

T-Gate Count

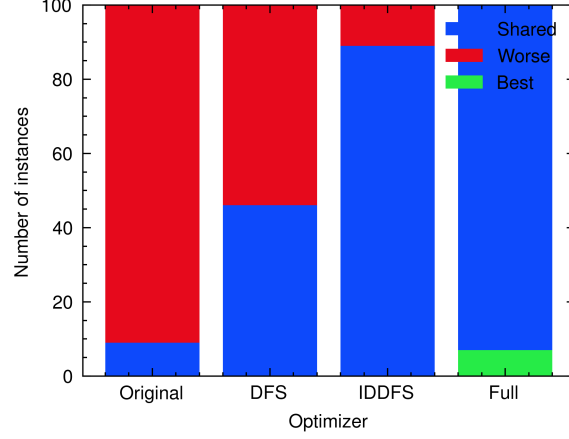


Figure 1: Performance comparison of the best solution found.

Circuit	Original	DFS	IDDFS	Full reduce
2of5d1	167	167	87	87
2of5d1s	129	129	79	79
2of5d2	43	37	35	35
2of5d3	102	96	52	52
3-17tc	12	12	12	12
4-49-12-32	33	29	29	29
4-49tc1	67	49	49	49
4b15g-1	50	42	42	42
4b15g-2	74	62	62	62
4b15g-3	64	50	50	50
4b15g-4	52	44	44	44
4b15g-5	45	37	37	37
5bit-adder	55	55	39	39
5mod5-10-71a	55	55	43	43
5mod5-8	67	67	43	43
5mod5-fc	72	72	44	44
5mod5tc	178	178	76	76
6symd2	81	73	67	67
9symd2	126	114	108	108
gf2 ¹⁰ -mult-109-509	600	600	410	410
gf2 ¹¹ -mult-131-615	737	737	517	517
gf2 ¹² -mult-177-753	864	864	588	588
gf2 ¹³ -mult-205-881	1027	1027	715	715
gf2 ¹⁴ -mult-235-1019	1176	1176	798	798
gf2 ¹⁵ -mult-239-1139	1365	1365	945	945

gf2 ¹⁶ -mult-301-1325	1536	1536	00:00:00	1040	00:48:57	1040	00:01:38
gf2 ¹⁷ -mult-305-1461	1751	1751	00:00:00	1207	00:43:28	1207	00:03:24
gf2 ¹⁸ -mult-375-1671	1944	1944	00:00:00	1324	00:36:05	1314	00:05:23
gf2 ¹⁹ -mult-415-1859	2185	2185	00:00:00	1501	00:52:45	1501	00:00:55
gf2 ²⁰ -mult-419-2019	2400	2400	00:00:00	1632	01:06:32	1620	00:04:11
gf2 ³² -mult-1117-5213	6144	6144	00:00:00	6144	00:00:00	4128	00:14:33
gf2 ³² -mult-1148-5244	6144	6144	00:00:00	6144	00:00:00	4128	00:41:38
gf2 ³² -mult-1179-5275	6144	6144	00:00:00	6144	00:00:00	4128	00:08:39
gf2 ³ -mult-11-47	57	57	00:00:00	45	00:18:29	45	00:31:21
gf2 ⁴ -mult-19-83	96	96	00:00:00	68	00:14:25	68	00:31:22
gf2 ⁵⁰ -2647-12647	15000	15000	00:00:00	15000	00:00:00	10050	01:29:21
gf2 ⁵ -mult-29-129	155	155	00:00:00	115	00:20:00	115	00:00:00
gf2 ⁶ -mult-41-185	216	216	00:00:00	150	00:13:42	150	08:36:33
gf2 ⁷ -mult-55-251	301	301	00:00:00	217	00:15:56	217	08:36:36
gf2 ⁸ -mult-85-341	384	384	00:00:00	264	00:08:33	264	00:00:02
gf2 ⁹ -mult-89-413	495	495	00:00:00	351	00:11:39	351	00:00:11
graycode6	0	0	00:00:00	0	00:00:00	0	00:00:18
ham15-109-214	141	99	00:00:07	99	00:18:21	99	00:00:19
ham15-70	498	192	00:00:24	192	00:29:39	192	00:00:03
ham3tc	7	7	00:00:00	7	00:00:00	7	00:00:10
ham7-21-69	67	45	00:00:00	45	00:27:55	45	00:00:10
ham7-25-49	42	30	00:00:00	30	01:10:43	30	00:00:11
ham7tc	91	59	00:00:00	59	00:15:02	59	00:00:01
hwb4-11-21	21	21	00:00:00	21	00:00:00	21	00:00:03
hwb4-11-23	21	21	00:00:00	21	00:00:00	21	00:00:04
hwb4tc	72	50	00:00:00	50	00:23:16	50	00:00:05
hwb5-24-102	124	78	00:00:01	78	00:20:47	78	00:00:01
hwb5-24-114	124	78	00:00:01	78	00:23:47	78	00:00:05
hwb5-31-91	95	73	00:00:00	73	00:16:11	73	00:00:08
hwb5tc	369	239	00:00:17	239	00:22:05	239	00:00:15
hwb6-42-150	155	125	00:00:03	125	00:17:16	125	00:00:02
hwb6-47-107	97	75	00:00:01	75	00:23:21	75	00:00:06
hwb6tc	1709	911	00:02:13	923	01:23:58	911	00:00:53
hwb7-236	4252	2178	00:10:32	2256	01:07:05	2178	00:05:39
hwb7-331-2609a	2461	1397	00:06:47	1403	00:28:55	1397	00:00:29
hwb7tc	5396	2596	00:19:11	3472	00:09:48	2596	00:02:43
hwb8-2710-6940	5405	5405	00:00:00	4247	01:25:31	3503	00:06:31
mod5-adder-15	107	75	00:00:00	75	00:07:17	75	00:09:36
mod5-adder-17-81	95	71	00:00:00	71	00:24:33	71	00:00:00
mod5-adders	136	136	00:00:00	86	00:15:06	86	00:00:01
mod5d1	22	22	00:00:00	8	00:17:43	8	00:00:01
mod5d2	22	22	00:00:00	8	00:07:07	8	00:00:02
mod5d4	7	7	00:00:00	7	00:00:00	7	00:00:00
mod5mils	12	12	00:00:00	8	00:24:29	8	00:00:00

