Table The statistics of operations for breaking cycles in DNS

SCC	$Edge'(C_i,C_j)$	$\omega(C_i,C_j)$	$Cycles_b$	$Cycles_a$	$SCplx(C_i,C_j)$	*Bf*	N_m	N_a
SCC_1 = {8,11,21,25, 32,48,58}	21→11	10	16	6	0.0410	0.8579	1	0
	8→21	1	6	5	0.0410	0.0558	1	0
	48→32	1	5	4	0.0410	0.0355	1	0
	32→58	1	4	3	0.6077	0.0301	2	9
SCC_2 = {33,38,52}	38→33	2	3	1	0.2707	0.0138	1	4
	52→33	1	1	0	0.2707	0.0069	1	4

Table The statistics of operations for breaking cycles in ANT

SCC	$Edge'(C_i,C_j)$	$\omega(C_i,C_j)$	$Cycles_b$	$Cycles_a$	$SCplx(C_i,C_j)$	*Bf*	N_m	N_a
SCC_1 = {2,4,10,16, 17,18,19,20, 21,22,23,24}	20→24	214	654	440	0.0851	0.1972	1	3
	18→24	191	440	249	0.1220	0.1926	2	3
	18→22	39	249	210	0.0554	0.1315	1	1
	20→18	70	210	140	0.1359	0.1285	1	6
	19→18	90	140	50	0.1942	0.0896	3	6
	20→23	10	50	40	0.0554	0.0749	1	1
	16→22	6	40	34	0.0554	0.0535	1	1
	2→20	10	34	24	0.1575	0.0435	1	7
	2→21	10	24	14	0.1401	0.0428	2	6
	16→21	5	14	9	0.2072	0.0254	5	6
	16→20	5	9	4	1.0626	0.0062	23	7
	16→17	1	4	3	0.0554	0.0103	1	1
	2→16	2	3	1	0.7089	0.0030	1	31
	20→21	1	1	0	0.0026	0.0008	1	0

Table The statistics of operations for breaking cycles in BCEL

SCC	$Edge'(C_i,C_j)$	$\omega(C_i,C_j)$	$Cycles_b$	$Cycles_a$	$SCplx(C_i,C_j)$	*Bf*	N_m	N_a
SCC_1 = {2,4,5,6, 7,8,9,10, 11,12,13,14, 15,1617,18, 19,20,21,22, 25,26,27,28, 29,30,31,32, 33,34,35,36, 37,38,39,40, 41,43,44,45}	2→21	133674	416091	282417	0.0979	0.0189	1	1
	20→45	40096	282417	242321	0.0884	0.0189	1	0
	4→34	33715	242321	208606	0.1218	0.0189	1	2
	17→18	27889	208606	180717	0.0839	0.0189	0	2
	45→26	16300	180717	164417	0.0884	0.0189	1	0
	15→45	13610	164417	150807	0.0884	0.0189	1	0
	10→45	13610	150807	137197	0.0884	0.0189	1	0
	16→45	13593	137197	123604	0.0884	0.0189	1	0
	13→45	13534	123604	110070	0.0884	0.0189	1	0
	9→45	13505	110070	96565	0.0884	0.0189	1	0
	11→45	13505	96565	83060	0.0884	0.0189	1	0
	12→45	13505	83060	69555	0.0884	0.0189	1	0
	14→45	13505	69555	56050	0.0884	0.0189	1	0

