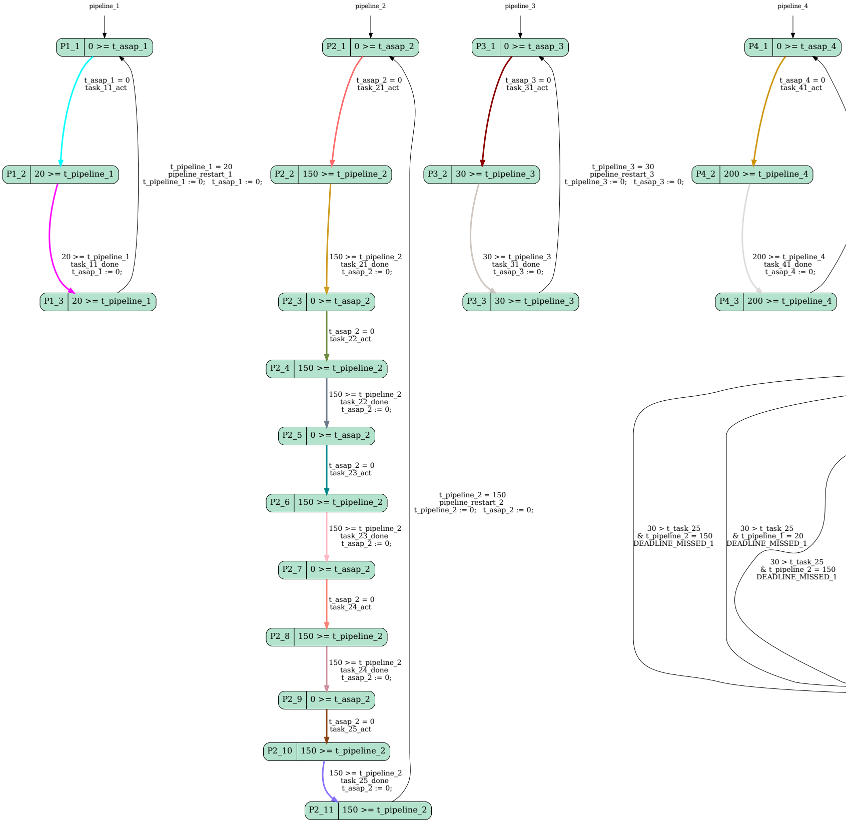
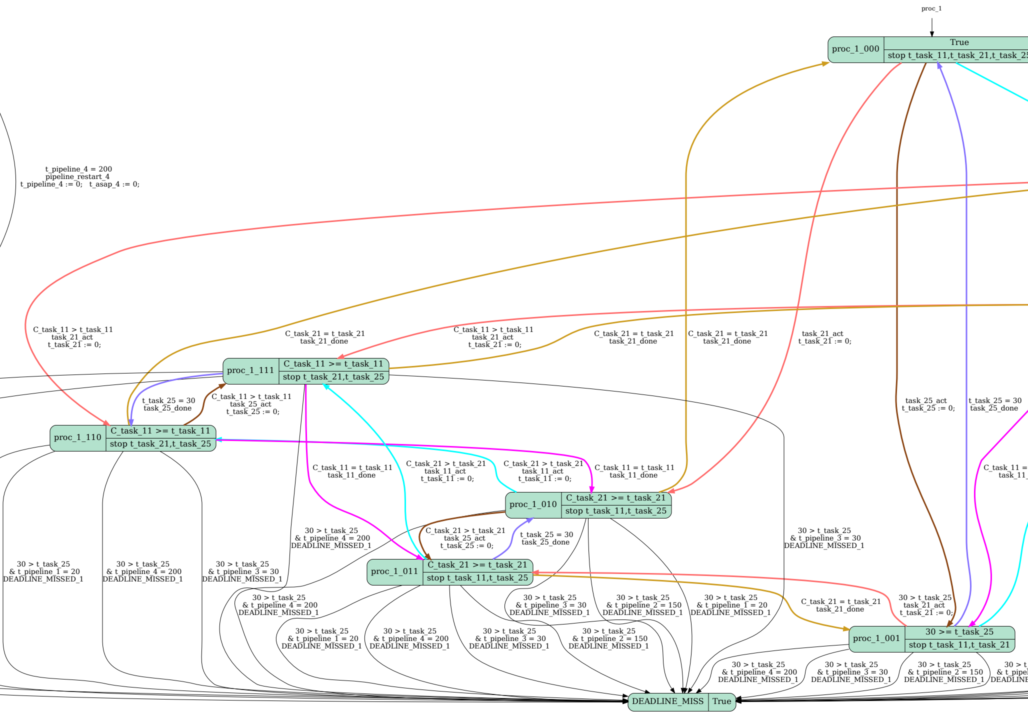
SSLAF13_test1.imi

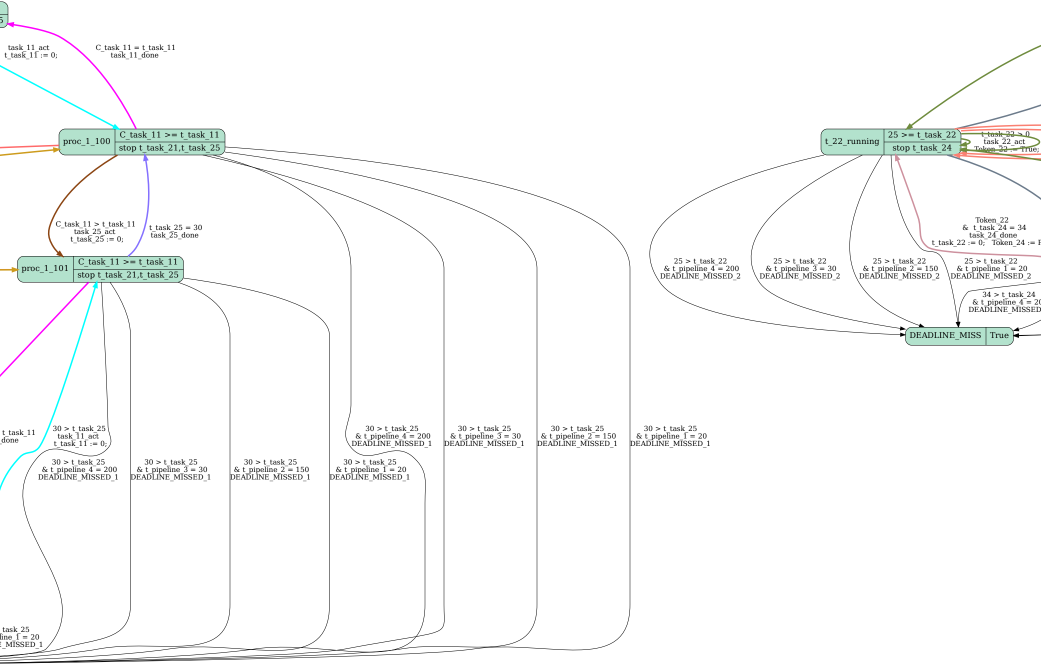
Generated by IMITATOR 3.4-beta "Cheese Durian"
Build: develop/6908f5d
Generation time: Tue Jan 23, 2024 09:33:27

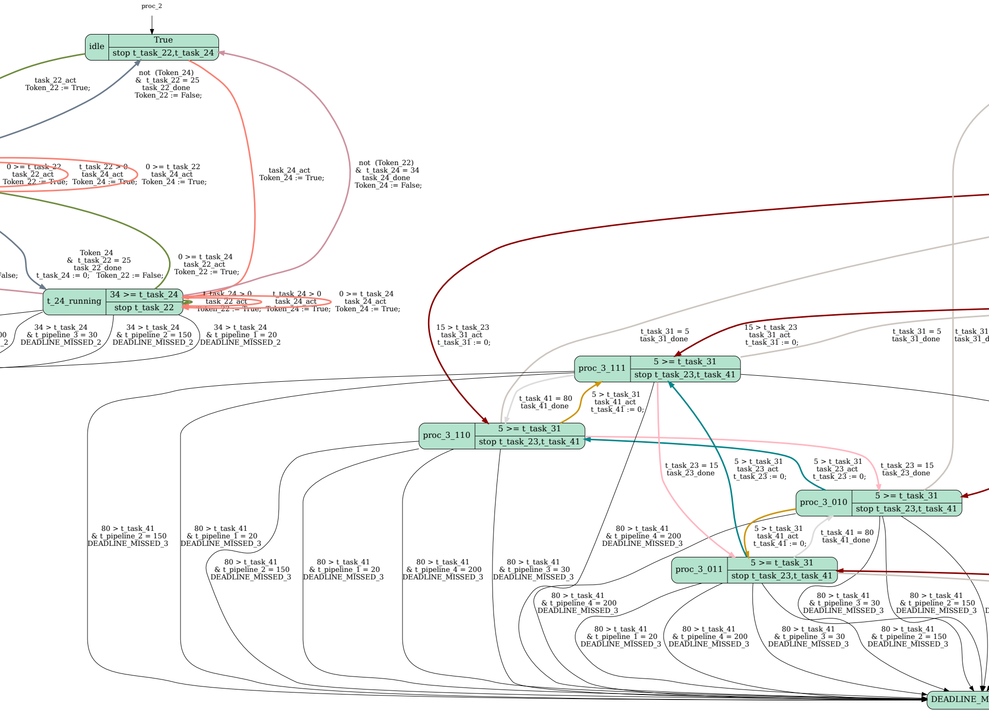
16 clocks	2 parameters	2 discrete	Initial
t_task_41 t_pipeline_4 t_asap_4 t_task_31 t_pipeline_3 t_asap_3 t_task_25 t_task_24 t_task_23 t_task_22 t_task_21 t_pipeline_2 t_asap_2 t_task_11 t_pipeline_1 t_asap_1	C_task_11 C_task_21	Token_24 Token_22	C_task_21 >= 0 & C_task_11 >= 0 & t_task_41 = 0 & t_pipeline_4 = 0 & t_asap_4 = 0 & t_task_31 = 0 & t_pipeline_3 = 0 & t_asap_3 = 0 & t_task_25 = 0 & t_task_24 = 0 & t_task_23 = 0 & t_task_22 = 0 & t_task_21 = 0 & t_pipeline_2 = 0 & t_asap_2 = 0 & t_task_11 = 0 & t_pipeline_1 = 0 & t_asap_1 = 0

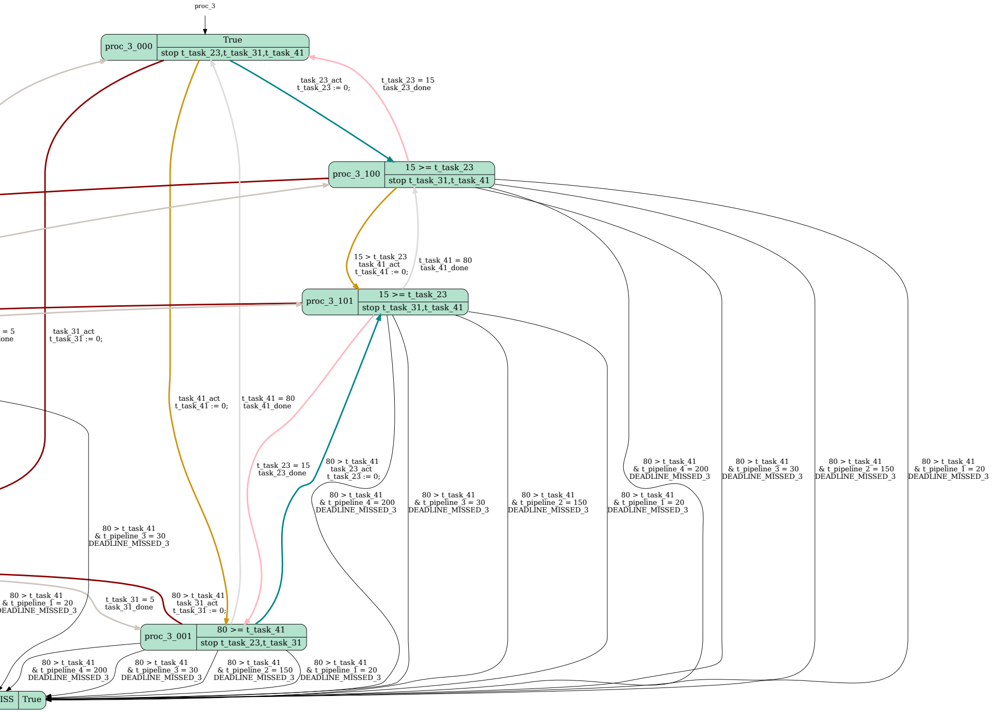


pipeline_1
P1_1 | 0 >= t_asap_1
t_asap_1 = 0
task_11_act
P1_2 | 20 >= t_pipeline_1
20 >= t_pipeline_1
task_11_done
t_asap_1 := 0;
P1_3 | 20 >= t_pipeline_1
t_pipeline_1 = 20
pipeline_restart_1
t_pipeline_1 := 0; t_asap_1 := 0;
pipeline_2
P2_1 | 0 >= t_asap_2
t_asap_2 = 0
task_21_act
P2_2 | 150 >= t_pipeline_2
150 >= t_pipeline_2
task_21_done
t_asap_2 := 0;
P2_3 | 0 >= t_asap_2
t_asap_2 = 0
task_22_act
P2_4 | 150 >= t_pipeline_2
150 >= t_pipeline_2
task_22_done
t_asap_2 := 0;
P2_5 | 0 >= t_asap_2
t_asap_2 = 0
task_23_act
P2_6 | 150 >= t_pipeline_2
150 >= t_pipeline_2
task_23_done
t_asap_2 := 0;
P2_7 | 0 >= t_asap_2
t_asap_2 = 0
task_24_act