mstk-4-49-12	33	29	00:00:00	29	00:45:52	29	00:00:00
mstk-4-49-13	33	29	00:00:00	29	00:53:32	29	00:00:00
mstk-4-49-14	31	29	00:00:00	29	00:31:00	29	00:00:00
mstk-4b15g-1	45	41	00:00:00	41	01:07:05	41	00:00:00
mstk-4b15g-2	33	33	00:00:00	33	00:00:00	33	00:00:00
mstk-4b15g-3	33	29	00:00:00	29	00:38:37	29	00:00:00
mstk-4b15g-4	38	34	00:00:00	34	00:49:26	34	00:00:00
mstk-4b15g-5	38	34	00:00:00	34	00:32:05	34	00:00:01
mstk-hwb4-12	21	21	00:00:00	21	00:00:00	21	00:00:02
mstk-hwb4-13	21	21	00:00:00	21	00:00:00	21	00:00:03
mstk-nth-primes4-11	65	51	00:00:01	51	00:27:18	51	00:00:00
mstk-nth-primes4-12	40	38	00:00:00	38	00:09:02	38	00:00:00
mstk-nth-primes4-13	38	30	00:00:00	30	00:25:58	30	00:00:00
mstk-nth-primes4-14	35	31	00:00:00	31	00:06:54	31	00:00:01
or5d1	43	43	00:00:00	31	00:10:01	31	00:00:00
or5d2	62	56	00:00:00	56	00:08:44	56	00:00:02
rd53-16-67	69	69	00:00:00	43	00:09:23	43	00:00:04
rd53d15	121	119	00:00:00	67	00:13:53	67	00:00:07
rd53d15s	115	115	00:00:00	67	00:11:21	67	00:00:01
rd53d1	152	150	00:00:00	60	00:07:52	60	00:00:00
rd53d1mils	86	86	00:00:00	58	00:06:29	58	00:00:02
rd53d2	50	44	00:00:00	38	00:09:27	38	00:00:03
rd53rcmg	269	269	00:00:00	147	00:13:06	147	00:00:01
rd73d2	88	78	00:00:00	70	00:18:27	70	00:00:03
rd84d1	129	117	00:00:01	109	00:09:15	109	00:00:04
t6 1 52	74	74	00:00:00	50	00:15:12	50	00:00:06
t6 3 48	72	72	00:00:00	40	00:14:52	40	00:00:00
t7 1 84	100	100	00:00:00	58	00:15:03	58	00:00:01
t7 4 64	96	96	00:00:00	52	00:20:33	52	00:00:02
t8 1 116	124	124	00:00:00	78	00:20:16	78	00:00:03
t8 5 80	120	120	00:00:00	64	00:06:30	64	00:00:00

