CUT	Randoop						T3						Evosuite						jTexPert					
	gen_t	cov_i	cov_b	cov_m	U	B	gen_t	cov_i	cov_b	cov_m	U	B	gen_t	cov_i	cov_b	cov_m	U	B	gen_t	cov_i	cov_b	cov_m	U	B
BCEL-10	11.5	0	0	0	0	0	16.2	43.6	38.8	35.5	0	0	18.7	6.7	1.3	1.3	0	0	16.2	54.9	48.6	38.6	0	.3
BCEL-1	1.3	0	0	0	0	0	16.7	0	0	0	0	0	21.0	14.7	13.9	5.8	0	0	3.2	0	0	0	0	0
BCEL-2	12.3	3.5	0	0	0	0	5.7	0	0	0	0	0	21.0	4.7	1.1	.4	0	0	20.7	1.1	.1	0	0	.5
BCEL-3	12.1	80.7	65.2	0	.1	0	15.4	62.6	47.3	50.3	0	0	19.0	72.7	57.8	33.9	0	0	16.3	79.6	62.3	59.3	0	.2
BCEL-4	12.0	43.3	34.3	17.7	0	0	6.5	53.8	39.1	9.8	0	.1	19.4	70.9	62.4	46.3	0	0	3.5	0	0	0	0	0
BCEL-5	12.1	4.1	0	1.4	0	0	5.5	0	0	0	0	0	18.7	10.8	6.9	4.8	0	0	14.4	4.1	0	1.4	0	.1
BCEL-6	11.7	72.5	55.5	70.0	0	0	5.4	76.3	62.9	57.3	0	0	19.9	73.1	55.5	56.6	0	0	13.9	72.0	51.8	64.6	0	.1
BCEL-7	11.7	28.4	15.5	19.0	0	0	4.8	0	0	0	0	0	17.6	62.8	57.7	38.0	0	0	2.7	0	0	0	0	0
BCEL-8	1.4	0	0	0	0	0	6.2	51.9	20.8	19.7	0	0	17.5	59.0	37.5	21.8	0	0	14.9	61.7	68.0	52.0	0	.2
BCEL-9	11.7	41.6	23.8	19.2	0	0	7.1	44.0	32.8	19.5	0	0	15.0	0	0	0	0	0	16.4	25.5	17.3	14.3	0	.4
FREEHEP-10	11.8	88.9	67.1	32.1	0	0	5.2	60.5	24.5	17.2	0	0	18.5	81.2	48.6	22.0	0	0	19.4	30.1	18.0	12.4	0	.4
FREEHEP-1	12.2	4.9	2.5	1.4	0	0	4.6	4.9	3.4	.8	0	0	17.5	93.2	83.6	21.8	0	.1	19.9	1.1	.5	0	0	0
FREEHEP-2	1.3	0	0	0	0	0	3.4	0	0	0	0	0	17.1	5.7	0	0	0	0	21.0	0	0	0	0	0
FREEHEP-3	13.3	3.6	0	0	0	0	5.7	3.6	0	0	0	0	19.7	3.6	0	0	0	0	20.8	0	0	0	0	0
FREEHEP-4	11.7	51.6	50.2	11.9	0	0	14.7	0	0	0	0	0	21.0	14.6	13.2	4.2	0	0	16.2	37.2	37.8	15.3	0	.1
FREEHEP-5	11.9	64.2	36.0	0	.2	0	16.5	0	0	0	0	0	16.8	58.3	32.1	17.7	0	0	21.0	20.8	4.5	11.1	0	.4
FREEHEP-6	11.4	2.0	0	0	0	0	4.8	2.0	0	0	0	0	18.5	2.0	0	0	0	0	19.3	.6	0	0	0	.4
FREEHEP-7	12.3	14.2	2.0	4.7	0	0	4.8	14.2	2.0	0	0	.2	18.0	63.7	54.1	14.1	0	0	21.0	0	0	0	0	0
FREEHEP-8	1.3	0	0	0	0	0	3.3	0	0	0	0	0	17.1	17.6	25.9	.9	0	.2	19.5	3.6	2.3	2.3	0	.1
FREEHEP-9	12.6	9.9	1.3	0	0	0	4.7	9.9	1.3	0	0	0	16.7	9.9	1.3	0	0	0	20.0	6.0	.9	0	0	.4
GSON-10	12.1	35.5	9.3	10.8	0	0	6.2	35.2	8.9	15.5	0	0	18.0	61.4	43.9	22.9	0	0	1.3	0	0	0	0	0
GSON-1	11.4	9.5	0	0	0	0	4.0	6.3	0	0	0	0	17.6	9.5	0	0	0	0	1.3	0	0	0	0	0
GSON-2	13.9	20.6	12.3	0	.6	0	16.0	0	0	0	0	0	20.3	6.5	3.3	2.8	.2	0	1.4	0	0	0	0	0
GSON-3	11.8	81.7	66.2	56.3	0	0	6.3	56.5	32.5	21.8	0	0	16.5	76.0	60.8	46.7	0	0	1.3	0	0	0	0	0
GSON-4	11.7	2.7	.2	0	0	0	16.1	0	0	0	0	0	20.5	4.8	3.0	.4	0	0	1.5	0	0	0	0	0
GSON-5	11.7	38.9	20.6	0	.5	0	16.5	0	0	0	0	0	19.0	34.7	16.0	17.6	0	0	1.4	0	0	0	0	0
GSON-6	12.1	18.7	13.9	12.9	0	0	5.0	38.9	36.0	6.4	0	0	19.5	24.4	17.4	15.3	0	0	1.3	0	0	0	0	0
GSON-7	12.1	78.7	32.4	70.0	0	0	6.9	76.2	21.9	51.3	0	0	17.2	84.0	42.1	71.3	0	0	1.4	0	0	0	0	0
GSON-9	11.3	3.2	1.6	1.4	0	0	6.4	1.0	.5	0	0	0	17.8	39.7	32.7	17.4	0	0	1.3	0	0	0	0	0
IMAGE-1	1.2	0	0	0	0	0	5.4	3.2	.5	0	0	0	19.9	37.5	21.2	7.4	0	.1	14.7	16.1	9.4	.3	0	.4
IMAGE-2	11.8	17.5	8.8	0	.9	0	12.0	81.1	73.3	28.8	0	0	16.9	86.8	65.0	21.1	0	0	13.5	92.9	86.1	63.5	0	.1
IMAGE-3	12.4	11.3	10.8	5.8	0	0	5.5	12.3	5.6	3.6	0	0	19.6	42.8	27.8	8.6	0	0	3.2	0	0	0	0	0
IMAGE-4	12.1	9.3	1.9	6.3	0	0	15.1	37.0	28.8	22.1	0	0	18.7	41.8	33.5	16.6	0	0	14.8	73.9	67.9	71.0	0	.1
JXPATH-10	12.5	3.3	1.6	3.5	0	0	5.2	17.9	13.5	10.4	0	0	19.5	18.6	17.5	12.6	0	0	13.1	0	0	0	0	0
JXPATH-1	12.1	6.0	4.0	0	0	0	15.3	4.5	3.0	5.1	0	0	19.5	53.6	62.4	41.2	0	0	3.5	0	0	0	0	0
JXPATH-2	1.2	0	0	0	0	0	5.9	39.0	34.4	34.8	0	0	17.8	60.6	59.6	40.9	0	0	13.0	20.7	17.8	21.5	0	.1
JXPATH-3	1.3	0	0	0	0	0	5.5	51.0	45.3	31.2	0	0	18.9	79.5	73.4	28.5	0	0	12.3	41.9	32.2	41.4	0	0
JXPATH-4	11.6	13.6	10.7	0	.3	0	5.4	14.6	16.0	3.2	0	.1	17.4	80.3	76.7	68.4	0	0	13.7	73.3	68.9	56.5	0	0
JXPATH-5	11.8	58.6	30.6	38.8	0	0	4.9	75.3	56.0	23.0	0	0	16.5	82.7	66.0	30.9	0	0	12.7	27.7	28.0	33.3	0	0
JXPATH-6	1.3	0	0	0	0	0	9.1	20.8	13.0	8.0	0	.1	18.2	0	0	0	.5	0	18.0	78.1	68.8	65.3	0	.3
JXPATH-7	11.8	7.7	.7	.4	0	0	15.4	0	0	0	0	0	6.5	0	0	0	0	0	21.0	25.5	12.0	9.0	0	.2
JXPATH-8	11.9	24.2	27.7	0	0	0	5.1	18.2	18.6	14.0	0	0	17.9	37.2	38.8	22.1	0	0	18.6	46.8	53.1	42.7	0	.3
JXPATH-9	11.4	0	0	0	0	0	5.4	34.1	29.2	16.1	0	0	17.7	15.1	9.5	1.0	0	0	12.4	0	0	0	0	0
LA4J-10	11.5	0	0	0	0	0	5.0	40.5	22.7	18.8	0	0	16.9	40.5	31.8	5.6	0	0	13.9	63.9	50.0	45.9	0	.4
LA4J-1	12.0	64.4	47.3	18.6	0	0	5.0	61.2	41.2	16.3	0	0	19.6	45.2	36.2	23.8	0	0	19.1	87.7	82.8	63.0	0	.2
LA4J-2	11.4	0	0	0	0	0	5.4	5.9	4.9	1.2	0	0	21.0	16.8	10.6	.9	0	0	15.7	25.4	21.4	5.3	0	.1
LA4J-3	12.0	67.5	56.5	14.5	0	0	9.7	22.6	14.2	4.2	0	0	21.0	0	0	0	0	0	15.9	18.5	13.3	5.7	0	.8
LA4J-4	11.9	71.5	43.9	37.3	0	0	12.3	14.6	8.5	8.0	0	0	21.0	0	0	0	0	0	18.1	46.5	28.7	19.4	0	.4
LA4J-5	1.3	0	0	0	0	0	9.8	18.9	17.2	5.3	0	0	21.0	0	0	0	0	0	21.0	14.2	12.8	4.4	0	.8
LA4J-6	11.4	0	0	0	0	0	11.2	38.4	20.0	14.8	0	0	18.2	28.2	13.3	4.6	0	0	14.6	37.1	16.6	12.0	0	.5
LA4J-7	12.0	69.5	60.4	14.5	0	0	13.1	11.9	6.1	6.9	0	0	21.0	0	0	0	0	0	18.8	37.3	29.5	23.0	0	.5
LA4J-8	16.0	58.0	38.2	39.0	0	0	15.3	0	0	0	0	0	20.8	46.0	32.3	34.2	0	0	18.1	44.7	29.9	23.9	0	.4
LA4J-9	11.9	1.1	0	0	0	0	7.3	32.8	38.0	3.1	0	0	21.0	17.8	15.0	.4	0	0	16.1	75.7	77.7	16.9	0	0
OKHTTP-1	11.4	3.3	0	0	0	0	3.2	0	0	0	0	0	18.2	9.4	4.1	2.1	0	0	13.7	4.8	1.7	.3	0	.4
OKHTTP-2	12.1	27.2	26.6	32.3	0	0	11.5	.7	0	.9	0	0	17.4	33.3	33.3	36.2	0	0	3.2	0	0	0	0	0
OKHTTP-3	11.9	51.2	28.2	33.8	0	0	4.7	20.7	0	0	0	0	17.7	81.7	70.7	36.1	0	0	15.3	65.4	52.0	63.8	0	.2
OKHTTP-4	11.4	15.6	12.9	15.4	0	0	14.7	0	0	0	0	0	17.2	40.1	29.5	14.0	0	0	15.1	45.3	36.0	42.2	0	0
OKHTTP-5	11.6	0	0	0	0	0	6.5	14.7	5.3	4.3	0	0	18.2	0	0	0	0	0	14.6	9.6	1.7	2.5	0	.3
OKHTTP-6	12.1	24.2	1.4	22.0	0	0	2.8	0	0	0	0	0	18.0	73.6	54.7	9.6	0	0	16.8	68.2	47.1	63.2	0	.1
OKHTTP-7	11.4	5.0	0	0	0	0	3.9	5.0	0	0	0	0	18.2	42.0	27.6	10.0	0	0	12.8	5.0	0	0	0	.5
OKHTTP-8	1.4	0	0	0	0	0	3.4	0	0	0	0	0	6.8	0	0	0	0	0	4.4	0	0	0	0	0
RE2J-1	11.5	12.8	6.5	5.9	0	0	16.7	0	0	0	0	0	20.6	35.0	30.4	19.7	0	0	17.8	65.6	57.9	12.1	0	.3
RE2J-2	11.9	86.1	83.6	7.8	0	0	6.8	74.0	69.3	29.7	0	0	20.6	9.4	9.2	3.9	0	0	18.6	60.7	59.2	51.3	.1	.1
