

Supplementary Material

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Table 1. The performance of the three analyzers on the 38 defect-exposing programs. Column “Original Analyzer” indicates in which analyzer does this defect found. “Y” and “N” represent whether or not this defect-exposing program reveals a problem in the analyzer. “-” means that it is the original defect-exposing program found in that analyzer.

#	Oracle	Original Analyzer	CSA	GSA	Pinpoint
1	Dynamic	GSA	N	-	N
2	Static	GSA	N	-	N
3	Static	GSA	N	-	N
4	Static	CSA	-	N	N
5	Static	GSA	N	-	N
6	Dynamic	Pinpoint	N	N	-
7	Static	GSA	Y	-	N
8	Static	GSA	N	-	N
9	Static	CSA	-	N	Y
10	Dynamic	CSA	-	N	N
11	Dynamic	CSA	-	N	N
12	Dynamic	CSA	-	N	N
13	Dynamic	GSA	N	-	N
14	Dynamic	GSA	N	-	Y
15	Dynamic	GSA	N	-	N
16	Dynamic	GSA	N	-	Y
17	Static	GSA	N	-	N
18	Static	GSA	N	-	N
19	Static	GSA	N	-	N
20	Dynamic	Pinpoint	Y	N	-
21	Dynamic	Pinpoint	N	N	-
22	Dynamic	GSA	N	-	N
23	Static	CSA	-	N	N
24	Static	CSA	-	N	Y
25	Static	CSA	-	N	N
26	Dynamic	GSA	N	-	N
27	Dynamic	CSA	-	N	N
28	Dynamic	GSA	N	-	N
29	Dynamic	GSA	N	-	N
30	Dynamic	GSA	-	-	N
31	Static	GSA	Y	-	N
32	Static	CSA	-	Y	N
33	Dynamic	GSA	N	-	N
34	Static	GSA	N	-	N
35	Dynamic	CSA	-	Y	N
36	Dynamic	GSA	Y	-	N
37	Static	GSA	N	-	N
38	Static	CSA	-	N	N