Edge Count

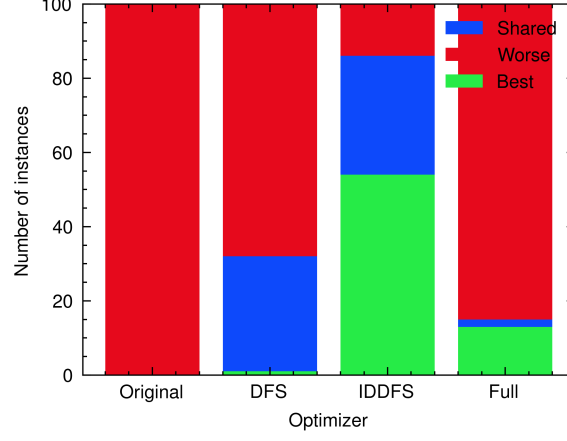


Figure 2: Performance comparison of the best solution found.

Circuit	Original	DFS	IDDFS	Full reduce
2of5d1	551	515	00:00:01	334 00:11:14
2of5d1s	428	394	00:00:00	302 00:11:25
2of5d2	149	134	00:00:00	128 00:26:09
2of5d3	341	311	00:00:00	205 00:12:37
3-17tc	50	41	00:00:29	41 00:00:46
4-49-12-32	110	104	00:00:00	104 00:39:35
4-49tc1	236	213	01:12:23	192 01:17:53
4b15g-1	177	156	00:56:23	153 00:58:01
4b15g-2	240	215	00:00:00	214 00:40:59
4b15g-3	215	184	00:04:10	179 00:57:07
4b15g-4	176	145	00:46:26	146 00:48:00
4b15g-5	156	130	00:18:48	130 00:22:16
5bit-adder	240	220	00:00:00	176 00:34:18
5mod5-10-71a	201	187	00:00:00	167 00:42:36
5mod5-8	238	219	00:00:00	175 00:28:34
5mod5-fc	261	244	00:00:00	177 00:27:40
5mod5tc	610	562	00:00:00	308 00:25:56
6symd2	264	245	00:00:00	245 00:15:21
9symd2	398	363	00:00:00	352 00:25:54
gf2 ¹⁰ -mult-109-509	2077	1886	00:00:02	1466 01:12:09
gf2 ¹¹ -mult-131-615	2502	2275	00:00:04	1749 00:55:05
gf2 ¹² -mult-177-753	2999	2722	00:00:21	2097 00:38:58
gf2 ¹³ -mult-205-881	3504	3183	00:00:08	2464 00:51:09
gf2 ¹⁴ -mult-235-1019	4055	3680	00:00:11	2827 00:38:27
gf2 ¹⁵ -mult-239-1139	4608	4185	00:00:48	3175 00:45:25

