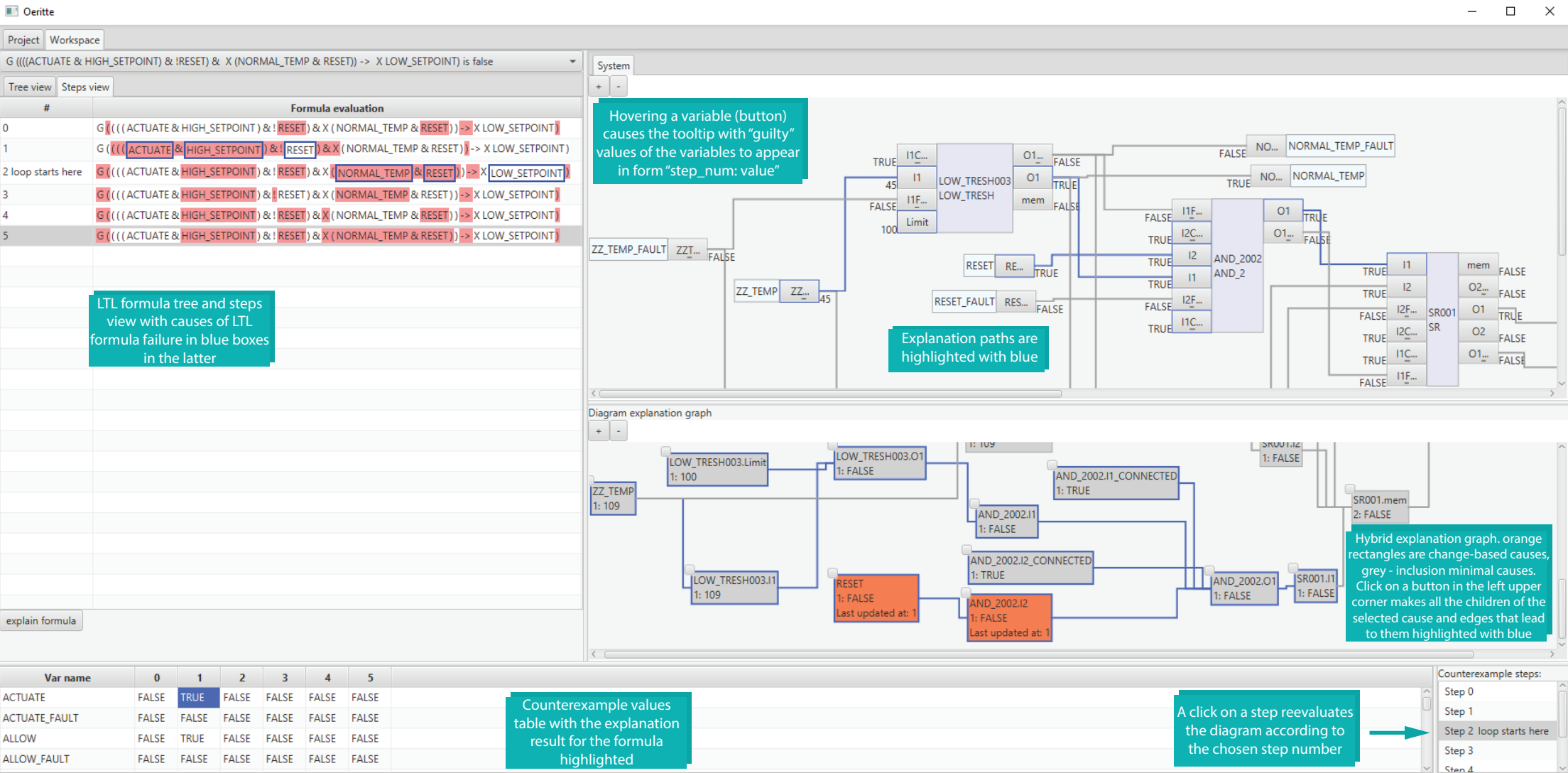
Oeritte
Project
Workspace
G ((((ACTUATE & HIGH_SETPOINT) & !RESET) & X (NORMAL_TEMP & RESET)) -> X LOW_SETPOINT) is false
Tree view
Steps view
| Formula evaluation
0 | G ((((ACTUATE & HIGH_SETPOINT) & ! RESET) & X (NORMAL_TEMP & RESET)) -> X LOW_SETPOINT)
1 | G ((((ACTUATE & HIGH_SETPOINT) & ! RESET) & X (NORMAL_TEMP & RESET)) -> X LOW_SETPOINT)
2 loop starts here | G ((((ACTUATE & HIGH_SETPOINT) & ! RESET) & X (NORMAL_TEMP & RESET)) -> X LOW_SETPOINT)
3 | G ((((ACTUATE & HIGH_SETPOINT) & ! RESET) & X (NORMAL_TEMP & RESET)) -> X LOW_SETPOINT)
4 | G ((((ACTUATE & HIGH_SETPOINT) & ! RESET) & X (NORMAL_TEMP & RESET)) -> X LOW_SETPOINT)
5 | G ((((ACTUATE & HIGH_SETPOINT) & ! RESET) & X (NORMAL_TEMP & RESET)) -> X LOW_SETPOINT)
LTL formula tree and steps view with causes of LTL formula failure in blue boxes in the latter
explain formula
System
Hovering a variable (button) causes the tooltip with "guilty" values of the variables to appear in form "step_num: value"
ZZ_TEMP_FAULT
ZZT...
FALSE
ZZ_TEMP
ZZ...
45
TRUE
45
FALSE
100
I1C...
I1
I1F...
Limit
LOW_TRESH003
LOW_TRESH
O1...
O1
mem
RESET
RE...
TRUE
RESET_FAULT
RES...
FALSE
Explanation paths are highlighted with blue
FALSE
TRUE
FALSE
TRUE
FALSE
TRUE
FALSE
TRUE
FALSE
TRUE
NO...
NORMAL_TEMP_FAULT
