0: proc - (:root:) creates proc 0 (:init:)

Starting management with pid 1

1: proc 0 (:init::1) creates proc 1 (management)

1: proc 0 (:init::1) PromelaModel.pml:529 (state 1) [(run management())]

Selected: 2

Starting shuttle with pid 2

2: proc 0 (:init::1) creates proc 2 (shuttle)

2: proc 0 (:init::1) PromelaModel.pml:530 (state 2) [(run shuttle(0,5,1,2))]

Selected: 3

Starting shuttle with pid 3

3: proc 0 (:init::1) creates proc 3 (shuttle)

3: proc 0 (:init::1) PromelaModel.pml:531 (state 3) [(run shuttle(1,8,1,4))]

Selected: 4

Starting shuttle with pid 4

4: proc 0 (:init::1) creates proc 4 (shuttle)

4: proc 0 (:init::1) PromelaModel.pml:532 (state 4) [(run shuttle(2,10,2,3))]

Selected: 1

5: proc 4 (shuttle:1) PromelaModel.pml:48 (state 1) [shuttlePos[shuttleId].origin = startStation]

Selected: 1

6: proc 4 (shuttle:1) PromelaModel.pml:49 (state 2) [shuttlePos[shuttleId].dest = startStation]

Selected: 1

7: proc 4 (shuttle:1) PromelaModel.pml:52 (state 3) []

Selected: 1

8: proc 4 (shuttle:1) PromelaModel.pml:52 (state 4) [reply.shuttleId = shuttleId]

Selected: 1

9: proc 4 (shuttle:1) PromelaModel.pml:53 (state 5) [reply.payment = charge]

Selected: 3

10: proc 4 (shuttle:1) PromelaModel.pml:125 (state 58) [((shuttlePos[shuttleId].origin==shuttlePos[shuttleId].dest))]

Selected: 1

11: proc 4 (shuttle:1) PromelaModel.pml:129 (state 59) [(((numOrdersBeingExecuted==0)&&(numOrdersAssigned==0)))]

Selected: 1

12: proc 4 (shuttle:1) PromelaModel.pml:130 (state 60) [(1)]

Selected: 4

13: proc 3 (shuttle:1) PromelaModel.pml:48 (state 1) [shuttlePos[shuttleId].origin = startStation]

Selected: 4

14: proc 3 (shuttle:1) PromelaModel.pml:49 (state 2) [shuttlePos[shuttleId].dest = startStation]

Selected: 4

15: proc 3 (shuttle:1) PromelaModel.pml:52 (state 3) []

Selected: 4

16: proc 3 (shuttle:1) PromelaModel.pml:52 (state 4) [reply.shuttleId = shuttleId]

Selected: 4

17: proc 3 (shuttle:1) PromelaModel.pml:53 (state 5) [reply.payment = charge]

Selected: 6

18: proc 3 (shuttle:1) PromelaModel.pml:125 (state 58) [((shuttlePos[shuttleId].origin==shuttlePos[shuttleId].dest))]

Selected: 4

19: proc 3 (shuttle:1) PromelaModel.pml:129 (state 59) [(((numOrdersBeingExecuted==0)&&(numOrdersAssigned==0)))]

Selected: 4

20: proc 3 (shuttle:1) PromelaModel.pml:130 (state 60) [(1)]

Selected: 7

21: proc 2 (shuttle:1) PromelaModel.pml:48 (state 1) [shuttlePos[shuttleId].origin = startStation]

Selected: 7

22: proc 2 (shuttle:1) PromelaModel.pml:49 (state 2) [shuttlePos[shuttleId].dest = startStation]

Selected: 7

23: proc 2 (shuttle:1) PromelaModel.pml:52 (state 3) []

Selected: 7

24: proc 2 (shuttle:1) PromelaModel.pml:52 (state 4) [reply.shuttleId = shuttleId]

Selected: 7

25: proc 2 (shuttle:1) PromelaModel.pml:53 (state 5) [reply.payment = charge]

Selected: 9

26: proc 2 (shuttle:1) PromelaModel.pml:125 (state 58) [((shuttlePos[shuttleId].origin==shuttlePos[shuttleId].dest))]

Selected: 7

27: proc 2 (shuttle:1) PromelaModel.pml:129 (state 59) [(((numOrdersBeingExecuted==0)&&(numOrdersAssigned==0)))]

Selected: 7

28: proc 2 (shuttle:1) PromelaModel.pml:130 (state 60) [(1)]

Selected: 10

29: proc 1 (management:1) PromelaModel.pml:451 (state 1) [orders[0].start = 1]

Selected: 10

30: proc 1 (management:1) PromelaModel.pml:452 (state 2) [orders[0].end = 3]

Selected: 10

31: proc 1 (management:1) PromelaModel.pml:453 (state 3) [orders[0].load = 4]

Selected: 10

32: proc 1 (management:1) PromelaModel.pml:454 (state 4) [orders[0].orderOrAssign = 0]

Selected: 10

33: proc 1 (management:1) PromelaModel.pml:455 (state 5) [orders[1].start = 2]

Selected: 10

34: proc 1 (management:1) PromelaModel.pml:456 (state 6) [orders[1].end = 3]

Selected: 10

35: proc 1 (management:1) PromelaModel.pml:457 (state 7) [orders[1].load = 1]

Selected: 10

36: proc 1 (management:1) PromelaModel.pml:458 (state 8) [orders[1].orderOrAssign = 0]

Selected: 10

37: proc 1 (management:1) PromelaModel.pml:462 (state 9) [((dummy!=((6\*2)+1)))]

Selected: 10

38: proc 1 (management:1) PromelaModel.pml:463 (state 10) [trackAvail[dummy] = 1]

Selected: 10

39: proc 1 (management:1) PromelaModel.pml:464 (state 11) [dummy = (dummy+1)]

Selected: 10

40: proc 1 (management:1) PromelaModel.pml:462 (state 9) [((dummy!=((6\*2)+1)))]

Selected: 10

41: proc 1 (management:1) PromelaModel.pml:463 (state 10) [trackAvail[dummy] = 1]

Selected: 10

42: proc 1 (management:1) PromelaModel.pml:464 (state 11) [dummy = (dummy+1)]

Selected: 10

43: proc 1 (management:1) PromelaModel.pml:462 (state 9) [((dummy!=((6\*2)+1)))]

Selected: 10

44: proc 1 (management:1) PromelaModel.pml:463 (state 10) [trackAvail[dummy] = 1]

Selected: 10

45: proc 1 (management:1) PromelaModel.pml:464 (state 11) [dummy = (dummy+1)]

Selected: 10

46: proc 1 (management:1) PromelaModel.pml:462 (state 9) [((dummy!=((6\*2)+1)))]

Selected: 10

47: proc 1 (management:1) PromelaModel.pml:463 (state 10) [trackAvail[dummy] = 1]

Selected: 10

48: proc 1 (management:1) PromelaModel.pml:464 (state 11) [dummy = (dummy+1)]

Selected: 10

49: proc 1 (management:1) PromelaModel.pml:462 (state 9) [((dummy!=((6\*2)+1)))]

Selected: 10

50: proc 1 (management:1) PromelaModel.pml:463 (state 10) [trackAvail[dummy] = 1]

Selected: 10

51: proc 1 (management:1) PromelaModel.pml:464 (state 11) [dummy = (dummy+1)]

Selected: 10

52: proc 1 (management:1) PromelaModel.pml:462 (state 9) [((dummy!=((6\*2)+1)))]

Selected: 10

53: proc 1 (management:1) PromelaModel.pml:463 (state 10) [trackAvail[dummy] = 1]

Selected: 10

54: proc 1 (management:1) PromelaModel.pml:464 (state 11) [dummy = (dummy+1)]