gf2 ¹⁶ -mult-301-1325	5273	4780	00:03:52	3651	01:07:04	5735	00:01:38
gf2 ¹⁷ -mult-305-1461	5906	5351	00:01:07	4023	00:58:45	5263	00:03:24
gf2 ¹⁸ -mult-375-1671	6651	6028	00:01:37	4571	00:44:43	8847	00:05:23
gf2 ¹⁹ -mult-415-1859	7400	6705	00:01:58	5060	00:50:54	8697	00:00:55
gf2 ²⁰ -mult-419-2019	8147	7376	00:09:43	5519	01:13:34	6824	00:04:11
gf2 ³² -mult-1117-5213	20785	18780	01:24:51	18780	01:21:55	23889	00:14:33
gf2 ³² -mult-1148-5244	20812	18813	01:20:04	18813	01:18:24	26270	00:41:38
gf2 ³² -mult-1179-5275	20843	18844	00:26:01	18844	00:28:02	29108	00:08:39
gf2 ³ -mult-11-47	204	189	00:00:00	163	00:43:42	174	00:31:21
gf2 ⁴ -mult-19-83	351	324	00:00:00	276	00:33:04	281	00:31:22
gf2 ⁵⁰ -2647-12647	50457	45546	00:27:15	45546	00:22:51	64331	01:29:21
gf2 ⁵ -mult-29-129	540	493	00:00:01	401	00:49:11	430	00:00:00
gf2 ⁶ -mult-41-185	765	702	00:00:02	565	00:39:17	594	08:36:33
gf2 ⁷ -mult-55-251	1032	945	00:00:03	751	00:35:02	894	08:36:36
gf2 ⁸ -mult-85-341	1359	1236	00:00:14	990	00:18:54	1425	00:00:02
gf2 ⁹ -mult-89-413	1692	1533	00:00:07	1181	00:24:47	1448	00:00:11
graycode6	25	25	00:00:00	25	00:19:40	21	00:00:18
ham15-109-214	651	617	00:00:02	584	00:41:51	625	00:00:19
ham15-70	1722	1273	00:30:22	997	00:31:46	1740	00:00:03
ham3tc	34	24	00:00:00	24	00:00:00	24	00:00:10
ham7-21-69	249	188	01:26:26	188	00:29:02	240	00:00:10
ham7-25-49	166	141	00:03:11	141	01:13:55	155	00:00:11
ham7tc	334	242	01:00:00	226	00:37:21	313	00:00:01
hwb4-11-21	79	71	00:00:00	71	00:00:04	93	00:00:03
hwb4-11-23	81	75	00:00:00	75	00:00:03	94	00:00:04
hwb4tc	262	201	00:05:56	189	00:56:30	267	00:00:05
hwb5-24-102	422	348	00:00:14	299	00:56:48	403	00:00:01
hwb5-24-114	421	317	00:08:40	312	00:37:52	370	00:00:05
hwb5-31-91	342	298	00:00:00	273	00:25:51	355	00:00:08
hwb5tc	1231	1127	01:14:11	1063	00:26:30	1183	00:00:15
hwb6-42-150	549	511	00:00:01	494	00:47:41	607	00:00:02
hwb6-47-107	364	332	00:00:00	319	00:39:33	470	00:00:06
hwb6tc	5471	5109	00:00:14	4654	01:26:29	6837	00:00:53
hwb7-236	13574	12660	00:01:02	12660	00:07:15	18828	00:05:39
hwb7-331-2609a	8301	7709	00:00:43	7709	00:03:38	17374	00:00:29
hwb7tc	17242	16051	00:01:20	16051	00:02:06	26157	00:02:43
hwb8-2710-6940	20742	19402	00:01:39	19402	00:02:40	45855	00:06:31
mod5-adder-15	347	323	00:00:00	270	00:20:26	310	00:09:36
mod5-adder-17-81	306	286	00:00:00	243	00:31:32	288	00:00:00
mod5-adders	447	420	00:00:00	332	00:44:35	360	00:00:01
mod5d1	100	91	00:00:00	52	00:17:46	39	00:00:01
mod5d2	89	78	00:00:00	45	00:17:04	45	00:00:02
mod5d4	42	37	00:00:00	37	00:26:19	30	00:00:00
mod5mils	56	53	00:00:00	44	00:24:33	34	00:00:00

mstk-4-49-12	110	104	00:00:00	104	00:45:52	118	00:00:00
mstk-4-49-13	116	104	00:04:20	104	00:54:47	112	00:00:00
mstk-4-49-14	118	101	00:13:12	101	00:34:30	116	00:00:00
mstk-4b15g-1	157	143	00:00:00	143	01:07:05	166	00:00:00
mstk-4b15g-2	119	105	00:00:00	105	00:10:48	138	00:00:00
mstk-4b15g-3	126	107	00:19:49	107	00:43:48	130	00:00:00
mstk-4b15g-4	142	117	00:05:27	117	00:53:16	113	00:00:00
mstk-4b15g-5	135	112	00:35:29	112	00:37:09	138	00:00:01
mstk-hwb4-12	83	71	00:00:19	71	00:01:50	90	00:00:02
mstk-hwb4-13	87	77	00:00:00	77	00:00:26	85	00:00:03
mstk-nth-primes4-11	227	204	00:51:47	171	00:58:29	197	00:00:00
mstk-nth-primes4-12	135	124	00:00:00	124	00:09:01	142	00:00:00
mstk-nth-primes4-13	133	110	00:23:42	110	00:29:58	129	00:00:00
mstk-nth-primes4-14	122	106	00:00:05	106	00:06:59	114	00:00:01
or5d1	157	144	00:00:00	123	00:12:36	125	00:00:00
or5d2	209	195	00:00:00	195	00:08:44	271	00:00:02
rd53-16-67	253	233	00:00:00	182	00:31:43	200	00:00:04
rd53d15	416	379	00:00:00	271	00:46:59	278	00:00:07
rd53d15s	406	373	00:00:00	260	00:37:14	337	00:00:01
rd53d1	493	443	00:00:00	274	00:08:48	246	00:00:00
rd53d1mils	306	278	00:00:00	218	00:10:10	260	00:00:02
rd53d2	187	171	00:00:00	164	00:32:13	179	00:00:03
rd53rcmg	869	808	00:00:02	590	00:14:22	735	00:00:01
rd73d2	301	277	00:00:00	266	01:03:13	370	00:00:03
rd84d1	441	410	00:00:01	410	00:09:09	644	00:00:04
t6 1 52	253	238	00:00:00	199	00:41:57	204	00:00:06
t6 3 48	264	231	00:00:00	175	00:15:10	168	00:00:00
t7 1 84	335	312	00:00:00	230	00:16:03	225	00:00:01
t7 4 64	349	304	00:00:00	228	00:27:00	214	00:00:02
t8 1 116	416	387	00:00:00	315	00:21:58	319	00:00:03
t8 5 80	434	377	00:00:01	281	00:21:51	276	00:00:00