SCC	*Edge'*(C_i,C_j)	$\omega(C_i,C_j)$	$Cycles_b$	$Cycles_a$	$SCplx(C_i,C_j)$	*Bf*	N_m	N_a
	7→45	12888	56050	43162	0.0884	0.0189	1	0
	19→45	12772	43162	30390	0.0884	0.0189	1	0
	6→45	10735	30390	19655	0.0884	0.0189	1	0
	6→36	10735	19655	8920	0.0884	0.0189	1	0
	18→45	3904	8920	5016	0.0884	0.0189	1	0
	18→36	3904	5016	1112	0.0884	0.0189	1	0
	8→18	37	1112	1075	0.1957	0.0189	2	2
	6→19	15	1075	1060	0.0979	0.0172	1	1
	6→14	15	1060	1045	0.0979	0.0172	1	1
	6→12	15	1045	1030	0.0979	0.0172	1	1
	6→11	15	1030	1015	0.0979	0.0172	1	1
	6→9	15	1015	1000	0.0979	0.0172	1	1
	6→7	15	1000	985	0.0979	0.0172	1	1
	6→16	15	985	970	0.1218	0.0172	1	2
	8→6	3	970	967	0.0884	0.0172	1	0
	20→6	1	967	966	0.0884	0.0172	1	0
	14→18	1	966	965	0.1218	0.0172	1	2
	19→18	1	965	964	0.1218	0.0172	1	2
	16→18	1	964	963	0.1957	0.0172	2	2
	12→18	1	963	962	0.1218	0.0172	1	2
	11→18	1	962	961	0.1817	0.0172	2	1
	9→18	1	961	960	0.1218	0.0172	1	2
	7→18	1	960	959	0.1957	0.0140	2	2
	4→32	142	959	817	0.1218	0.0140	1	2
	2→40	88	817	729	0.1218	0.0140	1	2
	2→29	88	729	641	0.0839	0.0140	0	2
	33→45	63	641	578	0.0884	0.0140	1	0
	2→32	82	578	496	0.1218	0.0140	1	2
	33→36	63	496	433	0.0884	0.0140	1	0
	22→45	30	433	403	0.0884	0.0140	1	0
	25→45	30	403	373	0.0884	0.0140	1	0
	34→45	30	373	343	0.0884	0.0140	1	0
	43→45	30	343	313	0.0884	0.0140	1	0
	44→45	30	313	283	0.0884	0.0140	1	0
	2→38	31	283	252	0.0979	0.0140	1	1
	2→37	31	252	221	0.0420	0.0135	0	1
	5→36	31	221	190	0.0884	0.0125	1	0
	2→36	30	190	160	0.0884	0.0114	1	0
	2→39	29	160	131	0.0420	0.0114	0	1

SCC	*Edge'*(C_i, C_j)	$\omega(C_i,C_j)$	$Cycles_b$	$Cycles_a$	$SCplx(C_i,C_j)$	*Bf*	N_m	N_a
	2→4	55	131	76	0.3469	0.0100	1	8
	35→32	8	76	68	0.1218	0.0100	1	2
	21→45	4	68	64	0.0884	0.0100	1	0
	45→40	4	64	60	0.1218	0.0093	1	2
	45→32	4	60	56	0.1218	0.0093	1	2
	45→29	4	56	52	0.1218	0.0089	1	2
	30→35	10	52	42	0.1768	0.0086	2	0
	30→26	5	42	37	0.1768	0.0086	2	0
	45→39	2	37	35	0.0979	0.0086	1	1
	45→31	2	35	33	0.1218	0.0074	1	2
	30→39	2	33	31	0.0884	0.0073	1	0
	45→4	3	31	28	0.3469	0.0072	1	8
	45→28	2	28	26	0.1897	0.0050	1	4
	45→35	10	26	16	0.0884	0.0049	1	0
	45→30	3	16	13	0.5444	0.0047	1	20
	41→45	1	13	12	0.0884	0.0037	1	0
	2→43	1	12	11	0.0979	0.0026	1	1
	2→22	1	11	10	0.0979	0.0016	1	1
	2→34	1	10	9	0.1218	0.0016	1	2
	2→25	1	9	8	0.1218	0.0008	1	2
	2→45	6	8	2	0.0884	0.0004	1	0
	2→44	1	2	1	0.1537	0.0004	1	3
	5→45	1	1	0	0.0884	0.0002	1	0