	#	Result	Variant	Count	Total time	Alloc. Memory	Peak Mem- ory	Iteration	BA analy- is sis time	BA mini- miza- tion time	Initial prop- erty au- toma- ton Loca- tions	Initial prop- erty au- toma- ton Edges	Initial RCFG Loca- tions	Initial RCFG Edges	Initial prod- uct Loca- tions	Initial prod- uct Edges	Optimize Prod- uct Loca- tions		Privial mod- ules		Note: deterministic mod- ules	Remai	Avg Locs nddrivial mod- ules	Avg Locs deter- minis- tic mod- ules	Avg Locs non- deter- minis- tic mod- ules
bugs	3	Unsafe	Default LBE-SYME.epf Nome+SBE-epf Default LBE-Multi-epf Default LBE-Multi-epf Default LBE-Multi-epf Default-LBE-Multi-epf Nome+SBE-Epsinglity/AssumesSBE-epf Default-LBE-Multi+SBE-Hsinglify/AssumesSBE-epf Default-LBE-Multi+SBE-Epf Nome-epf	3 3 3 3 3 3 3	0.39 s 0.35 s 0.46 s 0.58 s 0.51 s 0.52 s 0.44 s 0.42 s 0.49 s	815.33 MB 850.83 MB 813.67 MB 815.17 MB 848.50 MB 816.17 MB 815.83 MB 815.67 MB 848.50 MB	123.37 MB 127.54 MB 151.57 MB 171.86 MB 245.98 MB 238.77 MB 130.41 MB 122.94 MB 248.59 MB	3 4 3 3 4 3 3 3 4	0.32 s 0.29 s 0.38 s 0.49 s 0.44 s 0.45 s 0.36 s 0.34 s 0.42 s	0.05 s 0.04 s 0.04 s 0.09 s 0.13 s 0.15 s 0.06 s 0.05 s 0.13 s	1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	35 35 35 35 35 35 35 35 35	47 48 47 47 48 47 48 48 48	56 56 56 56 56 56 56 56	91 92 91 91 92 91 92 92 92	43 56 31 31 56 43 31 31 56	72 92 61 61 92 72 62 62 91	1 1 1 1 1 1 1 1	1 1 1 0 1 1 1 1	0 0 0 1 0 0 0 0	Nonterminating Nonterminating Nonterminating Nonterminating Nonterminating Nonterminating Nonterminating Nonterminating Nonterminating	2 3 2 2 3 2 3 3 2 3 3 2	3 4 2 0 4 3 2 2 4	0 0 0 2 0 0 0 0
	9	Safe	Default-LBE-SYME.epf None+SBE-rgf Default-LBE-Multi-epf Default-LBE-Multi-epf Default-LBE-Multi-epf None+SBE-SimplifyAssumesSBE-epf Default-LBE-Multi-SBE-SimplifyAssumesSBE-epf Default-LBE-Multi+SBE-SimplifyAssumesSBE-epf Default-LBE-Multi+SBE-epf None-epf	9 9 9 9 9 9 9	0.22 s 0.26 s 0.16 s 0.49 s 0.27 s 0.18 s 1.29 s 0.22 s	786.67 MB 786.89 MB 788.89 MB 741.61 MB 785.94 MB 787.44 MB 790.56 MB 788.11 MB 784.89 MB	55.14 MB 74.46 MB 35.97 MB 31.26 MB 74.59 MB 50.00 MB 86.37 MB 51.45 MB 65.24 MB	3 4 3 3 4 3 4 4 3	0.15 s 0.20 s 0.09 s 0.35 s 0.20 s 0.12 s 1.21 s 0.15 s 0.16 s	0.01 s 0.01 s 0.00 s 0.04 s 0.01 s 0.06 s 0.67 s 0.01 s 0.00 s	1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	16 16 16 16 16 16 16 16	23 24 23 23 24 23 24 24 24 23	23 23 23 23 23 23 23 23 23 23	37 39 37 37 39 37 39 39 39	14 23 13 13 23 14 13 13 23	21 39 19 19 39 21 20 20 37	1 3 1 1 3 1 2 2 2	0 0 0 0 0 0 0	0 0 0 0 0 0	-	3 3 3 3 3 3 3 3 3 3	1 3 1 0 3 1 1 1 0 2	0 0 0 0 0 0 0
