (1164.4) by 971.4 for continuous update.

Updating **(current-time)** (754.284) by 758.144 for continuous update.

Updating **(tonnage block-b_2_41)** (2739.5) by 2546.5 for continuous update.

758.144: Checking Happening... ...OK!

Adding (at loader_3 b_2_39)

758.145: Checking Happening... ...OK!

758.145: Checking Happening... ...OK!

(crusher_supply pc3)(t) = $-50t + 971.4$

(current-time)(t) = $t + 758.144$

(tonnage block-b_2_41)(t) = $-50t + 2546.5$

Updating **(crusher_supply pc3)** (971.4) by 971.35 for continuous update.

Updating **(current-time)** (758.144) by 758.145 for continuous update.

Updating (**tonnage block-b_2_41**) (2546.5) by 2546.45 for continuous update.

758.145: Checking Happening... ...OK!
 Deleting (**nodigging loader_3**)
 Decreasing (**trucks-available**) (10) by 0.

809.074: Checking Happening... ...OK!

809.074: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 971.35$
 $(\text{current-time})(t) = t + 758.145$
 $(\text{tonnage block-b_2_39})(t) = -50t + 8298$
 $(\text{tonnage block-b_2_41})(t) = -50t + 2546.45$
 Updating (**crusher_supply pc3**) (971.35) by 971.35 for continuous update.
 Updating (**current-time**) (758.145) by 809.074 for continuous update.
 Updating (**tonnage block-b_2_39**) (8298) by 5751.55 for continuous update.
 Updating (**tonnage block-b_2_41**) (2546.45) by 5.22959e-12 for continuous update.

809.074: Checking Happening... ...OK!
 Deleting (**at loader_2 b_2_41**)
 Deleting (**not-digged-block-b_2_41-build-1**)
 Adding (**nodigging loader_2**)
 Adding (**digged-block-b_2_41-build-1**)
 Increasing (**trucks-available**) (10) by 0.

813.014: Checking Happening... ...OK!

813.014: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 971.35$
 $(\text{current-time})(t) = t + 809.074$
 $(\text{tonnage block-b_2_39})(t) = -50t + 5751.55$
 Updating (**crusher_supply pc3**) (971.35) by 774.35 for continuous update.
 Updating (**current-time**) (809.074) by 813.014 for continuous update.
 Updating (**tonnage block-b_2_39**) (5751.55) by 5554.55 for continuous update.

813.014: Checking Happening... ...OK!
Adding (at loader_2 locloader_2)

813.015: Checking Happening... ...OK!

813.015: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 774.35$
 $(\text{current-time})(t) = t + 813.014$
 $(\text{tonnage block-b_2_39})(t) = -50t + 5554.55$
Updating (crusher_supply pc3) (774.35) by 774.3 for continuous update.
Updating (current-time) (813.014) by 813.015 for continuous update.
Updating (tonnage block-b_2_39) (5554.55) by 5554.5 for continuous update.

813.015: Checking Happening... ...OK!
Deleting (at loader_2 locloader_2)

816.735: Checking Happening... ...OK!

816.735: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 774.3$
 $(\text{current-time})(t) = t + 813.015$
 $(\text{tonnage block-b_2_39})(t) = -50t + 5554.5$
Updating (crusher_supply pc3) (774.3) by 588.3 for continuous update.
Updating (current-time) (813.015) by 816.735 for continuous update.
Updating (tonnage block-b_2_39) (5554.5) by 5368.5 for continuous update.

816.735: Checking Happening... ...OK!
Adding (at loader_2 b_2_40)

816.736: Checking Happening... ...OK!

816.736: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 588.3$
 $(\text{current-time})(t) = t + 816.735$

(tonnage block-b_2_39)(t) = $-50t + 5368.5$
 Updating **(crusher_supply pc3)** (588.3) by 588.25 for continuous update.
 Updating **(current-time)** (816.735) by 816.736 for continuous update.
 Updating **(tonnage block-b_2_39)** (5368.5) by 5368.45 for continuous update.

816.736: Checking Happening... ...OK!
 Deleting **(nodigging loader_2)**
 Decreasing **(trucks-available)** (10) by 0.

924.105: Checking Happening... ...OK!

924.105: Checking Happening... ...OK!
(crusher_supply pc3)(t) = 588.25
(current-time)(t) = $t + 816.736$
(tonnage block-b_2_39)(t) = $-50t + 5368.45$
(tonnage block-b_2_40)(t) = $-50t + 16060$
 Updating **(crusher_supply pc3)** (588.25) by 588.25 for continuous update.
 Updating **(current-time)** (816.736) by 924.105 for continuous update.
 Updating **(tonnage block-b_2_39)** (5368.45) by -2.50111e-12 for continuous update.
 Updating **(tonnage block-b_2_40)** (16060) by 10691.5 for continuous update.

924.105: Checking Happening... ...OK!
 Deleting **(not-digged-block-b_2_39-build-2)**
 Deleting **(at loader_3 b_2_39)**
 Adding **(nodigging loader_3)**
 Adding **(digged-block-b_2_39-build-2)**
 Increasing **(trucks-available)** (10) by 0.

927.965: Checking Happening... ...OK!

927.965: Checking Happening... ...OK!
(crusher_supply pc3)(t) = $-50t + 588.25$
(current-time)(t) = $t + 924.105$
(tonnage block-b_2_40)(t) = $-50t + 10691.5$

Updating (**crusher_supply pc3**) (588.25) by 395.25 for continuous update.
Updating (**current-time**) (924.105) by 927.965 for continuous update.
Updating (**tonnage block-b_2_40**) (10691.5) by 10498.5 for continuous update.

927.965: Checking Happening... ...OK!
Adding (at loader_3 locloader_2)

927.966: Checking Happening... ...OK!

927.966: Checking Happening... ...OK!
(**crusher_supply pc3**)(t) = $-50t + 395.25$
(**current-time**)(t) = $t + 927.965$
(**tonnage block-b_2_40**)(t) = $-50t + 10498.5$
Updating (**crusher_supply pc3**) (395.25) by 395.2 for continuous update.
Updating (**current-time**) (927.965) by 927.966 for continuous update.
Updating (**tonnage block-b_2_40**) (10498.5) by 10498.5 for continuous update.

927.966: Checking Happening... ...OK!
Deleting (at loader_3 locloader_2)

931.546: Checking Happening... ...OK!

931.546: Checking Happening... ...OK!
(**crusher_supply pc3**)(t) = $-50t + 395.2$
(**current-time**)(t) = $t + 927.966$
(**tonnage block-b_2_40**)(t) = $-50t + 10498.5$
Updating (**crusher_supply pc3**) (395.2) by 216.2 for continuous update.
Updating (**current-time**) (927.966) by 931.546 for continuous update.
Updating (**tonnage block-b_2_40**) (10498.5) by 10319.5 for continuous update.

931.546: Checking Happening... ...OK!
Adding (at loader_3 b_2_37)

931.547: Checking Happening... ...OK!

931.547: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 216.2$
 $(\text{current-time})(t) = t + 931.546$
 $(\text{tonnage block-b_2_40})(t) = -50t + 10319.5$
Updating $(\text{crusher_supply pc3})$ (216.2) by 216.15 for continuous update.
Updating (current-time) (931.546) by 931.547 for continuous update.
Updating $(\text{tonnage block-b_2_40})$ (10319.5) by 10319.4 for continuous update.

931.547: Checking Happening... ...OK!
Deleting $(\text{nodigging loader_3})$
Decreasing $(\text{trucks-available})$ (10) by 0.

1097.67: Checking Happening... ...OK!

1097.67: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 216.15$
 $(\text{current-time})(t) = t + 931.547$
 $(\text{tonnage block-b_2_37})(t) = -50t + 10858$
 $(\text{tonnage block-b_2_40})(t) = -50t + 10319.4$
Updating $(\text{crusher_supply pc3})$ (216.15) by 216.15 for continuous update.
Updating (current-time) (931.547) by 1097.67 for continuous update.
Updating $(\text{tonnage block-b_2_37})$ (10858) by 2551.85 for continuous update.
Updating $(\text{tonnage block-b_2_40})$ (10319.4) by 2013.3 for continuous update.

1097.67: Checking Happening... ...OK!
Deleting $(\text{not-partially-digged-block-b_2_37-build-1})$
Deleting $(\text{at loader_3 b_2_37})$
Adding $(\text{nodigging loader_3})$
Adding $(\text{partially-digged-block-b_2_37-build-1})$
Increasing $(\text{trucks-available})$ (10) by 0.

1098.86: Checking Happening... ...OK!

1098.86: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 216.15$
 $(\text{current-time})(t) = t + 1097.67$
 $(\text{tonnage block-b_2_40})(t) = -50t + 2013.3$
Updating **(crusher_supply pc3)** (216.15) by 156.65 for continuous update.
Updating **(current-time)** (1097.67) by 1098.86 for continuous update.
Updating **(tonnage block-b_2_40)** (2013.3) by 1953.8 for continuous update.

1098.86: Checking Happening... ...OK!
Adding **(at loader_3 b_2_38)**

1098.86: Checking Happening... ...OK!

1098.86: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 156.65$
 $(\text{current-time})(t) = t + 1098.86$
 $(\text{tonnage block-b_2_40})(t) = -50t + 1953.8$
Updating **(crusher_supply pc3)** (156.65) by 156.6 for continuous update.
Updating **(current-time)** (1098.86) by 1098.86 for continuous update.
Updating **(tonnage block-b_2_40)** (1953.8) by 1953.75 for continuous update.

1098.86: Checking Happening... ...OK!
Deleting **(nodigging loader_3)**
Decreasing **(trucks-available)** (10) by 0.

1137.94: Checking Happening... ...OK!

1137.94: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 156.6$
 $(\text{current-time})(t) = t + 1098.86$
 $(\text{tonnage block-b_2_38})(t) = -50t + 10000$
 $(\text{tonnage block-b_2_40})(t) = -50t + 1953.75$
Updating **(crusher_supply pc3)** (156.6) by 156.6 for continuous update.

Updating (**current-time**) (1098.86) by 1137.94 for continuous update.
Updating (**tonnage block-b_2_38**) (10000) by 8046.25 for continuous update.
Updating (**tonnage block-b_2_40**) (1953.75) by 4.09273e-12 for continuous update.

1137.94: Checking Happening... ...OK!
Deleting (**not-digged-block-b_2_40-build-1**)
Deleting (**at loader_2 b_2_40**)
Adding (**nodigging loader_2**)
Adding (**digged-block-b_2_40-build-1**)
Increasing (**trucks-available**) (10) by 0.

1141.66: Checking Happening... ...OK!

1141.66: Checking Happening... ...OK!
(**crusher_supply pc3**)(t) = $-50t + 156.6$
(**current-time**)(t) = $t + 1137.94$
(**tonnage block-b_2_38**)(t) = $-50t + 8046.25$
Updating (**crusher_supply pc3**) (156.6) by -29.4 for continuous update.
Updating (**current-time**) (1137.94) by 1141.66 for continuous update.
Updating (**tonnage block-b_2_38**) (8046.25) by 7860.25 for continuous update.

1141.66: Checking Happening... ...OK!
Adding (**at loader_2 locloader_2**)

1141.66: Checking Happening... ...OK!

1141.66: Checking Happening... ...OK!
(**crusher_supply pc3**)(t) = $-50t - 29.4$
(**current-time**)(t) = $t + 1141.66$
(**tonnage block-b_2_38**)(t) = $-50t + 7860.25$
Updating (**crusher_supply pc3**) (-29.4) by -29.45 for continuous update.
Updating (**current-time**) (1141.66) by 1141.66 for continuous update.
Updating (**tonnage block-b_2_38**) (7860.25) by 7860.2 for continuous update.

1141.66: Checking Happening... ...OK!
 Deleting (at loader_2 locloader_2)

1145.24: Checking Happening... ...OK!

1145.24: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t - 29.45$
 $(\text{current-time})(t) = t + 1141.66$
 $(\text{tonnage block-b_2_38})(t) = -50t + 7860.2$
 Updating (crusher_supply pc3) (-29.45) by -208.45 for continuous update.
 Updating (current-time) (1141.66) by 1145.24 for continuous update.
 Updating (tonnage block-b_2_38) (7860.2) by 7681.2 for continuous update.

1145.24: Checking Happening... ...OK!
 Adding (at loader_2 b_2_37)

1145.24: Checking Happening... ...OK!

1145.24: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t - 208.45$
 $(\text{current-time})(t) = t + 1145.24$
 $(\text{tonnage block-b_2_38})(t) = -50t + 7681.2$
 Updating (crusher_supply pc3) (-208.45) by -208.5 for continuous update.
 Updating (current-time) (1145.24) by 1145.24 for continuous update.
 Updating (tonnage block-b_2_38) (7681.2) by 7681.15 for continuous update.

1145.24: Checking Happening... ...OK!
 Deleting (nodigging loader_2)
 Decreasing (trucks-available) (10) by 0.

1196.29: Checking Happening... ...OK!

1196.29: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -208.5$

$(\text{current-time})(t) = t + 1145.24$
 $(\text{tonnage block-b_2_37})(t) = -50t + 2551.85$
 $(\text{tonnage block-b_2_38})(t) = -50t + 7681.15$
 Updating (**crusher_supply pc3**) (-208.5) by -208.5 for continuous update.
 Updating (**current-time**) (1145.24) by 1196.29 for continuous update.
 Updating (**tonnage block-b_2_37**) (2551.85) by -0.85 for continuous update.
 Updating (**tonnage block-b_2_38**) (7681.15) by 5128.45 for continuous update.

1196.29: Checking Happening... ...OK!
 Deleting (at loader_2 b_2_37)
 Deleting (not-partially-digged-block-b_2_37-build-0)
 Adding (nodigging loader_2)
 Adding (partially-digged-block-b_2_37-build-0)
 Increasing (**trucks-available**) (10) by 0.

1199.87: Checking Happening... ...OK!

1199.87: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t - 208.5$
 $(\text{current-time})(t) = t + 1196.29$
 $(\text{tonnage block-b_2_38})(t) = -50t + 5128.45$
 Updating (**crusher_supply pc3**) (-208.5) by -387.5 for continuous update.
 Updating (**current-time**) (1196.29) by 1199.87 for continuous update.
 Updating (**tonnage block-b_2_38**) (5128.45) by 4949.45 for continuous update.

1199.87: Checking Happening... ...OK!
 Adding (at loader_2 locloader_2)

1199.87: Checking Happening... ...OK!

1199.87: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t - 387.5$
 $(\text{current-time})(t) = t + 1199.87$
 $(\text{tonnage block-b_2_38})(t) = -50t + 4949.45$

Updating (**crusher_supply pc3**) (-387.5) by -387.55 for continuous update.
Updating (**current-time**) (1199.87) by 1199.87 for continuous update.
Updating (**tonnage block-b_2_38**) (4949.45) by 4949.4 for continuous update.

1199.87: Checking Happening... ...OK!
Deleting (**at loader_2 locloader_2**)

1203.33: Checking Happening... ...OK!

1203.33: Checking Happening... ...OK!
(**crusher_supply pc3**)(t) = $-50t - 387.55$
(**current-time**)(t) = $t + 1199.87$
(**tonnage block-b_2_38**)(t) = $-50t + 4949.4$
Updating (**crusher_supply pc3**) (-387.55) by -560.55 for continuous update.
Updating (**current-time**) (1199.87) by 1203.33 for continuous update.
Updating (**tonnage block-b_2_38**) (4949.4) by 4776.4 for continuous update.

1203.33: Checking Happening... ...OK!
Adding (**at loader_2 b_2_36**)

1203.33: Checking Happening... ...OK!

1203.33: Checking Happening... ...OK!
(**crusher_supply pc3**)(t) = $-50t - 560.55$
(**current-time**)(t) = $t + 1203.33$
(**tonnage block-b_2_38**)(t) = $-50t + 4776.4$
Updating (**crusher_supply pc3**) (-560.55) by -560.6 for continuous update.
Updating (**current-time**) (1203.33) by 1203.33 for continuous update.
Updating (**tonnage block-b_2_38**) (4776.4) by 4776.35 for continuous update.

1203.33: Checking Happening... ...OK!
Deleting (**nodigging loader_2**)
Decreasing (**trucks-available**) (10) by 0.

1298.86: Checking Happening... ...OK!

1298.86: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -560.6$
 $(\text{current-time})(t) = t + 1203.33$
 $(\text{tonnage block-b_2_36})(t) = -50t + 13810$
 $(\text{tonnage block-b_2_38})(t) = -50t + 4776.35$
Updating $(\text{crusher_supply pc3})$ (-560.6) by -560.6 for continuous update.
Updating (current-time) (1203.33) by 1298.86 for continuous update.
Updating $(\text{tonnage block-b_2_36})$ (13810) by 9033.65 for continuous update.
Updating $(\text{tonnage block-b_2_38})$ (4776.35) by -1.81899e-12 for continuous update.

1298.86: Checking Happening... ...OK!
Deleting (not-digged-block-b_2_38-build-1)
Deleting (at loader_3 b_2_38)
Adding (nodigging loader_3)
Adding (digged-block-b_2_38-build-1)
Increasing $(\text{trucks-available})$ (10) by 0.

1302.42: Checking Happening... ...OK!