Selected: 10

55: proc 1 (management:1) PromelaModel.pml:462 (state 9) [((dummy!=((6\*2)+1)))]

Selected: 10

56: proc 1 (management:1) PromelaModel.pml:463 (state 10) [trackAvail[dummy] = 1]

Selected: 10

57: proc 1 (management:1) PromelaModel.pml:464 (state 11) [dummy = (dummy+1)]

Selected: 10

58: proc 1 (management:1) PromelaModel.pml:462 (state 9) [((dummy!=((6\*2)+1)))]

Selected: 10

59: proc 1 (management:1) PromelaModel.pml:463 (state 10) [trackAvail[dummy] = 1]

Selected: 10

60: proc 1 (management:1) PromelaModel.pml:464 (state 11) [dummy = (dummy+1)]

Selected: 10

61: proc 1 (management:1) PromelaModel.pml:462 (state 9) [((dummy!=((6\*2)+1)))]

Selected: 10

62: proc 1 (management:1) PromelaModel.pml:463 (state 10) [trackAvail[dummy] = 1]

Selected: 10

63: proc 1 (management:1) PromelaModel.pml:464 (state 11) [dummy = (dummy+1)]

Selected: 10

64: proc 1 (management:1) PromelaModel.pml:462 (state 9) [((dummy!=((6\*2)+1)))]

Selected: 10

65: proc 1 (management:1) PromelaModel.pml:463 (state 10) [trackAvail[dummy] = 1]

Selected: 10

66: proc 1 (management:1) PromelaModel.pml:464 (state 11) [dummy = (dummy+1)]

Selected: 10

67: proc 1 (management:1) PromelaModel.pml:462 (state 9) [((dummy!=((6\*2)+1)))]

Selected: 10

68: proc 1 (management:1) PromelaModel.pml:463 (state 10) [trackAvail[dummy] = 1]

Selected: 10

69: proc 1 (management:1) PromelaModel.pml:464 (state 11) [dummy = (dummy+1)]

Selected: 10

70: proc 1 (management:1) PromelaModel.pml:462 (state 9) [((dummy!=((6\*2)+1)))]

Selected: 10

71: proc 1 (management:1) PromelaModel.pml:463 (state 10) [trackAvail[dummy] = 1]

Selected: 10

72: proc 1 (management:1) PromelaModel.pml:464 (state 11) [dummy = (dummy+1)]

Selected: 10

73: proc 1 (management:1) PromelaModel.pml:462 (state 9) [((dummy!=((6\*2)+1)))]

Selected: 10

74: proc 1 (management:1) PromelaModel.pml:463 (state 10) [trackAvail[dummy] = 1]

Selected: 10

75: proc 1 (management:1) PromelaModel.pml:464 (state 11) [dummy = (dummy+1)]

Selected: 11

76: proc 1 (management:1) PromelaModel.pml:465 (state 12) [((dummy==((6\*2)+1)))]

Selected: 10

77: proc 1 (management:1) PromelaModel.pml:466 (state 13) [dummy = 0]

Selected: 10

78: proc 1 (management:1) PromelaModel.pml:461 (state 17) [break]

Selected: 11

79: proc 1 (management:1) PromelaModel.pml:473 (state 20) [((dummy!=NUM\_ORDERS))]

Selected: 10

80: proc 1 (management:1) PromelaModel.pml:474 (state 21) [order.start = orders[dummy].start]

Selected: 10

81: proc 1 (management:1) PromelaModel.pml:475 (state 22) [order.end = orders[dummy].end]

Selected: 10

82: proc 1 (management:1) PromelaModel.pml:476 (state 23) [order.load = orders[dummy].load]

Selected: 10

83: proc 1 (management:1) PromelaModel.pml:477 (state 24) [order.orderOrAssign = orders[dummy].orderOrAssign]

Selected: 10

84: proc 1 (management:1) PromelaModel.pml:478 (state 25) [dummy = (dummy+1)]

Selected: 10

85: proc 1 (management:1) PromelaModel.pml:482 (state 26) [managementToShuttles[numShuttlesSent]!order.start,order.end,order.load,order.orderOrAssign]

Selected: 10

86: proc 1 (management:1) PromelaModel.pml:483 (state 27) [numShuttlesSent = (numShuttlesSent+1)]

Selected: 11

87: proc 1 (management:1) PromelaModel.pml:488 (state 31) [((numShuttlesSent!=3))]

Selected: 10

88: proc 1 (management:1) PromelaModel.pml:489 (state 32) [(1)]

Selected: 10

89: proc 1 (management:1) PromelaModel.pml:482 (state 26) [managementToShuttles[numShuttlesSent]!order.start,order.end,order.load,order.orderOrAssign]

Selected: 10

90: proc 1 (management:1) PromelaModel.pml:483 (state 27) [numShuttlesSent = (numShuttlesSent+1)]

Selected: 11

91: proc 1 (management:1) PromelaModel.pml:488 (state 31) [((numShuttlesSent!=3))]

Selected: 10

92: proc 1 (management:1) PromelaModel.pml:489 (state 32) [(1)]

Selected: 10

93: proc 1 (management:1) PromelaModel.pml:482 (state 26) [managementToShuttles[numShuttlesSent]!order.start,order.end,order.load,order.orderOrAssign]

Selected: 10

94: proc 1 (management:1) PromelaModel.pml:483 (state 27) [numShuttlesSent = (numShuttlesSent+1)]

Selected: 10

95: proc 1 (management:1) PromelaModel.pml:485 (state 28) [((numShuttlesSent==3))]

Selected: 10

96: proc 1 (management:1) PromelaModel.pml:486 (state 29) [numShuttlesSent = 0]

Selected: 10

97: proc 1 (management:1) PromelaModel.pml:481 (state 37) [break]

Selected: 1

98: proc 4 (shuttle:1) PromelaModel.pml:58 (state 6) [managementToShuttles[shuttleId]?order.start,order.end,order.load,order.orderOrAssign]

Selected: 1

99: proc 4 (shuttle:1) PromelaModel.pml:64 (state 7) [((order.orderOrAssign==0))]

Selected: 1

100: proc 4 (shuttle:1) PromelaModel.pml:66 (state 8) [(((order.load+currLoad)<=capacity))]

Selected: 1

101: proc 4 (shuttle:1) PromelaModel.pml:68 (state 9) [difference = (shuttlePos[shuttleId].dest-order.start)]

Selected: 1

102: proc 4 (shuttle:1) PromelaModel.pml:69 (state 10) [(((difference<=2)&&(difference>=-(2))))]

Selected: 1

103: proc 4 (shuttle:1) PromelaModel.pml:70 (state 11) [reply.offerOrRefuse = 1]

Selected: 1

104: proc 4 (shuttle:1) PromelaModel.pml:85 (state 27) [shuttlesToManagement!reply.shuttleId,reply.offerOrRefuse,reply.payment]

Selected: 10

105: proc 1 (management:1) PromelaModel.pml:497 (state 38) [shuttlesToManagement?reply.shuttleId,reply.offerOrRefuse,reply.payment]

Selected: 10

106: proc 1 (management:1) PromelaModel.pml:498 (state 39) [numShuttlesReplied = (numShuttlesReplied+1)]

Selected: 11

107: proc 1 (management:1) PromelaModel.pml:501 (state 42) [(((reply.offerOrRefuse==1)&&(lowestOfferReceived==-(1))))]

Selected: 10

108: proc 1 (management:1) PromelaModel.pml:502 (state 43) [lowestOfferReceived = reply.payment]

Selected: 10

109: proc 1 (management:1) PromelaModel.pml:503 (state 44) [shuttleToOffer = reply.shuttleId]