P2_8 | 150 >= t_pipeline_2
150 >= t_pipeline_2
task_24_done
t_asap_2 := 0;
P2_9 | 0 >= t_asap_2
t_asap_2 = 0
task_25_act
P2_10 | 150 >= t_pipeline_2
150 >= t_pipeline_2
task_25_done
t_asap_2 := 0;
P2_11 | 150 >= t_pipeline_2
t_pipeline_2 = 150
pipeline_restart_2
t_pipeline_2 := 0; t_asap_2 := 0;
pipeline_3
P3_1 | 0 >= t_asap_3
t_asap_3 = 0
task_31_act
P3_2 | 30 >= t_pipeline_3
30 >= t_pipeline_3
task_31_done
t_asap_3 := 0;
P3_3 | 30 >= t_pipeline_3
t_pipeline_3 = 30
pipeline_restart_3
t_pipeline_3 := 0; t_asap_3 := 0;
pipeline_4
P4_1 | 0 >= t_asap_4
t_asap_4 = 0
task_41_act
P4_2 | 200 >= t_pipeline_4
200 >= t_pipeline_4
task_41_done
t_asap_4 := 0;
P4_3 | 200 >= t_pipeline_4
30 > t_task_25
& t_pipeline_2 = 150
DEADLINE_MISSED_1
30 > t_task_25
& t_pipeline_1 = 20
DEADLINE_MISSED_1
30 > t_task_25
& t_pipeline_2 = 150
DEADLINE_MISSED_1


proc_1
proc_1_000
True
stop t_task_11,t_task_21,t_task_25
t_pipeline_4 = 200
pipeline_restart_4
t_pipeline_4 := 0; t_asap_4 := 0;
C_task_11 > t_task_11
task_21_act
t_task_21 := 0;
C_task_21 = t_task_21
task_21_done
C_task_11 > t_task_11
task_21_act
t_task_21 := 0;
C_task_21 = t_task_21
task_21_done
C_task_21 = t_task_21
task_21_done
task_21_act
t_task_21 := 0;
proc_1_111
C_task_11 >= t_task_11
stop t_task_21,t_task_25
t_task_25 = 30
task_25_done
C_task_11 > t_task_11
task_25_act
t_task_25 := 0;
task_25_act
t_task_25 := 0;
t_task_25 = 30
task_25_done
proc_1_110
C_task_11 >= t_task_11
stop t_task_21,t_task_25
C_task_11 = t_task_11
task_11_done
C_task_21 > t_task_21
task_11_act