1302.42: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t - 560.6$
 $(\text{current-time})(t) = t + 1298.86$
 $(\text{tonnage block-b_2_36})(t) = -50t + 9033.65$
Updating $(\text{crusher_supply pc3})$ (-560.6) by -738.6 for continuous update.
Updating (current-time) (1298.86) by 1302.42 for continuous update.
Updating $(\text{tonnage block-b_2_36})$ (9033.65) by 8855.65 for continuous update.

1302.42: Checking Happening... ...OK!
Adding (at loader_3 locloader_2)

1302.42: Checking Happening... ...OK!

1302.42: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t - 738.6$
 $(\text{current-time})(t) = t + 1302.42$
 $(\text{tonnage block-b_2_36})(t) = -50t + 8855.65$
Updating **(crusher_supply pc3)** (-738.6) by -738.65 for continuous update.
Updating **(current-time)** (1302.42) by 1302.42 for continuous update.
Updating **(tonnage block-b_2_36)** (8855.65) by 8855.6 for continuous update.

1302.42: Checking Happening... ...OK!
Deleting (at loader_3 locloader_2)

1309.04: Checking Happening... ...OK!

1309.04: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t - 738.65$
 $(\text{current-time})(t) = t + 1302.42$
 $(\text{tonnage block-b_2_36})(t) = -50t + 8855.6$
Updating **(crusher_supply pc3)** (-738.65) by -1069.65 for continuous update.
Updating **(current-time)** (1302.42) by 1309.04 for continuous update.
Updating **(tonnage block-b_2_36)** (8855.6) by 8524.6 for continuous update.

1309.04: Checking Happening... ...OK!
Adding (at loader_3 b_2_35)

1309.04: Checking Happening... ...OK!

1309.04: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t - 1069.65$
 $(\text{current-time})(t) = t + 1309.04$
 $(\text{tonnage block-b_2_36})(t) = -50t + 8524.6$
Updating **(crusher_supply pc3)** (-1069.65) by -1069.7 for continuous update.
Updating **(current-time)** (1309.04) by 1309.04 for continuous update.

Updating (**tonnage block-b_2_36**) (8524.6) by 8524.55 for continuous update.

1309.04: Checking Happening... ...OK!
 Deleting (**nodigging loader_3**)
 Decreasing (**trucks-available**) (10) by 0.

1479.53: Checking Happening... ...OK!

1479.53: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -1069.7$
 $(\text{current-time})(t) = t + 1309.04$
 $(\text{tonnage block-b_2_35})(t) = -50t + 14499$
 $(\text{tonnage block-b_2_36})(t) = -50t + 8524.55$
 Updating (**crusher_supply pc3**) (-1069.7) by -1069.7 for continuous update.
 Updating (**current-time**) (1309.04) by 1479.53 for continuous update.
 Updating (**tonnage block-b_2_35**) (14499) by 5974.45 for continuous update.
 Updating (**tonnage block-b_2_36**) (8524.55) by -2.27374e-12 for continuous update.

1479.53: Checking Happening... ...OK!
 Deleting (**not-digged-block-b_2_36-build-0**)
 Deleting (**at loader_2 b_2_36**)
 Adding (**nodigging loader_2**)
 Adding (**digged-block-b_2_36-build-0**)
 Increasing (**trucks-available**) (10) by 0.

1482.99: Checking Happening... ...OK!

1482.99: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t - 1069.7$
 $(\text{current-time})(t) = t + 1479.53$
 $(\text{tonnage block-b_2_35})(t) = -50t + 5974.45$
 Updating (**crusher_supply pc3**) (-1069.7) by -1242.7 for continuous update.
 Updating (**current-time**) (1479.53) by 1482.99 for continuous update.
 Updating (**tonnage block-b_2_35**) (5974.45) by 5801.45 for continuous update.

1482.99: Checking Happening... ...OK!
Adding (at loader_2 locloader_2)

1482.99: Checking Happening... ...OK!

1482.99: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t - 1242.7$
 $(\text{current-time})(t) = t + 1482.99$
 $(\text{tonnage block-b_2_35})(t) = -50t + 5801.45$
Updating (crusher_supply pc3) (-1242.7) by -1242.75 for continuous update.
Updating (current-time) (1482.99) by 1482.99 for continuous update.
Updating (tonnage block-b_2_35) (5801.45) by 5801.4 for continuous update.

1482.99: Checking Happening... ...OK!
Deleting (at loader_2 locloader_2)

1489.5: Checking Happening... ...OK!

1489.5: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t - 1242.75$
 $(\text{current-time})(t) = t + 1482.99$
 $(\text{tonnage block-b_2_35})(t) = -50t + 5801.4$
Updating (crusher_supply pc3) (-1242.75) by -1568.25 for continuous update.
Updating (current-time) (1482.99) by 1489.5 for continuous update.
Updating (tonnage block-b_2_35) (5801.4) by 5475.9 for continuous update.

1489.5: Checking Happening... ...OK!
Adding (at loader_2 b_2_33)

1489.51: Checking Happening... ...OK!

1489.51: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t - 1568.25$
 $(\text{current-time})(t) = t + 1489.5$

(tonnage block-b_2_35)(t) = $-50t + 5475.9$
 Updating **(crusher_supply pc3)** (-1568.25) by -1568.3 for continuous update.
 Updating **(current-time)** (1489.5) by 1489.51 for continuous update.
 Updating **(tonnage block-b_2_35)** (5475.9) by 5475.85 for continuous update.

1489.51: Checking Happening... ...OK!
 Deleting **(nodigging loader_2)**
 Decreasing **(trucks-available)** (10) by 0.

1489.51: Checking Happening... ...OK!

1489.51: Checking Happening... ...OK!
(crusher_supply pc3)(t) = -1568.3
(current-time)(t) = $t + 1489.51$
(tonnage block-b_2_33)(t) = $-50t + 25899$
(tonnage block-b_2_35)(t) = $-50t + 5475.85$
 Updating **(crusher_supply pc3)** (-1568.3) by -1568.3 for continuous update.
 Updating **(current-time)** (1489.51) by 1489.51 for continuous update.
 Updating **(tonnage block-b_2_33)** (25899) by 25899 for continuous update.
 Updating **(tonnage block-b_2_35)** (5475.85) by 5475.8 for continuous update.

1489.51: Checking Happening... ...OK!
 Deleting **(nodigging loader_2)**
 Decreasing **(trucks-available)** (10) by 0.

1599.02: Checking Happening... ...OK!

1599.02: Checking Happening... ...OK!
(crusher_supply pc3)(t) = $50t - 1568.3$
(current-time)(t) = $t + 1489.51$
(tonnage block-b_2_33)(t) = $-100t + 25899$
(tonnage block-b_2_35)(t) = $-50t + 5475.8$
 Updating **(crusher_supply pc3)** (-1568.3) by 3907.5 for continuous update.

Updating (**current-time**) (1489.51) by 1599.02 for continuous update.
Updating (**tonnage block-b_2_33**) (25899) by 14947.4 for continuous update.
Updating (**tonnage block-b_2_35**) (5475.8) by -4.54747e-13 for continuous update.

1599.02: Checking Happening... ...OK!
Deleting (**not-digged-block-b_2_35-build-2**)
Deleting (**at loader_3 b_2_35**)
Adding (**nodigging loader_3**)
Adding (**digged-block-b_2_35-build-2**)
Increasing (**trucks-available**) (10) by 0.

1605.64: Checking Happening... ...OK!

1605.64: Checking Happening... ...OK!
(**crusher_supply pc3**)(t) = 3907.5
(**current-time**)(t) = $t + 1599.02$
(**tonnage block-b_2_33**)(t) = $-100t + 14947.4$
Updating (**crusher_supply pc3**) (3907.5) by 3907.5 for continuous update.
Updating (**current-time**) (1599.02) by 1605.64 for continuous update.
Updating (**tonnage block-b_2_33**) (14947.4) by 14285.4 for continuous update.

1605.64: Checking Happening... ...OK!
Adding (**at loader_3 locloader_2**)

1605.64: Checking Happening... ...OK!

1605.64: Checking Happening... ...OK!
(**crusher_supply pc3**)(t) = 3907.5
(**current-time**)(t) = $t + 1605.64$
(**tonnage block-b_2_33**)(t) = $-100t + 14285.4$
Updating (**crusher_supply pc3**) (3907.5) by 3907.5 for continuous update.
Updating (**current-time**) (1605.64) by 1605.64 for continuous update.
Updating (**tonnage block-b_2_33**) (14285.4) by 14285.3 for continuous update.

1605.64: Checking Happening... ...OK!
Deleting (at loader_3 locloader_2)

1612.21: Checking Happening... ...OK!

1612.21: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 3907.5$
 $(\text{current-time})(t) = t + 1605.64$
 $(\text{tonnage block-b_2_33})(t) = -100t + 14285.3$
Updating (crusher_supply pc3) (3907.5) by 3907.5 for continuous update.
Updating (current-time) (1605.64) by 1612.21 for continuous update.
Updating (tonnage block-b_2_33) (14285.3) by 13628.3 for continuous update.

1612.21: Checking Happening... ...OK!
Adding (at loader_3 b_2_34)

1612.21: Checking Happening... ...OK!

1612.21: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 3907.5$
 $(\text{current-time})(t) = t + 1612.21$
 $(\text{tonnage block-b_2_33})(t) = -100t + 13628.3$
Updating (crusher_supply pc3) (3907.5) by 3907.5 for continuous update.
Updating (current-time) (1612.21) by 1612.21 for continuous update.
Updating (tonnage block-b_2_33) (13628.3) by 13628.2 for continuous update.

1612.21: Checking Happening... ...OK!
Deleting (nodigging loader_3)
Decreasing (trucks-available) (10) by 0.

1711.76: Checking Happening... ...OK!

1711.76: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 50t + 3907.5$

$(\text{current-time})(t) = t + 1612.21$
 $(\text{tonnage block-b_2_33})(t) = -100t + 13628.2$
 $(\text{tonnage block-b_2_34})(t) = -50t + 15132$
 Updating (**crusher_supply pc3**) (3907.5) by 8884.65 for continuous update.
 Updating (**current-time**) (1612.21) by 1711.76 for continuous update.
 Updating (**tonnage block-b_2_33**) (13628.2) by 3673.85 for continuous update.
 Updating (**tonnage block-b_2_34**) (15132) by 10154.8 for continuous update.

1711.76: Checking Happening... ...OK!
 Deleting (not-partially-digged-block-b_2_33-build-0)
 Adding (nodigging loader_2)
 Adding (partially-digged-block-b_2_33-build-0)
 Increasing (**trucks-available**) (10) by 0.

1785.25: Checking Happening... ...OK!

1785.25: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 8884.65$
 $(\text{current-time})(t) = t + 1711.76$
 $(\text{tonnage block-b_2_33})(t) = -50t + 3673.85$
 $(\text{tonnage block-b_2_34})(t) = -50t + 10154.8$
 Updating (**crusher_supply pc3**) (8884.65) by 8884.65 for continuous update.
 Updating (**current-time**) (1711.76) by 1785.25 for continuous update.
 Updating (**tonnage block-b_2_33**) (3673.85) by -0.75 for continuous update.
 Updating (**tonnage block-b_2_34**) (10154.8) by 6480.25 for continuous update.

1785.25: Checking Happening... ...OK!
 Deleting (not-partially-digged-block-b_2_33-build-1)
 Deleting (at loader_2 b_2_33)
 Adding (nodigging loader_2)
 Adding (partially-digged-block-b_2_33-build-1)
 Increasing (**trucks-available**) (10) by 0.

1791.76: Checking Happening... ...OK!

1791.76: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 8884.65$
 $(\text{current-time})(t) = t + 1785.25$
 $(\text{tonnage block-b_2_34})(t) = -50t + 6480.25$
Updating **(crusher_supply pc3)** (8884.65) by 8559.15 for continuous update.
Updating **(current-time)** (1785.25) by 1791.76 for continuous update.
Updating **(tonnage block-b_2_34)** (6480.25) by 6154.75 for continuous update.

1791.76: Checking Happening... ...OK!
Adding (at loader_2 locloader_2)

1791.76: Checking Happening... ...OK!

1791.76: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 8559.15$
 $(\text{current-time})(t) = t + 1791.76$
 $(\text{tonnage block-b_2_34})(t) = -50t + 6154.75$
Updating **(crusher_supply pc3)** (8559.15) by 8559.1 for continuous update.
Updating **(current-time)** (1791.76) by 1791.76 for continuous update.
Updating **(tonnage block-b_2_34)** (6154.75) by 6154.7 for continuous update.

1791.76: Checking Happening... ...OK!
Deleting (at loader_2 locloader_2)

1798.21: Checking Happening... ...OK!

1798.21: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 8559.1$
 $(\text{current-time})(t) = t + 1791.76$
 $(\text{tonnage block-b_2_34})(t) = -50t + 6154.7$
Updating **(crusher_supply pc3)** (8559.1) by 8236.6 for continuous update.
Updating **(current-time)** (1791.76) by 1798.21 for continuous update.

Updating (**tonnage block-b_2_34**) (6154.7) by 5832.2 for continuous update.

1798.21: Checking Happening... ...OK!
Adding (**at loader_2 b_2_32**)

1798.21: Checking Happening... ...OK!

1798.21: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 8236.6$
 $(\text{current-time})(t) = t + 1798.21$
 $(\text{tonnage block-b_2_34})(t) = -50t + 5832.2$
Updating (**crusher_supply pc3**) (8236.6) by 8236.55 for continuous update.
Updating (**current-time**) (1798.21) by 1798.21 for continuous update.
Updating (**tonnage block-b_2_34**) (5832.2) by 5832.15 for continuous update.

1798.21: Checking Happening... ...OK!
Deleting (**nodigging loader_2**)
Decreasing (**trucks-available**) (10) by 0.

1914.86: Checking Happening... ...OK!

1914.86: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 8236.55$
 $(\text{current-time})(t) = t + 1798.21$
 $(\text{tonnage block-b_2_32})(t) = -50t + 10000$
 $(\text{tonnage block-b_2_34})(t) = -50t + 5832.15$
Updating (**crusher_supply pc3**) (8236.55) by 8236.55 for continuous update.
Updating (**current-time**) (1798.21) by 1914.86 for continuous update.
Updating (**tonnage block-b_2_32**) (10000) by 4167.85 for continuous update.
Updating (**tonnage block-b_2_34**) (5832.15) by -5.45697e-12 for continuous update.

1914.86: Checking Happening... ...OK!
Deleting (**not-digged-block-b_2_34-build-2**)
Deleting (**at loader_3 b_2_34**)

Adding (nodigging loader_3)
 Adding (digged-block-b_2_34-build-2)
 Increasing (trucks-available) (10) by 0.

1921.42: Checking Happening... ...OK!

1921.42: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 8236.55$
 $(\text{current-time})(t) = t + 1914.86$
 $(\text{tonnage block-b_2_32})(t) = -50t + 4167.85$
 Updating (crusher_supply pc3) (8236.55) by 7908.05 for continuous update.
 Updating (current-time) (1914.86) by 1921.42 for continuous update.
 Updating (tonnage block-b_2_32) (4167.85) by 3839.35 for continuous update.

1921.42: Checking Happening... ...OK!
 Adding (at loader_3 locloader_2)

1921.43: Checking Happening... ...OK!

1921.43: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 7908.05$
 $(\text{current-time})(t) = t + 1921.42$
 $(\text{tonnage block-b_2_32})(t) = -50t + 3839.35$
 Updating (crusher_supply pc3) (7908.05) by 7908 for continuous update.
 Updating (current-time) (1921.42) by 1921.43 for continuous update.
 Updating (tonnage block-b_2_32) (3839.35) by 3839.3 for continuous update.

1921.43: Checking Happening... ...OK!
 Deleting (at loader_3 locloader_2)

1927.68: Checking Happening... ...OK!

1927.68: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 7908$
 $(\text{current-time})(t) = t + 1921.43$

$(\text{tonnage block-b_2_32})(t) = -50t + 3839.3$
 Updating **(crusher_supply pc3)** (7908) by 7595.5 for continuous update.
 Updating **(current-time)** (1921.43) by 1927.68 for continuous update.
 Updating **(tonnage block-b_2_32)** (3839.3) by 3526.8 for continuous update.

1927.68: Checking Happening... ...OK!
 Adding **(at loader_3 b_2_31)**

1927.68: Checking Happening... ...OK!

1927.68: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 7595.5$
 $(\text{current-time})(t) = t + 1927.68$
 $(\text{tonnage block-b_2_32})(t) = -50t + 3526.8$
 Updating **(crusher_supply pc3)** (7595.5) by 7595.45 for continuous update.
 Updating **(current-time)** (1927.68) by 1927.68 for continuous update.
 Updating **(tonnage block-b_2_32)** (3526.8) by 3526.75 for continuous update.

1927.68: Checking Happening... ...OK!
 Deleting **(nodigging loader_3)**
 Decreasing **(trucks-available)** (10) by 0.

1998.21: Checking Happening... ...OK!

1998.21: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 7595.45$
 $(\text{current-time})(t) = t + 1927.68$
 $(\text{tonnage block-b_2_31})(t) = -50t + 5000$
 $(\text{tonnage block-b_2_32})(t) = -50t + 3526.75$
 Updating **(crusher_supply pc3)** (7595.45) by 7595.45 for continuous update.
 Updating **(current-time)** (1927.68) by 1998.21 for continuous update.
 Updating **(tonnage block-b_2_31)** (5000) by 1473.25 for continuous update.