Selected: 11

110: proc 1 (management:1) PromelaModel.pml:514 (state 55) [((numShuttlesReplied!=3))]

Selected: 10

111: proc 1 (management:1) PromelaModel.pml:514 (state 56) [(1)]

Selected: 4

112: proc 3 (shuttle:1) PromelaModel.pml:58 (state 6) [managementToShuttles[shuttleId]?order.start,order.end,order.load,order.orderOrAssign]

Selected: 4

113: proc 3 (shuttle:1) PromelaModel.pml:64 (state 7) [((order.orderOrAssign==0))]

Selected: 4

114: proc 3 (shuttle:1) PromelaModel.pml:66 (state 8) [(((order.load+currLoad)<=capacity))]

Selected: 4

115: proc 3 (shuttle:1) PromelaModel.pml:68 (state 9) [difference = (shuttlePos[shuttleId].dest-order.start)]

Selected: 4

116: proc 3 (shuttle:1) PromelaModel.pml:69 (state 10) [(((difference<=2)&&(difference>=-(2))))]

Selected: 4

117: proc 3 (shuttle:1) PromelaModel.pml:70 (state 11) [reply.offerOrRefuse = 1]

Selected: 4

118: proc 3 (shuttle:1) PromelaModel.pml:85 (state 27) [shuttlesToManagement!reply.shuttleId,reply.offerOrRefuse,reply.payment]

Selected: 10

119: proc 1 (management:1) PromelaModel.pml:497 (state 38) [shuttlesToManagement?reply.shuttleId,reply.offerOrRefuse,reply.payment]

Selected: 10

120: proc 1 (management:1) PromelaModel.pml:498 (state 39) [numShuttlesReplied = (numShuttlesReplied+1)]

Selected: 12

121: proc 1 (management:1) PromelaModel.pml:504 (state 45) [((((reply.offerOrRefuse==1)&&(lowestOfferReceived!=-(1)))&&(reply.payment>=lowestOfferReceived)))]

Selected: 10

122: proc 1 (management:1) PromelaModel.pml:504 (state 46) [(1)]

Selected: 11

123: proc 1 (management:1) PromelaModel.pml:514 (state 55) [((numShuttlesReplied!=3))]

Selected: 10

124: proc 1 (management:1) PromelaModel.pml:514 (state 56) [(1)]

Selected: 7

125: proc 2 (shuttle:1) PromelaModel.pml:58 (state 6) [managementToShuttles[shuttleId]?order.start,order.end,order.load,order.orderOrAssign]

Selected: 7

126: proc 2 (shuttle:1) PromelaModel.pml:64 (state 7) [((order.orderOrAssign==0))]

Selected: 7

127: proc 2 (shuttle:1) PromelaModel.pml:66 (state 8) [(((order.load+currLoad)<=capacity))]

Selected: 7

128: proc 2 (shuttle:1) PromelaModel.pml:68 (state 9) [difference = (shuttlePos[shuttleId].dest-order.start)]

Selected: 7

129: proc 2 (shuttle:1) PromelaModel.pml:69 (state 10) [(((difference<=2)&&(difference>=-(2))))]

Selected: 7

130: proc 2 (shuttle:1) PromelaModel.pml:70 (state 11) [reply.offerOrRefuse = 1]

Selected: 7

131: proc 2 (shuttle:1) PromelaModel.pml:85 (state 27) [shuttlesToManagement!reply.shuttleId,reply.offerOrRefuse,reply.payment]

Selected: 10

132: proc 1 (management:1) PromelaModel.pml:497 (state 38) [shuttlesToManagement?reply.shuttleId,reply.offerOrRefuse,reply.payment]

Selected: 10

133: proc 1 (management:1) PromelaModel.pml:498 (state 39) [numShuttlesReplied = (numShuttlesReplied+1)]

Selected: 13

134: proc 1 (management:1) PromelaModel.pml:505 (state 47) [((((reply.offerOrRefuse==1)&&(lowestOfferReceived!=-(1)))&&(reply.payment<lowestOfferReceived)))]

Selected: 10

135: proc 1 (management:1) PromelaModel.pml:506 (state 48) [lowestOfferReceived = reply.payment]

Selected: 10

136: proc 1 (management:1) PromelaModel.pml:507 (state 49) [shuttleToOffer = reply.shuttleId]

Selected: 10

137: proc 1 (management:1) PromelaModel.pml:511 (state 52) [((numShuttlesReplied==3))]

Selected: 10

138: proc 1 (management:1) PromelaModel.pml:512 (state 53) [numShuttlesReplied = 0]

Selected: 10

139: proc 1 (management:1) PromelaModel.pml:496 (state 61) [break]

Selected: 11

140: proc 1 (management:1) PromelaModel.pml:520 (state 64) [((lowestOfferReceived!=-(1)))]

Selected: 10

141: proc 1 (management:1) PromelaModel.pml:521 (state 65) [order.orderOrAssign = 1]

Selected: 10

142: proc 1 (management:1) PromelaModel.pml:522 (state 66) [managementToShuttles[shuttleToOffer]!order.start,order.end,order.load,order.orderOrAssign]

Selected: 10

143: proc 1 (management:1) PromelaModel.pml:523 (state 67) [lowestOfferReceived = -(1)]

Selected: 7

144: proc 2 (shuttle:1) PromelaModel.pml:58 (state 6) [managementToShuttles[shuttleId]?order.start,order.end,order.load,order.orderOrAssign]

Selected: 8

145: proc 2 (shuttle:1) PromelaModel.pml:86 (state 28) [((order.orderOrAssign==1))]

Selected: 7

146: proc 2 (shuttle:1) PromelaModel.pml:87 (state 29) [ordersAssigned[numOrdersAssigned].start = order.start]

Selected: 7

147: proc 2 (shuttle:1) PromelaModel.pml:88 (state 30) [ordersAssigned[numOrdersAssigned].end = order.end]

Selected: 7

148: proc 2 (shuttle:1) PromelaModel.pml:89 (state 31) [ordersAssigned[numOrdersAssigned].load = order.load]

Selected: 7

149: proc 2 (shuttle:1) PromelaModel.pml:90 (state 32) [ordersAssigned[numOrdersAssigned].orderOrAssign = order.orderOrAssign]

Selected: 7

150: proc 2 (shuttle:1) PromelaModel.pml:91 (state 33) [numOrdersAssigned = (numOrdersAssigned+1)]

Selected: 9

151: proc 2 (shuttle:1) PromelaModel.pml:125 (state 58) [((shuttlePos[shuttleId].origin==shuttlePos[shuttleId].dest))]

Selected: 9

152: proc 2 (shuttle:1) PromelaModel.pml:256 (state 174) [(((((numOrdersBeingExecuted==0)&&(numOrdersAssigned!=0))&&(shuttlePos[shuttleId].dest==ordersAssigned[0].start))&&((ordersAssigned[0].load+currLoad)<=capacity)))]

Selected: 7

153: proc 2 (shuttle:1) PromelaModel.pml:258 (state 175) [ordersBeingExecuted[numOrdersBeingExecuted].start = ordersAssigned[0].start]

Selected: 7

154: proc 2 (shuttle:1) PromelaModel.pml:259 (state 176) [ordersBeingExecuted[numOrdersBeingExecuted].end = ordersAssigned[0].end]

Selected: 7

155: proc 2 (shuttle:1) PromelaModel.pml:260 (state 177) [ordersBeingExecuted[numOrdersBeingExecuted].load = ordersAssigned[0].load]

Selected: 7

156: proc 2 (shuttle:1) PromelaModel.pml:261 (state 178) [ordersBeingExecuted[numOrdersBeingExecuted].orderOrAssign = ordersAssigned[0].orderOrAssign]