t_task_11 := 0;
C_task_21 > t_task_21
task_11_act
t_task_11 := 0;
C_task_11 = t_task_11
task_11_done
C_task_11 =
task_11_
proc_1_010
C_task_21 >= t_task_21
stop t_task_11,t_task_25
30 > t_task_25
& t_pipeline_4 = 200
DEADLINE_MISSED_1
30 > t_task_25
& t_pipeline_3 = 30
DEADLINE_MISSED_1
C_task_21 > t_task_21
task_25_act
t_task_25 := 0;
t_task_25 = 30
task_25_done
30 > t_task_25
& t_pipeline_1 = 20
DEADLINE_MISSED_1
30 > t_task_25
& t_pipeline_4 = 200
DEADLINE_MISSED_1
30 > t_task_25
& t_pipeline_3 = 30
DEADLINE_MISSED_1
proc_1_011
C_task_21 >= t_task_21
stop t_task_11,t_task_25
30 > t_task_25
& t_pipeline_4 = 200
DEADLINE_MISSED_1
30 > t_task_25
& t_pipeline_3 = 30
DEADLINE_MISSED_1
30 > t_task_25
& t_pipeline_2 = 150
DEADLINE_MISSED_1
30 > t_task_25
& t_pipeline_1 = 20
DEADLINE_MISSED_1
C_task_21 = t_task_21
task_21_done
30 > t_task_25
task_21_act
t_task_21 := 0;
30 > t_task_25
& t_pipeline_1 = 20
DEADLINE_MISSED_1
30 > t_task_25
& t_pipeline_4 = 200
DEADLINE_MISSED_1
30 > t_task_25
& t_pipeline_3 = 30
DEADLINE_MISSED_1
30 > t_task_25
& t_pipeline_2 = 150
DEADLINE_MISSED_1
proc_1_001
30 >= t_task_25
stop t_task_11,t_task_21
30 > t_task_25
& t_pipeline_4 = 200
DEADLINE_MISSED_1
30 > t_task_25
& t_pipeline_3 = 30
DEADLINE_MISSED_1
30 > t_task_25
& t_pipeline_2 = 150
DEADLINE_MISSED_1
30 > t
& t_pipe
DEADLINE
DEADLINE_MISS
True


task_11_act
t_task_11 := 0;
C_task_11 = t_task_11
task_11_done
proc_1_100
C_task_11 >= t_task_11
stop t_task_21,t_task_25
C_task_11 > t_task_11
task_25_act
t_task_25 := 0;
t_task_25 = 30