Updating (**tonnage block-b_2_32**) (3526.75) by 0 for continuous update.

1998.21: Checking Happening... ...OK!
 Deleting (**not-digged-block-b_2_32-build-2**)
 Deleting (**at loader_2 b_2_32**)
 Adding (**nodigging loader_2**)
 Adding (**digged-block-b_2_32-build-2**)
 Increasing (**trucks-available**) (10) by 0.

2004.66: Checking Happening... ...OK!

2004.66: Checking Happening... ...OK!
 (**crusher_supply pc3**)(t) = $-50t + 7595.45$
 (**current-time**)(t) = $t + 1998.21$
 (**tonnage block-b_2_31**)(t) = $-50t + 1473.25$
 Updating (**crusher_supply pc3**) (7595.45) by 7272.95 for continuous update.
 Updating (**current-time**) (1998.21) by 2004.66 for continuous update.
 Updating (**tonnage block-b_2_31**) (1473.25) by 1150.75 for continuous update.

2004.66: Checking Happening... ...OK!
 Adding (**at loader_2 locloader_2**)

2004.66: Checking Happening... ...OK!

2004.66: Checking Happening... ...OK!
 (**crusher_supply pc3**)(t) = $-50t + 7272.95$
 (**current-time**)(t) = $t + 2004.66$
 (**tonnage block-b_2_31**)(t) = $-50t + 1150.75$
 Updating (**crusher_supply pc3**) (7272.95) by 7272.9 for continuous update.
 Updating (**current-time**) (2004.66) by 2004.66 for continuous update.
 Updating (**tonnage block-b_2_31**) (1150.75) by 1150.7 for continuous update.

2004.66: Checking Happening... ...OK!
 Deleting (**at loader_2 locloader_2**)

2011.33: Checking Happening... ...OK!

2011.33: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 7272.9$
 $(\text{current-time})(t) = t + 2004.66$
 $(\text{tonnage block-b_2_31})(t) = -50t + 1150.7$
Updating $(\text{crusher_supply pc3})$ (7272.9) by 6939.4 for continuous update.
Updating (current-time) (2004.66) by 2011.33 for continuous update.
Updating $(\text{tonnage block-b_2_31})$ (1150.7) by 817.2 for continuous update.

2011.33: Checking Happening... ...OK!
Adding (at loader_2 b_2_19)

2011.33: Checking Happening... ...OK!

2011.33: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 6939.4$
 $(\text{current-time})(t) = t + 2011.33$
 $(\text{tonnage block-b_2_31})(t) = -50t + 817.2$
Updating $(\text{crusher_supply pc3})$ (6939.4) by 6939.35 for continuous update.
Updating (current-time) (2011.33) by 2011.33 for continuous update.
Updating $(\text{tonnage block-b_2_31})$ (817.2) by 817.15 for continuous update.

2011.33: Checking Happening... ...OK!
Deleting (at loader_2 b_2_19)

2018.78: Checking Happening... ...OK!

2018.78: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 6939.35$
 $(\text{current-time})(t) = t + 2011.33$
 $(\text{tonnage block-b_2_31})(t) = -50t + 817.15$
Updating $(\text{crusher_supply pc3})$ (6939.35) by 6566.85 for continuous update.

Updating (**current-time**) (2011.33) by 2018.78 for continuous update.
Updating (**tonnage block-b_2_31**) (817.15) by 444.65 for continuous update.

2018.78: Checking Happening... ...OK!
Adding (at loader_2 b_2_26)

2018.79: Checking Happening... ...OK!

2018.79: Checking Happening... ...OK!
(**crusher_supply pc3**)(t) = $-50t + 6566.85$
(**current-time**)(t) = $t + 2018.78$
(**tonnage block-b_2_31**)(t) = $-50t + 444.65$
Updating (**crusher_supply pc3**) (6566.85) by 6566.8 for continuous update.
Updating (**current-time**) (2018.78) by 2018.79 for continuous update.
Updating (**tonnage block-b_2_31**) (444.65) by 444.6 for continuous update.

2018.79: Checking Happening... ...OK!
Deleting (at loader_2 b_2_26)

2026.24: Checking Happening... ...OK!

2026.24: Checking Happening... ...OK!
(**crusher_supply pc3**)(t) = $-50t + 6566.8$
(**current-time**)(t) = $t + 2018.79$
(**tonnage block-b_2_31**)(t) = $-50t + 444.6$
Updating (**crusher_supply pc3**) (6566.8) by 6194.3 for continuous update.
Updating (**current-time**) (2018.79) by 2026.24 for continuous update.
Updating (**tonnage block-b_2_31**) (444.6) by 72.1 for continuous update.

2026.24: Checking Happening... ...OK!
Adding (at loader_2 b_2_19)

2026.24: Checking Happening... ...OK!

2026.24: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 6194.3$
 $(\text{current-time})(t) = t + 2026.24$
 $(\text{tonnage block-b_2_31})(t) = -50t + 72.1$
Updating **(crusher_supply pc3)** (6194.3) by 6194.25 for continuous update.
Updating **(current-time)** (2026.24) by 2026.24 for continuous update.
Updating **(tonnage block-b_2_31)** (72.1) by 72.05 for continuous update.

2026.24: Checking Happening... ...OK!
Deleting **(nodigging loader_2)**
Decreasing **(trucks-available)** (10) by 0.

2027.68: Checking Happening... ...OK!

2027.68: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 6194.25$
 $(\text{current-time})(t) = t + 2026.24$
 $(\text{tonnage block-b_2_19})(t) = -50t + 49263$
 $(\text{tonnage block-b_2_31})(t) = -50t + 72.05$
Updating **(crusher_supply pc3)** (6194.25) by 6194.25 for continuous update.
Updating **(current-time)** (2026.24) by 2027.68 for continuous update.
Updating **(tonnage block-b_2_19)** (49263) by 49191 for continuous update.
Updating **(tonnage block-b_2_31)** (72.05) by 0 for continuous update.

2027.68: Checking Happening... ...OK!
Deleting **(not-digged-block-b_2_31-build-2)**
Deleting **(at loader_3 b_2_31)**
Adding **(nodigging loader_3)**
Adding **(digged-block-b_2_31-build-2)**
Increasing **(trucks-available)** (10) by 0.

2028.86: Checking Happening... ...OK!

2028.86: Checking Happening... ...OK!

$(\text{crusher_supply pc3})(t) = -50t + 6194.25$
 $(\text{current-time})(t) = t + 2027.68$
 $(\text{tonnage block-b_2_19})(t) = -50t + 49191$
 Updating **(crusher_supply pc3)** (6194.25) by 6135.25 for continuous update.
 Updating **(current-time)** (2027.68) by 2028.86 for continuous update.
 Updating **(tonnage block-b_2_19)** (49191) by 49132 for continuous update.

2028.86: Checking Happening... ...OK!
 Adding **(at loader_3 b_2_30)**

2028.86: Checking Happening... ...OK!

2028.86: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 6135.25$
 $(\text{current-time})(t) = t + 2028.86$
 $(\text{tonnage block-b_2_19})(t) = -50t + 49132$
 Updating **(crusher_supply pc3)** (6135.25) by 6135.2 for continuous update.
 Updating **(current-time)** (2028.86) by 2028.86 for continuous update.
 Updating **(tonnage block-b_2_19)** (49132) by 49131.9 for continuous update.

2028.86: Checking Happening... ...OK!
 Deleting **(nodigging loader_3)**
 Decreasing **(trucks-available)** (10) by 0.

2128.86: Checking Happening... ...OK!

2128.86: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 6135.2$
 $(\text{current-time})(t) = t + 2028.86$
 $(\text{tonnage block-b_2_19})(t) = -50t + 49131.9$
 $(\text{tonnage block-b_2_30})(t) = -50t + 5000$
 Updating **(crusher_supply pc3)** (6135.2) by 6135.2 for continuous update.
 Updating **(current-time)** (2028.86) by 2128.86 for continuous update.

Updating (**tonnage block-b_2_19**) (49131.9) by 44131.9 for continuous update.
Updating (**tonnage block-b_2_30**) (5000) by -1.13687e-11 for continuous update.

2128.86: Checking Happening... ...OK!
Deleting (not-digged-block-b_2_30-build-2)
Deleting (at loader_3 b_2_30)
Adding (nodigging loader_3)
Adding (digged-block-b_2_30-build-2)
Increasing (**trucks-available**) (10) by 0.

2134.88: Checking Happening... ...OK!

2134.88: Checking Happening... ...OK!
(**crusher_supply pc3**)(t) = $-50t + 6135.2$
(**current-time**)(t) = $t + 2128.86$
(**tonnage block-b_2_19**)(t) = $-50t + 44131.9$
Updating (**crusher_supply pc3**) (6135.2) by 5834.2 for continuous update.
Updating (**current-time**) (2128.86) by 2134.88 for continuous update.
Updating (**tonnage block-b_2_19**) (44131.9) by 43830.9 for continuous update.

2134.88: Checking Happening... ...OK!
Adding (at loader_3 locloader_2)

2134.88: Checking Happening... ...OK!

2134.88: Checking Happening... ...OK!
(**crusher_supply pc3**)(t) = $-50t + 5834.2$
(**current-time**)(t) = $t + 2134.88$
(**tonnage block-b_2_19**)(t) = $-50t + 43830.9$
Updating (**crusher_supply pc3**) (5834.2) by 5834.15 for continuous update.
Updating (**current-time**) (2134.88) by 2134.88 for continuous update.
Updating (**tonnage block-b_2_19**) (43830.9) by 43830.9 for continuous update.

2134.88: Checking Happening... ...OK!

Deleting (at loader_3 locloader_2)

2141.46: Checking Happening... ...OK!

2141.46: Checking Happening... ...OK!

(crusher_supply pc3)(t) = $-50t + 5834.15$

(current-time)(t) = $t + 2134.88$

(tonnage block-b_2_19)(t) = $-50t + 43830.9$

Updating (crusher_supply pc3) (5834.15) by 5505.15 for continuous update.

Updating (current-time) (2134.88) by 2141.46 for continuous update.

Updating (tonnage block-b_2_19) (43830.9) by 43501.9 for continuous update.

2141.46: Checking Happening... ...OK!

Adding (at loader_3 b_2_18)

2141.46: Checking Happening... ...OK!

2141.46: Checking Happening... ...OK!

(crusher_supply pc3)(t) = $-50t + 5505.15$

(current-time)(t) = $t + 2141.46$

(tonnage block-b_2_19)(t) = $-50t + 43501.9$

Updating (crusher_supply pc3) (5505.15) by 5505.1 for continuous update.

Updating (current-time) (2141.46) by 2141.46 for continuous update.

Updating (tonnage block-b_2_19) (43501.9) by 43501.8 for continuous update.

2141.46: Checking Happening... ...OK!

Deleting (nodigging loader_3)

Decreasing (trucks-available) (10) by 0.

2941.34: Checking Happening... ...OK!

2941.34: Checking Happening... ...OK!

(crusher_supply pc3)(t) = 5505.1

(current-time)(t) = $t + 2141.46$

(tonnage block-b_2_18)(t) = $-50t + 39994$

$(\text{tonnage block-b_2_19})(t) = -50t + 43501.8$
 Updating (**crusher_supply pc3**) (5505.1) by 5505.1 for continuous update.
 Updating (**current-time**) (2141.46) by 2941.34 for continuous update.
 Updating (**tonnage block-b_2_18**) (39994) by -5.45697e-12 for continuous update.
 Updating (**tonnage block-b_2_19**) (43501.8) by 3507.8 for continuous update.

2941.34: Checking Happening... ...OK!
 Deleting (**not-digged-block-b_2_18-build-1**)
 Deleting (**at loader_3 b_2_18**)
 Adding (**nodigging loader_3**)
 Adding (**digged-block-b_2_18-build-1**)
 Increasing (**trucks-available**) (10) by 0.

2952.96: Checking Happening... ...OK!

2952.96: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 5505.1$
 $(\text{current-time})(t) = t + 2941.34$
 $(\text{tonnage block-b_2_19})(t) = -50t + 3507.8$
 Updating (**crusher_supply pc3**) (5505.1) by 4924.1 for continuous update.
 Updating (**current-time**) (2941.34) by 2952.96 for continuous update.
 Updating (**tonnage block-b_2_19**) (3507.8) by 2926.8 for continuous update.

2952.96: Checking Happening... ...OK!
 Adding (**at loader_3 b_2_29**)

2952.96: Checking Happening... ...OK!

2952.96: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 4924.1$
 $(\text{current-time})(t) = t + 2952.96$
 $(\text{tonnage block-b_2_19})(t) = -50t + 2926.8$
 Updating (**crusher_supply pc3**) (4924.1) by 4924.05 for continuous update.

Updating (**current-time**) (2952.96) by 2952.96 for continuous update.
Updating (**tonnage block-b_2_19**) (2926.8) by 2926.75 for continuous update.

2952.96: Checking Happening... ...OK!
Deleting (**nodigging loader_3**)
Decreasing (**trucks-available**) (10) by 0.

3011.5: Checking Happening... ...OK!

3011.5: Checking Happening... ...OK!
(**crusher_supply pc3**)(t) = 4924.05
(**current-time**)(t) = $t + 2952.96$
(**tonnage block-b_2_19**)(t) = $-50t + 2926.75$
(**tonnage block-b_2_29**)(t) = $-50t + 5000$
Updating (**crusher_supply pc3**) (4924.05) by 4924.05 for continuous update.
Updating (**current-time**) (2952.96) by 3011.5 for continuous update.
Updating (**tonnage block-b_2_19**) (2926.75) by 7.27596e-12 for continuous update.
Updating (**tonnage block-b_2_29**) (5000) by 2073.25 for continuous update.

3011.5: Checking Happening... ...OK!
Deleting (**not-digged-block-b_2_19-build-0**)
Deleting (**at loader_2 b_2_19**)
Adding (**nodigging loader_2**)
Adding (**digged-block-b_2_19-build-0**)
Increasing (**trucks-available**) (10) by 0.

3018.95: Checking Happening... ...OK!

3018.95: Checking Happening... ...OK!
(**crusher_supply pc3**)(t) = $-50t + 4924.05$
(**current-time**)(t) = $t + 3011.5$
(**tonnage block-b_2_29**)(t) = $-50t + 2073.25$
Updating (**crusher_supply pc3**) (4924.05) by 4551.55 for continuous update.
Updating (**current-time**) (3011.5) by 3018.95 for continuous update.

Updating (**tonnage block-b_2_29**) (2073.25) by 1700.75 for continuous update.

3018.95: Checking Happening... ...OK!
Adding (**at loader_2 b_2_26**)

3018.95: Checking Happening... ...OK!

3018.95: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 4551.55$
 $(\text{current-time})(t) = t + 3018.95$
 $(\text{tonnage block-b_2_29})(t) = -50t + 1700.75$
Updating (**crusher_supply pc3**) (4551.55) by 4551.5 for continuous update.
Updating (**current-time**) (3018.95) by 3018.95 for continuous update.
Updating (**tonnage block-b_2_29**) (1700.75) by 1700.7 for continuous update.

3018.95: Checking Happening... ...OK!
Deleting (**at loader_2 b_2_26**)

3025.22: Checking Happening... ...OK!

3025.22: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = -50t + 4551.5$
 $(\text{current-time})(t) = t + 3018.95$
 $(\text{tonnage block-b_2_29})(t) = -50t + 1700.7$
Updating (**crusher_supply pc3**) (4551.5) by 4238 for continuous update.
Updating (**current-time**) (3018.95) by 3025.22 for continuous update.
Updating (**tonnage block-b_2_29**) (1700.7) by 1387.2 for continuous update.

3025.22: Checking Happening... ...OK!
Adding (**at loader_2 b_2_21**)

3025.22: Checking Happening... ...OK!

3025.22: Checking Happening... ...OK!

$(\text{crusher_supply pc3})(t) = -50t + 4238$
 $(\text{current-time})(t) = t + 3025.22$
 $(\text{tonnage block-b_2_29})(t) = -50t + 1387.2$
 Updating **(crusher_supply pc3)** (4238) by 4237.95 for continuous update.
 Updating **(current-time)** (3025.22) by 3025.22 for continuous update.
 Updating **(tonnage block-b_2_29)** (1387.2) by 1387.15 for continuous update.

3025.22: Checking Happening... ...OK!
 Deleting **(nodigging loader_2)**
 Decreasing **(trucks-available)** (10) by 0.

3025.22: Checking Happening... ...OK!

3025.22: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 4237.95$
 $(\text{current-time})(t) = t + 3025.22$
 $(\text{tonnage block-b_2_21})(t) = -50t + 49778$
 $(\text{tonnage block-b_2_29})(t) = -50t + 1387.15$
 Updating **(crusher_supply pc3)** (4237.95) by 4237.95 for continuous update.
 Updating **(current-time)** (3025.22) by 3025.22 for continuous update.
 Updating **(tonnage block-b_2_21)** (49778) by 49777.9 for continuous update.
 Updating **(tonnage block-b_2_29)** (1387.15) by 1387.1 for continuous update.

3025.22: Checking Happening... ...OK!
 Deleting **(nodigging loader_2)**
 Decreasing **(trucks-available)** (10) by 0.

3036.44: Checking Happening... ...OK!