	12	Completed	Default-LBE-SNME.epf None+SBE.epf Default-LBE-Multi-epf Default-LBE-Multi-epf Default-LBE-Multi-epf None+SBEF-Simplify-AssumesSBE.epf Default-LBE-Multi-sBE-Simplify-AssumesSBE.epf Default-LBE-Multi+SBE-Simplify-AssumesSBE.epf Default-LBE-Multi+SBE-Epf None.epf	12 12 12 12 12 12 12 12 12 12 12	0.26 s 0.28 s 0.23 s 0.52 s 0.33 s 0.27 s 1.08 s 0.27 s 0.29 s	793.83 MB 802.88 MB 795.08 MB 760.00 MB 801.58 MB 794.63 MB 796.88 MB 795.00 MB 800.79 MB	72.20 MB 87.73 MB 64.87 MB 66.41 MB 117.44 MB 97.19 MB 97.38 MB 69.32 MB 111.07 MB	3 4 3 3 4 3 4 4 3	0.19 s 0.22 s 0.16 s 0.39 s 0.26 s 0.20 s 1.00 s 0.20 s 0.23 s	0.02 s 0.01 s 0.01 s 0.05 s 0.04 s 0.04 s 0.52 s 0.02 s 0.03 s	1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	21 21 21 21 21 21 21 21 21 21	29 30 29 29 30 29 30 29 30 29	31 31 31 31 31 31 31 31 31	51 52 51 51 52 51 52 51 52 52 52	22 31 17 17 31 22 17 17	34 52 29 29 52 34 31 31 51	1 2 1 1 2 1 2 2 1 2	0 0 0 0 0 0	0 0 0 0 0 0 0	Nonterminating Nonterminating Nonterminating Nonterminating Nonterminating Nonterminating Nonterminating Nonterminating Nonterminating	3 3 3 3 3 3 3 3 3	1 3 1 0 3 1 1 1 1	0 0 0 1 0 0 0
		Timeout	Default-LBE-SNME.epf Nome+SBE.epf Default-LBE-Multi-epf Default-LBE-Multi-epf Default-LBE-Multi-epf Nome+SBE-Epsinglity-AssumesSBE.epf Default-LBE-Multi-sBE-Simplify-AssumesSBE.epf Default-LBE-Multi-SBE-Simplify-AssumesSBE.epf Default-LBE-Multi-SBE-Epf Nome.epf	0 0 0 0 0 0 0	-	-	-	-		-	-	-		-	-					-	-	-	-		
likmodelshedeberekmarks -	5	Unsafe	Default-LBE-SNME.epf Nome+SBE.epf Default-LBE-Multi-epf Default-LBE-Multi+YondetBuchi.epf Nome+SBEF-SimplifyAssumesSBE.epf Default-LBE-SimplifyAssumesSBE.epf Default-LBE-Multi+SBE+SimplifyAssumesSBE.epf Default-LBE-Multi+SBE-epf Nome.epf	5 5 5 5 5 5 5 5 5	0.42 s 0.33 s 0.34 s	2281.00 MB 2282.40 MB 2290.40 MB 2283.20 MB 2278.80 MB 2285.10 MB 2299.30 MB 2280.80 MB 2280.80 MB	84.97 MB 115.52 MB 87.29 MB 92.03 MB 114.93 MB 82.80 MB 94.36 MB 89.41 MB 113.27 MB	3 4 3 3 4 3 3 3 4	0.20 s 0.24 s 0.23 s 0.33 s 0.26 s 0.23 s 0.26 s 0.24 s	0.00 s 0.00 s 0.00 s 0.00 s 0.00 s 0.00 s 0.00 s 0.00 s	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 3 3 3 3 3 3 3	63 63 63 63 63 63 63 63	85 86 85 85 86 85 86 86	120 120 120 120 120 120 120 120 120 120	213 215 213 213 215 215 215 215 215 215 215	89 120 71 71 120 89 72 72 120	157 215 139 139 215 157 142 142 213	3 - 3 3	0	0	Nonterminating Nonterminating Nonterminating Nonterminating Nonterminating Nonterminating Nonterminating Nonterminating Nonterminating	3 3 3 3 3	2 - 2 - 2 - 2	0 - 0