Two-Qubit Gate Count

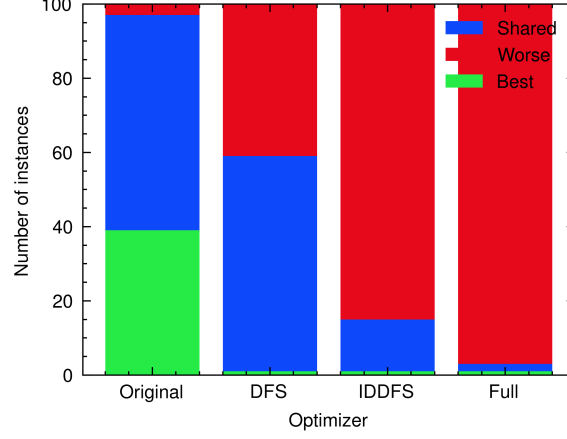


Figure 3: Performance comparison of the best solution found.

Circuit	Original		DFS		IDDFS		Full reduce
2of5d1	162	162	00:00:01	194	00:11:14	188	00:00:00
2of5d1s	126	134	00:00:00	177	00:11:25	164	00:00:02
2of5d2	39	39	00:00:00	39	00:26:09	86	00:00:03
2of5d3	99	99	00:00:00	117	00:12:37	127	00:00:03
3-17tc	15	26	00:00:29	26	00:00:46	20	00:00:00
4-49-12-32	35	38	00:00:00	38	00:39:35	55	00:00:00
4-49tc1	74	95	01:12:23	105	01:17:53	97	00:00:00
4b15g-1	54	73	00:56:23	71	00:58:01	76	00:00:01
4b15g-2	71	74	00:00:00	100	00:40:59	93	00:00:01
4b15g-3	66	110	00:04:10	87	00:57:07	94	00:00:02
4b15g-4	54	73	00:46:26	76	00:48:00	77	00:00:04
4b15g-5	47	69	00:18:48	69	00:22:16	61	00:00:05
5bit-adder	74	95	00:00:00	87	00:34:18	101	00:00:00
5mod5-10-71a	57	57	00:00:00	108	00:42:36	103	00:00:00
5mod5-8	67	67	00:00:00	112	00:28:34	98	00:00:01
5mod5-fc	78	78	00:00:00	121	00:27:40	123	00:00:02
5mod5tc	185	185	00:00:00	192	00:25:56	185	00:00:00
6symd2	75	75	00:00:00	75	00:15:21	157	00:00:01
9symd2	114	120	00:00:00	120	00:25:54	248	00:00:02
gf2 ¹⁰ -mult-109-509	609	609	00:00:02	1751	01:12:09	2420	00:00:08
gf2 ¹¹ -mult-131-615	736	736	00:00:04	2167	00:55:05	2433	00:00:08
gf2 ¹² -mult-177-753	897	897	00:00:21	3056	00:38:58	3932	00:00:39
gf2 ¹³ -mult-205-881	1050	1050	00:00:08	3578	00:51:09	4622	00:01:31
gf2 ¹⁴ -mult-235-1019	1215	1215	00:00:11	4398	00:38:27	5399	00:02:27
gf2 ¹⁵ -mult-239-1139	1364	1364	00:00:48	4534	00:45:25	5856	00:00:21