RE2J-3	11.3	3.1	1.7	3.4	0	0	6.1	4.6	1.7	3.4	0	0	16.0	4.6	1.7	3.4	0	0	12.3	46.3	48.2	15.5	0	0
RE2J-4	1.4	0	0	0	0	0	5.2	0	0	0	0	0	18.2	74.8	81.2	27.6	0	0	14.1	96.5	90.9	78.6	0	0
RE2J-5	11.4	6.8	0	0	0	0	13.5	6.8	0	0	0	0	18.1	27.6	10.9	2.9	0	0	13.1	95.7	85.0	23.6	0	0
RE2J-6	11.5	0	0	0	0	0	16.4	0	0	0	0	0	18.6	0	0	0	0	0	15.2	84.6	72.1	33.3	0	.2
RE2J-7	11.6	22.5	10.9	8.9	0	0	16.1	9.5	3.6	4.0	0	0	20.8	19.3	15.4	5.8	0	0	18.0	33.7	23.2	14.8	0	.3
RE2J-8	11.9	88.2	73.8	4.9	0	0	10.6	50.1	36.3	13.5	0	0	19.4	64.5	59.1	26.7	0	0	15.8	93.7	86.0	37.9	0	.1

TABLE IX

AVERAGED RESULTS FOR 3 RUNS ON 30 SECONDS TIME BUDGET

CUT	Randoop						T3						Evosuite						jTexPert					
	gen_t	cov_i	cov_b	cov_m	U	B	gen_t	cov_i	cov_b	cov_m	U	B	gen_t	cov_i	cov_b	cov_m	U	B	gen_t	cov_i	cov_b	cov_m	U	B
BCEL-10	31.4	0	0	0	0	0	20.1	71.9	63.8	0	0	0	30.8	6.7	1.3	1.3	0	0	30.7	65.8	57.4	49.7	0	.4
BCEL-1	1.2	0	0	0	0	0	36.2	3.9	5.1	0	0	0	25.7	0	0	0	0	0	3.5	0	0	0	0	0
BCEL-2	33.0	3.5	0	0	0	0	5.7	0	0	0	0	0	35.4	5.3	1.2	.4	0	0	39.1	3.5	.3	0	0	.5
BCEL-3	33.1	82.8	68.5	0	0	0	25.2	76.5	71.4	0	0	0	31.9	80.7	63.8	38.2	0	0	34.7	84.0	69.7	67.4	0	.2
BCEL-4	32.1	49.4	42.1	24.8	0	0	32.4	75.7	63.3	10.1	0	0	33.9	72.6	66.2	45.7	0	0	3.4	0	0	0	0	0
BCEL-5	32.8	4.1	0	1.4	0	0	4.8	0	0	0	0	0	30.2	10.8	6.9	3.8	0	0	30.5	4.1	0	1.4	0	.1
BCEL-6	31.8	72.5	55.5	66.6	0	0	18.3	83.8	82.7	44.0	0	0	34.4	73.6	54.9	55.3	0	0	29.8	75.8	57.4	68.6	0	.1
BCEL-7	32.1	28.4	15.5	19.0	0	0	4.3	0	0	0	0	0	31.1	65.2	63.7	43.6	0	0	2.7	0	0	0	0	0
BCEL-8	1.3	0	0	0	0	0	12.1	40.4	22.2	13.5	0	0	31.1	59.0	37.5	21.8	0	0	31.5	77.0	77.7	72.9	0	.2
BCEL-9	31.7	47.6	34.6	22.8	0	0	29.7	60.6	56.8	29.2	0	0	14.7	0	0	0	0	0	33.7	62.7	52.2	41.8	0	.4
FREEHEP-10	32.7	91.1	79.1	47.6	0	0	25.8	90.9	77.3	1.7	0	0	30.0	87.5	67.5	22.9	0	0	53.9	57.0	51.8	30.6	0	.4
FREEHEP-1	32.9	4.9	2.5	2.0	0	0	9.1	4.9	3.4	.8	0	0	30.9	93.2	83.6	23.2	0	.1	36.5	1.3	.5	.2	0	0
FREEHEP-2	1.3	0	0	0	0	0	2.6	0	0	0	0	0	29.7	8.6	0	0	0	0	31.3	0	0	0	0	0
FREEHEP-3	35.3	3.6	0	0	0	0	11.4	3.6	0	0	0	0	31.8	3.6	0	0	0	0	35.3	8.1	1.0	0	0	.4
FREEHEP-4	32.6	59.4	61.9	7.0	0	0	39.0	0	0	0	0	0	38.0	50.4	50.7	17.9	0	0	29.1	0	0	0	0	0
FREEHEP-5	32.5	69.4	40.9	0	.1	0	37.7	0	0	0	0	0	31.7	62.0	32.7	21.4	0	0	41.3	20.6	2.7	13.8	0	.3
FREEHEP-6	31.4	2.0	0	0	0	0	4.5	2.0	0	0	0	0	31.6	2.0	0	0	0	0	36.0	.6	0	0	0	.4
FREEHEP-7	33.6	14.2	2.0	4.7	0	0	14.6	14.2	2.0	0	0	0	33.3	63.7	55.5	14.1	0	0	33.3	10.3	.6	2.0	0	.4
FREEHEP-8	1.4	0	0	0	0	0	2.7	0	0	0	0	0	30.6	17.6	28.2	2.3	0	.1	35.7	25.5	26.3	12.7	0	.3
FREEHEP-9	33.1	9.9	1.3	0	0	0	7.2	9.9	1.3	0	0	0	30.4	9.9	1.3	0	0	0	39.1	10.8	3.1	0	0	.4
GSON-10	31.7	35.9	9.7	10.3	0	0	10.2	35.9	9.7	2.5	0	0	29.1	61.7	45.1	22.0	0	0	1.3	0	0	0	0	0
GSON-1	31.7	9.5	0	0	0	0	7.1	9.5	0	0	0	.1	32.6	9.5	0	0	0	.1	1.3	0	0	0	0	0
GSON-2	32.1	37.4	21.9	8.7	.1	0	36.1	60.2	45.0	28.0	0	0	32.5	18.6	9.6	8.1	.1	0	1.3	0	0	0	0	0
GSON-3	31.9	86.5	80.8	64.7	0	0	8.6	82.9	68.7	21.8	0	0	30.9	73.1	54.5	47.8	0	0	1.3	0	0	0	0	0
GSON-4	31.4	2.7	.2	0	0	0	37.4	0	0	0	0	0	50.9	5.3	2.3	.6	0	0	1.4	0	0	0	0	0
GSON-5	33.0	40.0	20.8	0	.3	0	36.6	95.7	74.6	47.8	0	0	30.8	41.5	21.7	22.0	0	0	1.3	0	0	0	0	0
GSON-6	33.2	18.7	13.9	12.9	0	0	25.4	76.3	80.2	13.7	0	0	30.1	31.1	24.4	19.6	0	0	1.5	0	0	0	0	0
GSON-7	31.9	78.7	37.7	70.0	0	0	25.9	84.3	41.2	51.3	0	0	31.1	84.3	42.9	72.0	0	0	1.3	0	0	0	0	0
GSON-9	31.4	3.2	1.6	1.4	0	0	7.5	3.2	1.6	0	0	0	29.7	52.6	40.0	27.3	0	0	1.3	0	0	0	0	0
IMAGE-1	1.3	0	0	0	0	0	6.8	3.2	.5	0	0	0	34.2	43.9	27.7	19.9	0	.1	32.5	52.8	36.4	14.6	0	.4
IMAGE-2	32.2	15.7	7.7	0	.9	0	8.4	92.1	91.6	8.3	0	0	31.0	89.0	70.0	20.8	0	0	32.0	93.4	85.5	60.4	0	.1
IMAGE-3	32.6	11.3	10.8	5.8	0	0	19.3	32.1	16.4	.8	0	0	34.6	48.1	29.0	8.6	0	0	3.3	0	0	0	0	0
IMAGE-4	32.8	9.4	2.2	6.5	0	0	35.8	64.6	55.7	18.2	0	0	31.4	43.8	35.8	17.3	0	0	33.1	76.9	71.6	74.4	0	.1
JXPATH-10	34.3	3.3	1.6	3.5	0	0	8.0	27.6	21.1	5.4	0	0	31.1	24.1	23.9	15.3	0	.1	29.0	0	0	0	0	0
JXPATH-1	33.2	6.0	4.0	0	0	0	9.7	5.4	3.8	0	0	0	30.8	53.6	65.4	38.5	0	0	3.3	0	0	0	0	0
JXPATH-2	1.3	0	0	0	0	0	19.2	48.9	43.0	30.6	0	0	32.1	67.5	67.0	44.3	0	0	29.1	20.4	16.6	18.9	0	0
JXPATH-3	1.3	0	0	0	0	0	9.0	76.3	70.8	38.0	0	0	32.2	86.0	83.3	39.4	0	0	28.5	55.9	47.9	51.7	0	.1
JXPATH-4	31.5	13.6	10.7	0	.3	0	7.5	17.9	20.5	3.2	0	0	29.8	83.2	78.1	68.1	0	0	29.0	74.3	70.9	64.1	0	0
JXPATH-5	32.0	59.2	32.0	40.4	0	0	8.1	82.7	68.6	39.6	0	0	29.7	88.2	73.3	30.9	0	0	28.4	27.7	28.0	33.3	0	0
JXPATH-6	1.4	0	0	0	0	0	35.1	39.5	32.6	14.6	0	0	29.8	0	0	0	.5	0	33.2	80.5	72.4	66.0	0	.2
JXPATH-7	32.1	7.7	.8	.4	0	0	35.2	0	0	0	0	0	5.6	0	0	0	0	0	57.9	29.7	16.4	10.8	0	.2
JXPATH-8	32.4	24.3	28.0	0	0	0	16.4	30.4	30.6	22.5	0	0	30.3	38.0	40.2	21.2	0	0	41.7	49.4	55.7	45.1	0	.3
JXPATH-9	31.6	0	0	0	0	0	20.2	41.9	37.0	22.6	0	0	29.7	20.9	11.9	3.2	0	0	28.5	0	0	0	0	0
LA4J-10	31.6	0	0	0	0	0	5.5	50.4	33.3	22.6	0	0	33.5	87.3	83.3	22.6	0	0	34.4	93.6	90.9	73.5	0	.4
LA4J-1	32.0	74.0	66.1	32.6	0	0	25.6	86.5	88.6	5.5	0	0	34.8	75.9	68.5	47.0	0	0	46.2	92.9	85.9	65.6	0	.2
LA4J-2	31.4	0	0	0	0	0	28.0	6.1	5.2	1.2	0	0	42.4	22.6	19.3	2.2	0	0	33.7	51.8	46.9	13.2	0	0
LA4J-3	32.5	71.0	62.5	18.6	0	0	42.9	5.1	2.5	2.3	0	0	40.8	23.6	15.5	10.8	0	0	32.6	0	0	0	0	0
LA4J-4	32.6	72.9	46.4	31.8	0	0	31.7	39.9	25.2	4.0	0	0	44.1	71.8	49.4	33.1	0	0	38.6	45.6	29.2	22.3	0	.2
LA4J-5	1.3	0	0	0	0	0	40.8	13.6	12.6	4.5	0	0	40.5	31.5	23.4	14.9	0	0	61.0	16.0	13.8	7.6	.3	.3
LA4J-6	31.6	0	0	0	0	0	15.0	78.2	60.0	14.8	0	0	30.2	76.9	61.6	16.6	0	0	32.9	91.0	80.0	74.0	0	.4
LA4J-7	33.2	75.5	68.7	14.5	0	0	32.2	41.8	30.3	2.1	0	0	42.1	12.6	7.4	6.0	0	0	29.3	0	0	0	0	0
LA4J-8	34.6	69.8	48.0	33.3	0	0	36.7	0	0	0	0	0	37.6	74.6	59.8	58.4	0	0	39.9	73.6	48.0	45.4	0	.2
LA4J-9	32.7	1.1	0	0	0	0	32.5	34.3	40.7	2.6	0	0	43.7	36.9	39.8	5.5	0	0	35.0	94.2	90.6	13.4	0	0
OKHTTP-1	31.3	3.3	0	0	0	0	2.9	0	0	0	0	0	31.4	14.2	6.4	3.3	0	0	30.6	4.8	1.7	.3	0	.3
OKHTTP-2	32.9	27.2	26.6	32.3	0	0	15.9	5.3	0	0	0	0	30.7	35.6	33.3	38.2	0	0	3.1	0	0	0	0	0
OKHTTP-3	32.2	51.2	31.8	34.7	0	0	9.9	20.7	0	0	0	0	31.0	86.1	75.2	37.5	0	0	31.1	65.8	53.0	64.7	0	.2