Selected: 7

157: proc 2 (shuttle:1) PromelaModel.pml:262 (state 179) [currLoad = (currLoad+ordersBeingExecuted[0].load)]

Selected: 7

158: proc 2 (shuttle:1) PromelaModel.pml:264 (state 180) [numOrdersBeingExecuted = (numOrdersBeingExecuted+1)]

Selected: 7

159: proc 2 (shuttle:1) PromelaModel.pml:265 (state 181) [numOrdersAssigned = (numOrdersAssigned-1)]

Selected: 7

160: proc 2 (shuttle:1) PromelaModel.pml:267 (state 182) [dummy = numOrdersAssigned]

Selected: 7

161: proc 2 (shuttle:1) PromelaModel.pml:268 (state 183) [dummy2 = 0]

Selected: 8

162: proc 2 (shuttle:1) PromelaModel.pml:280 (state 191) [((dummy==0))]

Selected: 7

163: proc 2 (shuttle:1) PromelaModel.pml:281 (state 192) [ordersAssigned[numOrdersAssigned].start = 0]

Selected: 7

164: proc 2 (shuttle:1) PromelaModel.pml:282 (state 193) [ordersAssigned[numOrdersAssigned].end = 0]

Selected: 7

165: proc 2 (shuttle:1) PromelaModel.pml:283 (state 194) [ordersAssigned[numOrdersAssigned].load = 0]

Selected: 7

166: proc 2 (shuttle:1) PromelaModel.pml:284 (state 195) [ordersAssigned[numOrdersAssigned].orderOrAssign = 0]

Selected: 7

167: proc 2 (shuttle:1) PromelaModel.pml:271 (state 199) [break]

Selected: 9

168: proc 2 (shuttle:1) PromelaModel.pml:125 (state 58) [((shuttlePos[shuttleId].origin==shuttlePos[shuttleId].dest))]

Selected: 10

169: proc 2 (shuttle:1) PromelaModel.pml:289 (state 200) [(((numOrdersBeingExecuted!=0)&&(shuttlePos[shuttleId].dest!=ordersBeingExecuted[0].end)))]

Selected: 7

170: proc 2 (shuttle:1) PromelaModel.pml:292 (state 201) [nextDest1 = (shuttlePos[shuttleId].dest+1)]

Selected: 8

171: proc 2 (shuttle:1) PromelaModel.pml:293 (state 206) [IF]

Selected: 7

172: proc 2 (shuttle:1) PromelaModel.pml:296 (state 205) [(1)]

Selected: 7

173: proc 2 (shuttle:1) PromelaModel.pml:298 (state 208) [nextDest2 = (shuttlePos[shuttleId].dest-1)]

Selected: 7

174: proc 2 (shuttle:1) PromelaModel.pml:300 (state 209) [((nextDest2==0))]

Selected: 7

175: proc 2 (shuttle:1) PromelaModel.pml:301 (state 210) [nextDest2 = 6]

Selected: 7

176: proc 2 (shuttle:1) PromelaModel.pml:305 (state 215) [difference1 = (nextDest1-ordersBeingExecuted[0].end)]

Selected: 9

177: proc 2 (shuttle:1) PromelaModel.pml:306 (state 222) [IF]

Selected: 7

178: proc 2 (shuttle:1) PromelaModel.pml:311 (state 221) [(1)]

Selected: 7

179: proc 2 (shuttle:1) PromelaModel.pml:314 (state 224) [((difference1<0))]

Selected: 7

180: proc 2 (shuttle:1) PromelaModel.pml:315 (state 225) [difference1 = (0-difference1)]

Selected: 7

181: proc 2 (shuttle:1) PromelaModel.pml:319 (state 230) [difference2 = (nextDest2-ordersBeingExecuted[0].end)]

Selected: 9

182: proc 2 (shuttle:1) PromelaModel.pml:320 (state 237) [IF]

Selected: 7

183: proc 2 (shuttle:1) PromelaModel.pml:325 (state 236) [(1)]

Selected: 8

184: proc 2 (shuttle:1) PromelaModel.pml:327 (state 243) [IF]

Selected: 7

185: proc 2 (shuttle:1) PromelaModel.pml:330 (state 242) [(1)]

Selected: 7

186: proc 2 (shuttle:1) PromelaModel.pml:336 (state 245) [((difference1<=difference2))]

Selected: 7

187: proc 2 (shuttle:1) PromelaModel.pml:338 (state 246) [((((shuttlePos[shuttleId].origin<nextDest1)&&(nextDest1!=6))&&(trackAvail[((nextDest1\*2)-1)]==1)))]

Selected: 7

188: proc 2 (shuttle:1) PromelaModel.pml:339 (state 247) [trackAvail[((nextDest1\*2)-1)] = 0]

Selected: 7

189: proc 2 (shuttle:1) PromelaModel.pml:340 (state 248) [shuttlePos[shuttleId].dest = nextDest1]

Selected: 8

190: proc 2 (shuttle:1) PromelaModel.pml:95 (state 36) [((shuttlePos[shuttleId].origin!=shuttlePos[shuttleId].dest))]

Selected: 7

191: proc 2 (shuttle:1) PromelaModel.pml:99 (state 37) [(((shuttlePos[shuttleId].origin<shuttlePos[shuttleId].dest)&&(shuttlePos[shuttleId].dest!=6)))]

Selected: 7

192: proc 2 (shuttle:1) PromelaModel.pml:100 (state 38) [trackAvail[((shuttlePos[shuttleId].dest\*2)-1)] = 1]

Selected: 7

193: proc 2 (shuttle:1) PromelaModel.pml:122 (state 57) [shuttlePos[shuttleId].origin = shuttlePos[shuttleId].dest]

Selected: 11

194: proc 1 (management:1) PromelaModel.pml:473 (state 20) [((dummy!=NUM\_ORDERS))]

Selected: 10

195: proc 1 (management:1) PromelaModel.pml:474 (state 21) [order.start = orders[dummy].start]

Selected: 10

196: proc 1 (management:1) PromelaModel.pml:475 (state 22) [order.end = orders[dummy].end]

Selected: 10

197: proc 1 (management:1) PromelaModel.pml:476 (state 23) [order.load = orders[dummy].load]

Selected: 10

198: proc 1 (management:1) PromelaModel.pml:477 (state 24) [order.orderOrAssign = orders[dummy].orderOrAssign]

Selected: 10

199: proc 1 (management:1) PromelaModel.pml:478 (state 25) [dummy = (dummy+1)]

Selected: 10

200: proc 1 (management:1) PromelaModel.pml:482 (state 26) [managementToShuttles[numShuttlesSent]!order.start,order.end,order.load,order.orderOrAssign]

Selected: 10

201: proc 1 (management:1) PromelaModel.pml:483 (state 27) [numShuttlesSent = (numShuttlesSent+1)]

Selected: 11

202: proc 1 (management:1) PromelaModel.pml:488 (state 31) [((numShuttlesSent!=3))]

Selected: 10

203: proc 1 (management:1) PromelaModel.pml:489 (state 32) [(1)]

Selected: 10

204: proc 1 (management:1) PromelaModel.pml:482 (state 26) [managementToShuttles[numShuttlesSent]!order.start,order.end,order.load,order.orderOrAssign]

Selected: 10

205: proc 1 (management:1) PromelaModel.pml:483 (state 27) [numShuttlesSent = (numShuttlesSent+1)]

Selected: 11

206: proc 1 (management:1) PromelaModel.pml:488 (state 31) [((numShuttlesSent!=3))]

Selected: 10

207: proc 1 (management:1) PromelaModel.pml:489 (state 32) [(1)]

Selected: 10

208: proc 1 (management:1) PromelaModel.pml:482 (state 26) [managementToShuttles[numShuttlesSent]!order.start,order.end,order.load,order.orderOrAssign]