3036.44: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 50t + 4237.95$
 $(\text{current-time})(t) = t + 3025.22$
 $(\text{tonnage block-b_2_21})(t) = -100t + 49777.9$
 $(\text{tonnage block-b_2_29})(t) = -50t + 1387.1$

Updating (**crusher_supply pc3**) (4237.95) by 4798.95 for continuous update.
 Updating (**current-time**) (3025.22) by 3036.44 for continuous update.
 Updating (**tonnage block-b_2_21**) (49777.9) by 48656 for continuous update.
 Updating (**tonnage block-b_2_29**) (1387.1) by 826.1 for continuous update.

3036.44: Checking Happening... ...OK!
 Deleting (not-partially-digged-block-b_2_21-build-0)
 Deleting (at loader_2 b_2_21)
 Adding (nodigging loader_2)
 Adding (partially-digged-block-b_2_21-build-0)
 Increasing (**trucks-available**) (10) by 0.

3042.71: Checking Happening... ...OK!

3042.71: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 4798.95$
 $(\text{current-time})(t) = t + 3036.44$
 $(\text{tonnage block-b_2_21})(t) = -50t + 48656$
 $(\text{tonnage block-b_2_29})(t) = -50t + 826.1$
 Updating (**crusher_supply pc3**) (4798.95) by 4798.95 for continuous update.
 Updating (**current-time**) (3036.44) by 3042.71 for continuous update.
 Updating (**tonnage block-b_2_21**) (48656) by 48342.5 for continuous update.
 Updating (**tonnage block-b_2_29**) (826.1) by 512.6 for continuous update.

3042.71: Checking Happening... ...OK!
 Adding (at loader_2 b_2_26)

3042.71: Checking Happening... ...OK!

3042.71: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 4798.95$
 $(\text{current-time})(t) = t + 3042.71$
 $(\text{tonnage block-b_2_21})(t) = -50t + 48342.5$
 $(\text{tonnage block-b_2_29})(t) = -50t + 512.6$

Updating (**crusher_supply pc3**) (4798.95) by 4798.95 for continuous update.
 Updating (**current-time**) (3042.71) by 3042.71 for continuous update.
 Updating (**tonnage block-b_2_21**) (48342.5) by 48342.4 for continuous update.
 Updating (**tonnage block-b_2_29**) (512.6) by 512.55 for continuous update.

3042.71: Checking Happening... ...OK!
 Deleting (**nodigging loader_2**)
 Decreasing (**trucks-available**) (10) by 0.

3052.96: Checking Happening... ...OK!

3052.96: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 50t + 4798.95$
 $(\text{current-time})(t) = t + 3042.71$
 $(\text{tonnage block-b_2_21})(t) = -50t + 48342.4$
 $(\text{tonnage block-b_2_26})(t) = -50t + 8000$
 $(\text{tonnage block-b_2_29})(t) = -50t + 512.55$
 Updating (**crusher_supply pc3**) (4798.95) by 5311.5 for continuous update.
 Updating (**current-time**) (3042.71) by 3052.96 for continuous update.
 Updating (**tonnage block-b_2_21**) (48342.4) by 47829.9 for continuous update.
 Updating (**tonnage block-b_2_26**) (8000) by 7487.45 for continuous update.
 Updating (**tonnage block-b_2_29**) (512.55) by 0 for continuous update.

3052.96: Checking Happening... ...OK!
 Deleting (**not-digged-block-b_2_29-build-2**)
 Deleting (**at loader_3 b_2_29**)
 Adding (**nodigging loader_3**)
 Adding (**digged-block-b_2_29-build-2**)
 Increasing (**trucks-available**) (10) by 0.

3058.79: Checking Happening... ...OK!

3058.79: Checking Happening... ...OK!

$(\text{crusher_supply pc3})(t) = 5311.5$
 $(\text{current-time})(t) = t + 3052.96$
 $(\text{tonnage block-b_2_21})(t) = -50t + 47829.9$
 $(\text{tonnage block-b_2_26})(t) = -50t + 7487.45$
 Updating $(\text{crusher_supply pc3})$ (5311.5) by 5311.5 for continuous update.
 Updating (current-time) (3052.96) by 3058.79 for continuous update.
 Updating $(\text{tonnage block-b_2_21})$ (47829.9) by 47538.4 for continuous update.
 Updating $(\text{tonnage block-b_2_26})$ (7487.45) by 7195.95 for continuous update.

3058.79: Checking Happening... ...OK!
 Adding (at loader_3 locloader_2)

3058.79: Checking Happening... ...OK!

3058.79: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 5311.5$
 $(\text{current-time})(t) = t + 3058.79$
 $(\text{tonnage block-b_2_21})(t) = -50t + 47538.4$
 $(\text{tonnage block-b_2_26})(t) = -50t + 7195.95$
 Updating $(\text{crusher_supply pc3})$ (5311.5) by 5311.5 for continuous update.
 Updating (current-time) (3058.79) by 3058.79 for continuous update.
 Updating $(\text{tonnage block-b_2_21})$ (47538.4) by 47538.3 for continuous update.
 Updating $(\text{tonnage block-b_2_26})$ (7195.95) by 7195.9 for continuous update.

3058.79: Checking Happening... ...OK!
 Deleting (at loader_3 locloader_2)

3066.16: Checking Happening... ...OK!

3066.16: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 5311.5$
 $(\text{current-time})(t) = t + 3058.79$
 $(\text{tonnage block-b_2_21})(t) = -50t + 47538.3$
 $(\text{tonnage block-b_2_26})(t) = -50t + 7195.9$

Updating (**crusher_supply pc3**) (5311.5) by 5311.5 for continuous update.
Updating (**current-time**) (3058.79) by 3066.16 for continuous update.
Updating (**tonnage block-b_2_21**) (47538.3) by 47169.8 for continuous update.
Updating (**tonnage block-b_2_26**) (7195.9) by 6827.4 for continuous update.

3066.16: Checking Happening... ...OK!
Adding (**at loader_3 b_2_25**)

3066.16: Checking Happening... ...OK!

3066.16: Checking Happening... ...OK!
(**crusher_supply pc3**)(t) = 5311.5
(**current-time**)(t) = $t + 3066.16$
(**tonnage block-b_2_21**)(t) = $-50t + 47169.8$
(**tonnage block-b_2_26**)(t) = $-50t + 6827.4$
Updating (**crusher_supply pc3**) (5311.5) by 5311.5 for continuous update.
Updating (**current-time**) (3066.16) by 3066.16 for continuous update.
Updating (**tonnage block-b_2_21**) (47169.8) by 47169.8 for continuous update.
Updating (**tonnage block-b_2_26**) (6827.4) by 6827.35 for continuous update.

3066.16: Checking Happening... ...OK!
Deleting (**nodigging loader_3**)
Decreasing (**trucks-available**) (10) by 0.

3202.71: Checking Happening... ...OK!

3202.71: Checking Happening... ...OK!
(**crusher_supply pc3**)(t) = $50t + 5311.5$
(**current-time**)(t) = $t + 3066.16$
(**tonnage block-b_2_21**)(t) = $-50t + 47169.8$
(**tonnage block-b_2_25**)(t) = $-50t + 8000$
(**tonnage block-b_2_26**)(t) = $-50t + 6827.35$
Updating (**crusher_supply pc3**) (5311.5) by 12138.8 for continuous update.

Updating (**current-time**) (3066.16) by 3202.71 for continuous update.
Updating (**tonnage block-b_2_21**) (47169.8) by 40342.4 for continuous update.
Updating (**tonnage block-b_2_25**) (8000) by 1172.65 for continuous update.
Updating (**tonnage block-b_2_26**) (6827.35) by 0 for continuous update.

3202.71: Checking Happening... ...OK!
Deleting (**not-digged-block-b_2_26-build-2**)
Deleting (**at loader_2 b_2_26**)
Adding (**nodigging loader_2**)
Adding (**digged-block-b_2_26-build-2**)
Increasing (**trucks-available**) (10) by 0.

3204.49: Checking Happening... ...OK!

3204.49: Checking Happening... ...OK!
(**crusher_supply pc3**)(t) = 12138.8
(**current-time**)(t) = $t + 3202.71$
(**tonnage block-b_2_21**)(t) = $-50t + 40342.4$
(**tonnage block-b_2_25**)(t) = $-50t + 1172.65$
Updating (**crusher_supply pc3**) (12138.8) by 12138.8 for continuous update.
Updating (**current-time**) (3202.71) by 3204.49 for continuous update.
Updating (**tonnage block-b_2_21**) (40342.4) by 40253.4 for continuous update.
Updating (**tonnage block-b_2_25**) (1172.65) by 1083.65 for continuous update.

3204.49: Checking Happening... ...OK!
Adding (**at loader_2 b_2_24**)

3204.49: Checking Happening... ...OK!

3204.49: Checking Happening... ...OK!
(**crusher_supply pc3**)(t) = 12138.8
(**current-time**)(t) = $t + 3204.49$
(**tonnage block-b_2_21**)(t) = $-50t + 40253.4$
(**tonnage block-b_2_25**)(t) = $-50t + 1083.65$

Updating (**crusher_supply pc3**) (12138.8) by 12138.8 for continuous update.
Updating (**current-time**) (3204.49) by 3204.49 for continuous update.
Updating (**tonnage block-b_2_21**) (40253.4) by 40253.4 for continuous update.
Updating (**tonnage block-b_2_25**) (1083.65) by 1083.6 for continuous update.

3204.49: Checking Happening... ...OK!
Deleting (**nodigging loader_2**)
Decreasing (**trucks-available**) (10) by 0.

3226.16: Checking Happening... ...OK!

3226.16: Checking Happening... ...OK!
(**crusher_supply pc3**)(t) = $50t + 12138.8$
(**current-time**)(t) = $t + 3204.49$
(**tonnage block-b_2_21**)(t) = $-50t + 40253.4$
(**tonnage block-b_2_24**)(t) = $-50t + 10000$
(**tonnage block-b_2_25**)(t) = $-50t + 1083.6$
Updating (**crusher_supply pc3**) (12138.8) by 13222.4 for continuous update.
Updating (**current-time**) (3204.49) by 3226.16 for continuous update.
Updating (**tonnage block-b_2_21**) (40253.4) by 39169.8 for continuous update.
Updating (**tonnage block-b_2_24**) (10000) by 8916.4 for continuous update.
Updating (**tonnage block-b_2_25**) (1083.6) by 0 for continuous update.

3226.16: Checking Happening... ...OK!
Deleting (**not-digged-block-b_2_25-build-2**)
Deleting (**at loader_3 b_2_25**)
Adding (**nodigging loader_3**)
Adding (**digged-block-b_2_25-build-2**)
Increasing (**trucks-available**) (10) by 0.

3228: Checking Happening... ...OK!

3228: Checking Happening... ...OK!

$(\text{crusher_supply pc3})(t) = 13222.5$
 $(\text{current-time})(t) = t + 3226.16$
 $(\text{tonnage block-b_2_21})(t) = -50t + 39169.8$
 $(\text{tonnage block-b_2_24})(t) = -50t + 8916.4$
 Updating **(crusher_supply pc3)** (13222.4) by 13222.5 for continuous update.
 Updating **(current-time)** (3226.16) by 3228 for continuous update.
 Updating **(tonnage block-b_2_21)** (39169.8) by 39077.8 for continuous update.
 Updating **(tonnage block-b_2_24)** (8916.4) by 8824.4 for continuous update.

3228: Checking Happening... ...OK!
 Adding (at loader_3 b_2_23)

3228: Checking Happening... ...OK!

3228: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 13222.5$
 $(\text{current-time})(t) = t + 3228$
 $(\text{tonnage block-b_2_21})(t) = -50t + 39077.8$
 $(\text{tonnage block-b_2_24})(t) = -50t + 8824.4$
 Updating **(crusher_supply pc3)** (13222.5) by 13222.5 for continuous update.
 Updating **(current-time)** (3228) by 3228 for continuous update.
 Updating **(tonnage block-b_2_21)** (39077.8) by 39077.7 for continuous update.
 Updating **(tonnage block-b_2_24)** (8824.4) by 8824.35 for continuous update.

3228: Checking Happening... ...OK!
 Deleting (nodigging loader_3)
 Decreasing **(trucks-available)** (10) by 0.

3388: Checking Happening... ...OK!

3388: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 50t + 13222.5$
 $(\text{current-time})(t) = t + 3228$
 $(\text{tonnage block-b_2_21})(t) = -50t + 39077.7$
 $(\text{tonnage block-b_2_23})(t) = -50t + 8000$

(tonnage block-b_2_24)(t) = $-50t + 8824.35$

Updating **(crusher_supply pc3)** (13222.5) by 21222.5 for continuous update.

Updating **(current-time)** (3228) by 3388 for continuous update.

Updating **(tonnage block-b_2_21)** (39077.7) by 31077.7 for continuous update.

Updating **(tonnage block-b_2_23)** (8000) by 0 for continuous update.

Updating **(tonnage block-b_2_24)** (8824.35) by 824.35 for continuous update.

3388: Checking Happening... ...OK!
 Deleting (not-digged-block-b_2_23-build-2)
 Deleting (at loader_3 b_2_23)
 Adding (nodigging loader_3)
 Adding (digged-block-b_2_23-build-2)
 Increasing **(trucks-available)** (10) by 0.

3390.96: Checking Happening... ...OK!

3390.96: Checking Happening... ...OK!
 (crusher_supply pc3)(t) = 21222.5
 (current-time)(t) = $t + 3388$
 (tonnage block-b_2_21)(t) = $-50t + 31077.7$
 (tonnage block-b_2_24)(t) = $-50t + 824.35$
 Updating **(crusher_supply pc3)** (21222.5) by 21222.5 for continuous update.
 Updating **(current-time)** (3388) by 3390.96 for continuous update.
 Updating **(tonnage block-b_2_21)** (31077.7) by 30929.7 for continuous update.
 Updating **(tonnage block-b_2_24)** (824.35) by 676.35 for continuous update.

3390.96: Checking Happening... ...OK!
 Adding (at loader_3 b_2_22)

3390.97: Checking Happening... ...OK!

3390.97: Checking Happening... ...OK!
 (crusher_supply pc3)(t) = 21222.5
 (current-time)(t) = $t + 3390.96$

$(\text{tonnage block-b_2_21})(t) = -50t + 30929.7$
 $(\text{tonnage block-b_2_24})(t) = -50t + 676.35$
 Updating (**crusher_supply pc3**) (21222.5) by 21222.5 for continuous update.
 Updating (**current-time**) (3390.96) by 3390.97 for continuous update.
 Updating (**tonnage block-b_2_21**) (30929.7) by 30929.7 for continuous update.
 Updating (**tonnage block-b_2_24**) (676.35) by 676.3 for continuous update.

3390.97: Checking Happening... ...OK!
 Deleting (**nodigging loader_3**)
 Decreasing (**trucks-available**) (10) by 0.

3404.49: Checking Happening... ...OK!

3404.49: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 50t + 21222.5$
 $(\text{current-time})(t) = t + 3390.97$
 $(\text{tonnage block-b_2_21})(t) = -50t + 30929.7$
 $(\text{tonnage block-b_2_22})(t) = -50t + 8000$
 $(\text{tonnage block-b_2_24})(t) = -50t + 676.3$
 Updating (**crusher_supply pc3**) (21222.5) by 21898.7 for continuous update.
 Updating (**current-time**) (3390.97) by 3404.49 for continuous update.
 Updating (**tonnage block-b_2_21**) (30929.7) by 30253.4 for continuous update.
 Updating (**tonnage block-b_2_22**) (8000) by 7323.7 for continuous update.
 Updating (**tonnage block-b_2_24**) (676.3) by -1.81899e-12 for continuous update.

3404.49: Checking Happening... ...OK!
 Deleting (**not-digged-block-b_2_24-build-2**)
 Deleting (**at loader_2 b_2_24**)
 Adding (**nodigging loader_2**)
 Adding (**digged-block-b_2_24-build-2**)
 Increasing (**trucks-available**) (10) by 0.

3409.31: Checking Happening... ...OK!

3409.31: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 21898.7$
 $(\text{current-time})(t) = t + 3404.49$
 $(\text{tonnage block-b_2_21})(t) = -50t + 30253.4$
 $(\text{tonnage block-b_2_22})(t) = -50t + 7323.7$
Updating **(crusher_supply pc3)** (21898.7) by 21898.7 for continuous update.
Updating **(current-time)** (3404.49) by 3409.31 for continuous update.
Updating **(tonnage block-b_2_21)** (30253.4) by 30012.4 for continuous update.
Updating **(tonnage block-b_2_22)** (7323.7) by 7082.7 for continuous update.

3409.31: Checking Happening... ...OK!
Adding **(at loader_2 b_2_20)**

3409.31: Checking Happening... ...OK!

3409.31: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 21898.7$
 $(\text{current-time})(t) = t + 3409.31$
 $(\text{tonnage block-b_2_21})(t) = -50t + 30012.4$
 $(\text{tonnage block-b_2_22})(t) = -50t + 7082.7$
Updating **(crusher_supply pc3)** (21898.7) by 21898.7 for continuous update.
Updating **(current-time)** (3409.31) by 3409.31 for continuous update.
Updating **(tonnage block-b_2_21)** (30012.4) by 30012.3 for continuous update.
Updating **(tonnage block-b_2_22)** (7082.7) by 7082.65 for continuous update.