OKHTTP-4	31.5	15.6	12.9	15.4	0	0	34.7	0	0	0	0	0	31.1	44.9	33.8	17.3	0	0	35.7	51.0	40.8	45.0	0	0
OKHTTP-5	31.8	0	0	0	0	0	7.1	29.0	17.6	12.3	0	0	30.1	0	0	0	0	0	31.4	14.7	5.3	4.5	0	0
OKHTTP-6	32.4	35.9	20.0	45.7	0	0	3.1	0	0	0	0	0	32.6	85.1	72.8	15.2	0	0	36.8	84.6	72.3	69.4	0	.1
OKHTTP-7	31.5	5.0	0	0	0	0	3.8	5.0	0	0	0	0	29.6	45.0	36.4	12.1	0	0	28.9	5.0	0	0	0	.5
OKHTTP-8	1.3	0	0	0	0	0	3.1	0	0	0	0	0	5.8	0	0	0	0	0	4.1	0	0	0	0	0
RE2J-1	31.5	12.8	6.5	5.9	0	0	11.1	25.7	16.2	0	0	0	33.8	59.6	50.6	33.1	0	0	37.8	70.3	61.5	12.3	0	.2
RE2J-2	33.6	89.0	86.3	11.1	0	0	26.9	80.1	78.5	31.3	0	0	38.0	77.6	73.8	32.3	0	0	39.0	62.8	61.9	52.6	.1	.1
RE2J-3	31.5	3.1	1.7	3.4	0	0	6.2	4.6	1.7	3.4	0	0	30.0	4.6	1.7	3.4	0	0	28.4	57.2	55.9	13.7	0	0
RE2J-4	1.2	0	0	0	0	0	5.2	0	0	0	0	0	31.5	75.5	85.0	27.0	0	0	30.2	96.5	92.3	77.2	0	0
RE2J-5	31.5	6.8	0	0	0	0	7.1	6.8	0	0	0	0	31.3	30.7	22.7	3.8	0	0	29.4	95.7	83.9	39.1	0	0
RE2J-6	31.6	0	0	0	0	0	15.5	0	0	0	0	0	30.7	0	0	0	0	0	32.2	90.3	78.2	43.9	0	.1
RE2J-7	32.2	25.0	13.1	9.5	0	0	11.5	10.3	4.2	0	0	0	39.7	52.6	39.2	16.9	0	0	35.0	35.7	25.7	18.5	0	.3
RE2J-8	31.7	93.1	85.0	5.3	0	0	27.2	94.6	87.4	4.1	0	0	31.9	97.7	90.8	44.1	0	0	32.1	95.5	92.5	38.9	0	.1

TABLE X
AVERAGED RESULTS FOR 3 RUNS ON 1 MINUTE TIME BUDGET

CUT	Randoop						T3						Evosuite						jTexPert					
	gen_t	cov_i	cov_b	cov_m	U	B	gen_t	cov_i	cov_b	cov_m	U	B	gen_t	cov_i	cov_b	cov_m	U	B	gen_t	cov_i	cov_b	cov_m	U	B
BCEL-10	61.3	0	0	0	0	0	30.8	72.2	65.2	0	0	0	54.0	45.9	41.2	35.5	0	0	54.3	67.2	59.7	54.2	0	.2
BCEL-1	1.4	0	0	0	0	0	66.6	3.9	5.2	0	0	0	45.2	17.8	18.0	14.9	0	0	3.2	0	0	0	0	0
BCEL-2	63.6	3.5	0	0	0	0	6.0	0	0	0	0	0	48.4	4.8	1.5	.6	0	0	75.2	4.9	.6	.1	0	.4
BCEL-3	64.1	83.5	70.0	0	0	0	53.7	76.7	72.1	0	0	0	59.3	71.6	65.7	29.4	0	0	59.4	85.9	72.3	69.9	0	.2
BCEL-4	62.9	51.8	44.5	28.8	0	0	65.1	31.6	29.8	6.4	0	0	61.0	83.7	74.2	58.1	0	0	3.5	0	0	0	0	0
BCEL-5	64.0	4.1	0	1.4	0	0	4.6	0	0	0	0	0	54.9	27.5	16.6	17.3	0	0	54.2	4.1	0	1.4	0	.1
BCEL-6	62.7	72.5	55.5	69.3	0	0	16.6	83.8	83.3	46.0	0	0	61.5	75.2	59.8	66.0	0	0	55.0	75.8	57.4	72.0	0	0
BCEL-7	62.5	28.4	15.5	19.0	0	0	3.9	0	0	0	0	0	52.5	55.0	37.7	27.7	0	0	2.6	0	0	0	0	0
BCEL-8	1.4	0	0	0	0	0	13.2	59.0	34.7	30.2	0	0	57.7	96.7	93.0	91.6	0	0	54.6	84.6	81.9	76.0	0	.2
BCEL-9	61.9	54.1	46.4	21.6	0	0	55.3	63.1	61.7	21.9	0	0	56.9	52.0	36.9	33.3	0	0	59.6	75.4	66.3	50.5	0	.4
FREEHEP-10	64.4	91.1	79.1	48.8	0	0	50.9	91.1	79.1	1.1	0	0	56.9	97.0	82.4	69.9	0	0	81.1	57.0	48.1	29.7	0	.4
FREEHEP-1	64.6	4.9	2.5	2.0	0	0	11.1	4.9	3.4	.8	0	0	59.9	96.5	87.3	38.7	0	0	67.3	3.1	1.1	.2	0	0
FREEHEP-2	1.3	0	0	0	0	0	3.3	0	0	0	0	0	56.0	68.5	64.1	4.0	0	0	59.1	10.5	4.2	0	0	.5
FREEHEP-3	67.2	3.6	0	0	0	0	14.7	3.6	0	0	0	0	56.3	59.5	48.1	11.1	0	0	59.0	8.4	1.6	0	0	.4
FREEHEP-4	63.0	59.4	61.9	8.1	0	0	66.4	0	0	0	0	0	67.6	49.9	49.2	17.4	0	0	58.2	18.9	19.5	8.1	.3	.1
FREEHEP-5	62.6	71.7	44.2	0	0	0	65.8	0	0	0	0	0	57.8	82.9	59.0	46.1	0	0	88.4	38.6	16.9	22.9	0	.3
FREEHEP-6	61.5	2.0	0	0	0	0	5.2	2.0	0	0	0	0	57.3	94.1	86.4	38.0	0	0	64.3	2.0	0	0	0	.5
FREEHEP-7	65.5	14.2	2.0	4.7	0	0	17.2	14.2	2.0	0	0	0	57.9	85.9	85.4	42.7	0	0	59.9	8.4	0	2.3	0	.3
FREEHEP-8	1.4	0	0	0	0	0	4.0	0	0	0	0	0	60.1	57.9	58.7	10.1	0	0	64.0	35.0	30.0	14.9	0	.2
FREEHEP-9	63.2	9.9	1.3	0	0	0	9.5	9.9	1.3	0	0	0	57.4	14.4	13.0	0	0	0	62.8	9.9	1.3	0	0	.5
GSON-10	62.3	35.9	9.7	11.2	0	0	9.9	35.9	9.7	2.5	0	0	56.4	80.1	63.0	54.5	0	0	1.3	0	0	0	0	0
GSON-1	61.7	9.5	0	0	0	0	7.9	9.5	0	0	0	0	54.3	58.7	46.2	45.3	0	0	1.4	0	0	0	0	0
GSON-2	62.6	40.5	23.5	0	.1	0	66.9	57.4	42.3	28.6	0	0	57.5	44.1	25.4	26.4	0	0	1.4	0	0	0	0	0
GSON-3	63.1	84.1	74.5	62.8	0	0	9.3	82.9	68.3	21.8	0	0	58.0	88.6	76.6	78.9	0	0	1.5	0	0	0	0	0
GSON-4	61.9	2.7	.2	0	0	0	66.3	0	0	0	0	0	69.0	18.2	13.1	8.6	0	0	1.4	0	0	0	0	0
GSON-5	63.8	28.5	16.0	0	.2	0	66.0	95.7	74.6	33.0	0	0	56.0	47.1	30.6	32.7	0	0	1.3	0	0	0	0	0
GSON-6	64.6	18.7	13.9	12.9	0	0	54.2	76.3	79.8	13.1	0	0	57.6	64.2	63.5	51.8	0	0	1.3	0	0	0	0	0
GSON-7	62.1	78.7	39.4	70.0	0	0	24.8	84.0	40.3	48.0	0	0	55.1	97.1	78.0	90.0	0	0	1.3	0	0	0	0	0
GSON-9	61.5	3.2	1.6	1.4	0	0	6.8	3.2	1.6	0	0	0	55.3	64.5	51.1	63.6	0	0	1.3	0	0	0	0	0
IMAGE-1	1.3	0	0	0	0	0	11.6	3.2	.5	0	0	0	59.3	59.1	44.6	18.3	0	0	55.6	55.8	38.5	45.4	0	.3
IMAGE-2	62.7	19.7	11.6	0	.9	0	11.0	92.1	91.6	7.9	0	0	57.2	92.9	78.8	56.5	0	0	56.6	93.4	84.4	63.5	0	.1
IMAGE-3	63.8	11.3	10.8	5.8	0	0	21.5	32.2	16.5	.8	0	0	60.2	36.8	24.8	9.1	0	0	3.1	0	0	0	0	0
IMAGE-4	63.7	9.4	2.2	6.5	0	0	64.9	30.8	25.1	14.3	0	0	58.5	54.4	47.2	38.0	0	0	57.4	77.6	72.3	74.4	0	.1
JXPATH-10	66.9	3.3	1.6	3.5	0	0	9.7	27.4	21.1	9.1	0	0	58.7	40.3	35.5	24.1	0	.2	52.6	0	0	0	0	0
JXPATH-1	65.4	6.0	4.0	0	0	0	9.6	5.7	3.9	0	0	0	60.3	61.8	73.4	50.2	0	0	3.8	0	0	0	0	0
JXPATH-2	1.6	0	0	0	0	0	11.4	49.8	43.0	31.4	0	0	57.5	71.1	68.9	50.7	0	0	53.4	20.7	17.0	19.3	0	0
JXPATH-3	1.3	0	0	0	0	0	6.5	76.8	68.7	40.1	0	0	56.7	82.2	79.6	70.0	0	0	53.4	58.0	55.2	49.6	0	0
JXPATH-4	61.5	13.6	10.7	0	.3	0	5.7	17.9	20.5	3.2	0	0	53.4	85.1	80.0	71.3	0	0	52.8	49.8	47.7	44.2	0	0
JXPATH-5	62.5	59.2	32.0	40.4	0	0	7.4	81.4	67.3	42.8	0	0	56.9	93.8	82.6	75.3	0	0	52.6	27.7	28.0	33.3	0	0
JXPATH-6	1.5	0	0	0	0	0	65.3	59.3	55.0	42.0	0	0	57.1	0	0	0	.5	0	56.5	80.9	73.1	68.0	0	.2
JXPATH-7	62.7	7.7	.8	.4	0	0	65.0	0	0	0	0	0	5.6	0	0	0	0	0	97.1	45.6	30.6	18.9	0	.1
JXPATH-8	62.6	24.3	28.0	0	0	0	14.3	30.4	30.6	21.4	0	0	56.3	51.3	52.0	39.6	0	0	70.9	49.5	55.5	44.9	0	.3
JXPATH-9	61.4	0	0	0	0	0	18.0	44.3	39.7	19.6	0	0	55.4	54.1	45.9	26.7	0	0	52.2	0	0	0	0	0
LA4J-10	61.7	0	0	0	0	0	5.2	50.4	33.3	18.8	0	0	58.3	94.5	90.9	49.0	0	0	61.6	94.5	92.4	72.9	0	.4
LA4J-1	63.0	77.4	71.6	26.4	0	0	37.7	87.3	89.4	3.5	0	0	60.9	83.8	73.5	55.5	0	0	73.8	61.9	58.7	45.7	.1	.1
LA4J-2	61.7	0	0	0	0	0	42.3	6.2	5.4	1.2	0	0	60.7	23.0	19.8	4.7	0	0	60.2	60.5	57.2	16.1	0	0
LA4J-3	62.7	66.3	56.5	18.7	0	0	64.9	34.8	23.6	2.3	0	0	52.4	0	0	0	0	0	63.2	24.8	22.2	13.8	0	.3
LA4J-4	63.5	72.7	46.9	8.6	0	0	58.8	49.1	38.3	1.2	0	0	64.9	84.4	71.7	48.9	0	0	65.3	50.2	34.3	25.7	.1	.2
