Bound Flasher Verification Checklist

Version 01, Apr.2, 2024

<Revision history>

Date	Content of revision	Version	Creator
Mar. 26, 2024	New creation	01	Group 5
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<Reference document>

No.	Title name			
1	design spec pdf	0.00		
l l	TUESIUT SDEG.DUT	1 0.00		

BOUND FLASHER VALIDATION CHECK

Created by: Group 5 - L02

Target	BOUND FLASHER							
1st category	2nd category		3rd category	Judgment	TM Name	Judged by	Confirmation Method	Remark
1 Combination block check	No. (Test case name) 1 next_state_generator_tb		(Test case explanation) the next states generated when the LED state reaches the ion value, and when kickback occurs.	Correctness	next_state_generator_tb.sv		Simulate and compare the correctness of output transactions based on the input stimuli generated by the testbench .	
	2 next_counter_generator_tb	2 Check state	the next counter in count-up and count-down and counter-load	Correctness	next_counter_generator_tb.sv	Nguyễn Hữu Thông	Simulate and compare the correctness of output transactions based on the input stimuli generated by the testbench .	
	ck 3 kickback_match_generator_tb	3 Check	all kickback case	Correctness	kickback_match_generator_tb.v	Nguyễn Hữu Thông	Simulate and compare the correctness of output transactions based on the input stimuli generated by the testbench .	
	4 decoder_under_tb	4 Check 1-bit.	input values and decode those values into corresponding sets of	Correctness	decoder_under_tb.v	Nguyễn Hữu Thông	Simulate and compare the correctness of output transactions based on the input stimuli generated by the testbench .	
Sequential block check	k 5 bound_flasher_fsm_tb	5 Check	loaded value of FFs in the reset and normal case	Correctness	bound_flasher_fsm_tb.v	Võ Thị Hoàng Yến	Simulate and compare the correctness of output transactions based on the input stimuli generated by the testbench .	
	6 counter_tb	6 Check	loaded value of FFs in the reset and normal case	Correctness	counter_tb.v	Võ Thị Hoàng Yến	Simulate and compare the correctness of output transactions based on the input stimuli generated by the testbench .	
3 System check	system_verification_0_tb		the reset signal in the system. The reset signal in the system is ynchronous signal and active low	Correctness	system_verification_0_tb.v	Trần Anh Tài	Simulate and compare the correctness of output transactions based on the input stimuli generated by the testbench .	
	system_verification_1_tb 8	Check 8	all states of 'flick" signal equal to 0 (except INIT_STATE)	Correctness	system_verification_1_tb.v	Trần Anh Tài	Simulate and compare the correctness of output transactions based on the input stimuli generated by the testbench .	Fixed state transition bug (wrong behavior). In the ONLED5_10, ONLED0_5 state, the system only turns on LED[9] in ONLED5_10 and LED[4] in ONLED0_5, and then transitions to next state.
	system_verification_2_tb 9	Check 9	kickback case in OFFLED15_5 state	Correctness	system_verification_2_tb.v	Trần Anh Tài	Simulate and compare the correctness of output transactions based on the input stimuli generated by the testbench .	
	system_verification_3_tb	10 Check	kickback case in OFFLED10_0 state (at kickback LED[5])	Correctness	system_verification_3_tb.v	Trần Anh Tài	Simulate and compare the correctness of output transactions based on the input stimuli generated by the testbench .	
	system_verification_4_tb	11 Check	kickback case in OFFLED10_0 state (at kickback LED[0])	Correctness	system_verification_4_tb.v	Trần Anh Tài	Simulate and compare the correctness of output transactions based on the input stimuli generated by the testbench .	