3409.31: Checking Happening... ...OK!
Deleting **(nodigging loader_2)**
Decreasing **(trucks-available)** (10) by 0.

3550.97: Checking Happening... ...OK!

3550.97: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 50t + 21898.7$

$(\text{current-time})(t) = t + 3409.31$
 $(\text{tonnage block-b_2_20})(t) = -50t + 47996$
 $(\text{tonnage block-b_2_21})(t) = -50t + 30012.3$
 $(\text{tonnage block-b_2_22})(t) = -50t + 7082.65$
 Updating (**crusher_supply pc3**) (21898.7) by 28981.4 for continuous update.
 Updating (**current-time**) (3409.31) by 3550.97 for continuous update.
 Updating (**tonnage block-b_2_20**) (47996) by 40913.3 for continuous update.
 Updating (**tonnage block-b_2_21**) (30012.3) by 22929.7 for continuous update.
 Updating (**tonnage block-b_2_22**) (7082.65) by 0 for continuous update.

3550.97: Checking Happening... ...OK!
 Deleting (not-digged-block-b_2_22-build-2)
 Adding (nodigging loader_3)
 Adding (digged-block-b_2_22-build-2)
 Increasing (**trucks-available**) (10) by 0.

3864.7: Checking Happening... ...OK!

3864.7: Checking Happening... ...OK!
 $(\text{crusher_supply pc3})(t) = 28981.4$
 $(\text{current-time})(t) = t + 3550.97$
 $(\text{tonnage block-b_2_20})(t) = -50t + 40913.3$
 $(\text{tonnage block-b_2_21})(t) = -50t + 22929.7$
 Updating (**crusher_supply pc3**) (28981.4) by 28981.4 for continuous update.
 Updating (**current-time**) (3550.97) by 3864.7 for continuous update.
 Updating (**tonnage block-b_2_20**) (40913.3) by 25226.7 for continuous update.
 Updating (**tonnage block-b_2_21**) (22929.7) by 7242.95 for continuous update.

3864.7: Checking Happening... ...OK!
 Deleting (not-partially-digged-block-b_2_21-build-1)
 Adding (nodigging loader_2)
 Adding (partially-digged-block-b_2_21-build-1)
 Increasing (**trucks-available**) (10) by 0.

4369.23: Checking Happening... ...OK!

4369.23: Checking Happening... ...OK!

(**crusher_supply pc3**)(t) = $-50t + 28981.4$

(**current-time**)(t) = $t + 3864.7$

(**tonnage block-b_2_20**)(t) = $-50t + 25226.7$

Updating (**crusher_supply pc3**) (28981.4) by 3754.75 for continuous update.

Updating (**current-time**) (3864.7) by 4369.23 for continuous update.

Updating (**tonnage block-b_2_20**) (25226.7) by -1.81899e-12 for continuous update.

4369.23: Checking Happening... ...OK!

Deleting (not-digged-block-b_2_20-build-0)

Adding (nodigging loader_2)

Adding (digged-block-b_2_20-build-0)

Increasing (**trucks-available**) (10) by 0.

Plan executed successfully - checking goal

2.4 Primitive Numerical Expression Graphs

2.5 Gantt Chart

Gantt Chart Key

Row 1

No	Time	Action
1	0	(move loader_2 locloader_2 b_2_45) [5.35]
4	5.351	(dig-block-b_2_45-build-1 loader_2) [407.26]
12	641.732	(move loader_2 b_2_42 locloader_2) [3.42]
13	645.153	(move loader_2 locloader_2 b_2_41) [3.94]
14	649.094	(dig-block-b_2_41-build-1 loader_2) [159.98]
21	924.105	(move loader_3 b_2_39 locloader_2) [3.86]
22	927.966	(move loader_3 locloader_2 b_2_37) [3.58]
23	931.547	(p-dig-block-b_2_37-build-1 loader_3) [166.123]
26	1137.94	(move loader_2 b_2_40 locloader_2) [3.72]

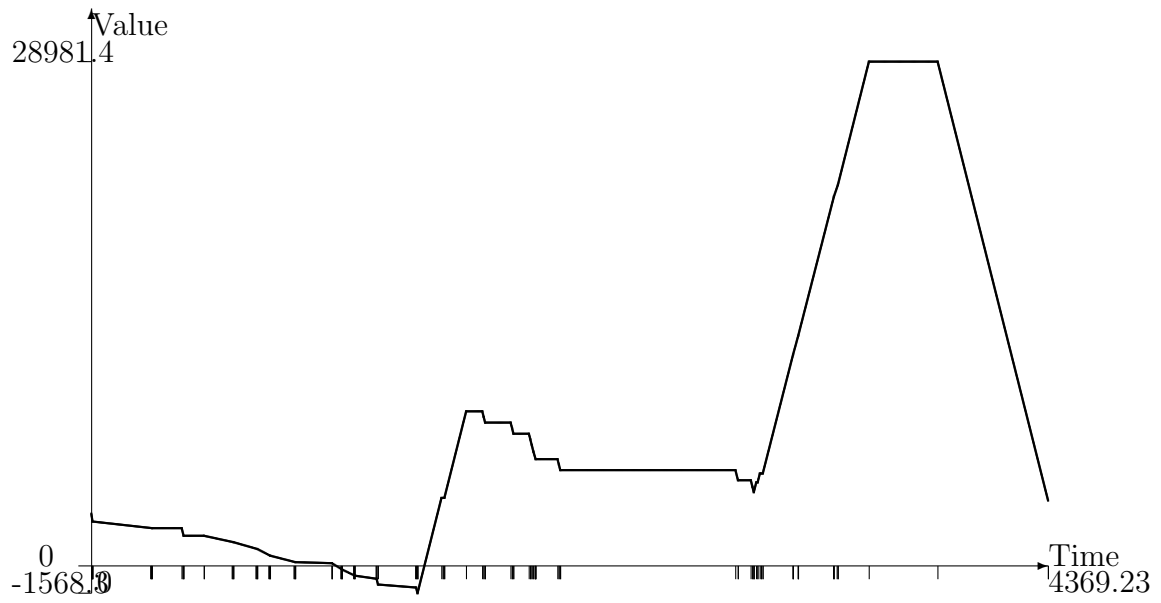


Figure 2.1: Graph of (crusher_supply pc3).

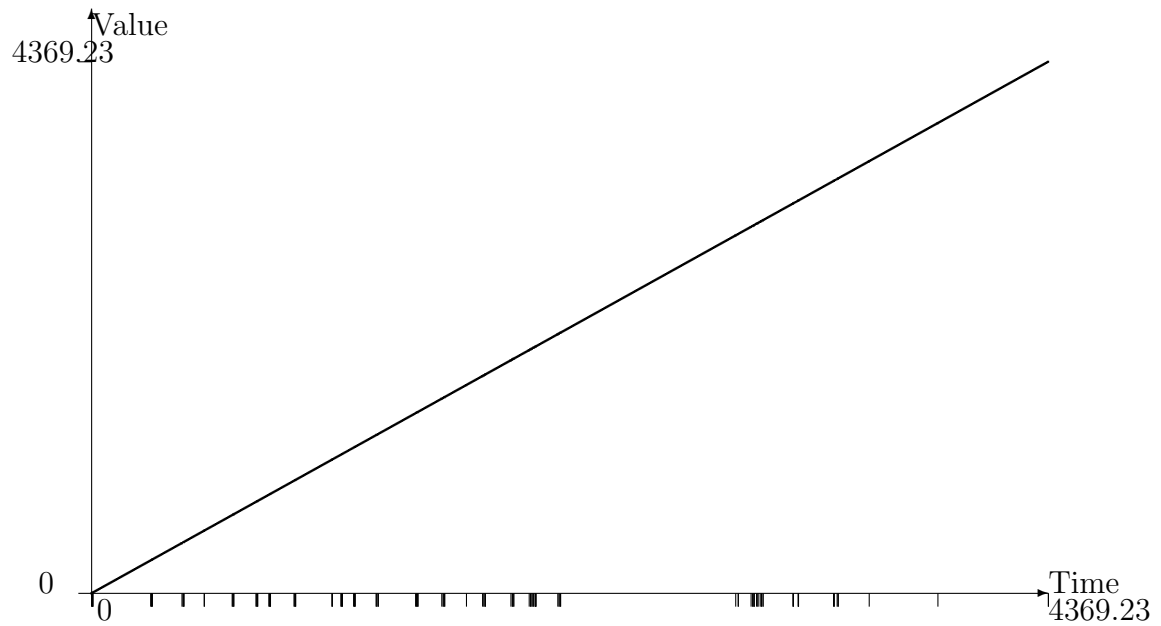


Figure 2.2: Graph of (current-time).

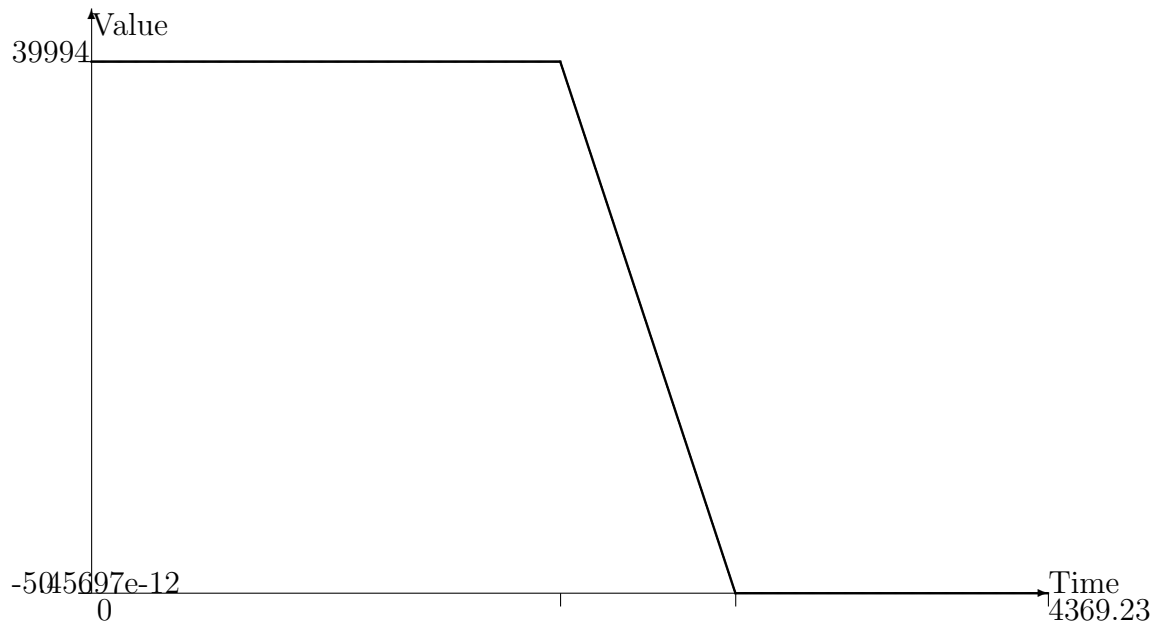


Figure 2.3: Graph of (tonnage block-b_{2_18}).

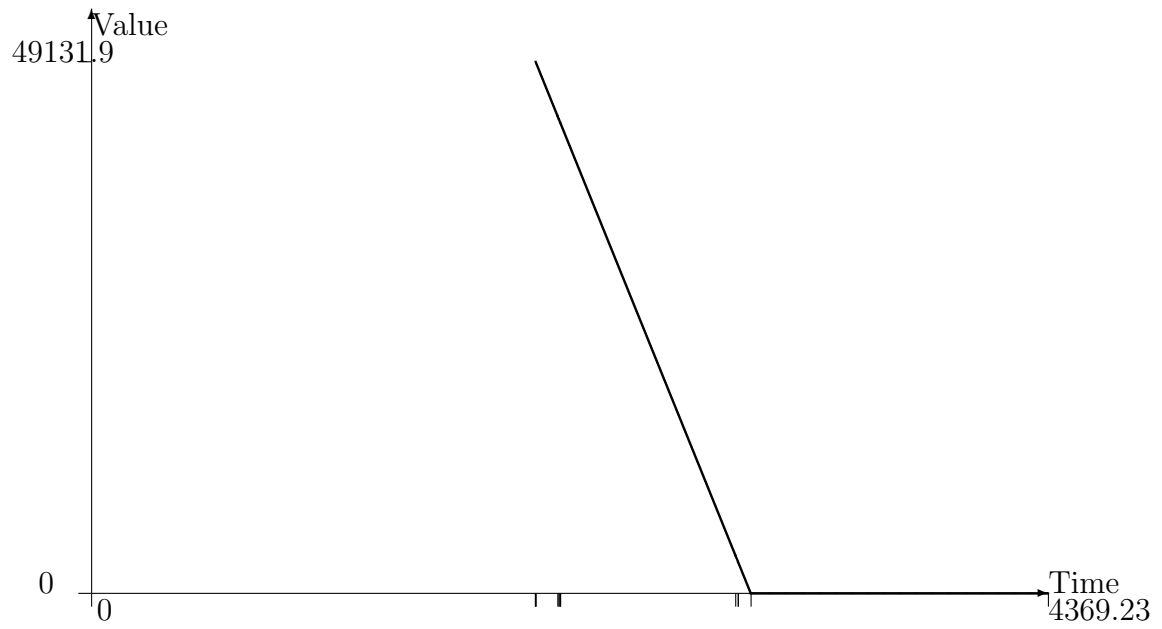


Figure 2.4: Graph of (tonnage block-b_{2_19}).

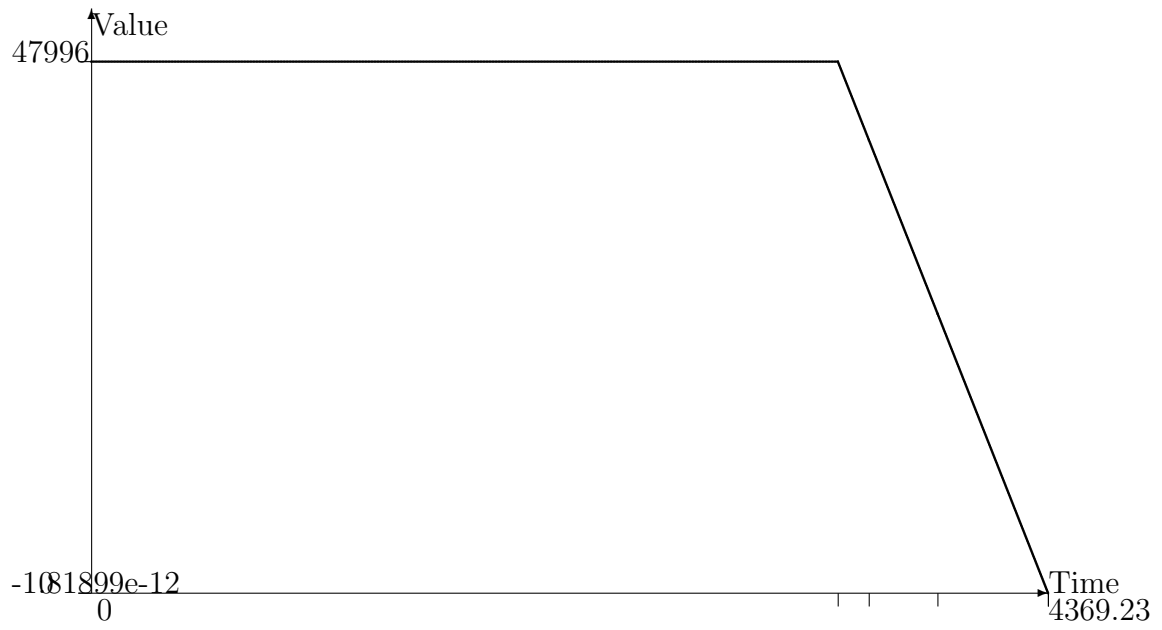


Figure 2.5: Graph of (tonnage block-b_{2_20}).

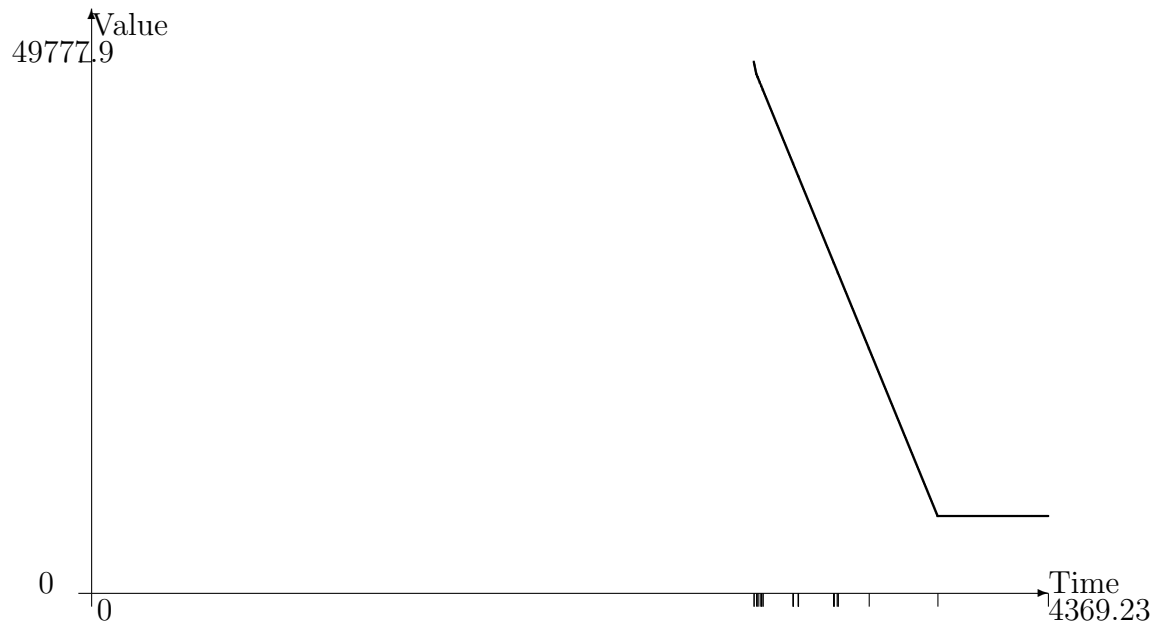


Figure 2.6: Graph of (tonnage block-b_{2_21}).