LA4J-5	1.4	0	0	0	0	0	67.2	14.2	12.4	1.5	0	0	70.7	38.5	32.6	20.4	0	0	119.7	71.2	62.5	23.1	0	.5
LA4J-6	61.5	0	0	0	0	0	67.7	88.4	75.0	11.1	0	0	55.8	83.3	70.0	26.8	0	0	59.2	96.1	90.0	87.0	0	.4
LA4J-7	62.7	68.2	59.0	18.1	0	0	63.1	32.8	22.6	3.8	0	0	59.5	0	0	0	0	0	56.5	0	0	0	0	0
LA4J-8	65.8	71.7	50.9	41.2	0	0	65.4	0	0	0	0	0	65.2	84.7	74.0	69.0	0	0	68.5	78.7	53.4	55.4	0	.2
LA4J-9	63.5	1.1	0	0	0	0	70.9	26.4	30.4	1.6	0	0	66.6	61.2	67.4	16.5	0	0	62.2	94.5	91.2	10.5	0	.4
OKHTTP-1	61.4	3.3	0	0	0	0	2.9	0	0	0	0	0	51.7	12.5	5.9	4.9	0	0	55.1	4.9	2.0	.6	0	.3
OKHTTP-2	63.5	27.2	26.6	32.3	0	0	15.6	2.2	0	0	0	0	77.3	25.3	33.3	32.3	0	0	3.2	0	0	0	0	0
OKHTTP-3	62.8	51.2	31.8	33.8	0	0	11.3	20.7	0	0	0	0	56.2	86.9	75.7	67.6	0	0	55.8	65.8	53.0	65.2	0	.2
OKHTTP-4	61.5	15.6	12.9	15.4	0	0	65.3	0	0	0	0	0	56.9	62.6	54.8	46.9	0	0	59.5	56.2	47.3	50.2	0	.1
OKHTTP-5	61.3	0	0	0	0	0	6.2	21.3	9.9	7.6	0	0	49.9	15.8	3.5	5.0	0	0	53.6	9.6	1.7	2.5	0	0
OKHTTP-6	62.9	35.9	20.0	45.7	0	0	2.9	0	0	0	0	0	57.2	86.9	77.6	79.6	0	0	57.5	85.4	74.2	81.9	0	.1
OKHTTP-7	61.3	5.0	0	0	0	0	3.7	5.0	0	0	0	0	51.8	24.5	23.9	11.6	.1	0	52.8	5.0	0	0	0	.4
OKHTTP-8	1.3	0	0	0	0	0	3.0	0	0	0	0	0	5.7	0	0	0	0	0	3.7	0	0	0	0	0
RE2J-1	61.5	12.8	6.5	5.9	0	0	14.8	28.8	19.1	0	0	0	57.9	58.2	49.2	32.0	0	0	58.1	74.5	65.5	8.8	0	.2
RE2J-2	62.7	82.7	78.8	3.2	0	.1	56.8	79.9	77.9	28.7	0	0	60.7	81.0	77.6	36.6	0	0	63.0	94.8	94.3	83.0	0	.1
RE2J-3	61.4	3.1	1.7	3.4	0	0	7.0	4.6	1.7	3.4	0	0	60.4	39.0	36.9	22.9	0	0	52.3	58.3	58.3	6.8	0	0
RE2J-4	1.6	0	0	0	0	0	5.2	0	0	0	0	0	56.5	90.6	93.0	91.4	0	0	54.0	96.5	93.0	77.2	0	0
RE2J-5	61.5	6.8	0	0	0	0	6.7	6.8	0	0	0	0	56.5	62.1	57.2	31.0	0	0	53.2	95.7	84.7	26.2	0	0
RE2J-6	61.4	0	0	0	0	0	15.8	0	0	0	0	0	56.8	58.7	55.0	41.9	0	0	55.6	91.6	80.9	39.7	0	.1
RE2J-7	62.5	30.0	17.9	12.6	0	0	13.6	10.3	4.2	0	0	0	64.7	54.0	40.3	15.4	0	0	60.8	33.7	24.3	16.3	0	.3
RE2J-8	61.9	93.1	86.3	4.9	0	0	49.3	94.9	88.0	3.5	0	0	58.6	96.8	89.4	67.6	0	0	55.8	95.7	93.5	38.5	0	.1

TABLE XI
AVERAGED RESULTS FOR 3 RUNS ON 2 MINUTES TIME BUDGET

CUT	Randoop						T3						Evosuite						jTexPert					
	gen_t	cov_i	cov_b	cov_m	U	B	gen_t	cov_i	cov_b	cov_m	U	B	gen_t	cov_i	cov_b	cov_m	U	B	gen_t	cov_i	cov_b	cov_m	U	B
BCEL-10	121.7	0	0	0	0	0	41.3	72.2	65.2	0	0	0	102.6	49.2	45.8	39.5	0	0	103.6	68.6	60.6	57.7	0	.3
BCEL-1	1.4	0	0	0	0	0	84.2	2.6	3.4	0	0	0	113.5	37.4	36.6	18.5	0	0	3.1	0	0	0	0	0
BCEL-2	125.4	3.5	0	0	0	0	4.9	0	0	0	0	0	113.9	7.2	1.8	1.0	0	0	114.3	5.8	2.0	.4	0	.4
BCEL-3	124.9	82.3	68.8	0	0	0	93.7	77.6	73.3	0	0	0	113.8	82.5	73.3	43.5	0	0	106.0	85.7	72.8	70.5	0	.1
BCEL-4	123.6	60.1	54.6	14.1	0	0	95.4	51.9	46.1	3.6	0	0	117.0	89.8	80.2	55.9	0	0	3.5	0	0	0	0	0
BCEL-5	124.6	4.1	0	1.4	0	0	5.6	0	0	0	0	0	101.7	66.6	55.0	50.2	0	0	102.4	4.1	0	1.4	0	.1
BCEL-6	123.0	72.5	55.5	70.0	0	0	18.6	83.8	82.7	48.6	0	0	119.9	75.2	66.6	69.3	0	0	102.6	75.8	57.4	68.6	0	.1
BCEL-7	122.2	28.4	15.5	19.0	0	0	5.0	0	0	0	0	0	118.9	87.7	63.7	49.2	0	0	2.6	0	0	0	0	0
BCEL-8	1.5	0	0	0	0	0	12.0	63.9	37.5	34.3	0	0	106.6	97.2	93.0	93.7	0	0	103.3	85.2	80.5	75.0	0	.1
BCEL-9	121.9	54.6	46.9	26.0	0	0	72.2	62.9	61.2	18.4	0	0	59.4	0	0	0	0	0	109.6	82.7	73.2	57.3	0	.4
FREEHEP-10	127.7	91.1	79.1	49.4	0	0	54.6	91.1	79.1	2.6	0	0	107.6	99.6	95.3	77.3	0	0	134.4	55.4	50.4	33.6	0	.4
FREEHEP-1	124.8	4.9	2.5	.8	0	0	8.5	4.9	3.4	.8	0	0	116.1	97.3	89.0	37.3	0	0	115.9	4.2	1.7	.8	0	.1
FREEHEP-2	1.2	0	0	0	0	0	2.6	0	0	0	0	0	109.7	98.0	95.3	7.1	0	0	108.0	10.5	4.2	0	0	.5
FREEHEP-3	139.7	3.6	0	0	0	0	10.6	3.6	0	0	0	0	117.0	88.7	74.7	14.3	0	0	112.0	13.3	3.1	0	0	.6
FREEHEP-4	122.9	59.4	61.9	3.3	0	0	124.4	0	0	0	0	0	118.2	64.2	62.4	24.6	0	0	105.9	18.9	19.3	8.1	.3	.1
FREEHEP-5	123.0	73.7	51.2	0	0	0	125.6	19.3	4.8	4.1	0	.4	111.7	88.6	68.4	52.3	0	0	148.7	61.7	38.7	31.8	0	.2
FREEHEP-6	121.6	2.0	0	0	0	0	3.8	2.0	0	0	0	0	106.0	94.1	87.6	46.6	0	0	106.6	12.3	2.4	0	0	.4
FREEHEP-7	125.7	14.2	2.0	4.7	0	0	11.7	14.2	2.0	0	0	0	115.4	94.7	93.0	51.1	0	0	109.6	11.9	1.3	2.3	0	.4
FREEHEP-8	1.4	0	0	0	0	0	2.5	0	0	0	0	0	116.6	87.1	82.4	51.7	0	0	114.0	59.0	48.6	35.4	0	.1
FREEHEP-9	122.8	9.9	1.3	0	0	0	6.6	9.9	1.3	0	0	0	107.4	18.6	22.5	0	0	0	112.8	10.8	3.1	0	0	.5
GSON-10	122.6	35.9	9.7	11.2	0	0	10.6	35.9	9.7	2.5	0	0	102.1	79.7	62.1	53.2	0	0	1.3	0	0	0	0	0
GSON-1	121.4	9.5	0	0	0	0	7.3	9.5	0	0	0	0	86.9	83.0	68.5	62.9	0	0	1.4	0	0	0	0	0
GSON-2	122.6	40.5	23.5	0	0	0	126.1	63.3	48.4	19.9	0	0	100.7	50.2	32.3	34.1	0	0	1.3	0	0	0	0	0
GSON-3	124.4	86.5	83.7	60.9	0	0	11.8	82.9	68.7	21.8	0	0	102.2	92.6	80.4	78.1	0	0	1.3	0	0	0	0	0
GSON-4	121.3	2.7	.2	0	0	0	126.3	8.8	7.1	0	0	.6	122.5	24.1	18.9	12.8	0	0	1.3	0	0	0	0	0
GSON-5	122.4	43.3	24.8	0	0	0	127.5	95.7	74.6	18.2	0	0	97.6	48.4	32.6	33.6	0	0	1.5	0	0	0	0	0
GSON-6	125.9	18.7	13.9	12.9	0	0	73.7	76.3	80.2	12.6	0	0	94.8	87.6	86.4	72.0	0	0	1.3	0	0	0	0	0
GSON-7	123.8	82.2	41.2	72.0	0	0	27.9	84.7	42.1	47.3	0	0	94.1	98.2	82.4	92.0	0	0	1.3	0	0	0	0	0
GSON-9	121.6	3.2	1.6	1.4	0	0	7.5	3.2	1.6	0	0	0	101.8	65.9	53.8	64.6	0	0	1.3	0	0	0	0	0
IMAGE-1	1.9	0	0	0	0	0	6.1	3.2	.5	0	0	0	117.0	67.4	55.3	21.4	0	0	105.4	55.5	38.3	44.8	0	.3
IMAGE-2	123.5	0	0	0	.9	0	8.0	92.1	91.6	8.3	0	0	115.7	94.2	88.3	62.8	0	.1	102.1	92.9	82.7	62.1	0	.1
IMAGE-3	123.9	11.3	10.8	5.5	0	0	17.8	32.4	16.9	.8	0	.1	116.1	43.7	28.4	9.7	0	0	3.0	0	0	0	0	0
IMAGE-4	124.4	9.4	2.2	6.5	0	0	83.4	44.1	38.3	14.6	0	0	112.2	78.9	75.8	63.4	0	0	104.3	77.7	73.1	75.9	0	.1
JXPATH-10	129.1	3.3	1.6	3.5	0	0	9.4	29.6	22.4	5.5	0	0	116.0	23.7	22.2	18.9	.1	0	100.9	0	0	0	0	0
JXPATH-1	128.4	6.0	4.0	0	0	0	11.2	5.7	3.9	0	0	0	107.7	63.5	76.8	80.0	0	0	3.5	0	0	0	0	0
JXPATH-2	1.5	0	0	0	0	0	19.4	49.8	42.6	32.5	0	0	113.6	75.3	74.4	65.1	0	0	100.9	21.0	17.4	20.8	0	.1
JXPATH-3	1.2	0	0	0	0	0	7.9	80.1	70.3	34.0	0	0	105.8	84.4	82.8	86.3	0	0	100.9	59.1	54.6	56.4	0	0
JXPATH-4	121.8	13.6	10.7	0	.3	0	6.7	17.9	20.5	3.2	0	0	99.1	88.7	83.0	75.0	0	0	101.0	74.8	72.2	66.3	0	0
