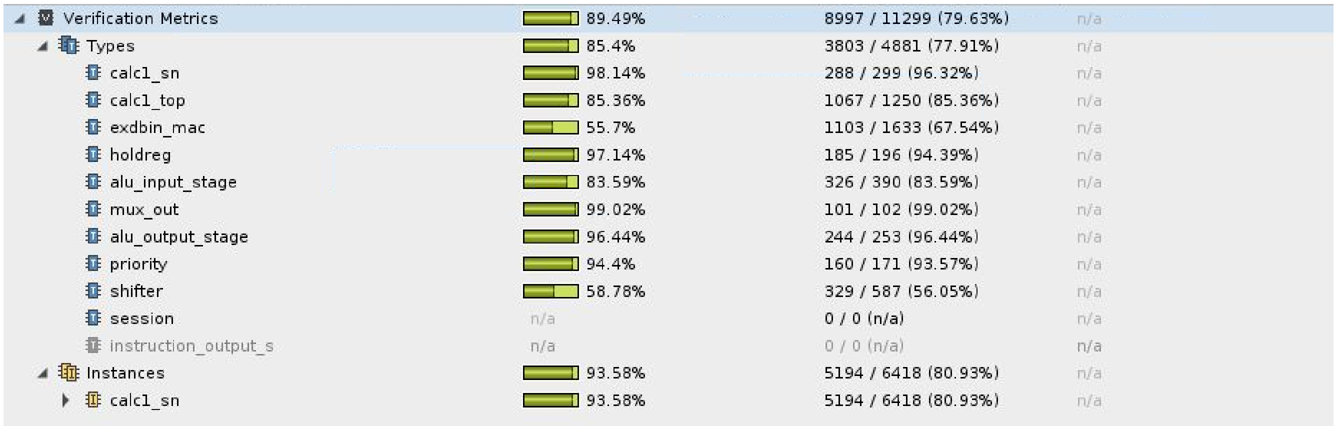
Coverage Report

Code Coverage

The testbench has 89% coverage of the calc1 code:



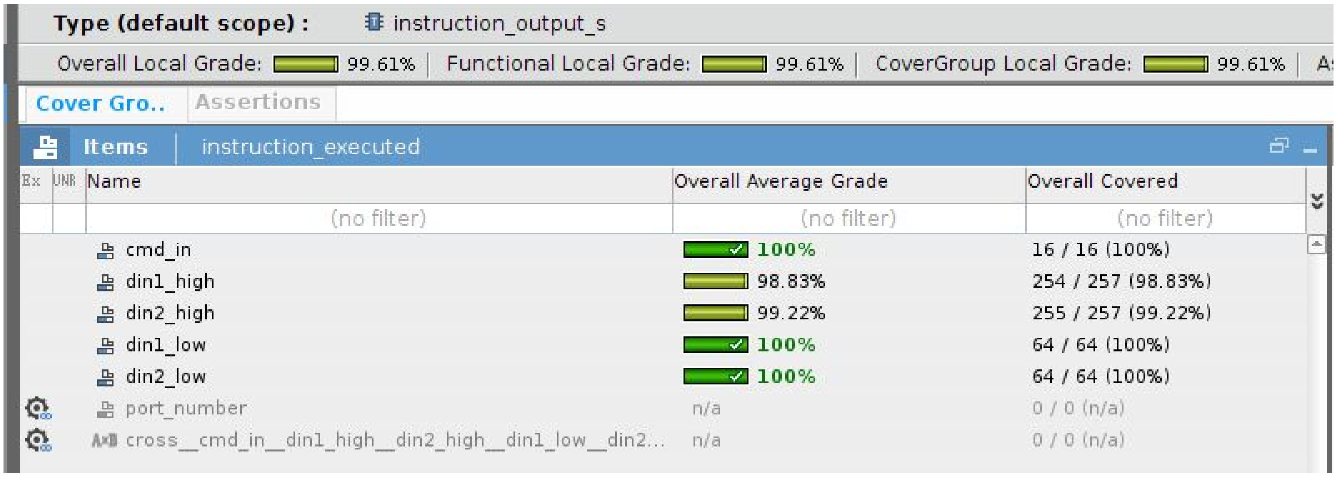
Verification Metrics	89.49%	8997 / 11299 (79.63%)	n/a
Types	85.4%	3803 / 4881 (77.91%)	n/a
calc1_sn	98.14%	288 / 299 (96.32%)	n/a
calc1_top	85.36%	1067 / 1250 (85.36%)	n/a
exdbin_mac	55.7%	1103 / 1633 (67.54%)	n/a
holdreg	97.14%	185 / 196 (94.39%)	n/a
alu_input_stage	83.59%	326 / 390 (83.59%)	n/a
mux_out	99.02%	101 / 102 (99.02%)	n/a
alu_output_stage	96.44%	244 / 253 (96.44%)	n/a
priority	94.4%	160 / 171 (93.57%)	n/a
shifter	58.78%	329 / 587 (56.05%)	n/a
session	n/a	0 / 0 (n/a)	n/a
instruction_output_s	n/a	0 / 0 (n/a)	n/a
Instances	93.58%	5194 / 6418 (80.93%)	n/a
calc1_sn	93.58%	5194 / 6418 (80.93%)	n/a

Functional Coverage

The functional coverage is defined in `coverage.e` as follows:

```
cover instruction_executed is {
    item cmd_in: uint (bits:4) = input.cmd_in;
    item din1_high: uint (bits:32) = input.din1 using ranges = {range([0..MAX_UINT], "", 0xFFFFFF, 1)};
    item din2_high: uint (bits:32) = input.din2 using ranges = {range([0..MAX_UINT], "", 0xFFFFFF, 1)};
    item din1_low: uint (bits:8) = input.din1 & 0xFF using ranges = {range([0..255], "", 4, 1)};
    item din2_low: uint (bits:8) = input.din2 & 0xFF using ranges = {range([0..255], "", 4, 1)};
    item port_number;
    cross cmd_in, din1_high, din2_high, din1_low, din2_low, port_number;
};
```

And has results of 99% coverage:



Type (default scope) : instruction_output_s

Overall Local Grade: 99.61% | Functional Local Grade: 99.61% | CoverGroup Local Grade: 99.61% | A

Ex	UNR	Name	Overall Average Grade	Overall Covered
		(no filter)	(no filter)	(no filter)
		cmd_in	✓ 100%	16 / 16 (100%)
		din1_high	98.83%	254 / 257 (98.83%)
		din2_high	99.22%	255 / 257 (99.22%)
		din1_low	✓ 100%	64 / 64 (100%)
		din2_low	✓ 100%	64 / 64 (100%)
		port_number	n/a	0 / 0 (n/a)
		cross__cmd_in__din1_high__din2_high__din1_low__din2...	n/a	0 / 0 (n/a)