



Security Closure of Physical Layouts

ISPD 2022 Contest

Results

Last updated: Wed Mar 30 10:48:07 EDT 2022

Final Results

Combined, weighted ranks

- $r(\text{OVERALL}) + 0.01 * r(\text{des})$
- 3rd digit represents des; e.g., team N for AES_2 had rank 6 for overall scores and ranks 6 for design quality

Team/Benchmark	---	UT_pda	???	???	TCLAB	???	DASYS	???
AES_1	8.07	6.06	2.51	2.52	7.05	2.54	5.08	2.53
AES_2	8.08	6.06	2.51	2.52	7.05	2.54	5.07	2.53
AES_3	8.08	5.56	2.51	2.52	7.05	2.54	5.57	2.53
Camellia	8.07	5.56	2.51	2.53	7.04	2.52	5.58	2.55
CAST	8.08	5.56	2.52	2.51	7.04	2.53	5.57	2.55
MISTY	8.08	5.56	2.53	2.51	7.04	2.52	5.57	2.55
openMSP430_1	8.07	3.06	3.01	3.02	7.04	3.03	6.08	3.05
PRESENT	8.07	5.06	2.52	2.53	7.05	2.54	6.08	2.51
SEED	8.08	5.56	2.51	2.54	7.02	2.53	5.57	2.55
TDEA	8.06	6.08	2.51	2.53	7.04	2.52	5.07	2.55
openMSP430_2	8.08	5.56	2.51	2.53	7.02	2.54	5.57	2.55
SPARX	8.07	3.06	3.01	3.03	7.04	3.02	6.08	3.05
Average	8.0742	5.2283	2.5967	2.6075	7.0400	2.6142	5.5742	2.6250
Final ranking	7	4	1	2	6	3	5	3

Honorable Mentions:

- CUEDA for sharing a fast evaluation tool for frontside probing, fault injection for the backend
 - TalTech for important feedback for the backend's design flow settings



2nd place:
NTUspplace



1st place:
XDSecurity



3rd place:
CUEDA



3rd place:
TalTech

More details can be found in the [ISPD22 contest slides](#).

Final Round

The intermediate, anonymized, best scores (OVERALL) are as follows. The anonymous IDs are the same as for the alpha round. “-----” denotes no valid submission yet.

Team/Benchmark	Baseline	J	N	O	E	L	A	Q	K
AES_1	1.000000	0.764884	0.025684	0.000000	0.000000	0.271596	0.000000	0.000001	0.000000
AES_2	1.000000	1.687749	0.054186	0.000000	0.000000	0.324694	0.000000	0.000001	0.000000
AES_3	1.000000	1.332768	0.000001	0.000000	0.000000	0.295023	0.000000	0.000001	0.000000
Camellia	0.750000	0.676397	0.000001	0.000000	0.000000	0.281597	0.000000	0.000001	0.000000
CAST	1.000000	1.687787	0.000001	0.000000	0.000000	0.300095	0.000000	0.000001	0.000000
MISTY	0.750000	3.178107	0.000001	0.000000	0.000000	0.254030	0.000000	0.000001	0.000000
openMSP430_1	0.750000	0.841673	0.000000	0.000000	0.000000	0.344685	0.000000	0.000001	0.000000
PRESENT	0.750000	0.629633	0.000001	0.000000	0.000000	0.319908	0.000000	0.000498	0.000000
SEED	1.000000	2.203857	0.000001	0.000000	0.000000	0.207375	0.000000	0.000001	0.000000
TDEA	0.750000	0.596819	0.003351	0.000000	0.000000	0.246417	0.000000	0.002950	0.000000

This section will also publish the final scores and team rankings after the official announcement at [ISPD](#). Tentative date for publication of results on this page is March 31st 2022, right after ISPD commenced.

Alpha Round

The final, anonymized, best scores (OVERALL) are as follows. “*” denotes the base-line scores, and “-----” denotes no valid submission yet.

All the teams that are having some score listed for all benchmarks have passed the alpha round. Congratulations!

	AES_1	AES_2	AES_3	Camellia	CAST	MISTY	PRESENT
*	1.000000	1.000000	1.000000	0.750000	1.000000	0.750000	0.750000
A	0.156474	0.942725	0.182120	0.180730	0.103810	0.067178	0.123786
B	-----	-----	-----	-----	-----	-----	-----
C	-----	-----	-----	-----	-----	-----	-----
D	-----	-----	-----	-----	-----	-----	-----
E	0.236819	0.222501	0.069017	0.070125	0.032580	0.033190	0.052571
F	-----	-----	-----	-----	-----	-----	-----
G	-----	-----	-----	-----	-----	-----	-----
H	-----	-----	-----	-----	-----	-----	-----
I	-----	-----	-----	-----	-----	-----	-----
J	0.235452	0.915177	2.606206	0.606139	0.365939	0.467680	3.714756
K	0.020040	0.085066	0.175733	0.027968	0.051747	0.046060	0.018165
L	0.632226	0.731865	0.587291	0.747774	0.735023	0.747292	0.734942
M	-----	-----	-----	-----	-----	-----	-----
N	0.051073	0.308361	0.801496	0.155475	0.085726	0.075256	0.064884
O	0.408307	0.532993	0.501970	0.229697	0.320193	0.143594	0.208114
P	-----	-----	-----	-----	-----	-----	-----
Q	0.846710	1.025901	1.018366	0.757782	1.007793	0.756043	0.753972

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