	18 er-	Safe	Default-LBE-SNME.epf Nome+SBE.epf Default-LBE-Multi-epf Default-LBE-Multi+YondetBuchi.epf Nome+SBEF-SimplifyAssumesSBE.epf Default-LBE-Multi+SBE-HsimplifyAssumesSBE.epf Default-LBE-Multi+SBE-HsimplifyAssumesSBE.epf Default-LBE-Multi+SBE-Epf Nome.epf	14 14 14 14 14 14 14 14 14	3.36 s 2.13 s 3.26 s 3.60 s 2.13 s 3.75 s 2.08 s 2.16 s	2479.36 MB 2509.39 MB 2513.75 MB 2530.11 MB 2486.11 MB 2512.54 MB 2511.89 MB 2500.43 MB 2494.79 MB	147.35 MB 158.37 MB 153.81 MB 116.03 MB 152.25 MB 122.28 MB 87.56 MB 97.05 MB 184.92 MB	5 6 5 5 6 5 5 5 6	3.21 s 2.02 s 3.14 s 3.48 s 2.01 s 3.61 s 1.95 s 2.05 s 3.57 s	0.02 s 0.02 s 0.02 s 0.06 s 0.02 s 0.02 s 0.02 s 0.02 s 0.02 s	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 3 3 3 3 3 3 3	134 134 134 134 134 134 134 134	171 172 171 171 172 171 172 172 172 171	284 284 284 284 284 284 284 284 284	515 520 515 515 520 515 520 515 520 520 515	211 284 235 235 284 213 235 235 235 235	387 520 413 413 520 389 418 418 515	1 2 2 2 2 2 1 2 2	2 2 2 0 2 2 2 2 2 2	0 0 0 2 0 0 0	-	3 3 3 3 3 3 3 3	2 2 2 0 2 2 2 2 2 2 2	0 0 0 3 0 0 0
	23	Completed	Default-LBE-SNME.epf None+SBE.epf Default-LBE-Multi-epf Default-LBE-Multi-pf Default-LBE-Multi-pf None+SBE-FamilyIV, assumesSBE.epf Default-LBE-Multi-SBE-simplify. AssumesSBE.epf Default-LBE-Multi-SBE-simplify. AssumesSBE.epf Default-LBE-Multi-SBE-simplify. AssumesSBE.epf Default-LBE-Multi-SBE-pf None-epf	19 19 19 19 19 19 19 19 19	2.55 s 1.65 s 2.49 s 2.76 s 1.66 s 2.85 s 1.64 s	2427.16 MB 2449.66 MB 2454.97 MB 2465.13 MB 2431.55 MB 2452.68 MB 2452.68 MB 2452.63 MB 2442.63 MB 2437.82 MB	130.94 MB 147.10 MB 136.30 MB 109.71 MB 142.43 MB 111.89 MB 89.35 MB 95.04 MB 166.06 MB	4 5 5 5 4 5 5	2.42 s 1.55 s 2.38 s 2.65 s 1.55 s 2.73 s 1.52 s 1.58 s 2.69 s	0.01 s 0.02 s 0.01 s 0.04 s 0.02 s 0.01 s 0.02 s 0.02 s 0.02 s	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 3 3 3 3 3 3 3	115 115 115 115 115 115 115 115 115 115	148 150 148 148 150 148 150 148 150 150	241 241 241 241 241 241 241 241 241 241	435 440 435 435 440 435 440 435 440 435	178 241 192 192 241 181 192 192 241	326 440 341 341 440 328 346 346 435	2 - 2	2 - 2	0	Nonterminating Nonterminating Nonterminating Nonterminating Nonterminating Nonterminating Nonterminating Nonterminating Nonterminating	3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 - 0