NO...
NORMAL_TEMP
I1F...
I2C...
I2
I1
I2F...
I1C...
AND_2002
AND_2
O1
O1...
TRUE
FALSE
TRUE
TRUE
FALSE
TRUE
TRUE
FALSE
TRUE
FALSE
I1
I2
I2F...
I2C...
I1C...
I1F...
SR001
SR
mem
O2...
O1
O2
O1...
FALSE
FALSE
TRUE
FALSE
FALSE
Diagram explanation graph
LOW_TRESH003.Limit
1: 100
LOW_TRESH003.O1
1: FALSE
ZZ_TEMP
1: 109
AND_2002.I1_CONNECTED
1: TRUE
AND_2002.I1
1: FALSE
SR001.mem
2: FALSE
LOW_TRESH003.I1
1: 109
RESET
1: FALSE
Last updated at: 1
AND_2002.I2_CONNECTED
1: TRUE
AND_2002.I2
1: FALSE
Last updated at: 1
AND_2002.O1
1: FALSE
SR001.I1
1: FALSE
Hybrid explanation graph. orange rectangles are change-based causes, grey - inclusion minimal causes. Click on a button in the left upper corner makes all the children of the selected cause and edges that lead to them highlighted with blue
Var name | 0 | 1 | 2 | 3 | 4 | 5
ACTUATE | FALSE | TRUE | FALSE | FALSE | FALSE | FALSE
ACTUATE_FAULT | FALSE | FALSE | FALSE | FALSE | FALSE | FALSE
ALLOW | FALSE | TRUE | FALSE | FALSE | FALSE | FALSE
ALLOW_FAULT | FALSE | FALSE | FALSE | FALSE | FALSE | FALSE
Counterexample values table with the explanation result for the formula highlighted
Counterexample steps:
Step 0
Step 1
Step 2 loop starts here
Step 3
Step 4
A click on a step reevaluates the diagram according to the chosen step number