Table 1: Basic information for open-source subjects collected from GitHub

ID	Subjects	SLOC	TLOC	#Test Cases	#Mutants
$S_1$	DiskLruCache	780	1,030	61	152
$\mathcal{S}_2$	gson-fire	895	726	36	520
$\mathcal{S}_3$	gson-fire-v2	1,178	952	47	202
$\mathcal{S}_4$	jumblr	1,489	1,243	103	167
${\cal S}_5$	java-apns	1,503	1,724	87	412
$\mathcal{S}_6$	jasmine-maven-plugin	1,671	1,931	102	561
$S_7$	java-uuid-generator	1,790	2,388	45	346
$\mathcal{S}_8$	gdx-artemis-master	1,851	1,492	35	961
$\mathcal{S}_9$	jopt-simple	1,924	5,903	727	1,677
$\mathcal{S}_{10}$	protoparser	2,153	3,227	171	864
$\mathcal{S}_{11}$	jackson-datatype-guava	2,217	1,035	73	845
$\mathcal{S}_{12}$	jackson-datatype-guava-v2	2,366	1,327	80	320
$\mathcal{S}_{13}$	JActor	2,542	4,418	65	56
$\mathcal{S}_{14}$	spring-retry	2,765	3,419	185	351
$\mathcal{S}_{15}$	scribe-java	2,808	2,536	99	563
$S_{16}$	metrics-core	2,835	2,194	150	1,656
$\mathcal{S}_{17}$	javapoet	2,986	4,399	332	973
$\mathcal{S}_{18}$	low-gc-membuffers	3,184	9,782	51	780
$\mathcal{S}_{19}$	lambdaj-master	3,634	4,914	265	3,399
$\mathcal{S}_{20}$	LastCalc-0.1	4,522	581	32 141	2,499
$\mathcal{S}_{21}$	stream-lib webbit	4,835	3,806		3,811
$\mathcal{S}_{22}$	commons-pool	4,914 5,206	8,463 8,232	131 272	349 633
$S_{23}$	redline-smalltalk-master		480	43	3,450
$\mathcal{S}_{24}$	la4j	5,648 7,086	4,050	625	5,023
$\mathcal{S}_{25} \ \mathcal{S}_{26}$	redline-smalltalk	7,030	2,414	240	833
$\mathcal{S}_{27}$	nv-websocket-client	7,212	657	73	277
$\mathcal{S}_{28}$	joss	8,078	6,035	531	1,289
$\mathcal{S}_{29}$	raml-java-parser-master	8,696	3,005	192	4,506
$S_{30}$	raml-java-parser	8,788	5,061	197	1,288
$S_{31}$	la4j-v2	9,272	4,035	799	3,141
$S_{32}$	commons-io	9,980	19,189	1,081	7,773
$S_{33}$	streamex	10,427	7,906	450	3,958
$S_{34}$	jsoup	10,507	12,037	666	3,157
$S_{35}$	commons-dbcp	11,592	8,752	560	2,601
$S_{36}$	rome-1.5.0	11,647	2,705	475	4,929
$\mathcal{S}_{37}$	assertj-core	13,361	53,059	2,470	4,571
$\mathcal{S}_{38}$	vraptor-archive	16,910	16,213	1,130	7,245
$\mathcal{S}_{39}$	mapdb-mapdb-1.0.9	17,589	35,873	1,776	876
$\mathcal{S}_{40}$	RoaringBitmap	17,807	21,494	1,148	21,319
$S_{41}$	blueflood	19,517	15,774	961	1,854
$\mathcal{S}_{42}$	lanterna	20,682	7,724	34	344
$\mathcal{S}_{43}$	jackson-core	21,320	10,924	376	6,215
$\mathcal{S}_{44}$	jsprit	23,073	18,373	1,250	12,350
$\mathcal{S}_{45}$	hivemall	28,569	3,975	150	6,557
$S_{46}$	asterisk-java	30,495	4,263	217	3,226
$\mathcal{S}_{47}$	asterisk-java-v2	31,074	4,258	217	921
$\mathcal{S}_{48}$	restcountries	31,324	468	40	113
$\mathcal{S}_{49}$	chukwa	32,654	8,051	131	569
$\mathcal{S}_{50}$	ews-java-api	45,313	1,328	90	1,782
$\mathcal{S}_{51}$	languagetool	47,589	20,778	719	26,662
$\mathcal{S}_{52}$	OpenTripPlanner-otp-0.20.0	64,718	14,207	379	7,325
$\mathcal{S}_{53}$	hbase-1.2.2	66,630	17,385	434	1,781
$\mathcal{S}_{54}$	commons-math	86,748	90,798	5,082	84,476
$S_{55}$   camel-core   120,248   134,036   5,623   13,005					
Total   912,045   633,085   31,454   262,295					