

IMC 64b | harrison900531 [Analysis Center]@n01-zeus.olympus.ece.tamu.edu

IMC

Views: Context, Source Map, Block, Expression, Toggle, Statement, Cover Group, Assertion, Set Focus, Unset Focus, Hide non-Focused, Save Focus Load Focus, Freeze Exclusions, Exclude Local, Exclude Covered, Exclude Smart, Read, Reports, Help

Analyze

Verification Hierarchy

Ex ID	Name	Overall Average Grade	Overall Covered	Assertion Status Grade
(no filter)	(no filter)	(no filter)	(no filter)	(no filter)
Verification Metrics		81.32%	618 / 884 (69.9%)	33.33%
Types		96.67%	186 / 190 (97.8%)	83.33%
Instances		65.98%	432 / 694 (62.2%)	20.83%
uwm_pkg		n/a	0 / 0 (n/a)	n/a
htax_pkg		n/a	0 / 0 (n/a)	n/a
top		65.98%	432 / 694 (62.2%)	20.83%
inst_htax_tx_intf[3]		1.28%	2 / 88 (2.27%)	0%
inst_htax_tx_intf[2]		1.28%	2 / 88 (2.27%)	0%
inst_htax_tx_intf[1]		100%	88 / 88 (100%)	100%
inst_htax_tx_intf[0]		1.28%	2 / 88 (2.27%)	0%
inst_htax_rx_intf[3]		100%	80 / 80 (100%)	0%
inst_htax_rx_intf[2]		100%	80 / 80 (100%)	0%
inst_htax_rx_intf[1]		100%	80 / 80 (100%)	0%
inst_htax_rx_intf[0]		100%	80 / 80 (100%)	0%

Relative Elements

Recursive

Ex ID	Name	Overall Average Grade
(no filter)	(no filter)	(no filter)
assert_valid_packet_transfer		100%
assert_no_sot_without_eot		100%
assert_tx_release_gnt_timing		100%
assert_tx_eot_single_cycle		100%
assert_no_eot_without_vc_gnt		100%
assert_no_sot_without_vc_gnt		100%
assert_vc_gnt_subset_of_vc_req		100%
assert_no_vc_req_without_output_req		100%
assert_no_output_req_without_vc_req		100%

Showing 10 items

Details inst_htax_tx_intf[1]

Metrics

Ex ID	Name	Overall Average Grade
(no filter)	(no filter)	(no filter)
Overall		100%
Code		100%
Block		n/a
Statement		n/a
Expression		n/a
Toggle		100%
ECM		

Showing 11 items

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Refinement

Instance (default): top inst_htax_tx_intf[1]

Overall Covered Grade: 100% Functional Covered Grade: 100% CoverGroup Covered Grade: n/a Assertion Covered Grade: 100%

Cover Groups

Assertions

Ex ID	Name	Overall Average Grade	Assertion Status Grade	Enclosing Entity
(no filter)	(no filter)	(no filter)	(no filter)	(no filter)
assert_valid_packet_transfer		100%	100%	top.inst_htax_tx_intf[1]
assert_no_sot_without_eot		100%	100%	top.inst_htax_tx_intf[1]
assert_tx_release_gnt_timing		100%	100%	top.inst_htax_tx_intf[1]
assert_tx_eot_single_cycle		100%	100%	top.inst_htax_tx_intf[1]
assert_no_eot_without_vc_gnt		100%	100%	top.inst_htax_tx_intf[1]
assert_no_sot_without_vc_gnt		100%	100%	top.inst_htax_tx_intf[1]
assert_vc_gnt_subset_of_vc_req		100%	100%	top.inst_htax_tx_intf[1]
assert_no_vc_req_without_output_req		100%	100%	top.inst_htax_tx_intf[1]
assert_no_output_req_without_vc_req		100%	100%	top.inst_htax_tx_intf[1]
assert_tx_output_req_one_hot		100%	100%	top.inst_htax_tx_intf[1]

Showing 10 items

Sources

Overall Average Grade

htax_tx_interface.sv

```

145 //
146 property valid_packet_transfer;
147 @posedge clk disable iff (rst_n)
148 tx_output_req -> ##[1:5] tx_vc_gnt ##[1:5] tx_sot ##[1:5] tx_release_gnt ##[1:5] tx_eot;
149 endproperty
150
151 100% assert_valid_packet_transfer: assert property(valid_packet_transfer)
152 else
153 $error("HTAX_TX_INF ERROR : Invalid packet transfer sequence");
154
155
156 endinterface : htax_tx_interface

```

Attributes

assert_valid_packet_transfer

Col #	Name	Value
(no filter)	(no filter)	(no filter)
	Actual Proof Bound	n/a
	Assertion Average Grade	100%
	Assertion Combined Average Grade	100%
	Assertion Combined Covered	1.0
	Assertion Combined Covered Grade	100%
	Assertion Combined Failed	0.0
	Assertion Combined Other	0.0
	Assertion Combined Passed	1.0

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Refinement

Instance (default): top inst_htax_rx_intf[1]

Overall Covered Grade: 100% Functional Covered Grade: 100% CoverGroup Covered Grade: n/a Assertion Covered Grade: 100%

Cover Groups

Assertions

Ex ID	Name	Overall Average Grade	Assertion Status Grade	Enclosing Entity
(no filter)	(no filter)	(no filter)	(no filter)	(no filter)
assert_rx_vc_gnt_deassert		100%	0%	top.inst_htax_rx_intf[1]
assert_rx_vc_gnt_assert		100%	0%	top.inst_htax_rx_intf[1]

Showing 2 items

Sources

Overall Average Grade

htax_rx_interface.sv

```

51 property rx_vc_gnt_deassert;
52 @posedge clk
53 rx_vc_gnt -> !rx_vc_req;
54 endproperty
55
56 100% assert_rx_vc_gnt_deassert: assert property(rx_vc_gnt_deassert)
57 else
58 $error("HTAX_RX_INF ERROR: rx_vc_gnt asserted when there is no rx_vc_req.");
59 //Add at least one assertion below
60
61 endinterface : htax_rx_interface

```

Attributes

assert_rx_vc_gnt_deassert

Col #	Name	Value
(no filter)	(no filter)	(no filter)
	Actual Proof Bound	n/a
	Assertion Average Grade	100%
	Assertion Combined Average Grade	100%
	Assertion Combined Covered	1.0
	Assertion Combined Covered Grade	100%
	Assertion Combined Failed	1.0
	Assertion Combined Other	0.0
	Assertion Combined Passed	0.0

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