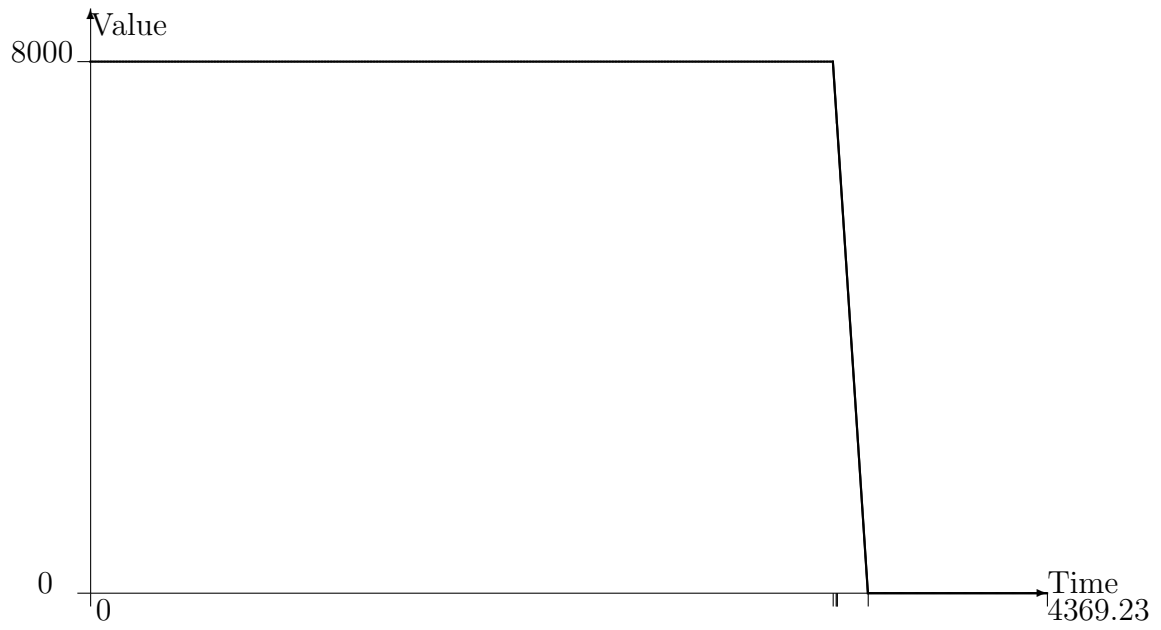


Figure 2.7: Graph of (tonnage block-b_{2_22}).

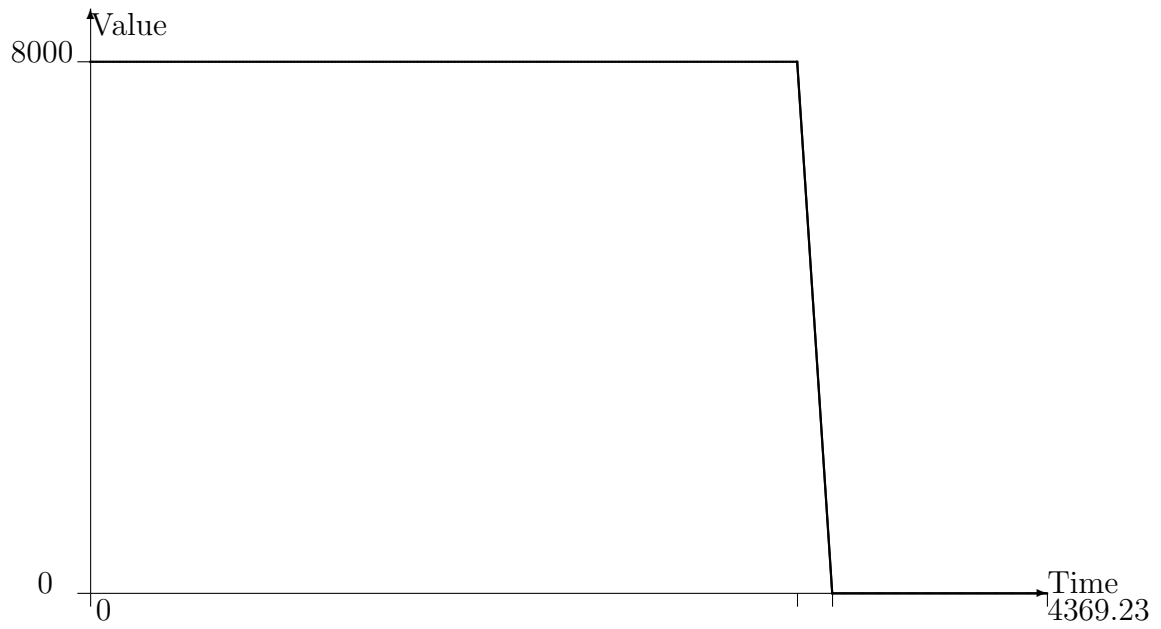


Figure 2.8: Graph of (tonnage block-b_{2_23}).

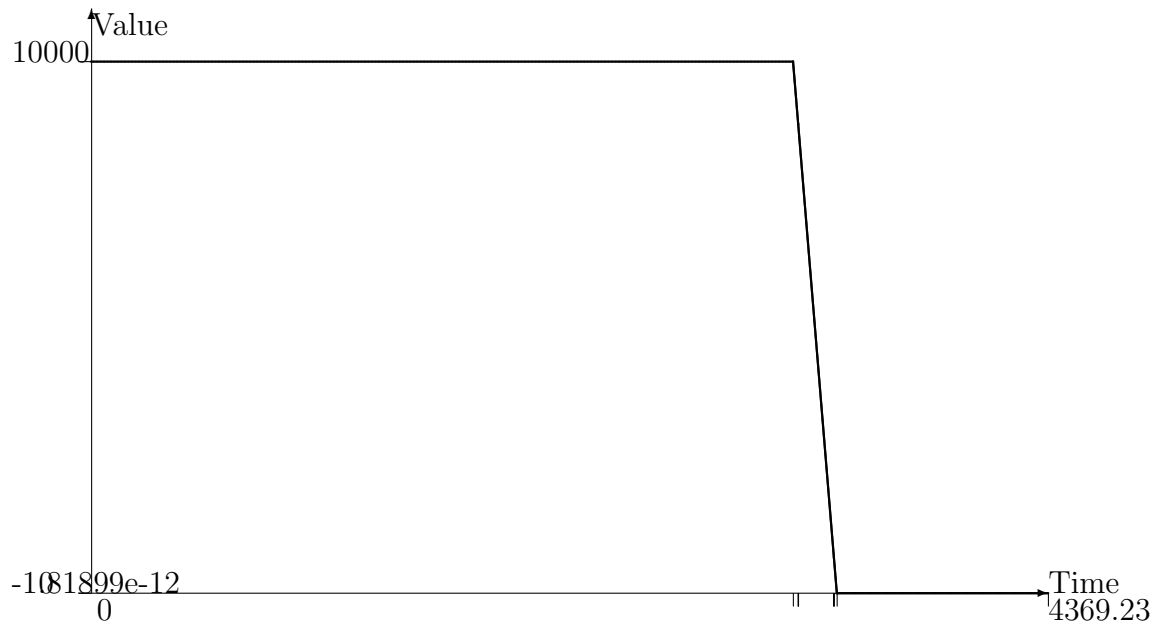


Figure 2.9: Graph of (tonnage block-b_2_24).

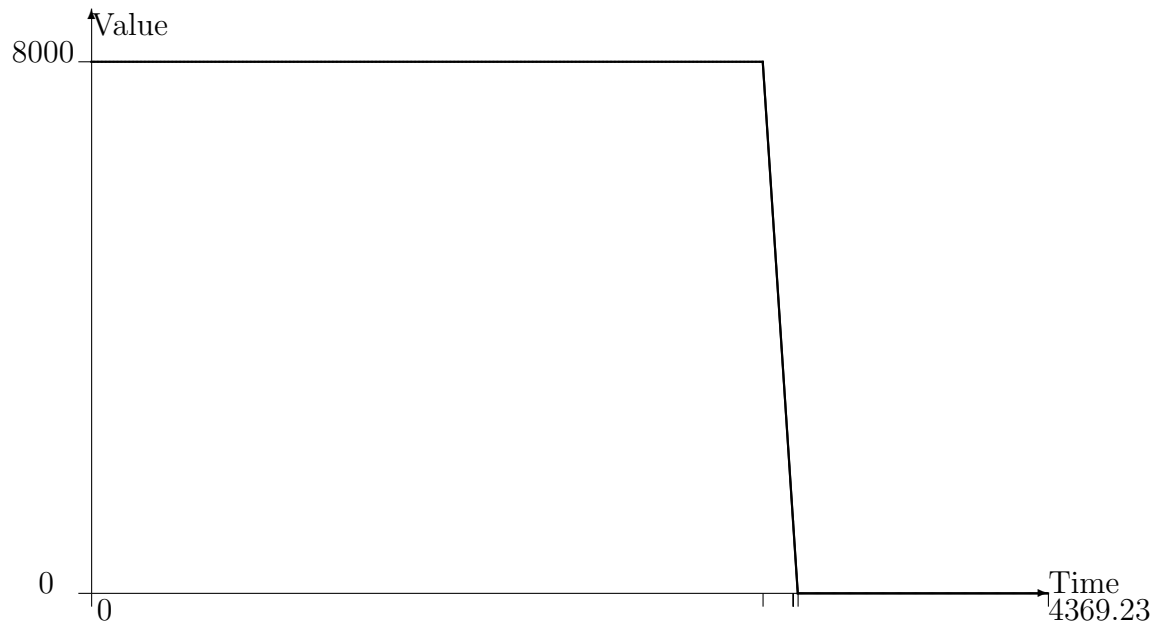


Figure 2.10: Graph of (tonnage block-b_2_25).

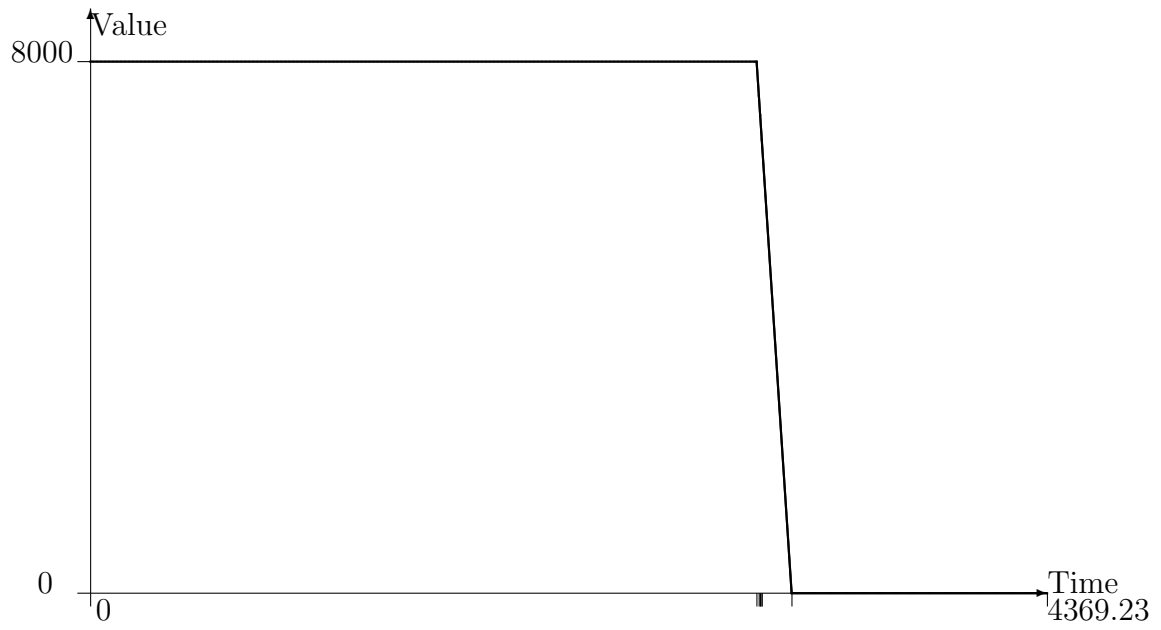


Figure 2.11: Graph of (tonnage block-b_{2.26}).

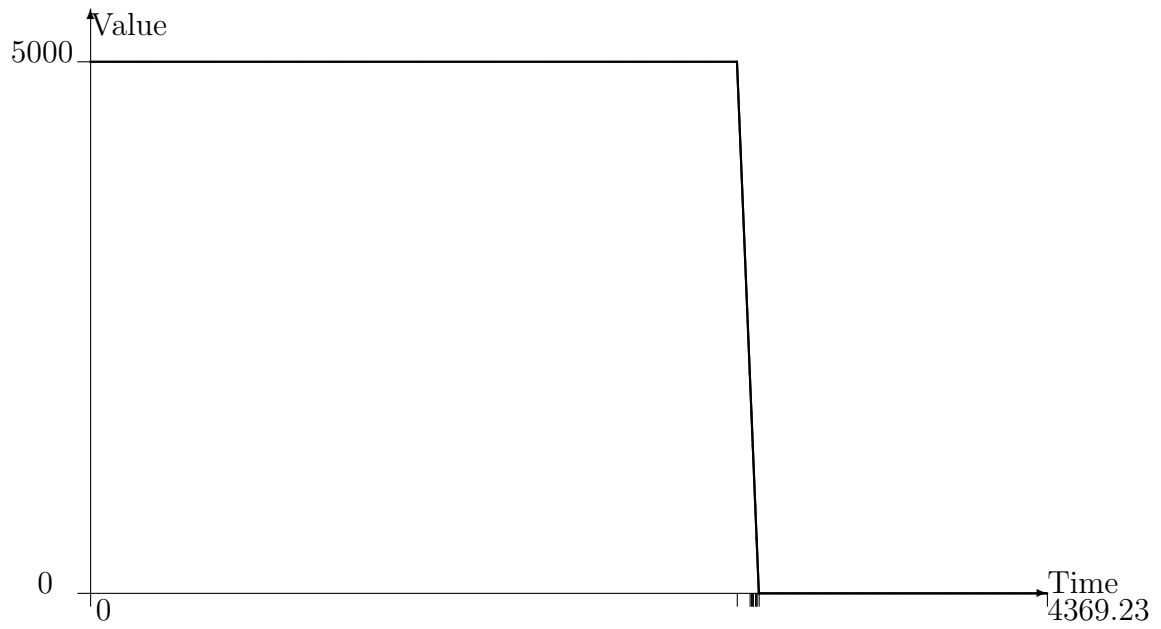


Figure 2.12: Graph of (tonnage block-b_{2.29}).

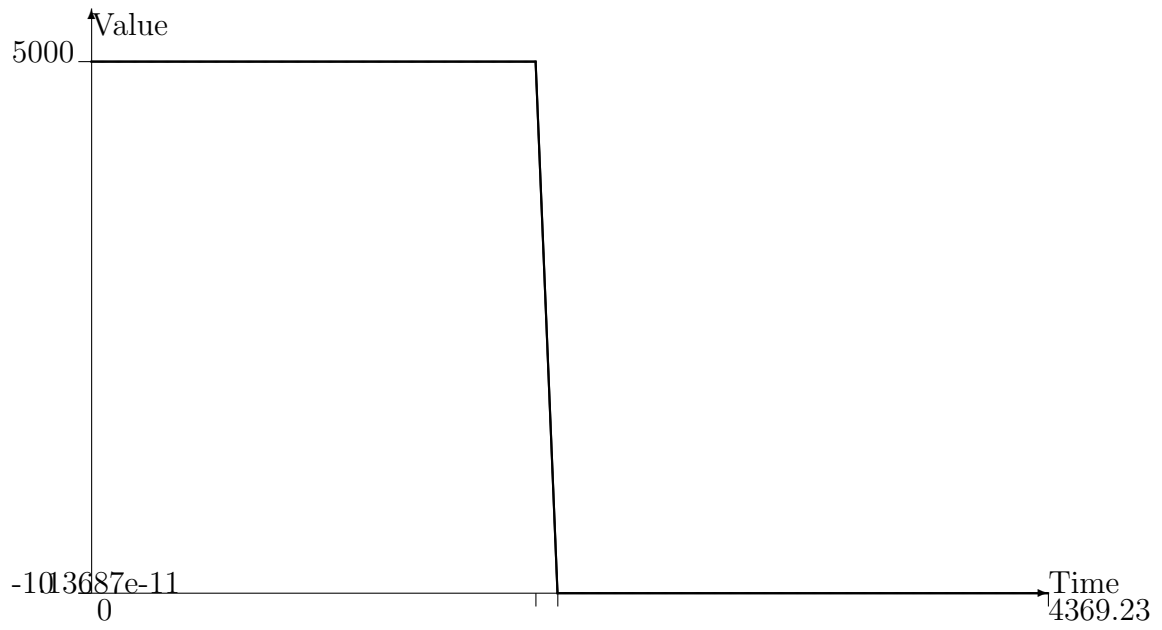


Figure 2.13: Graph of (tonnage block-b_2.30).