		Timeout	Default-LBE-SNME.pf None-SBE-SM Default-LBE-Multi-epf Default-LBE-Multi-epf None-SBE+SimplifyAssumesSBE.pf Default-LBE-Single-pf Default-LBE-Single-pf Default-LBE-Multi-SBE-pf Default-LBE-Multi-SBE-pf Default-LBE-Multi-SBE-pf	3 4 4 4 4 4 4 4	32.59 s 32.39 s 30.18 s 33.27 s 34.29 s 32.22 s 30.29 s 30.81 s	3537.33 MB 3608.38 MB 3626.25 MB 3649.13 MB 3573.38 MB 3536.50 MB 3680.88 MB 3567.38 MB	1803.71 MB 2153.48 MB 2178.09 MB 2696.52 MB 2120.59 MB 2086.74 MB 2214.16 MB 2261.08 MB	4 3 9 5 3 3 10	10.35 s 7.52 s 15.04 s 16.13 s 7.50 s 7.58 s 15.20 s 15.56 s	8.51 s 6.11 s 11.26 s 6.24 s 6.03 s 6.17 s 11.17 s 11.74 s	1 1 1 1 1 1 1 1	3 3 3 3 3 3 3 3 3	134 194 194 194 194 194 194	181 256 255 255 256 256 256 256 256	195 358 358 358 358 358 358 358 358	321 575 572 572 575 575 572 575 575	117 358 319 319 358 280 320 320	220 575 517 517 517 575 469 520 520	2 3 - - 2 2 2	7 0 - - 8 7	2 Decomposi - 0 Decomposi	tion not yet finished tion not yet finished tion not yet finished tion not yet finished tion not yet finished	1 2 - 1 1 1	3 0 - 3 3 3	0 2 - 0 0 0 0
coolant	12	Unsafe	Nonceft Default-LBE-SNME.epf None+SBE.epf Default-LBE-Multi-epf Default-LBE-Multi-pf Default-LBE-Multi-Pf Default-LBE-Multi-Pf Default-LBE-Multi-Pf Default-LBE-Multi-SBE-epf Default-LBE-Multi-SBE-simplify-AssumesSBE.epf Default-LBE-Multi-SBE-epf Default-LBE-Multi-SBE-epf Nonce-epf No	10 10 10 10 10 10 10 10 10	32.26 s 1.72 s 1.96 s 1.15 s 1.26 s 1.92 s 1.63 s 1.08 s 1.10 s 1.63 s	3605.63 MB 1570.40 MB 1609.55 MB 1553.50 MB 1555.05 MB 1602.65 MB 1589.45 MB 1552.75 MB 1552.75 MB 1552.75 MB	2168.50 MB 475.65 MB 215.97 MB 270.81 MB 420.61 MB 299.69 MB 351.30 MB 255.80 MB 416.44 MB	3 3 3 4 3 3 3 4 3 3 4 4 3 3	7.50 s 1.62 s 1.87 s 1.05 s 1.15 s 1.83 s 1.54 s 0.95 s 1.00 s 1.54 s	0.01 s 0.01 s 0.01 s 0.01 s 0.01 s 0.01 s 0.01 s 0.01 s 0.01 s 0.01 s	3 3 3 3 3 3 3 3 3 3 3 3	7 7 7 7 7 7 7 7	68 68 68 68 68 68 68 68	255 89 90 89 89 90 89 90 89	358 204 204 204 204 204 204 204 204 204 204	572 512 519 512 512 519 512 519 519 519	358 163 204 116 116 204 163 117 117 204	572 397 519 342 342 523 397 351 349 512	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 0 0 0 0 0 0	0 0 0 0 0 0 0	Nonterminating	3 3 3 3 3 3 3 3 3 3 3	1 1 0 0 1 1 1 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	6	Safe	Default LBE-SNME.epf None+SBE.epf Default-LBE-Multi-epf Default-LBE-Multi-ty Default-LBE-Multi-ty Default-LBE-Multi-ty None+SBEF-Simplify\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\	6 6 6 6 6 6 6	0.54 s 1.04 s 0.62 s 0.57 s 1.06 s 0.55 s 0.67 s 0.68 s 0.54 s	1592.08 MB 1603.50 MB 1605.17 MB 1610.17 MB 1592.92 MB 1601.00 MB 1610.50 MB 1594.50 MB 1594.50 MB	190.68 MB 294.32 MB 218.97 MB 209.94 MB 198.58 MB 190.17 MB 228.03 MB 239.20 MB 201.63 MB	6 6 7 7 6 6 7 8	0.45 s 0.96 s 0.52 s 0.47 s 0.93 s 0.46 s 0.55 s 0.58 s 0.45 s	0.02 s 0.02 s 0.02 s 0.02 s 0.02 s 0.02 s 0.02 s 0.02 s 0.02 s	3 3 3 3 3 3 3 3 3	8 8 8 8 8 8 8 8 8	67 67 67 67 67 67 67 67 67	89 90 89 89 90 89 90 90	217 217 217 217 217 217 217 217 217 217	581 589 581 581 589 581 589 589 589	175 217 130 130 217 175 130 130 217	460 589 409 409 592 460 419 418 581	3 3 3 3 3 3 2 2 3 3	2 2 3 0 2 2 3 3 3 2	0 0 0 3 0 0 0	-	3 2 2 2 2 2 2 3 3 2 3	1 1 1 0 1 1 1 1	0 0 0 1 1 0 0 0