JXPATH-5	123.8	59.2	32.0	40.4	0	0	9.7	82.7	68.0	40.4	0	0	100.7	95.6	86.6	89.6	0	0	100.0	27.7	28.0	33.3	0	0
JXPATH-6	1.5	0	0	0	0	0	124.5	31.5	15.2	10.6	0	0	114.0	54.1	48.5	51.3	.1	0	104.0	80.2	73.1	68.0	0	.2
JXPATH-7	123.2	7.7	.8	.4	0	0	125.0	0	0	0	0	0	5.5	0	0	0	0	0	163.5	53.1	38.3	22.8	0	0
JXPATH-8	123.8	24.3	28.0	0	0	0	14.3	30.4	30.6	21.2	0	0	97.7	51.6	52.4	42.7	0	0	122.4	49.7	56.2	45.3	0	.3
JXPATH-9	121.9	0	0	0	0	0	17.7	43.7	39.4	19.6	0	0	98.2	97.8	91.1	59.8	0	0	100.5	0	0	0	0	0
LA4J-10	121.7	0	0	0	0	0	15.1	40.5	22.7	18.8	0	0	102.9	94.5	92.4	70.4	0	0	108.0	94.5	92.4	76.7	0	.4
LA4J-1	125.8	81.6	78.3	31.0	0	0	30.1	87.3	89.6	3.5	0	0	120.0	88.5	77.2	55.8	0	0	128.0	91.4	86.2	68.6	0	.2
LA4J-2	121.4	0	0	0	0	0	87.6	6.1	5.2	1.1	0	0	114.1	83.9	79.1	14.7	0	0	110.0	55.9	50.3	15.2	0	0
LA4J-3	124.2	80.0	77.7	5.9	0	0	125.9	32.5	23.3	3.0	0	0	101.5	21.6	17.1	10.4	0	0	114.6	0	0	0	0	0
LA4J-4	123.9	52.2	35.8	4.8	0	0	125.1	23.8	18.1	1.0	0	0	122.1	84.4	68.1	52.3	0	0	116.8	82.7	62.1	38.8	0	.2
LA4J-5	1.2	0	0	0	0	0	124.0	23.2	22.5	1.9	0	0	119.3	51.6	42.2	24.1	0	0	151.6	47.6	42.3	14.1	0	.3
LA4J-6	121.6	0	0	0	0	0	13.2	88.4	75.0	11.1	0	0	99.3	96.1	93.3	78.7	0	0	108.7	93.5	85.0	81.4	0	.4
LA4J-7	124.1	83.9	80.3	4.7	0	0	125.6	41.1	28.7	6.7	0	0	113.8	33.4	21.7	17.5	0	0	102.9	0	0	0	0	0
LA4J-8	124.3	81.9	66.6	32.1	0	0	125.5	0	0	0	0	0	122.5	84.7	75.4	72.7	0	0	115.0	75.8	50.9	51.2	0	.2
LA4J-9	124.0	1.1	0	0	0	0	125.2	42.0	48.0	1.8	0	0	112.7	71.8	78.4	24.2	0	0	116.3	82.7	85.5	10.3	0	0
OKHTTP-1	121.4	3.3	0	0	0	0	3.2	0	0	0	0	0	86.1	15.6	8.6	6.4	0	0	102.2	5.0	2.4	1.2	0	.3
OKHTTP-2	125.9	27.2	26.6	32.3	0	0	15.5	2.2	0	0	0	0	94.3	39.0	50.0	48.0	0	0	3.2	0	0	0	0	0
OKHTTP-3	123.8	52.0	32.8	33.8	0	0	11.2	20.7	0	0	0	0	105.0	95.1	77.2	69.4	0	0	102.5	65.8	53.0	64.7	0	.2
OKHTTP-4	121.4	15.6	12.9	15.4	0	0	124.7	0	0	0	0	0	103.2	62.6	53.7	54.4	0	0	111.9	59.4	51.0	51.6	0	.1
OKHTTP-5	121.4	0	0	0	0	0	6.6	14.7	5.7	4.5	0	0	83.1	25.4	11.1	12.0	0	0	101.8	33.1	20.4	15.4	0	.3
OKHTTP-6	123.9	35.9	20.0	45.7	0	0	3.5	0	0	0	0	0	99.6	87.2	76.1	75.7	0	0	110.0	85.4	74.2	79.6	0	.2
OKHTTP-7	121.8	5.0	0	0	0	0	4.4	5.0	0	0	0	0	89.8	45.8	39.5	28.5	0	0	100.5	5.0	0	0	0	.5
OKHTTP-8	1.3	0	0	0	0	0	3.1	0	0	0	0	0	7.3	0	0	0	0	0	3.8	0	0	0	0	0
RE2J-1	122.1	12.8	6.5	5.9	0	0	14.0	27.9	18.3	0	0	0	116.0	58.5	51.4	34.3	0	0	110.5	75.5	66.3	11.8	0	.2
RE2J-2	123.6	83.9	80.6	9.4	0	.1	48.1	79.9	78.2	29.4	0	0	118.5	92.9	91.9	67.3	0	0	120.0	95.8	95.5	78.4	0	.1
RE2J-3	122.1	3.1	1.7	3.4	0	0	5.8	4.6	1.7	3.4	0	0	95.4	44.7	48.8	41.3	0	0	100.1	64.0	58.9	8.0	0	0
RE2J-4	1.4	0	0	0	0	0	4.7	0	0	0	0	0	93.9	93.0	94.7	91.1	0	0	101.2	96.5	93.0	77.7	0	0
RE2J-5	121.5	6.8	0	0	0	0	6.3	6.8	0	0	0	0	108.5	71.5	61.1	34.6	0	0	101.0	95.7	85.0	29.7	0	0
RE2J-6	121.4	0	0	0	0	0	23.4	0	0	0	0	0	103.7	58.4	56.7	50.9	0	0	106.1	92.4	82.0	41.6	0	.1
RE2J-7	122.9	32.3	20.1	12.9	0	0	13.3	10.3	4.2	0	0	0	118.7	65.8	53.2	40.1	0	0	106.4	33.9	24.9	16.3	0	.3
RE2J-8	122.2	93.3	85.7	5.3	0	0	65.5	95.0	88.4	4.1	0	0	112.9	98.0	92.8	75.6	0	0	104.1	95.9	93.5	30.1	0	0

TABLE XII

AVERAGED RESULTS FOR 3 RUNS ON 4 MINUTES TIME BUDGET

CUT	Randoop						T3						Evosuite						jTexPert					
	gen_t	cov_i	cov_b	cov_m	U	B	gen_t	cov_i	cov_b	cov_m	U	B	gen_t	cov_i	cov_b	cov_m	U	B	gen_t	cov_i	cov_b	cov_m	U	B
BCEL-10	241.7	0	0	0	0	0	42.6	72.2	65.2	0	0	0	167.3	75.6	71.2	62.2	0	0	199.1	71.7	64.3	61.7	0	.3
BCEL-1	1.5	0	0	0	0	0	162.1	2.6	3.4	0	0	0	190.7	17.4	17.2	16.7	0	0	3.8	0	0	0	0	0
BCEL-2	248.9	3.5	0	0	0	0	5.8	0	0	0	0	0	232.9	7.2	1.9	1.2	0	0	216.6	6.4	2.3	.5	0	.4
BCEL-3	246.0	83.3	69.9	0	0	0	95.3	79.7	73.8	0	0	0	225.9	88.2	78.5	44.3	0	0	202.3	86.9	74.2	71.3	0	.2
BCEL-4	248.6	60.0	54.3	14.4	0	0	245.4	48.8	40.1	8.1	0	0	233.7	90.4	80.9	59.8	0	0	3.6	0	0	0	0	0
BCEL-5	244.5	4.1	0	1.4	0	0	4.6	0	0	0	0	0	178.3	66.3	53.7	50.7	0	0	198.2	4.1	0	1.4	0	.1
BCEL-6	244.6	72.5	55.5	70.0	0	0	22.0	82.7	79.0	46.6	0	0	233.0	77.9	68.5	76.6	0	0	198.4	75.8	57.4	70.6	0	.1
BCEL-7	242.3	28.4	15.5	19.0	0	0	5.8	0	0	0	0	0	233.7	88.0	65.1	65.0	0	0	2.8	0	0	0	0	0
BCEL-8	1.5	0	0	0	0	0	15.5	44.2	25.0	22.9	0	0	188.8	98.9	97.2	94.7	0	0	200.1	83.6	77.7	81.2	0	.1
BCEL-9	243.1	55.2	47.7	28.9	0	0	91.4	64.0	62.9	23.0	0	0	152.6	23.8	23.1	17.5	0	0	209.0	85.8	78.0	59.6	0	.4
FREEHEP-10	246.2	91.1	79.1	47.9	0	0	55.2	91.1	79.1	2.6	0	0	183.0	99.8	93.9	72.6	0	0	249.6	63.5	60.1	43.7	0	.4
FREEHEP-1	244.6	4.9	2.5	2.0	0	0	11.6	4.9	3.4	.8	0	0	217.5	99.1	92.5	40.2	0	0	206.6	45.4	29.8	2.2	0	.1
FREEHEP-2	1.8	0	0	0	0	0	2.5	0	0	0	0	0	188.8	98.7	96.0	7.3	0	0	202.8	10.5	4.2	0	0	.5
FREEHEP-3	272.5	3.6	0	0	0	0	10.5	3.6	0	0	0	0	217.4	94.5	86.6	16.1	0	0	213.7	13.4	3.5	0	0	.4
FREEHEP-4	481.0	0	0	0	0	0	245.5	0	0	0	0	0	226.9	80.8	79.3	31.7	0	0	205.6	37.9	38.6	10.2	0	.2
FREEHEP-5	245.0	70.4	46.6	0	0	0	244.4	18.9	10.0	3.9	0	.2	196.8	87.2	67.2	53.3	0	0	254.5	63.8	42.4	38.7	0	.2
FREEHEP-6	241.6	2.0	0	0	0	0	4.8	2.0	0	0	0	0	173.7	95.1	88.2	50.0	0	0	203.4	7.2	1.2	0	0	.6
FREEHEP-7	250.6	14.2	2.0	4.7	0	0	14.6	14.2	2.0	0	0	0	221.3	92.3	94.4	61.4	0	0	210.6	13.4	2.0	2.3	0	.3
FREEHEP-8	2.3	0	0	0	0	0	3.5	0	0	0	0	0	227.5	84.6	81.0	54.3	0	0	208.0	59.9	51.8	38.6	0	.1
FREEHEP-9	244.2	9.9	1.3	0	0	0	8.2	9.9	1.3	0	0	0	222.6	53.1	49.0	16.6	0	0	210.5	12.9	6.7	0	0	.5
GSON-10	247.9	35.9	9.7	11.6	0	0	11.1	35.9	9.7	2.5	0	0	168.9	79.7	61.7	52.3	0	0	1.3	0	0	0	0	0
GSON-1	241.8	9.5	0	0	0	0	6.8	9.5	0	0	0	0	160.0	83.0	70.3	65.7	0	0	1.3	0	0	0	0	0
GSON-2	244.4	49.4	29.6	0	0	0	245.6	62.5	46.2	28.0	0	0	181.7	53.2	36.6	36.3	0	0	1.4	0	0	0	0	0
GSON-3	245.6	86.5	83.7	61.6	0	0	14.2	82.9	68.3	21.8	0	0	175.5	94.3	82.9	82.3	0	0	1.3	0	0	0	0	0
GSON-4	241.6	2.7	.2	0	0	0	248.2	27.1	23.0	6.0	0	.5	248.8	33.0	27.4	19.4	0	0	1.4	0	0	0	0	0
GSON-5	245.3	44.2	25.5	0	0	0	245.9	95.7	74.6	44.9	0	0	186.3	50.8	38.6	37.6	0	0	1.4	0	0	0	0	0
GSON-6	245.5	18.7	13.9	12.9	0	0	55.9	76.3	80.2	13.7	0	0	190.1	84.8	86.4	61.8	0	0	1.3	0	0	0	0	0
GSON-7	242.9	84.0	42.1	72.0	0	0	22.5	84.0	38.5	51.3	0	0	164.5	98.5	83.3	92.6	0	0	1.5	0	0	0	0	0