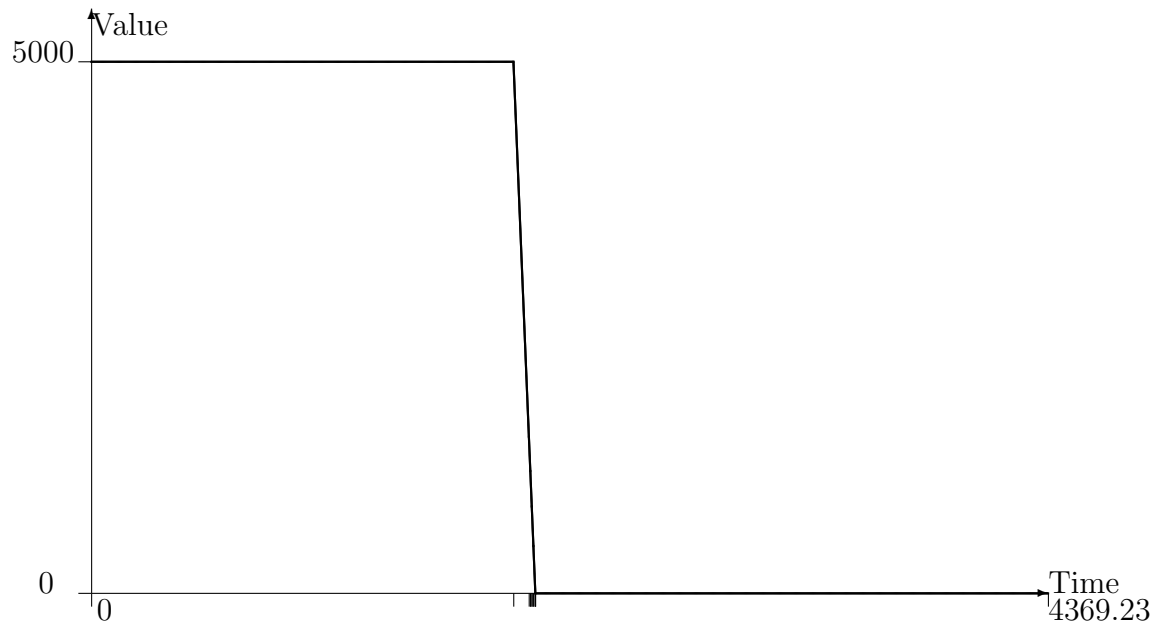


Figure 2.14: Graph of (tonnage block-b_2.31).

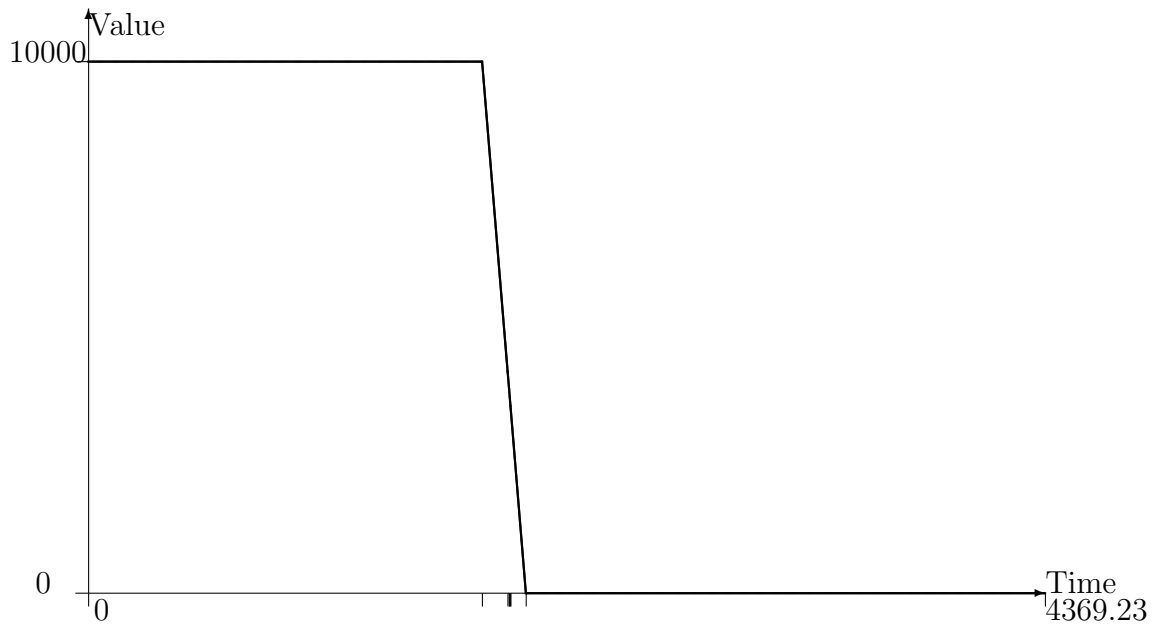


Figure 2.15: Graph of (tonnage block-b_{2.32}).

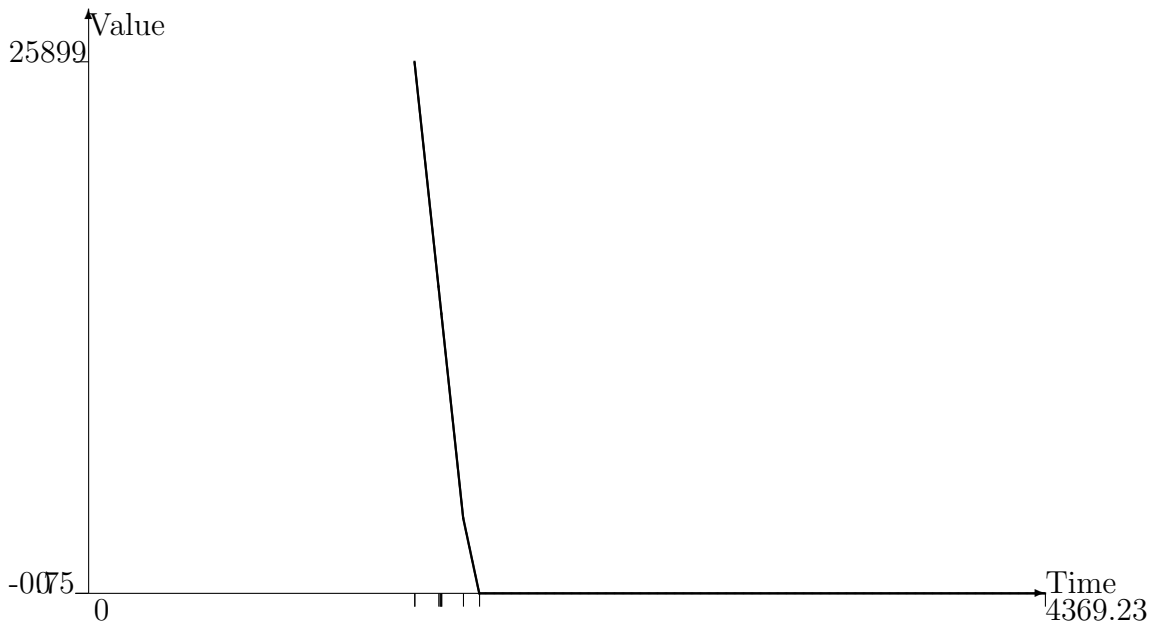


Figure 2.16: Graph of (tonnage block-b_{2.33}).

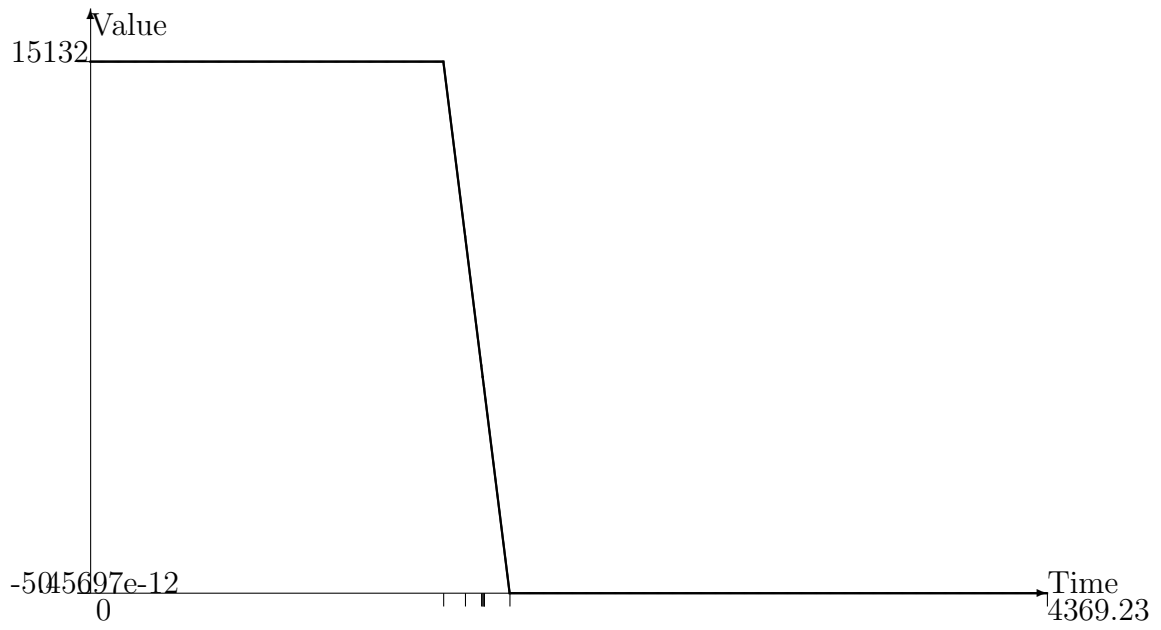


Figure 2.17: Graph of (tonnage block-b_2.34).

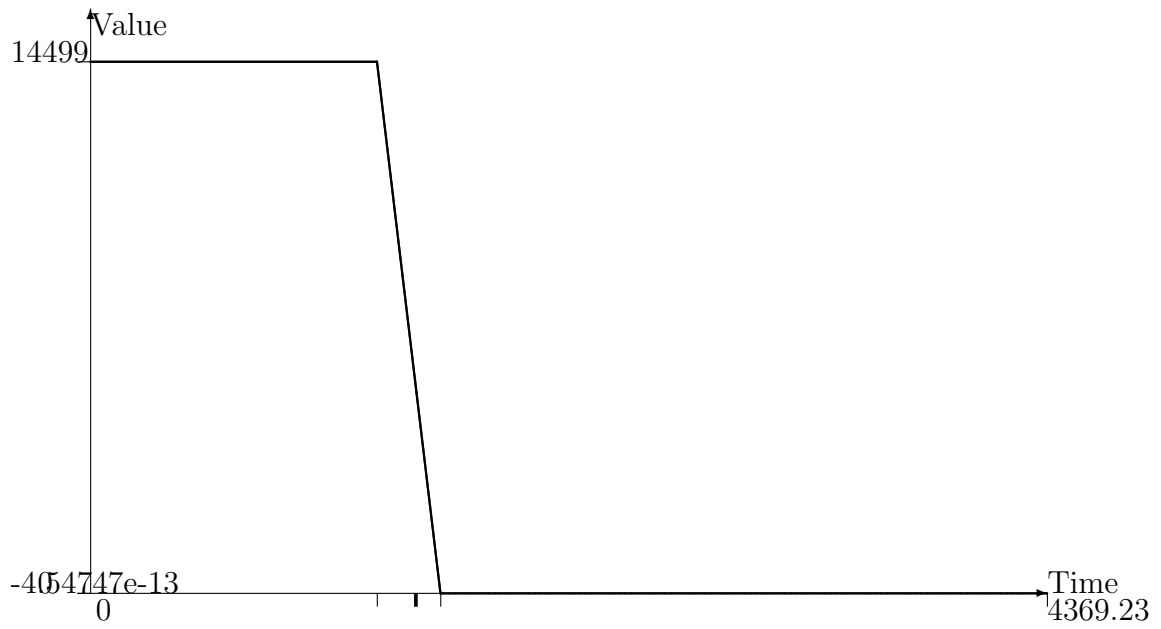


Figure 2.18: Graph of (tonnage block-b_2.35).

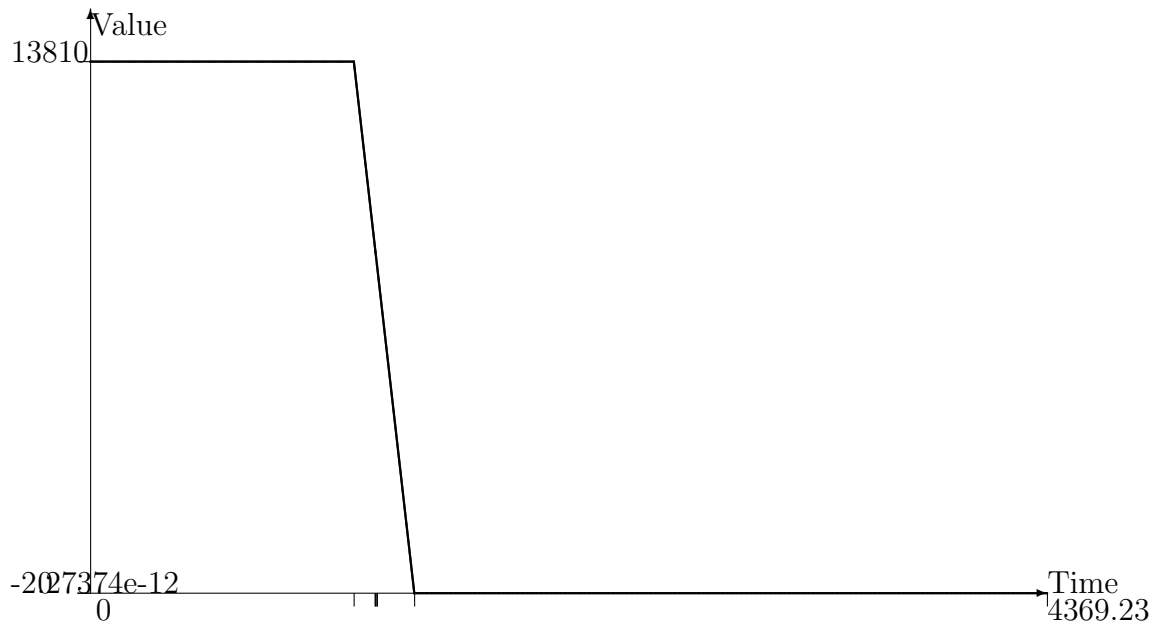


Figure 2.19: Graph of (tonnage block-b_2.36).

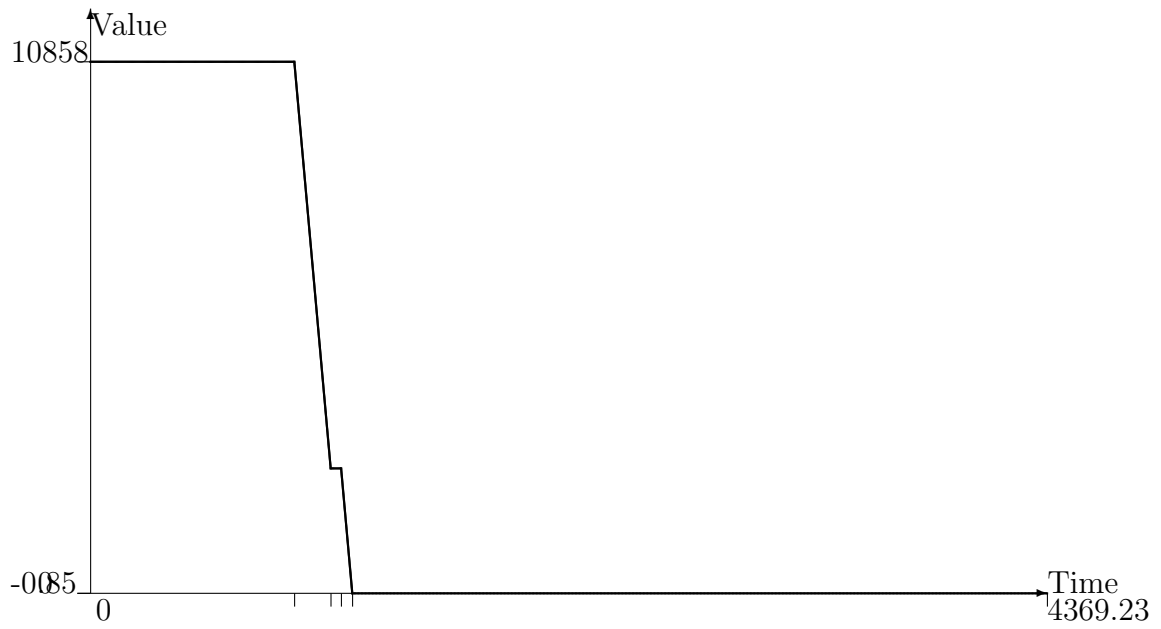


Figure 2.20: Graph of (tonnage block-b_2.37).