task_25_done
proc_1_101
C_task_11 >= t_task_11
stop t_task_21,t_task_25
t_task_11
done
30 > t_task_25
task_11_act
t_task_11 := 0;
30 > t_task_25
& t_pipeline_4 = 200
DEADLINE_MISSED_1
30 > t_task_25
& t_pipeline_3 = 30
DEADLINE_MISSED_1
30 > t_task_25
& t_pipeline_2 = 150
DEADLINE_MISSED_1
30 > t_task_25
& t_pipeline_1 = 20
DEADLINE_MISSED_1
30 > t_task_25
& t_pipeline_4 = 200
DEADLINE_MISSED_1
30 > t_task_25
& t_pipeline_3 = 30
DEADLINE_MISSED_1
30 > t_task_25
& t_pipeline_2 = 150
DEADLINE_MISSED_1
30 > t_task_25
& t_pipeline_1 = 20
DEADLINE_MISSED_1
t_task_25
line_1 = 20
_MISSED_1
t_22_running
25 >= t_task_22
stop t_task_24
t_task_22 > 0
task_22_act
Token_22 := True;
Token_22
& t_task_24 = 34
task_24_done
t_task_22 := 0; Token_24 := F
25 > t_task_22
& t_pipeline_4 = 200
DEADLINE_MISSED_2
25 > t_task_22
& t_pipeline_3 = 30
DEADLINE_MISSED_2
25 > t_task_22
& t_pipeline_2 = 150
DEADLINE_MISSED_2
25 > t_task_22
& t_pipeline_1 = 20
DEADLINE_MISSED_2
34 > t_task_24
& t_pipeline_4 = 20
DEADLINE_MISSED
DEADLINE_MISS
True


proc_2
idle
True
stop t_task_22,t_task_24
task_22_act
Token_22 := True;
not (Token_24)
& t_task_22 = 25
task_22_done
Token_22 := False;
0 >= t_task_22
task_22_act
Token_22 := True;
t_task_22 > 0
task_24_act
Token_24 := True;
0 >= t_task_22
task_24_act
Token_24 := True;
task_24_act
Token_24 := True;
not (Token_22)
& t_task_24 = 34
task_24_done
Token_24 := False;
Token_24
& t_task_22 = 25
task_22_done
t_task_24 := 0; Token_22 := False;
False;
0 >= t_task_24
task_22_act
Token_22 := True;
t_24_running