Selected: 10

209: proc 1 (management:1) PromelaModel.pml:483 (state 27) [numShuttlesSent = (numShuttlesSent+1)]

Selected: 10

210: proc 1 (management:1) PromelaModel.pml:485 (state 28) [((numShuttlesSent==3))]

Selected: 10

211: proc 1 (management:1) PromelaModel.pml:486 (state 29) [numShuttlesSent = 0]

Selected: 10

212: proc 1 (management:1) PromelaModel.pml:481 (state 37) [break]

Selected: 1

213: proc 4 (shuttle:1) PromelaModel.pml:58 (state 6) [managementToShuttles[shuttleId]?order.start,order.end,order.load,order.orderOrAssign]

Selected: 1

214: proc 4 (shuttle:1) PromelaModel.pml:64 (state 7) [((order.orderOrAssign==0))]

Selected: 1

215: proc 4 (shuttle:1) PromelaModel.pml:66 (state 8) [(((order.load+currLoad)<=capacity))]

Selected: 1

216: proc 4 (shuttle:1) PromelaModel.pml:68 (state 9) [difference = (shuttlePos[shuttleId].dest-order.start)]

Selected: 1

217: proc 4 (shuttle:1) PromelaModel.pml:69 (state 10) [(((difference<=2)&&(difference>=-(2))))]

Selected: 1

218: proc 4 (shuttle:1) PromelaModel.pml:70 (state 11) [reply.offerOrRefuse = 1]

Selected: 1

219: proc 4 (shuttle:1) PromelaModel.pml:85 (state 27) [shuttlesToManagement!reply.shuttleId,reply.offerOrRefuse,reply.payment]

Selected: 10

220: proc 1 (management:1) PromelaModel.pml:497 (state 38) [shuttlesToManagement?reply.shuttleId,reply.offerOrRefuse,reply.payment]

Selected: 10

221: proc 1 (management:1) PromelaModel.pml:498 (state 39) [numShuttlesReplied = (numShuttlesReplied+1)]

Selected: 11

222: proc 1 (management:1) PromelaModel.pml:501 (state 42) [(((reply.offerOrRefuse==1)&&(lowestOfferReceived==-(1))))]

Selected: 10

223: proc 1 (management:1) PromelaModel.pml:502 (state 43) [lowestOfferReceived = reply.payment]

Selected: 10

224: proc 1 (management:1) PromelaModel.pml:503 (state 44) [shuttleToOffer = reply.shuttleId]

Selected: 11

225: proc 1 (management:1) PromelaModel.pml:514 (state 55) [((numShuttlesReplied!=3))]

Selected: 10

226: proc 1 (management:1) PromelaModel.pml:514 (state 56) [(1)]

Selected: 4

227: proc 3 (shuttle:1) PromelaModel.pml:58 (state 6) [managementToShuttles[shuttleId]?order.start,order.end,order.load,order.orderOrAssign]

Selected: 4

228: proc 3 (shuttle:1) PromelaModel.pml:64 (state 7) [((order.orderOrAssign==0))]

Selected: 4

229: proc 3 (shuttle:1) PromelaModel.pml:66 (state 8) [(((order.load+currLoad)<=capacity))]

Selected: 4

230: proc 3 (shuttle:1) PromelaModel.pml:68 (state 9) [difference = (shuttlePos[shuttleId].dest-order.start)]

Selected: 4

231: proc 3 (shuttle:1) PromelaModel.pml:69 (state 10) [(((difference<=2)&&(difference>=-(2))))]

Selected: 4

232: proc 3 (shuttle:1) PromelaModel.pml:70 (state 11) [reply.offerOrRefuse = 1]

Selected: 4

233: proc 3 (shuttle:1) PromelaModel.pml:85 (state 27) [shuttlesToManagement!reply.shuttleId,reply.offerOrRefuse,reply.payment]

Selected: 10

234: proc 1 (management:1) PromelaModel.pml:497 (state 38) [shuttlesToManagement?reply.shuttleId,reply.offerOrRefuse,reply.payment]

Selected: 10

235: proc 1 (management:1) PromelaModel.pml:498 (state 39) [numShuttlesReplied = (numShuttlesReplied+1)]

Selected: 12

236: proc 1 (management:1) PromelaModel.pml:504 (state 45) [((((reply.offerOrRefuse==1)&&(lowestOfferReceived!=-(1)))&&(reply.payment>=lowestOfferReceived)))]

Selected: 10

237: proc 1 (management:1) PromelaModel.pml:504 (state 46) [(1)]

Selected: 11

238: proc 1 (management:1) PromelaModel.pml:514 (state 55) [((numShuttlesReplied!=3))]

Selected: 10

239: proc 1 (management:1) PromelaModel.pml:514 (state 56) [(1)]

Selected: 7

240: proc 2 (shuttle:1) PromelaModel.pml:58 (state 6) [managementToShuttles[shuttleId]?order.start,order.end,order.load,order.orderOrAssign]

Selected: 7

241: proc 2 (shuttle:1) PromelaModel.pml:64 (state 7) [((order.orderOrAssign==0))]

Selected: 7

242: proc 2 (shuttle:1) PromelaModel.pml:66 (state 8) [(((order.load+currLoad)<=capacity))]

Selected: 7

243: proc 2 (shuttle:1) PromelaModel.pml:68 (state 9) [difference = (shuttlePos[shuttleId].dest-order.start)]

Selected: 7

244: proc 2 (shuttle:1) PromelaModel.pml:69 (state 10) [(((difference<=2)&&(difference>=-(2))))]

Selected: 7

245: proc 2 (shuttle:1) PromelaModel.pml:70 (state 11) [reply.offerOrRefuse = 1]

Selected: 7

246: proc 2 (shuttle:1) PromelaModel.pml:85 (state 27) [shuttlesToManagement!reply.shuttleId,reply.offerOrRefuse,reply.payment]

Selected: 10

247: proc 1 (management:1) PromelaModel.pml:497 (state 38) [shuttlesToManagement?reply.shuttleId,reply.offerOrRefuse,reply.payment]

Selected: 10

248: proc 1 (management:1) PromelaModel.pml:498 (state 39) [numShuttlesReplied = (numShuttlesReplied+1)]

Selected: 13

249: proc 1 (management:1) PromelaModel.pml:505 (state 47) [((((reply.offerOrRefuse==1)&&(lowestOfferReceived!=-(1)))&&(reply.payment<lowestOfferReceived)))]

Selected: 10

250: proc 1 (management:1) PromelaModel.pml:506 (state 48) [lowestOfferReceived = reply.payment]

Selected: 10

251: proc 1 (management:1) PromelaModel.pml:507 (state 49) [shuttleToOffer = reply.shuttleId]

Selected: 10

252: proc 1 (management:1) PromelaModel.pml:511 (state 52) [((numShuttlesReplied==3))]

Selected: 10

253: proc 1 (management:1) PromelaModel.pml:512 (state 53) [numShuttlesReplied = 0]

Selected: 10

254: proc 1 (management:1) PromelaModel.pml:496 (state 61) [break]

Selected: 11

255: proc 1 (management:1) PromelaModel.pml:520 (state 64) [((lowestOfferReceived!=-(1)))]

Selected: 10

256: proc 1 (management:1) PromelaModel.pml:521 (state 65) [order.orderOrAssign = 1]

Selected: 10

257: proc 1 (management:1) PromelaModel.pml:522 (state 66) [managementToShuttles[shuttleToOffer]!order.start,order.end,order.load,order.orderOrAssign]

Selected: 10

258: proc 1 (management:1) PromelaModel.pml:523 (state 67) [lowestOfferReceived = -(1)]