Figure 2.21: Graph of (tonnage block-b_2.38).

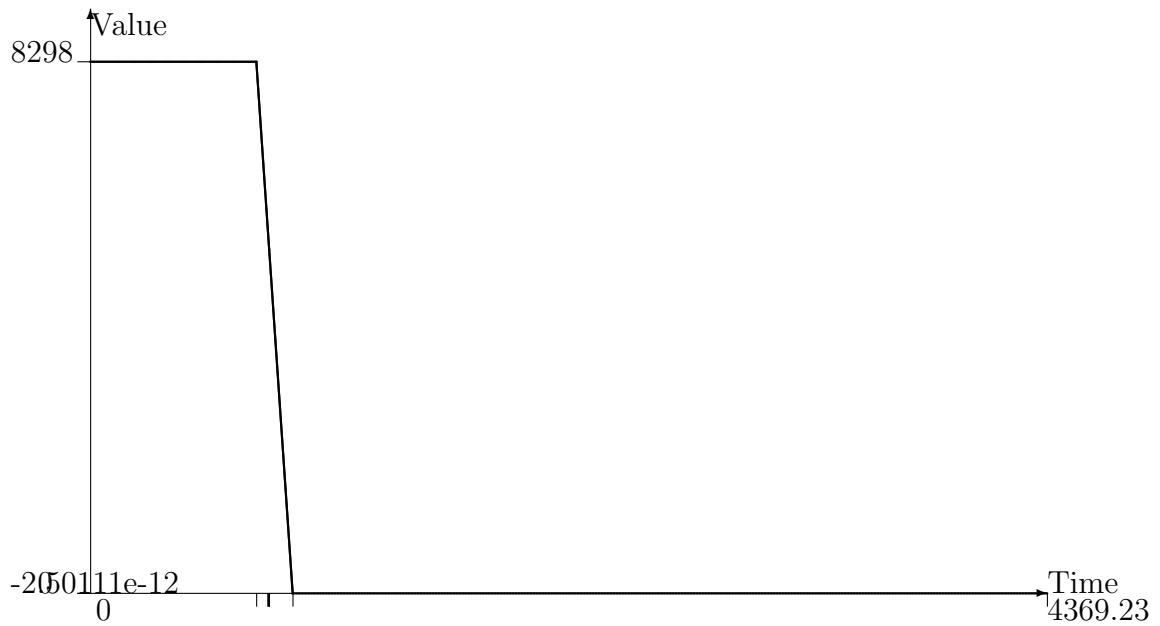


Figure 2.22: Graph of (tonnage block-b_2.39).

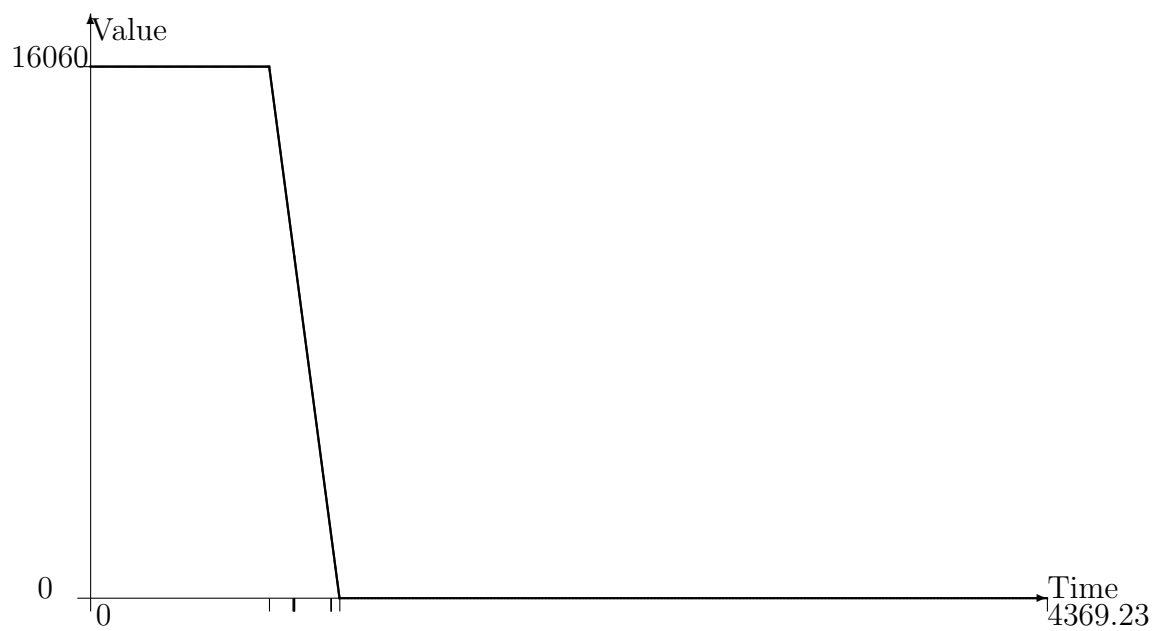


Figure 2.23: Graph of (tonnage block-b_2.40).

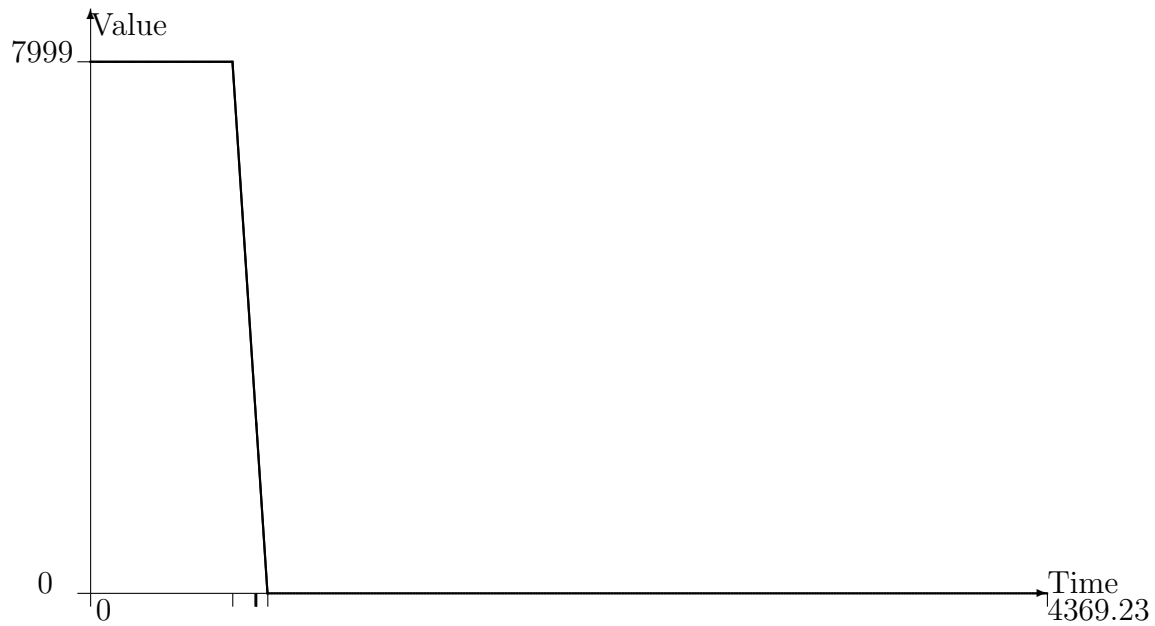


Figure 2.24: Graph of (tonnage block-b_2.41).





Figure 2.27: Graph of (tonnage block-b_{2.44}).



Figure 2.28: Graph of (tonnage block-b_{2.45}).

27	1141.66	(move loader_2 locloader_2 b_2_37) [3.58]
28	1145.24	(p-dig-block-b_2_37-build-0 loader_2) [51.054]
32	1298.86	(move loader_3 b_2_38 locloader_2) [3.56]
33	1302.42	(move loader_3 locloader_2 b_2_35) [6.62]
34	1309.04	(dig-block-b_2_35-build-2 loader_3) [289.98]
64	3036.44	(move loader_2 b_2_21 b_2_26) [6.27]
65	3042.71	(dig-block-b_2_26-build-2 loader_2) [160]
71	3226.16	(move loader_3 b_2_25 b_2_23) [1.84]
72	3228	(dig-block-b_2_23-build-2 loader_3) [160]
75	3404.49	(move loader_2 b_2_24 b_2_20) [4.82]
76	3409.31	(dig-block-b_2_20-build-0 loader_2) [959.92]

Row 2

No	Time	Action
2	0	(move loader_3 locloader_3 b_2_44) [3.63]
3	3.631	(dig-block-b_2_44-build-1 loader_3) [265.98]
8	412.611	(move loader_2 b_2_45 locloader_2) [5.35]
9	417.962	(move loader_2 locloader_2 b_2_42) [3.42]
10	421.383	(p-dig-block-b_2_42-build-1 loader_2) [93.123]
11	514.509	(p-dig-block-b_2_42-build-0 loader_2) [127.223]
15	750.303	(move loader_3 b_2_43 locloader_2) [3.98]
16	754.284	(move loader_3 locloader_2 b_2_39) [3.86]
17	758.145	(dig-block-b_2_39-build-2 loader_3) [165.96]
24	1097.67	(move loader_3 b_2_37 b_2_38) [1.19]
25	1098.86	(dig-block-b_2_38-build-1 loader_3) [200]
35	1479.53	(move loader_2 b_2_36 locloader_2) [3.46]
36	1482.99	(move loader_2 locloader_2 b_2_33) [6.51]
37	1489.51	(p-dig-block-b_2_33-build-1 loader_2) [295.744]
45	1914.86	(move loader_3 b_2_34 locloader_2) [6.57]
46	1921.43	(move loader_3 locloader_2 b_2_31) [6.25]
47	1927.68	(dig-block-b_2_31-build-2 loader_3) [100]
55	2128.86	(move loader_3 b_2_30 locloader_2) [6.02]
56	2134.88	(move loader_3 locloader_2 b_2_18) [6.58]
57	2141.46	(dig-block-b_2_18-build-1 loader_3) [799.88]
60	3011.5	(move loader_2 b_2_19 b_2_26) [7.45]
61	3018.95	(move loader_2 b_2_26 b_2_21) [6.27]
62	3025.22	(p-dig-block-b_2_21-build-1 loader_2) [839.481]

Row 3

No	Time	Action
5	269.611	(move loader_3 b_2_44 locloader_2) [3.63]
6	273.242	(move loader_3 locloader_2 b_2_43) [3.98]
7	277.223	(dig-block-b_2_43-build-0 loader_3) [473.08]
18	809.074	(move loader_2 b_2_41 locloader_2) [3.94]
19	813.015	(move loader_2 locloader_2 b_2_40) [3.72]
20	816.736	(dig-block-b_2_40-build-1 loader_2) [321.2]
29	1196.29	(move loader_2 b_2_37 locloader_2) [3.58]
30	1199.87	(move loader_2 locloader_2 b_2_36) [3.46]
31	1203.33	(dig-block-b_2_36-build-0 loader_2) [276.2]
38	1489.51	(p-dig-block-b_2_33-build-0 loader_2) [222.251]
42	1785.25	(move loader_2 b_2_33 locloader_2) [6.51]
43	1791.76	(move loader_2 locloader_2 b_2_32) [6.45]
44	1798.21	(dig-block-b_2_32-build-2 loader_2) [200]
53	2027.68	(move loader_3 b_2_31 b_2_30) [1.18]
54	2028.86	(dig-block-b_2_30-build-2 loader_3) [100]
58	2941.34	(move loader_3 b_2_18 b_2_29) [11.62]
59	2952.96	(dig-block-b_2_29-build-2 loader_3) [100]
69	3202.71	(move loader_2 b_2_26 b_2_24) [1.78]
70	3204.49	(dig-block-b_2_24-build-2 loader_2) [200]

Row 4

No	Time	Action
39	1599.02	(move loader_3 b_2_35 locloader_2) [6.62]
40	1605.64	(move loader_3 locloader_2 b_2_34) [6.57]
41	1612.21	(dig-block-b_2_34-build-2 loader_3) [302.64]
48	1998.21	(move loader_2 b_2_32 locloader_2) [6.45]
49	2004.66	(move loader_2 locloader_2 b_2_19) [6.67]
50	2011.33	(move loader_2 b_2_19 b_2_26) [7.45]
51	2018.79	(move loader_2 b_2_26 b_2_19) [7.45]
52	2026.24	(dig-block-b_2_19-build-0 loader_2) [985.26]
63	3025.22	(p-dig-block-b_2_21-build-0 loader_2) [11.22]
66	3052.96	(move loader_3 b_2_29 locloader_2) [5.83]
67	3058.79	(move loader_3 locloader_2 b_2_25) [7.37]
68	3066.16	(dig-block-b_2_25-build-2 loader_3) [160]
73	3388	(move loader_3 b_2_23 b_2_22) [2.96]
74	3390.97	(dig-block-b_2_22-build-2 loader_3) [160]

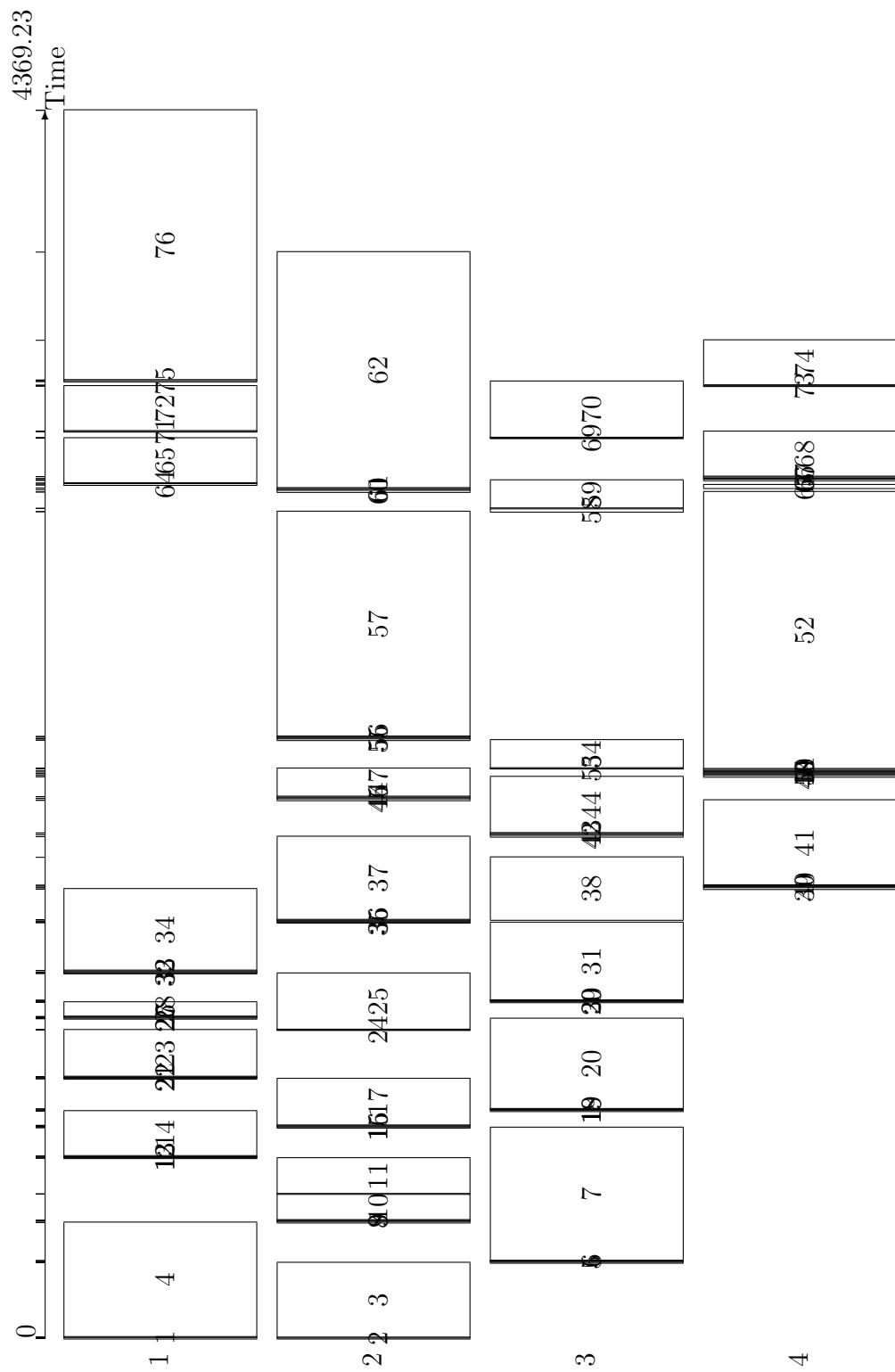


Figure 2.29: Gantt Chart

3 Successful Plans

Value Plan