34 >= t_task_24
stop t_task_22
t_task_24 > 0
task_22_act
Token_22 := True;
t_task_24 > 0
task_24_act
Token_24 := True;
0 >= t_task_24
task_24_act
Token_24 := True;
00
_2
34 > t_task_24
& t_pipeline_3 = 30
DEADLINE_MISSED_2
34 > t_task_24
& t_pipeline_2 = 150
DEADLINE_MISSED_2
34 > t_task_24
& t_pipeline_1 = 20
DEADLINE_MISSED_2
15 > t_task_23
task_31_act
t_task_31 := 0;
t_task_31 = 5
task_31_done
15 > t_task_23
task_31_act
t_task_31 := 0;
t_task_31 = 5
task_31_done
t_task_31
task_31_d
proc_3_111
5 >= t_task_31
stop t_task_23,t_task_41
t_task_41 = 80
task_41_done
5 > t_task_31
task_41_act
t_task_41 := 0;
proc_3_110
5 >= t_task_31
stop t_task_23,t_task_41
t_task_23 = 15
task_23_done
5 > t_task_31
task_23_act
t_task_23 := 0;
5 > t_task_31
task_23_act
t_task_23 := 0;
t_task_23 = 15
task_23_done
proc_3_010
5 >= t_task_31
stop t_task_23,t_task_41
5 > t_task_31
task_41_act
t_task_41 := 0;
t_task_41 = 80
task_41_done
proc_3_011
5 >= t_task_31
stop t_task_23,t_task_41
80 > t_task_41
& t_pipeline_2 = 150
DEADLINE_MISSED_3
80 > t_task_41
& t_pipeline_1 = 20
DEADLINE_MISSED_3
80 > t_task_41
& t_pipeline_2 = 150
DEADLINE_MISSED_3
80 > t_task_41
& t_pipeline_1 = 20
DEADLINE_MISSED_3
80 > t_task_41
& t_pipeline_4 = 200
DEADLINE_MISSED_3
80 > t_task_41
& t_pipeline_3 = 30
DEADLINE_MISSED_3
80 > t_task_41
& t_pipeline_4 = 200
DEADLINE_MISSED_3
80 > t_task_41
& t_pipeline_4 = 200
DEADLINE_MISSED_3
80 > t_task_41
& t_pipeline_1 = 20
DEADLINE_MISSED_3
80 > t_task_41
& t_pipeline_4 = 200
DEADLINE_MISSED_3
80 > t_task_41