GSON-9	241.4	3.2	1.6	1.4	0	0	6.7	3.2	1.6	0	0	0	162.2	58.4	46.6	58.7	0	0	1.3	0	0	0	0	0
IMAGE-1	1.6	0	0	0	0	0	6.3	3.2	.5	0	0	0	209.0	64.8	53.3	28.0	0	0	202.7	56.2	38.8	46.7	0	.2
IMAGE-2	243.6	0	0	0	1.0	0	9.0	92.1	91.6	8.3	0	0	194.2	94.7	87.7	72.2	0	0	199.1	93.4	82.7	61.4	0	.1
IMAGE-3	246.4	11.3	10.8	5.8	0	0	18.3	32.7	17.0	.8	0	.1	222.2	35.0	26.7	14.4	0	0	3.0	0	0	0	0	0
IMAGE-4	248.3	9.4	2.2	6.5	0	0	74.4	0	0	0	0	0	189.9	81.5	79.3	55.4	0	0	199.2	77.2	72.6	75.0	0	.1
JXPATH-10	253.9	3.3	1.6	3.5	0	0	9.2	27.1	20.8	6.2	0	0	217.6	60.5	52.1	39.5	0	0	196.6	0	0	0	0	0
JXPATH-1	255.9	6.0	4.0	0	0	0	10.3	5.7	3.9	0	0	0	192.1	64.2	77.5	68.3	0	0	3.9	0	0	0	0	0
JXPATH-2	1.5	0	0	0	0	0	20.9	50.4	43.7	30.3	0	0	209.0	71.7	70.9	62.5	0	0	197.3	20.7	18.2	20.4	0	0
JXPATH-3	1.5	0	0	0	0	0	9.7	77.4	70.3	40.1	0	0	186.9	84.9	83.3	84.3	0	0	197.5	59.1	56.7	54.4	0	0
JXPATH-4	241.5	13.6	10.7	0	.3	0	7.3	17.9	20.5	3.2	0	0	164.3	91.3	85.2	78.2	0	0	198.1	75.2	72.8	66.6	0	0
JXPATH-5	244.2	59.2	32.0	40.4	0	0	9.0	84.5	71.3	44.4	0	0	164.8	96.2	88.0	88.0	0	0	196.1	27.7	28.0	33.3	0	0
JXPATH-6	1.4	0	0	0	0	0	244.5	25.6	24.6	22.0	0	0	211.1	81.9	84.7	82.6	0	0	199.9	81.2	73.9	68.0	0	.2
JXPATH-7	245.2	7.7	.8	.5	0	0	245.1	0	0	0	0	0	5.4	0	0	0	0	0	333.0	61.6	48.4	17.8	.1	0
JXPATH-8	244.8	24.3	28.0	0	0	0	15.2	29.8	30.4	20.8	0	0	173.3	62.8	63.5	53.5	0	0	222.2	50.0	56.4	46.9	0	.3
JXPATH-9	241.4	0	0	0	0	0	17.2	42.6	38.0	21.3	0	0	187.7	91.9	85.3	55.7	0	0	197.1	0	0	0	0	0
LA4J-10	241.7	0	0	0	0	0	6.6	44.1	25.7	18.8	0	0	168.9	94.5	92.4	77.3	0	0	205.1	97.2	95.4	72.3	0	.4
LA4J-1	245.5	83.8	81.7	36.6	0	0	30.9	87.3	89.6	5.5	0	0	232.1	87.3	77.5	64.7	0	0	225.4	92.4	89.9	69.9	0	.2
LA4J-2	241.9	0	0	0	0	0	175.2	6.1	5.2	.9	0	0	217.8	85.0	81.3	10.2	0	0	213.3	80.6	75.0	11.8	0	0
LA4J-3	246.5	79.0	75.5	5.7	0	0	245.2	37.9	28.4	3.2	0	0	208.8	48.3	38.8	27.0	0	0	202.9	0	0	0	0	0
LA4J-4	247.8	78.4	53.5	9.2	0	0	246.3	0	0	0	0	0	242.2	84.1	71.7	52.9	0	0	220.9	26.4	18.6	15.8	0	.2
LA4J-5	1.4	0	0	0	0	0	246.9	21.7	21.9	3.8	0	0	244.0	60.2	54.4	34.0	0	0	264.8	47.8	44.6	13.6	0	.3
LA4J-6	241.7	0	0	0	0	0	12.2	88.4	75.0	13.8	0	0	171.8	96.1	95.0	67.5	0	0	205.1	96.1	90.0	72.2	0	.4
LA4J-7	244.6	56.6	54.7	2.0	0	0	245.5	51.1	37.7	4.3	0	0	163.5	0	0	0	0	0	214.1	26.0	23.0	10.4	0	.3
LA4J-8	245.1	84.7	72.0	29.0	0	0	242.7	23.4	17.1	1.8	0	0	242.4	90.1	80.8	82.7	0	0	206.7	55.8	40.1	39.6	0	.1
LA4J-9	244.6	1.1	0	0	0	0	286.7	37.3	43.2	2.4	0	0	199.6	76.7	76.9	27.9	0	0	224.1	97.2	92.5	8.6	0	0
OKHTTP-1	241.5	3.3	0	0	0	0	2.8	0	0	0	0	0	161.4	16.9	14.4	10.4	0	0	197.7	5.0	2.4	.9	0	.4
OKHTTP-2	245.8	27.2	26.6	32.3	0	0	17.0	2.2	0	0	0	0	167.2	39.0	50.0	49.0	0	0	3.1	0	0	0	0	0
OKHTTP-3	245.3	52.0	32.8	36.6	0	0	8.9	20.7	0	0	0	0	173.0	85.7	74.7	68.0	0	0	198.2	65.8	53.0	64.7	0	.2
OKHTTP-4	241.8	15.6	12.9	15.4	0	0	245.2	1.6	0	0	0	0	176.0	64.6	55.9	55.3	0	0	203.7	57.8	49.9	53.9	0	.1
OKHTTP-5	241.7	0	0	0	0	0	5.8	25.6	15.0	9.3	0	0	162.7	39.9	23.8	19.0	0	0	197.2	40.1	26.7	23.5	0	.2
OKHTTP-6	242.7	35.9	20.0	45.7	0	0	2.6	0	0	0	0	0	178.5	89.8	83.3	80.2	0	0	208.8	87.2	76.6	81.3	0	.1
OKHTTP-7	241.4	5.0	0	0	0	0	4.3	5.0	0	0	0	0	157.9	47.5	42.7	34.3	0	0	196.6	5.0	0	0	0	.5
OKHTTP-8	1.4	0	0	0	0	0	3.0	0	0	0	0	0	6.6	0	0	0	0	0	4.0	0	0	0	0	0
RE2J-1	241.6	12.8	6.5	5.9	0	0	15.4	27.7	18.0	0	0	0	220.5	66.9	59.9	43.8	0	0	203.2	76.5	67.9	12.9	0	.2
RE2J-2	262.4	90.9	89.8	.3	0	.1	50.0	79.9	77.9	28.1	0	0	236.7	94.6	94.0	69.6	0	0	216.6	95.8	96.1	80.0	0	.1
RE2J-3	241.7	3.1	1.7	3.4	0	0	5.9	4.6	1.7	3.4	0	0	198.6	44.2	48.8	43.6	0	0	196.3	64.5	60.1	12.0	0	0
RE2J-4	1.3	0	0	0	0	0	6.2	0	0	0	0	0	165.4	93.4	95.1	92.0	0	0	197.0	96.5	93.0	77.7	0	0
RE2J-5	241.3	6.8	0	0	0	0	7.5	6.8	0	0	0	0	199.5	73.7	65.8	36.8	0	0	197.7	95.7	84.7	27.5	0	0
RE2J-6	242.1	0	0	0	0	0	15.5	0	0	0	0	0	172.4	88.2	83.7	69.2	0	0	199.4	93.2	82.9	41.3	0	.1
RE2J-7	244.2	30.4	18.2	12.0	0	0	11.5	10.3	4.2	0	0	0	226.5	58.5	48.1	39.1	0	0	203.2	35.5	26.6	17.9	0	.3
RE2J-8	244.0	94.4	89.1	5.3	0	0	47.3	95.5	90.1	4.1	0	0	212.9	97.7	91.4	81.0	0	0	200.1	96.0	94.2	33.1	0	.1

TABLE XIII
AVERAGED RESULTS FOR 3 RUNS ON 5 MINUTES TIME BUDGET

	Randoop						T3						Evosuite						jTexPert					
CUT	gen_t	cov_i	cov_b	cov_m	U	B	gen_t	cov_i	cov_b	cov_m	U	B	gen_t	cov_i	cov_b	cov_m	U	B	gen_t	cov_i	cov_b	cov_m	U	B
BCEL–10	301.8	0	0	0	0	0	39.8	72.2	65.2	0	0	0	205.9	78.1	76.3	68.8	0	0	247.0	73.3	65.2	60.8	0	.3
BCEL–1	1.4	0	0	0	0	0	204.9	2.6	3.4	0	0	0	230.1	0	0	0	0	0	3.3	0	0	0	0	0
BCEL–2	308.0	3.5	0	0	0	0	5.1	0	0	0	0	0	282.2	7.9	2.4	1.5	0	0	265.7	5.7	1.7	.2	0	.4
BCEL–3	308.5	83.3	69.9	0	0	0	93.0	76.7	72.3	0	0	0	281.9	87.2	79.7	49.6	0	0	250.9	87.3	75.2	72.1	0	.2
BCEL–4	304.9	62.5	56.9	10.1	0	0	305.5	44.2	36.0	5.0	0	0	290.7	91.8	82.6	62.1	0	0	3.6	0	0	0	0	0
BCEL–5	307.5	4.1	0	1.4	0	0	5.8	0	0	0	0	0	198.2	42.7	31.9	32.3	0	0	246.0	4.1	0	1.4	0	.2
BCEL–6	303.0	72.5	55.5	70.0	0	0	19.9	83.8	83.3	44.0	0	0	277.4	76.3	68.5	76.0	0	0	246.0	75.8	57.4	69.3	0	.1
BCEL–7	302.4	28.4	15.5	19.0	0	0	6.0	0	0	0	0	0	186.7	29.8	21.4	14.2	0	0	2.6	0	0	0	0	0
BCEL–8	1.4	0	0	0	0	0	13.8	42.0	25.0	17.7	0	0	226.5	97.2	93.0	92.7	0	0	247.5	84.6	79.1	81.2	0	.1
BCEL–9	302.5	55.5	49.6	26.6	0	0	81.7	63.3	62.2	16.0	0	0	138.3	0	0	0	0	0	262.6	86.5	81.1	64.0	0	.4
FREEHEP–10	310.4	91.1	79.1	50.5	0	0	55.0	91.1	79.1	2.0	0	0	228.0	100.0	95.8	78.2	0	0	325.2	64.1	60.6	36.9	0	.4
FREEHEP–1	305.9	4.9	2.5	1.4	0	0	12.7	4.9	3.4	.8	0	0	270.8	100.0	93.3	38.2	0	0	251.8	32.5	24.4	8.6	0	0
FREEHEP–2	1.4	0	0	0	0	0	2.5	0	0	0	0	0	225.8	99.0	96.8	7.6	0	0	252.6	10.5	4.2	0	0	.5
FREEHEP–3	342.8	3.6	0	0	0	0	10.6	3.6	0	0	0	0	250.0	91.6	81.6	19.1	0	0	258.2	13.3	3.1	0	0	.6
FREEHEP–4	501.7	19.8	20.6	0	0	0	305.5	0	0	0	0	0	293.0	70.8	70.8	28.9	0	0	249.6	18.9	19.3	8.6	.3	.1
FREEHEP–5	304.9	74.6	53.6	0	0	0	303.0	40.4	21.5	8.8	0	.2	244.3	89.3	72.4	53.3	0	0	304.2	65.5	45.1	37.5	0	.2
FREEHEP–6	302.0	2.0	0	0	0	0	5.7	2.0	0	0	0	0	213.9	95.1	89.5	41.3	0	0	255.0	12.3	2.4	0	0	.4