Selected: 10

259: proc 1 (management:1) PromelaModel.pml:471 (state 18) [((dummy==NUM\_ORDERS))]

Selected: 10

260: proc 1 (management:1) PromelaModel.pml:470 (state 72) [break]

Selected: 7

261: proc 2 (shuttle:1) PromelaModel.pml:58 (state 6) [managementToShuttles[shuttleId]?order.start,order.end,order.load,order.orderOrAssign]

Selected: 8

262: proc 2 (shuttle:1) PromelaModel.pml:86 (state 28) [((order.orderOrAssign==1))]

Selected: 7

263: proc 2 (shuttle:1) PromelaModel.pml:87 (state 29) [ordersAssigned[numOrdersAssigned].start = order.start]

Selected: 7

264: proc 2 (shuttle:1) PromelaModel.pml:88 (state 30) [ordersAssigned[numOrdersAssigned].end = order.end]

Selected: 7

265: proc 2 (shuttle:1) PromelaModel.pml:89 (state 31) [ordersAssigned[numOrdersAssigned].load = order.load]

Selected: 7

266: proc 2 (shuttle:1) PromelaModel.pml:90 (state 32) [ordersAssigned[numOrdersAssigned].orderOrAssign = order.orderOrAssign]

Selected: 7

267: proc 2 (shuttle:1) PromelaModel.pml:91 (state 33) [numOrdersAssigned = (numOrdersAssigned+1)]

Selected: 9

268: proc 2 (shuttle:1) PromelaModel.pml:125 (state 58) [((shuttlePos[shuttleId].origin==shuttlePos[shuttleId].dest))]

Selected: 10

269: proc 2 (shuttle:1) PromelaModel.pml:289 (state 200) [(((numOrdersBeingExecuted!=0)&&(shuttlePos[shuttleId].dest!=ordersBeingExecuted[0].end)))]

Selected: 7

270: proc 2 (shuttle:1) PromelaModel.pml:292 (state 201) [nextDest1 = (shuttlePos[shuttleId].dest+1)]

Selected: 8

271: proc 2 (shuttle:1) PromelaModel.pml:293 (state 206) [IF]

Selected: 7

272: proc 2 (shuttle:1) PromelaModel.pml:296 (state 205) [(1)]

Selected: 7

273: proc 2 (shuttle:1) PromelaModel.pml:298 (state 208) [nextDest2 = (shuttlePos[shuttleId].dest-1)]

Selected: 8

274: proc 2 (shuttle:1) PromelaModel.pml:299 (state 213) [IF]

Selected: 7

275: proc 2 (shuttle:1) PromelaModel.pml:302 (state 212) [(1)]

Selected: 7

276: proc 2 (shuttle:1) PromelaModel.pml:305 (state 215) [difference1 = (nextDest1-ordersBeingExecuted[0].end)]

Selected: 9

277: proc 2 (shuttle:1) PromelaModel.pml:306 (state 222) [IF]

Selected: 7

278: proc 2 (shuttle:1) PromelaModel.pml:311 (state 221) [(1)]

Selected: 8

279: proc 2 (shuttle:1) PromelaModel.pml:313 (state 228) [IF]

Selected: 7

280: proc 2 (shuttle:1) PromelaModel.pml:316 (state 227) [(1)]

Selected: 7

281: proc 2 (shuttle:1) PromelaModel.pml:319 (state 230) [difference2 = (nextDest2-ordersBeingExecuted[0].end)]

Selected: 9

282: proc 2 (shuttle:1) PromelaModel.pml:320 (state 237) [IF]

Selected: 7

283: proc 2 (shuttle:1) PromelaModel.pml:325 (state 236) [(1)]

Selected: 7

284: proc 2 (shuttle:1) PromelaModel.pml:328 (state 239) [((difference2<0))]

Selected: 7

285: proc 2 (shuttle:1) PromelaModel.pml:329 (state 240) [difference2 = (0-difference2)]

Selected: 7

286: proc 2 (shuttle:1) PromelaModel.pml:336 (state 245) [((difference1<=difference2))]

Selected: 7

287: proc 2 (shuttle:1) PromelaModel.pml:338 (state 246) [((((shuttlePos[shuttleId].origin<nextDest1)&&(nextDest1!=6))&&(trackAvail[((nextDest1\*2)-1)]==1)))]

Selected: 7

288: proc 2 (shuttle:1) PromelaModel.pml:339 (state 247) [trackAvail[((nextDest1\*2)-1)] = 0]

Selected: 7

289: proc 2 (shuttle:1) PromelaModel.pml:340 (state 248) [shuttlePos[shuttleId].dest = nextDest1]

Selected: 8

290: proc 2 (shuttle:1) PromelaModel.pml:95 (state 36) [((shuttlePos[shuttleId].origin!=shuttlePos[shuttleId].dest))]

Selected: 7

291: proc 2 (shuttle:1) PromelaModel.pml:99 (state 37) [(((shuttlePos[shuttleId].origin<shuttlePos[shuttleId].dest)&&(shuttlePos[shuttleId].dest!=6)))]

Selected: 7

292: proc 2 (shuttle:1) PromelaModel.pml:100 (state 38) [trackAvail[((shuttlePos[shuttleId].dest\*2)-1)] = 1]

Selected: 7

293: proc 2 (shuttle:1) PromelaModel.pml:122 (state 57) [shuttlePos[shuttleId].origin = shuttlePos[shuttleId].dest]

Selected: 9

294: proc 2 (shuttle:1) PromelaModel.pml:125 (state 58) [((shuttlePos[shuttleId].origin==shuttlePos[shuttleId].dest))]

Selected: 11

295: proc 2 (shuttle:1) PromelaModel.pml:412 (state 313) [(((numOrdersBeingExecuted!=0)&&(shuttlePos[shuttleId].dest==ordersBeingExecuted[0].end)))]

Selected: 7

296: proc 2 (shuttle:1) PromelaModel.pml:413 (state 314) [numOrdersBeingExecuted = (numOrdersBeingExecuted-1)]

Selected: 7

297: proc 2 (shuttle:1) PromelaModel.pml:414 (state 315) [currLoad = (currLoad-ordersBeingExecuted[0].load)]

Selected: 7

298: proc 2 (shuttle:1) PromelaModel.pml:416 (state 316) [dummy = numOrdersBeingExecuted]

Selected: 7

299: proc 2 (shuttle:1) PromelaModel.pml:417 (state 317) [dummy2 = 0]

Selected: 8

300: proc 2 (shuttle:1) PromelaModel.pml:429 (state 325) [((dummy==0))]

Selected: 7

301: proc 2 (shuttle:1) PromelaModel.pml:430 (state 326) [ordersBeingExecuted[numOrdersBeingExecuted].start = 0]

Selected: 7

302: proc 2 (shuttle:1) PromelaModel.pml:431 (state 327) [ordersBeingExecuted[numOrdersBeingExecuted].end = 0]

Selected: 7

303: proc 2 (shuttle:1) PromelaModel.pml:432 (state 328) [ordersBeingExecuted[numOrdersBeingExecuted].load = 0]

Selected: 7

304: proc 2 (shuttle:1) PromelaModel.pml:433 (state 329) [ordersBeingExecuted[numOrdersBeingExecuted].orderOrAssign = 0]

Selected: 7

305: proc 2 (shuttle:1) PromelaModel.pml:420 (state 333) [break]

Selected: 9

306: proc 2 (shuttle:1) PromelaModel.pml:125 (state 58) [((shuttlePos[shuttleId].origin==shuttlePos[shuttleId].dest))]

Selected: 8

307: proc 2 (shuttle:1) PromelaModel.pml:133 (state 61) [((((numOrdersBeingExecuted==0)&&(numOrdersAssigned!=0))&&(shuttlePos[shuttleId].dest!=ordersAssigned[0].start)))]

