## **CK Metrics**

Metrics	СВО	DIT	RFC	WMC	NF	NSF
TaintBench						
min-sum	11	4	43	14	3	0
max-sum	19597	5533	32661	46251	10644	3354
geomean-sum	653.77	223.8	1528.58	1860.69	359.13	145.89
min-avg	2.53	1.25	7.28	3.57	0.75	0
max-avg	7.55	2.45	30	27.64	5.94	2.45
geomean-avg	4.52	1.55	10.56	12.85	2.48	0.92
DroidBench						
min-sum	2	2	4	1	0	0
max-sum	29	17	48	32	27	15
geomean-sum	6.77	5.26	11.01	4.07	5.12	5.99
min-avg	0.2	1.08	0.4	0.09	0	0
max-avg	10	2.67	25	16	11.5	3.25
geomean-avg	2.03	1.57	3.3	1.22	1.09	0.85

**CBO:** the number of dependencies a class has.

**DIT:** the depth of the class in the inheritance tree.

**RFC:** the number of unique method invocations in a class.

**WMC:** the number of declared methods per class.

NF: the total number of fields in a class.

**NSF:** the total number of static fields in a class.

**min-sum:** minimum for the sum of all classes of each benchmark app in the suite. **max-sum:** maximum for the sum of all classes of each benchmark app in the suite.

geomean-sum: geometric mean for the sum of all classes of each benchmark app in the suite.

**min-avg:** minimum for the average of all classes of each benchmark app in the suite. **max-avg:** maximum for the average of all classes of each benchmark app in the suite.

**geomean-avg:** geometric mean for the average of all classes of each benchmark app in the suite.

## **Usages of Sources and Sinks**

		# Usage		# Usage		
Metrics	# Sources	Sources	# Sinks	Sinks		
TaintBench						
min	4	9	6	13		
max	514	4284	369	3486		
avg	96	458.2	63.1	364.5		
geomean	49	149	38.4	133.2		
DroidBench						
min	0	0	1	1		
max	8	27	13	22		
avg	2.4	2.9	3.1	4.1		
geomean	2.2	2.4	2.8	3.3		

# Sources/Sinks: Number of different source/sink APIs used in a benchmark app.

# Usage Sources/Sinks: Number of different code locations where source/sink APIs are used in a benchmark app.

min: minimum of all apps in the suite.max: maximum of all apps in the suite.

avg: arithmetic mean of all apps in the suite.

**geomean:** geometric mean of all apps in the suite.

## **Call-Graph Complexity**

Metrics	CG Size	Max.CCL	LC Size		
TaintBench					
min	112	1	0		
max	83981	16	31		
avg	8922.08	5.84	2.21		
geomean	1895.68	4.79	-		
DroidBench					
min	11	1	0		
max	144	4	0		
avg	29.92	1.53	0		
geomean	27.28	1.4	-		

**CG Size:** Number of edges in the call graph.

**Max. CCL:** Number of edges in the longest acyclic call chain. **LC Size:** Number of edges in the longest cycle in the call graph.

min: minimum of all apps in the suite.max: maximum of all apps in the suite.

avg: arithmetic mean of all apps in the suite.

**geomean:** geometric mean of all apps in the suite.

## **Common Metrics**

Metrics	# Classes	# Methods	LOC		
TaintBench					
sum	22024	150450	1535071		
avg	1120.77	7651.87	78184.03		
DroidBench					
sum	944	657	13191		
avg	10.36	7.19	144.56		

# Classes: number of classses
# Methods: number of methods
LOC: lines of decompiled source code

sum: all apps in the suite

avg: average of the apps in the suite