FREEHEP–7	309.5	14.2	2.0	4.7	0	0	16.7	14.2	2.0	0	0	0	281.2	96.0	99.3	47.5	0	.1	253.4	13.4	2.0	2.3	0	.3
FREEHEP–8	1.2	0	0	0	0	0	3.6	0	0	0	0	0	266.8	89.3	86.1	43.1	0	0	257.6	61.5	52.7	40.3	0	.1
FREEHEP–9	303.6	9.9	1.3	0	0	0	9.8	9.9	1.3	0	0	0	235.9	41.4	29.7	15.8	0	0	260.5	13.5	7.6	0	0	.4
GSON–10	303.6	35.9	9.7	11.6	0	0	9.9	35.9	9.7	2.5	0	0	222.1	80.1	62.1	53.6	0	0	1.3	0	0	0	0	0
GSON–1	301.5	9.5	0	0	0	0	8.7	9.5	0	0	0	.1	202.4	83.0	70.3	65.7	0	0	1.3	0	0	0	0	0
GSON–2	303.7	41.0	23.7	0	0	0	306.7	60.2	45.4	37.6	0	0	231.1	55.1	37.0	37.1	0	0	1.4	0	0	0	0	0
GSON–3	304.9	86.5	83.7	63.6	0	0	18.1	82.9	68.3	21.8	0	0	202.3	94.7	85.4	83.5	0	0	1.3	0	0	0	0	0
GSON–4	301.5	2.7	.2	0	0	0	204.1	28.8	25.7	.4	0	.5	312.6	46.5	41.6	17.1	0	0	1.3	0	0	0	0	0
GSON–5	303.7	44.2	26.0	0	0	0	309.8	95.7	74.6	55.6	0	0	215.3	53.5	40.4	40.2	0	0	1.3	0	0	0	0	0
GSON–6	305.1	18.7	13.9	12.9	0	0	56.0	76.3	80.2	12.6	0	0	203.7	91.7	91.8	74.1	0	0	1.3	0	0	0	0	0
GSON–7	304.1	84.0	42.1	70.6	0	0	28.3	82.6	38.5	48.0	0	0	209.2	98.2	82.4	91.3	0	0	1.3	0	0	0	0	0
GSON–9	301.6	3.2	1.6	1.4	0	0	8.2	3.2	1.6	0	0	0	223.2	55.5	39.9	53.7	0	0	1.5	0	0	0	0	0
IMAGE–1	1.6	0	0	0	0	0	6.4	3.2	.5	0	0	0	268.4	62.7	49.8	32.0	0	0	250.2	56.2	38.8	47.0	0	.2
IMAGE–2	304.6	0	0	0	1.0	0	7.6	92.1	91.6	8.3	0	0	250.1	94.7	91.6	72.5	0	0	247.3	92.9	83.8	63.1	0	.1
IMAGE–3	306.9	11.3	10.8	5.8	0	0	16.8	32.5	17.0	.8	0	0	278.7	51.8	39.0	18.0	0	0	3.3	0	0	0	0	0
IMAGE–4	311.7	9.4	2.2	6.5	0	.1	127.8	0	0	0	0	0	228.8	80.5	77.8	64.1	0	0	248.5	77.7	72.6	75.9	0	.1
JXPATH–10	312.1	3.3	1.6	3.5	0	0	10.3	27.7	21.1	8.2	0	0	259.4	52.2	48.1	35.3	0	0	244.5	0	0	0	0	0
JXPATH–1	314.3	6.0	4.0	0	0	0	8.5	5.7	3.9	0	0	0	232.5	63.3	76.8	66.6	0	0	3.2	0	0	0	0	0
JXPATH–2	1.5	0	0	0	0	0	11.1	49.8	43.0	33.3	0	0	244.9	78.3	77.9	68.1	0	0	245.1	21.0	17.4	20.0	0	.1
JXPATH–3	1.3	0	0	0	0	0	7.7	74.1	67.7	44.8	0	0	246.1	87.0	86.9	93.1	0	0	245.1	59.6	56.2	55.1	0	0
JXPATH–4	301.6	13.6	10.7	0	.3	0	7.7	17.9	20.5	3.2	0	0	193.8	95.9	89.5	82.6	0	0	245.0	75.5	72.8	66.3	0	0
JXPATH–5	304.5	59.2	32.0	40.4	0	0	10.6	80.8	66.6	42.8	0	0	219.3	96.9	88.6	90.4	0	0	244.1	27.7	28.0	33.3	0	0
JXPATH–6	1.6	0	0	0	0	0	304.7	34.7	28.9	27.3	0	0	263.9	82.6	83.3	86.6	0	0	248.1	81.2	73.9	68.0	0	.2
JXPATH–7	304.6	7.7	.8	.4	0	0	306.8	2.7	.2	0	0	.2	7.1	0	0	0	0	0	329.7	63.9	51.1	27.8	0	0
JXPATH–8	305.2	24.3	28.0	0	0	0	16.8	30.4	30.6	20.3	0	0	199.9	58.4	60.4	49.5	0	0	275.0	50.6	57.3	45.6	0	.3
JXPATH–9	301.4	0	0	0	0	0	18.7	42.4	37.7	24.5	0	0	204.6	94.1	88.0	54.3	0	0	244.3	0	0	0	0	0
LA4J–10	301.7	0	0	0	0	0	7.1	44.1	25.7	18.8	0	0	217.7	94.5	92.4	69.1	0	0	252.1	95.4	92.4	83.0	0	.4
LA4J–1	304.5	83.8	81.7	32.3	0	0	30.9	87.3	89.6	4.5	0	0	286.7	94.2	87.0	74.5	0	0	275.3	61.4	60.0	50.3	.1	.1
LA4J–2	301.4	0	0	0	0	0	116.4	5.9	5.1	.8	0	0	238.7	78.0	75.9	17.0	0	0	264.8	80.6	75.6	15.0	0	0
LA4J–3	305.7	78.3	74.6	6.5	0	0	305.7	19.0	12.5	4.7	0	0	195.1	0	0	0	0	0	247.0	0	0	0	0	0
LA4J–4	304.3	78.4	54.5	6.9	0	0	305.2	0	0	0	0	0	296.8	89.0	77.7	43.8	0	0	260.1	27.2	21.2	7.3	0	.2
LA4J–5	1.5	0	0	0	0	0	306.1	0	0	0	0	0	304.4	57.8	52.0	20.3	0	0	362.7	50.0	45.2	13.7	.1	.3
LA4J–6	301.5	0	0	0	0	0	119.6	88.4	75.0	11.1	0	0	208.6	96.1	93.3	62.9	0	0	254.6	96.1	90.0	75.0	0	.4
LA4J–7	304.8	27.8	26.8	2.0	0	0	304.7	55.1	40.9	6.4	0	0	198.2	0	0	0	0	0	254.2	0	0	0	0	0
LA4J–8	304.5	78.7	58.8	28.7	0	0	305.0	26.6	20.5	0	0	0	293.2	86.3	76.9	78.7	0	0	246.5	0	0	0	0	0
LA4J–9	304.7	1.1	0	0	0	0	479.9	37.8	44.3	2.4	0	0	217.5	85.1	84.7	29.3	0	0	275.3	99.8	94.0	9.1	0	0
OKHTTP–1	301.4	3.3	0	0	0	0	2.8	0	0	0	0	0	196.4	19.3	17.7	8.0	0	0	245.8	5.0	2.4	.9	0	.3
OKHTTP–2	306.4	27.2	26.6	32.3	0	0	16.9	2.2	0	0	0	0	341.2	26.5	33.3	32.3	0	0	3.0	0	0	0	0	0
OKHTTP–3	305.7	52.0	32.8	36.6	0	0	9.0	20.7	0	0	0	0	204.0	90.2	76.7	68.5	0	0	248.5	65.8	53.0	64.7	0	.2
OKHTTP–4	301.6	15.6	12.9	15.4	0	0	304.4	0	0	0	0	0	204.7	65.0	56.4	55.8	0	0	249.8	57.8	49.9	53.9	0	.1
OKHTTP–5	301.4	0	0	0	0	0	5.0	12.3	3.9	2.5	0	0	196.8	27.5	12.6	11.8	0	0	245.5	50.4	36.5	28.6	0	.1
OKHTTP–6	302.7	35.9	20.0	45.7	0	0	2.6	0	0	0	0	0	204.3	91.4	83.3	83.6	0	0	257.6	87.7	78.0	83.0	0	.2
OKHTTP–7	301.3	5.0	0	0	0	0	3.3	5.0	0	0	0	0	194.1	24.5	26.0	12.6	.1	0	244.6	5.0	0	0	0	.5
OKHTTP–8	1.4	0	0	0	0	0	3.2	0	0	0	0	0	5.7	0	0	0	0	0	3.9	0	0	0	0	0
RE2J–1	301.6	12.8	6.5	5.9	0	0	12.6	24.8	15.5	0	0	0	263.7	68.5	60.5	42.8	0	0	167.1	51.5	45.1	12.8	0	.2
RE2J–2	302.4	90.9	89.8	.9	0	.1	45.6	80.1	78.5	37.9	0	0	273.4	95.0	95.2	65.6	0	0	264.9	95.8	96.1	73.2	0	.1
RE2J–3	301.5	3.1	1.7	3.4	0	0	6.0	4.6	1.7	3.4	0	0	222.4	41.6	50.0	43.6	0	0	244.3	65.6	62.5	7.4	0	0
RE2J–4	1.8	0	0	0	0	0	4.7	0	0	0	0	0	205.7	93.7	95.4	89.4	0	0	246.2	96.5	92.7	76.3	0	0
RE2J–5	301.8	6.8	0	0	0	0	6.3	6.8	0	0	0	0	249.4	62.9	58.0	29.4	0	0	245.6	95.7	85.0	30.0	0	0
RE2J–6	301.3	0	0	0	0	0	18.1	0	0	0	0	0	230.2	88.4	84.2	68.9	0	0	246.5	92.2	82.0	43.2	0	0
RE2J–7	304.0	32.3	20.1	12.9	0	0	16.8	10.3	4.2	0	0	0	263.1	38.2	31.3	27.4	0	0	250.1	35.7	27.1	17.9	0	.3
RE2J–8	304.8	94.1	88.7	5.3	0	0	53.1	95.0	88.7	4.3	0	0	256.1	97.2	92.8	75.6	0	0	251.9	96.0	94.2	27.7	0	.1

TABLE XIV
AVERAGED RESULTS FOR 3 RUNS ON 8 MINUTES TIME BUDGET

CUT	Randoop gen_t	cov_i	cov_b	cov_m	U	B	T3 gen_t	cov_i	cov_b	cov_m	U	B	Evosuite gen_t	cov_i	cov_b	cov_m	U	B	jTexPert gen_t	cov_i	cov_b	cov_m	U	B
BCEL-10	481.5	0	0	0	0	0	47.0	72.2	65.2	0	0	0	316.4	79.2	77.3	65.3	0	0	390.6	73.6	66.2	62.2	0	.3
BCEL-1	2.2	0	0	0	0	0	0	0	0	0	0	0	193.9	0	0	0	0	0	3.1	0	0	0	0	0
BCEL-2	487.9	3.5	0	0	0	0	9.8	0	0	0	0	0	400.6	7.9	2.1	1.5	0	0	400.5	7.0	3.5	.9	0	.4
BCEL-3	486.8	83.5	70.7	0	0	0	116.4	80.9	74.0	0	0	0	346.2	57.3	52.8	53.5	0	0	395.4	88.6	77.6	74.0	0	.2
BCEL-4	489.2	59.8	54.4	16.3	0	0	485.2	48.4	41.0	6.4	0	0	460.3	92.4	84.6	81.9	0	0	3.7	0	0	0	0	0
BCEL-5	485.5	4.1	0	1.4	0	0	9.5	0	0	0	0	0	316.2	66.3	51.8	48.3	0	0	390.2	4.1	0	1.4	0	.1
BCEL-6	484.0	72.5	55.5	70.0	0	0	34.5	83.8	82.7	46.6	0	0	452.6	77.9	68.5	78.0	0	0	390.8	50.5	38.2	46.6	.1	0
BCEL-7	482.6	28.4	15.5	19.0	0	0	8.8	0	0	0	0	0	436.4	91.9	71.8	50.7	0	0	2.6	0	0	0	0	0
