TABLE I COMPARING AutoCCAG WITH TCA-opt, TCA, CASA AND CHIP FOR 4-WAY CCAG ON THE REAL-WORLD AND IBM BENCHMARKS. THE RUN TIME IS MEASURED IN SECOND.

Instance	AutoCCAG		TCA-opt		TCA		CASA		СНіР	
	min (avg)	time	min (avg)	time	min (avg)	time	min (avg)	time	size	time
Apache	772 (789.2)	8068	838 (838.0)	9652	- (-)	>10000	- (-)	>10000	838	86169
Bugzilla	167 (167.8)	428	168 (169.6)	638	171 (172.4)	897	274 (280.7)	931	176	20821
GCC	374 (379.2)	8478	444 (444.0)	8199	- (-)	>10000	- (-)	>10000	444	103177
SPIN-S	308 (308.0)	44	308 (308.0)	122	311 (317.6)	332	355 (362.1)	863	339	12853
SPIN-V	1113 (1117.0)	912	1562 (1562.6)	938	1637 (1655.3)	982	- (-)	>1000	1166	33773
Banking1	139 (139.0)	<1	139 (139.0)	<1	139 (139.0)	<1	139 (141.8)	<1	139	16074
Banking2	71 (71.0)	2	71 (71.0)	8	71 (71.0)	9	74 (76.5)	53	71	915
CommProtocol	83 (83.0)	<1	83 (83.0)	2	83 (83.0)	3	83 (85.2)	4	99	31846
Concurrency	8 (8.0)	<1	8 (8.0)	<1	8 (8.0)	<1	8 (8.0)	<1	8	1334
Healthcare1	300 (300.0)	<1	300 (300.0)	1	300 (300.0)	2	301 (303.0)	9	331	8723
Healthcare2	159 (166.6)	758	169 (171.4)	377	171 (173.3)	463	184 (186.8)	299	177	905
Healthcare3	723 (729.1)	768	757 (763.4)	852	770 (773.1)	928	1127 (1159.4)	955	851	29062
Healthcare4	1317 (1320.4)	907	1475 (1494.3)	987	1763 (1791.2)	997	2492 (2605.8)	944	1536	36719
Insurance	75361 (75361.0)	165	75486 (75489.1)	992	76273 (76310.5)	997	474131 (613700.6)	972	75764	213365
NetworkMgmt	5610 (5610.0)	234	5610 (5610.0)	338	5610 (5610.1)	561	6008 (6045.9)	976	5610	207136
ProcessorComm1	485 (487.8)	452	489 (491.7)	461	491 (495.3)	633	571 (589.1)	902	544	11187
ProcessorComm2	574 (575.1)	596	585 (587.0)	517	592 (595.6)	877	850 (869.9)	961	837	7942
Services	6404 (6407.8)	808	6409 (6414.1)	853	6419 (6431.3)	961	7198 (7312.1)	954	6855	441412
Storage1	25 (25.0)	<1	25 (25.0)	<1	25 (25.0)	<1	25 (25.0)	<1	25	12795
Storage2	162 (162.0)	4	162 (162.0)	<1	162 (162.0)	<1	162 (163.6)	<1	162	2346
Storage3	570 (570.0)	55	570 (570.0)	330	570 (570.0)	384	1085 (1085.0)	37	627	5979
Storage4	5486 (5494.0)	952	6077 (6084.0)	994	6774 (6805.1)	999	9393 (9500.5)	942	5671	86073
Storage5	10982 (11010.8)	822	13161 (13163.1)	971	14067 (14104.0)	993	- (-)	>1000	13292	36930
SystemMgmt	135 (135.0)	<1	135 (135.0)	2	135 (135.0)	3	138 (140.5)	1	139	4124
Telecom	360 (360.0)	<1	360 (360.0)	2	360 (360.0)	3	365 (365.3)	23	360	10070

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