	18	Completed	Default-LBE-SYME epf Nome+SBE-epf Default-LBE-Multi-epf Default-LBE-Multi-epf Default-LBE-Multi-epf Nome+SBE-Enginglity-AssumesSBE-epf Default-LBE-Multi-SBE-Simplify-AssumesSBE-epf Default-LBE-Multi+SBE-Simplify-AssumesSBE-epf Default-LBE-Multi+SBE-epf Nome-epf	16 16 16 16 16 16 16 16 16	1.28 s 1.62 s 0.96 s 1.00 s 1.60 s 1.23 s 0.93 s 0.94 s 1.22 s	1578.53 MB 1607.28 MB 1572.88 MB 1575.72 MB 1599.00 MB 1593.78 MB 1574.41 MB 1570.00 MB 1610.69 MB	313.20 MB 407.65 MB 217.10 MB 247.98 MB 337.35 MB 258.62 MB 305.07 MB 249.58 MB 335.89 MB	4 5 5 4 4 4 5	1.18 s 1.53 s 0.85 s 0.90 s 1.49 s 1.13 s 0.80 s 0.84 s 1.14 s	0.01 s 0.01 s 0.01 s 0.01 s 0.01 s 0.01 s 0.01 s 0.01 s 0.01 s	3 3 3 3 3 3 3 3	7 7 7 7 7 7	67 67 67 67 67 67 67 67	89 90 89 89 90 89 90 90	209 209 209 209 209 209 209 209 209	538 545 538 538 545 545 545 545 545 538	167 209 121 121 209 167 122 122 209	421 545 367 367 549 421 377 375 538	2 2 2 3 2 2 2 2 2 3 2	1 1 1 0 1 1 1 1	0 0 0 1 0 0 0 0	Nonterminating Nonterminating Nonterminating Nonterminating Nonterminating Nonterminating Nonterminating Nonterminating Nonterminating	3 3 3 3 3 3 3 3 3	1 1 0 0 1 1 1 0 0	0 0 0 0 0 0
		Timeout	Default-LBE-SNME.epf Nome+SBE.epf Default-LBE-Multi-epf Default-LBE-Multi+PondetBuchi.epf Nome+SBE-FamplifyAssumesSBE.epf Default-LBE-SimplifyAssumesSBE.epf Default-LBE-Multi+SBE-HsimplifyAssumesSBE.epf Default-LBE-Multi+SBE-PsimplifyAssumesSBE.epf Nome.epf	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	32.21 s 31.89 s 32.87 s 30.02 s 32.49 s 32.51 s 30.11 s 30.05 s 30.14 s	1713.25 MB 1714.00 MB 1639.25 MB 1643.25 MB 1713.75 MB 1714.75 MB 1640.75 MB 1639.75 MB 1707.00 MB	889.34 MB 823.72 MB 1046.72 MB 799.54 MB 1005.90 MB 824.18 MB 612.46 MB 1181.95 MB 1207.83 MB	2 33 4 15 14 36 4	16.85 s 32.75 s	17.01 s 14.59 s 14.20 s	3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5	70 70 70 70 70 70 70 70 70	92 93 92 92 93 93 92 93 93	172 172 172 172 172 172 172 172 172 172	346 353 346 346 353 346 353 353 346	144 172 92 92 172 144 93 93 172	285 353 233 233 353 285 242 242 346	11 - 29 - 12 11 31 - 11	2 - 4 - 2 2 2 4 -	0 Decomposi 0 Decomposi 0 Decomposi	tion not yet finished tion not yet finished	-	3 - 3 - 3 3 3 - 3	0 - 0 0 0 - 0

 ${\bf Table~1:~Results~for~LTLAutomizer C.xml.}$