& t_pipeline_3 = 30
DEADLINE_MISSED_3
80 > t_task_41
& t_pipeline_2 = 150
DEADLINE_MISSED_3
80 > t_task_41
& t_pipeline_3 = 30
DEADLINE_MISSED_3
80 > t_task_41
& t_pipeline_2 = 150
DEADLINE_MISSED_3
D
DEADLINE_M


proc_3
proc_3_000
True
stop t_task_23,t_task_31,t_task_41
task_23_act
t_task_23 := 0;
t_task_23 = 15
task_23_done
proc_3_100
15 >= t_task_23
stop t_task_31,t_task_41
15 > t_task_23
task_41_act
t_task_41 := 0;
t_task_41 = 80
task_41_done
proc_3_101
15 >= t_task_23
stop t_task_31,t_task_41
= 5
one
task_31_act
t_task_31 := 0;
task_41_act
t_task_41 := 0;
t_task_41 = 80
task_41_done
t_task_23 = 15
task_23_done
80 > t_task_41
task_23_act
t_task_23 := 0;
80 > t_task_41
& t_pipeline_4 = 200
DEADLINE_MISSED_3
80 > t_task_41
& t_pipeline_3 = 30
DEADLINE_MISSED_3
80 > t_task_41
& t_pipeline_2 = 150
DEADLINE_MISSED_3
80 > t_task_41
& t_pipeline_1 = 20
DEADLINE_MISSED_3
80 > t_task_41
& t_pipeline_4 = 200
DEADLINE_MISSED_3
80 > t_task_41
& t_pipeline_3 = 30
DEADLINE_MISSED_3
80 > t_task_41
& t_pipeline_2 = 150
DEADLINE_MISSED_3
80 > t_task_41
& t_pipeline_1 = 20
DEADLINE_MISSED_3
80 > t_task_41
& t_pipeline_3 = 30
DEADLINE_MISSED_3
80 > t_task_41
& t_pipeline_1 = 20
DEADLINE_MISSED_3
t_task_31 = 5
task_31_done
80 > t_task_41
task_31_act
t_task_31 := 0;
proc_3_001
80 >= t_task_41
stop t_task_23,t_task_31
80 > t_task_41
& t_pipeline_4 = 200
DEADLINE_MISSED_3
80 > t_task_41
& t_pipeline_3 = 30
DEADLINE_MISSED_3
80 > t_task_41
& t_pipeline_2 = 150
DEADLINE_MISSED_3
80 > t_task_41
& t_pipeline_1 = 20
DEADLINE_MISSED_3
ISS
True