BCEL-8	1.3	0	0	0	0	0	13.6	62.8	37.5	39.5	0	.1	322.5	97.8	94.4	94.7	0	0	391.3	84.1	77.7	78.1	0	.1
BCEL-9	483.6	55.5	49.8	26.9	0	0	85.9	63.4	62.7	22.5	0	0	189.0	0	0	0	0	0	405.4	90.4	82.3	68.4	0	.4
FREEHEP-10	494.3	91.1	79.1	47.6	0	0	80.4	91.1	79.1	2.9	0	0	335.7	100.0	95.8	77.0	0	0	447.6	66.0	64.8	43.7	0	0
FREEHEP-1	486.5	4.9	2.5	2.0	0	0	8.9	4.9	3.4	.8	0	0	407.8	99.5	93.3	37.9	0	0	399.0	4.9	2.2	1.4	0	0
FREEHEP-2	1.4	0	0	0	0	0	4.9	0	0	0	0	0	327.4	98.7	96.4	7.1	0	0	405.9	10.5	4.2	0	0	.5
FREEHEP-3	527.3	1.2	0	0	0	0	18.7	3.6	0	0	0	0	338.1	94.6	87.0	21.4	0	0	406.2	8.6	1.8	0	0	.7
FREEHEP-4	961.0	0	0	0	0	0	484.3	0	0	0	0	0	424.0	88.0	84.6	34.3	0	0	399.0	37.9	38.8	5.4	0	.1
FREEHEP-5	486.1	75.5	56.9	0	0	0	483.6	56.7	29.0	20.0	0	.2	397.9	90.4	75.1	56.2	0	0	448.0	68.8	48.1	35.5	0	.2
FREEHEP-6	481.8	2.0	0	0	0	0	3.8	2.0	0	0	0	0	316.5	94.5	89.5	46.0	0	0	395.3	2.0	0	0	0	.8
FREEHEP-7	488.8	14.2	2.0	4.7	0	0	11.0	14.2	2.0	0	0	0	379.5	91.2	93.7	45.9	0	0	398.9	14.2	1.3	2.3	0	.3
FREEHEP-8	1.5	0	0	0	0	0	2.6	0	0	0	0	0	425.8	92.3	91.2	65.8	0	0	409.3	64.1	55.5	45.2	0	.1
FREEHEP-9	484.6	9.9	1.3	0	0	0	6.9	9.9	1.3	0	0	0	556.2	42.6	33.7	16.2	0	0	412.2	13.5	7.6	0	0	.4
GSON-10	484.0	35.9	9.7	11.2	0	0	17.3	35.9	9.7	2.5	0	0	306.1	79.7	62.1	55.4	0	0	1.3	0	0	0	0	0
GSON-1	481.6	9.5	0	0	0	0	8.8	9.5	0	0	0	0	306.1	83.0	70.3	63.8	0	0	1.3	0	0	0	0	0
GSON-2	485.1	41.3	23.7	0	0	0	488.0	63.1	47.8	31.0	0	0	323.0	57.8	39.6	42.0	0	0	1.3	0	0	0	0	0
GSON-3	485.1	86.5	82.9	60.5	0	0	23.2	82.9	68.7	21.8	0	0	311.6	95.1	88.3	77.7	0	0	1.3	0	0	0	0	0
GSON-4	481.8	2.7	.2	0	0	0	324.9	34.2	30.6	4.1	0	.5	466.4	51.0	46.7	34.1	0	0	1.3	0	0	0	0	0
GSON-5	485.1	44.2	25.7	0	0	0	486.1	95.7	74.6	32.1	0	0	351.5	66.4	50.6	44.3	0	0	1.3	0	0	0	0	0
GSON-6	484.7	18.7	13.9	12.9	0	0	56.8	76.3	79.8	10.4	0	0	322.9	95.3	91.8	76.6	0	0	1.4	0	0	0	0	0
GSON-7	484.0	82.2	41.2	71.3	0	0	22.4	84.3	40.3	46.6	0	0	309.9	97.8	81.5	91.3	0	0	1.5	0	0	0	0	0
GSON-9	481.5	3.2	1.6	1.4	0	0	6.9	3.2	1.6	0	0	0	315.7	62.0	48.3	60.1	0	0	1.3	0	0	0	0	0
IMAGE-1	1.3	0	0	0	0	0	11.2	3.2	.5	0	0	0	394.1	70.1	57.0	36.4	0	0	395.5	56.2	38.8	34.5	0	.2
IMAGE-2	483.8	0	0	0	1.0	0	8.4	92.1	91.6	8.3	0	0	372.8	95.6	96.1	72.9	0	0	390.1	62.2	59.4	41.3	0	.1
IMAGE-3	490.8	11.3	10.8	5.8	0	0	19.3	32.8	17.2	.8	0	.1	424.3	58.3	44.3	21.3	0	0	3.3	0	0	0	0	0
IMAGE-4	497.2	9.4	2.2	6.5	0	0	204.5	24.7	22.1	0	0	0	330.8	79.9	77.8	71.3	0	0	394.6	77.6	72.3	75.7	0	.1
JXPATH-10	487.3	3.3	1.6	3.5	0	0	8.9	30.1	22.2	6.5	0	0	408.3	55.3	48.0	42.6	0	0	388.5	0	0	0	0	0
JXPATH-1	494.3	6.0	4.0	0	0	0	14.0	5.7	3.9	0	0	0	344.2	63.8	77.4	67.2	0	0	3.3	0	0	0	0	0
JXPATH-2	1.5	0	0	0	0	0	27.3	48.6	42.6	32.1	0	0	370.1	73.8	73.6	62.8	0	0	389.1	21.0	17.4	19.6	0	0
JXPATH-3	1.2	0	0	0	0	0	7.2	77.9	69.7	44.2	0	0	360.8	90.3	90.1	89.1	0	0	389.5	59.6	57.8	55.1	0	0
JXPATH-4	481.7	13.6	10.7	0	.3	0	10.5	17.9	20.5	3.2	0	0	297.2	94.4	87.5	83.6	0	0	389.0	75.5	73.2	67.0	0	0
JXPATH-5	484.9	59.2	32.0	40.4	0	0	17.7	82.7	68.6	40.4	0	0	309.5	97.5	93.3	95.2	0	0	388.0	27.7	28.0	33.3	0	0
JXPATH-6	1.2	0	0	0	0	0	485.0	53.8	41.3	21.3	0	0	369.5	81.9	83.3	78.6	0	0	393.8	81.2	73.9	65.3	0	.3
JXPATH-7	483.4	7.7	.8	.5	0	0	485.8	8.2	2.0	1.4	0	.2	5.9	0	0	0	0	0	502.2	66.2	55.1	21.7	0	.1
JXPATH-8	488.1	24.3	28.0	0	0	0	19.3	30.4	30.6	22.5	0	0	319.1	64.9	67.3	56.5	0	0	420.7	50.8	57.7	48.6	0	.3
JXPATH-9	481.3	0	0	0	0	0	22.1	43.0	38.7	15.8	0	0	336.1	97.1	91.8	63.1	0	0	388.2	0	0	0	0	0
LA4J-10	481.7	0	0	0	0	0	13.4	40.5	22.7	18.8	0	0	326.5	94.5	92.4	69.1	0	0	399.0	97.2	95.4	82.3	0	.4
LA4J-1	483.5	79.1	74.0	31.0	0	0	32.9	87.0	89.4	5.5	0	0	453.2	91.2	79.8	55.8	0	0	420.2	61.2	57.4	45.4	0	.2
LA4J-2	481.6	0	0	0	0	0	376.9	6.1	5.2	.9	0	0	367.9	79.3	78.0	17.8	0	0	416.7	86.6	79.5	9.5	0	0
LA4J-3	486.0	79.3	76.0	10.3	0	0	486.5	20.1	15.7	.6	0	0	348.9	24.4	20.3	7.1	0	0	404.0	0	0	0	0	0
LA4J-4	485.6	77.5	53.5	13.0	0	0	488.2	22.9	15.6	2.3	0	0	453.2	91.3	80.8	58.4	0	0	408.1	83.6	60.6	35.2	0	.2
LA4J-5	1.7	0	0	0	0	0	487.4	12.7	14.4	1.1	0	0	476.2	46.9	44.4	27.2	0	0	467.9	0	0	0	.9	
LA4J-6	481.6	0	0	0	0	0	35.1	88.4	75.0	11.1	0	0	328.3	93.5	91.6	67.5	0	0	396.6	96.1	90.0	87.9	0	.4
LA4J-7	485.7	25.0	22.8	6.7	0	0	484.7	44.4	35.5	1.8	0	0	356.6	26.1	21.9	17.0	0	0	402.7	0	0	0	.9	0
LA4J-8	485.9	84.7	72.0	12.1	0	0	484.6	0	0	0	0	0	462.9	86.3	77.9	75.4	0	0	396.6	29.8	25.9	25.4	0	.2
LA4J-9	483.6	1.1	0	0	0	0	484.1	34.3	40.3	2.6	0	0	331.1	97.6	93.1	22.7	0	0	428.4	91.9	91.0	8.9	0	0
OKHTTP-1	482.2	3.3	0	0	0	0	5.8	0	0	0	0	0	295.1	18.6	16.8	10.4	0	0	390.9	5.0	2.4	.9	0	.4
OKHTTP-2	485.6	27.2	26.6	32.3	0	0	17.5	2.2	0	0	0	0	301.0	39.7	50.0	50.0	0	0	3.6	0	0	0	0	0
OKHTTP-3	486.0	52.0	32.8	36.6	0	0	9.1	20.7	0	0	0	0	328.5	89.8	76.2	68.0	0	0	392.3	65.8	53.0	64.7	0	.2
OKHTTP-4	481.7	15.6	12.9	15.4	0	0	486.7	0	0	0	0	0	311.0	66.6	58.6	55.8	0	0	396.1	60.2	54.3	53.5	0	.1
OKHTTP-5	481.5	0	0	0	0	0	5.4	27.5	17.4	13.3	0	0	300.0	49.3	33.3	29.3	0	0	389.5	50.6	36.9	31.3	0	.2
OKHTTP-6	482.9	35.9	20.0	45.7	0	0	2.6	0	0	0	0	0	308.4	92.7	83.8	81.9	0	0	397.1	89.5	82.8	85.8	0	.1
OKHTTP-7	481.5	5.0	0	0	0	0	3.5	5.0	0	0	0	0	298.1	47.9	46.3	28.0	0	0	388.5	5.0	0	0	0	.5
OKHTTP-8	2.2	0	0	0	0	0	5.8	0	0	0	0	0	5.7	0	0	0	0	0	3.6	0	0	0	0	0
RE2J-1	481.4	12.8	6.5	5.9	0	0	17.3	26.4	16.9	0	0	0	358.8	71.7	65.3	39.9	0	0	394.1	78.2	68.9	14.6	0	.2
RE2J-2	483.7	90.9	90.4	.9	0	.1	51.9	80.1	78.5	33.3	0	0	438.2	95.0	96.4	71.5	0	0	411.6	96.0	96.1	78.7	0	0
RE2J-3	481.3	3.1	1.7	3.4	0	0	6.3	4.6	1.7	3.4	0	0	335.3	51.5	57.7	48.8	0	0	388.9	65.6	62.5	10.9	0	0
RE2J-4	2.2	0	0	0	0	0	5.4	0	0	0	0	0	299.9	95.3	96.8	44.6	0	0	389.1	96.5	93.0	74.6	0	0
RE2J-5	481.6	6.8	0	0	0	0	7.5	6.8	0	0	0	0	340.3	90.5	80.3	42.7	0	0	388.9	95.7	84.7	25.2	0	0
RE2J-6	481.7	0	0	0	0	0	17.3	0	0	0	0	0	328.9	90.7	86.7	66.3	0	0	391.7	93.2	83.4	46.4	0	0
RE2J-7	483.2	30.4	18.2	12.0	0	0	12.4	10.3	4.2	0	0	0	422.4	64.2	51.5	47.8	0	0	394.2	35.9	27.1	18.5	0	.3
RE2J-8	484.1	93.6	87.4	5.3	0	0	52.0	94.4	87.4	3.7	0	0	341.0	97.8	93.1	81.2	0	0	391.0	96.0	94.5	30.9	0	.1