Selected: 7

308: proc 2 (shuttle:1) PromelaModel.pml:136 (state 62) [nextDest1 = (shuttlePos[shuttleId].dest+1)]

Selected: 8

309: proc 2 (shuttle:1) PromelaModel.pml:137 (state 67) [IF]

Selected: 7

310: proc 2 (shuttle:1) PromelaModel.pml:140 (state 66) [(1)]

Selected: 7

311: proc 2 (shuttle:1) PromelaModel.pml:142 (state 69) [nextDest2 = (shuttlePos[shuttleId].dest-1)]

Selected: 8

312: proc 2 (shuttle:1) PromelaModel.pml:143 (state 74) [IF]

Selected: 7

313: proc 2 (shuttle:1) PromelaModel.pml:146 (state 73) [(1)]

Selected: 7

314: proc 2 (shuttle:1) PromelaModel.pml:149 (state 76) [difference1 = (nextDest1-ordersAssigned[0].start)]

Selected: 9

315: proc 2 (shuttle:1) PromelaModel.pml:150 (state 83) [IF]

Selected: 7

316: proc 2 (shuttle:1) PromelaModel.pml:155 (state 82) [(1)]

Selected: 8

317: proc 2 (shuttle:1) PromelaModel.pml:157 (state 89) [IF]

Selected: 7

318: proc 2 (shuttle:1) PromelaModel.pml:160 (state 88) [(1)]

Selected: 7

319: proc 2 (shuttle:1) PromelaModel.pml:163 (state 91) [difference2 = (nextDest2-ordersAssigned[0].start)]

Selected: 9

320: proc 2 (shuttle:1) PromelaModel.pml:164 (state 98) [IF]

Selected: 7

321: proc 2 (shuttle:1) PromelaModel.pml:169 (state 97) [(1)]

Selected: 8

322: proc 2 (shuttle:1) PromelaModel.pml:171 (state 104) [IF]

Selected: 7

323: proc 2 (shuttle:1) PromelaModel.pml:174 (state 103) [(1)]

Selected: 8

324: proc 2 (shuttle:1) PromelaModel.pml:217 (state 139) [((difference1>difference2))]

Selected: 9

325: proc 2 (shuttle:1) PromelaModel.pml:234 (state 154) [((((shuttlePos[shuttleId].origin>nextDest2)&&(nextDest2!=1))&&(trackAvail[(nextDest2\*2)]==1)))]

Selected: 7

326: proc 2 (shuttle:1) PromelaModel.pml:235 (state 155) [trackAvail[(nextDest2\*2)] = 0]

Selected: 7

327: proc 2 (shuttle:1) PromelaModel.pml:236 (state 156) [shuttlePos[shuttleId].dest = nextDest2]

Selected: 8

328: proc 2 (shuttle:1) PromelaModel.pml:95 (state 36) [((shuttlePos[shuttleId].origin!=shuttlePos[shuttleId].dest))]

Selected: 9

329: proc 2 (shuttle:1) PromelaModel.pml:110 (state 46) [(((shuttlePos[shuttleId].origin>shuttlePos[shuttleId].dest)&&(shuttlePos[shuttleId].dest!=1)))]

Selected: 7

330: proc 2 (shuttle:1) PromelaModel.pml:111 (state 47) [trackAvail[(shuttlePos[shuttleId].dest\*2)] = 1]

Selected: 7

331: proc 2 (shuttle:1) PromelaModel.pml:122 (state 57) [shuttlePos[shuttleId].origin = shuttlePos[shuttleId].dest]

Selected: 9

332: proc 2 (shuttle:1) PromelaModel.pml:125 (state 58) [((shuttlePos[shuttleId].origin==shuttlePos[shuttleId].dest))]

Selected: 9

333: proc 2 (shuttle:1) PromelaModel.pml:256 (state 174) [(((((numOrdersBeingExecuted==0)&&(numOrdersAssigned!=0))&&(shuttlePos[shuttleId].dest==ordersAssigned[0].start))&&((ordersAssigned[0].load+currLoad)<=capacity)))]

Selected: 7

334: proc 2 (shuttle:1) PromelaModel.pml:258 (state 175) [ordersBeingExecuted[numOrdersBeingExecuted].start = ordersAssigned[0].start]

Selected: 7

335: proc 2 (shuttle:1) PromelaModel.pml:259 (state 176) [ordersBeingExecuted[numOrdersBeingExecuted].end = ordersAssigned[0].end]

Selected: 7

336: proc 2 (shuttle:1) PromelaModel.pml:260 (state 177) [ordersBeingExecuted[numOrdersBeingExecuted].load = ordersAssigned[0].load]

Selected: 7

337: proc 2 (shuttle:1) PromelaModel.pml:261 (state 178) [ordersBeingExecuted[numOrdersBeingExecuted].orderOrAssign = ordersAssigned[0].orderOrAssign]

Selected: 7

338: proc 2 (shuttle:1) PromelaModel.pml:262 (state 179) [currLoad = (currLoad+ordersBeingExecuted[0].load)]

Selected: 7

339: proc 2 (shuttle:1) PromelaModel.pml:264 (state 180) [numOrdersBeingExecuted = (numOrdersBeingExecuted+1)]

Selected: 7

340: proc 2 (shuttle:1) PromelaModel.pml:265 (state 181) [numOrdersAssigned = (numOrdersAssigned-1)]

Selected: 7

341: proc 2 (shuttle:1) PromelaModel.pml:267 (state 182) [dummy = numOrdersAssigned]

Selected: 7

342: proc 2 (shuttle:1) PromelaModel.pml:268 (state 183) [dummy2 = 0]

Selected: 8

343: proc 2 (shuttle:1) PromelaModel.pml:280 (state 191) [((dummy==0))]

Selected: 7

344: proc 2 (shuttle:1) PromelaModel.pml:281 (state 192) [ordersAssigned[numOrdersAssigned].start = 0]

Selected: 7

345: proc 2 (shuttle:1) PromelaModel.pml:282 (state 193) [ordersAssigned[numOrdersAssigned].end = 0]

Selected: 7

346: proc 2 (shuttle:1) PromelaModel.pml:283 (state 194) [ordersAssigned[numOrdersAssigned].load = 0]

Selected: 7

347: proc 2 (shuttle:1) PromelaModel.pml:284 (state 195) [ordersAssigned[numOrdersAssigned].orderOrAssign = 0]

Selected: 7

348: proc 2 (shuttle:1) PromelaModel.pml:271 (state 199) [break]

Selected: 9

349: proc 2 (shuttle:1) PromelaModel.pml:125 (state 58) [((shuttlePos[shuttleId].origin==shuttlePos[shuttleId].dest))]

Selected: 10

350: proc 2 (shuttle:1) PromelaModel.pml:289 (state 200) [(((numOrdersBeingExecuted!=0)&&(shuttlePos[shuttleId].dest!=ordersBeingExecuted[0].end)))]

Selected: 7

351: proc 2 (shuttle:1) PromelaModel.pml:292 (state 201) [nextDest1 = (shuttlePos[shuttleId].dest+1)]

Selected: 8

352: proc 2 (shuttle:1) PromelaModel.pml:293 (state 206) [IF]

Selected: 7

353: proc 2 (shuttle:1) PromelaModel.pml:296 (state 205) [(1)]

Selected: 7

354: proc 2 (shuttle:1) PromelaModel.pml:298 (state 208) [nextDest2 = (shuttlePos[shuttleId].dest-1)]

Selected: 8

355: proc 2 (shuttle:1) PromelaModel.pml:299 (state 213) [IF]

Selected: 7

356: proc 2 (shuttle:1) PromelaModel.pml:302 (state 212) [(1)]

Selected: 7

357: proc 2 (shuttle:1) PromelaModel.pml:305 (state 215) [difference1 = (nextDest1-ordersBeingExecuted[0].end)]

Selected: 9

358: proc 2 (shuttle:1) PromelaModel.pml:306 (state 222) [IF]

Selected: 7

359: proc 2 (shuttle:1) PromelaModel.pml:311 (state 221) [(1)]

Selected: 8

360: proc 2 (shuttle:1) PromelaModel.pml:313 (state 228) [IF]

Selected: 7

361: proc 2 (shuttle:1) PromelaModel.pml:316 (state 227) [(1)]

Selected: 7

362: proc 2 (shuttle:1) PromelaModel.pml:319 (state 230) [difference2 = (nextDest2-ordersBeingExecuted[0].end)]

Selected: 9

363: proc 2 (shuttle:1) PromelaModel.pml:320 (state 237) [IF]

Selected: 7

364: proc 2 (shuttle:1) PromelaModel.pml:325 (state 236) [(1)]

Selected: 7

365: proc 2 (shuttle:1) PromelaModel.pml:328 (state 239) [((difference2<0))]

Selected: 7

366: proc 2 (shuttle:1) PromelaModel.pml:329 (state 240) [difference2 = (0-difference2)]

Selected: 7

367: proc 2 (shuttle:1) PromelaModel.pml:336 (state 245) [((difference1<=difference2))]

Selected: 7

368: proc 2 (shuttle:1) PromelaModel.pml:338 (state 246) [((((shuttlePos[shuttleId].origin<nextDest1)&&(nextDest1!=6))&&(trackAvail[((nextDest1\*2)-1)]==1)))]

Selected: 7

369: proc 2 (shuttle:1) PromelaModel.pml:339 (state 247) [trackAvail[((nextDest1\*2)-1)] = 0]

Selected: 7

370: proc 2 (shuttle:1) PromelaModel.pml:340 (state 248) [shuttlePos[shuttleId].dest = nextDest1]

Selected: 8

371: proc 2 (shuttle:1) PromelaModel.pml:95 (state 36) [((shuttlePos[shuttleId].origin!=shuttlePos[shuttleId].dest))]

Selected: 7

372: proc 2 (shuttle:1) PromelaModel.pml:99 (state 37) [(((shuttlePos[shuttleId].origin<shuttlePos[shuttleId].dest)&&(shuttlePos[shuttleId].dest!=6)))]

Selected: 7

373: proc 2 (shuttle:1) PromelaModel.pml:100 (state 38) [trackAvail[((shuttlePos[shuttleId].dest\*2)-1)] = 1]

Selected: 7

374: proc 2 (shuttle:1) PromelaModel.pml:122 (state 57) [shuttlePos[shuttleId].origin = shuttlePos[shuttleId].dest]

Selected: 9

375: proc 2 (shuttle:1) PromelaModel.pml:125 (state 58) [((shuttlePos[shuttleId].origin==shuttlePos[shuttleId].dest))]

Selected: 11

376: proc 2 (shuttle:1) PromelaModel.pml:412 (state 313) [(((numOrdersBeingExecuted!=0)&&(shuttlePos[shuttleId].dest==ordersBeingExecuted[0].end)))]

Selected: 7

377: proc 2 (shuttle:1) PromelaModel.pml:413 (state 314) [numOrdersBeingExecuted = (numOrdersBeingExecuted-1)]

Selected: 7

378: proc 2 (shuttle:1) PromelaModel.pml:414 (state 315) [currLoad = (currLoad-ordersBeingExecuted[0].load)]

Selected: 7

379: proc 2 (shuttle:1) PromelaModel.pml:416 (state 316) [dummy = numOrdersBeingExecuted]

Selected: 7

380: proc 2 (shuttle:1) PromelaModel.pml:417 (state 317) [dummy2 = 0]

Selected: 8

381: proc 2 (shuttle:1) PromelaModel.pml:429 (state 325) [((dummy==0))]

Selected: 7

382: proc 2 (shuttle:1) PromelaModel.pml:430 (state 326) [ordersBeingExecuted[numOrdersBeingExecuted].start = 0]

Selected: 7

383: proc 2 (shuttle:1) PromelaModel.pml:431 (state 327) [ordersBeingExecuted[numOrdersBeingExecuted].end = 0]

Selected: 7

384: proc 2 (shuttle:1) PromelaModel.pml:432 (state 328) [ordersBeingExecuted[numOrdersBeingExecuted].load = 0]

Selected: 7

385: proc 2 (shuttle:1) PromelaModel.pml:433 (state 329) [ordersBeingExecuted[numOrdersBeingExecuted].orderOrAssign = 0]

Selected: 7

386: proc 2 (shuttle:1) PromelaModel.pml:420 (state 333) [break]

Selected: 9

387: proc 2 (shuttle:1) PromelaModel.pml:125 (state 58) [((shuttlePos[shuttleId].origin==shuttlePos[shuttleId].dest))]

Selected: 7

388: proc 2 (shuttle:1) PromelaModel.pml:129 (state 59) [(((numOrdersBeingExecuted==0)&&(numOrdersAssigned==0)))]

Selected: 7

389: proc 2 (shuttle:1) PromelaModel.pml:130 (state 60) [(1)]

Selected: 6

390: proc 3 (shuttle:1) PromelaModel.pml:125 (state 58) [((shuttlePos[shuttleId].origin==shuttlePos[shuttleId].dest))]

Selected: 4

391: proc 3 (shuttle:1) PromelaModel.pml:129 (state 59) [(((numOrdersBeingExecuted==0)&&(numOrdersAssigned==0)))]

Selected: 4

392: proc 3 (shuttle:1) PromelaModel.pml:130 (state 60) [(1)]

Selected: 3

393: proc 4 (shuttle:1) PromelaModel.pml:125 (state 58) [((shuttlePos[shuttleId].origin==shuttlePos[shuttleId].dest))]

Selected: 1

394: proc 4 (shuttle:1) PromelaModel.pml:129 (state 59) [(((numOrdersBeingExecuted==0)&&(numOrdersAssigned==0)))]

Selected: 1

395: proc 4 (shuttle:1) PromelaModel.pml:130 (state 60) [(1)]

Selected: 9

396: proc 2 (shuttle:1) PromelaModel.pml:125 (state 58) [((shuttlePos[shuttleId].origin==shuttlePos[shuttleId].dest))]

Selected: 7

397: proc 2 (shuttle:1) PromelaModel.pml:129 (state 59) [(((numOrdersBeingExecuted==0)&&(numOrdersAssigned==0)))]

Selected: 7

398: proc 2 (shuttle:1) PromelaModel.pml:130 (state 60) [(1)]

Selected: 6

399: proc 3 (shuttle:1) PromelaModel.pml:125 (state 58) [((shuttlePos[shuttleId].origin==shuttlePos[shuttleId].dest))]

Selected: 4

400: proc 3 (shuttle:1) PromelaModel.pml:129 (state 59) [(((numOrdersBeingExecuted==0)&&(numOrdersAssigned==0)))]

Selected: 4

401: proc 3 (shuttle:1) PromelaModel.pml:130 (state 60) [(1)]

Selected: 3

402: proc 4 (shuttle:1) PromelaModel.pml:125 (state 58) [((shuttlePos[shuttleId].origin==shuttlePos[shuttleId].dest))]

Selected: 1

403: proc 4 (shuttle:1) PromelaModel.pml:129 (state 59) [(((numOrdersBeingExecuted==0)&&(numOrdersAssigned==0)))]

Selected: 1

404: proc 4 (shuttle:1) PromelaModel.pml:130 (state 60) [(1)]

Selected: q