gf2 ¹⁶ -mult-301-1325	1581	1581	00:03:52	5791	01:07:04	6623	00:01:38
gf2 ¹⁷ -mult-305-1461	1750	1750	00:01:07	6239	00:58:45	7717	00:03:24
gf2 ¹⁸ -mult-375-1671	1995	1995	00:01:37	7533	00:44:43	9110	00:05:23
gf2 ¹⁹ -mult-415-1859	2220	2220	00:01:58	8386	00:50:54	8394	00:00:55
gf2 ²⁰ -mult-419-2019	2419	2419	00:09:43	8585	01:13:34	11902	00:04:11
gf2 ³² -mult-1117-5213	6237	6237	01:24:51	6237	01:21:55	35491	00:14:33
gf2 ³² -mult-1148-5244	6268	6268	01:20:04	6268	01:18:24	27651	00:41:38
gf2 ³² -mult-1179-5275	6299	6299	00:26:01	6299	00:28:02	28205	00:08:39
gf2 ³ -mult-11-47	56	56	00:00:00	117	00:43:42	147	00:31:21
gf2 ⁴ -mult-19-83	99	99	00:00:00	255	00:33:04	310	00:31:22
gf2 ⁵⁰ -2647-12647	15147	15147	00:27:15	15147	00:22:51	100354	01:29:21
gf2 ⁵ -mult-29-129	154	154	00:00:01	390	00:49:11	410	00:00:00
gf2 ⁶ -mult-41-185	221	221	00:00:02	565	00:39:17	820	08:36:33
gf2 ⁷ -mult-55-251	300	300	00:00:03	814	00:35:02	1074	08:36:36
gf2 ⁸ -mult-85-341	405	405	00:00:14	1150	00:18:54	1530	00:00:02
gf2 ⁹ -mult-89-413	494	494	00:00:07	1353	00:24:47	1852	00:00:11
graycode6	5	5	00:00:00	5	00:19:40	5	00:00:18
ham15-109-214	236	236	00:00:02	308	00:41:51	369	00:00:19
ham15-70	534	498	00:30:22	509	00:31:46	598	00:00:03
ham3tc	10	15	00:00:00	15	00:00:00	15	00:00:10
ham7-21-69	80	127	01:26:26	112	00:29:02	135	00:00:10
ham7-25-49	55	91	00:03:11	91	01:13:55	93	00:00:11
ham7tc	106	127	01:00:00	137	00:37:21	132	00:00:01
hwb4-11-21	24	29	00:00:00	29	00:00:04	38	00:00:03
hwb4-11-23	26	35	00:00:00	35	00:00:03	31	00:00:04
hwb4tc	81	88	00:05:56	91	00:56:30	109	00:00:05
hwb5-24-102	132	147	00:00:14	155	00:56:48	162	00:00:01
hwb5-24-114	131	153	00:08:40	153	00:37:52	161	00:00:05
hwb5-31-91	108	119	00:00:00	133	00:25:51	159	00:00:08
hwb5tc	386	493	01:14:11	466	00:26:30	464	00:00:15
hwb6-42-150	175	175	00:00:01	256	00:47:41	242	00:00:02
hwb6-47-107	116	137	00:00:00	179	00:39:33	177	00:00:06
hwb6tc	1705	1705	00:00:14	1988	01:26:29	1863	00:00:53
hwb7-236	4222	4222	00:01:02	4222	00:07:15	4685	00:05:39
hwb7-331-2609a	2638	2638	00:00:43	2638	00:03:38	3543	00:00:29
hwb7tc	5355	5355	00:01:20	5355	00:02:06	5753	00:02:43
hwb8-2710-6940	7073	7073	00:01:39	7073	00:02:40	9578	00:06:31
mod5-adder-15	102	102	00:00:00	119	00:20:26	142	00:09:36
mod5-adder-17-81	90	90	00:00:00	114	00:31:32	107	00:00:00
mod5-adders	133	133	00:00:00	183	00:44:35	195	00:00:01
mod5d1	28	28	00:00:00	27	00:17:46	22	00:00:01
mod5d2	21	21	00:00:00	22	00:17:04	28	00:00:02
mod5d4	8	8	00:00:00	8	00:26:19	16	00:00:00
mod5mils	14	14	00:00:00	26	00:24:33	16	00:00:00

mstk-4-49-12	35	38	00:00:00	38	00:45:52	59	00:00:00
mstk-4-49-13	37	52	00:04:20	52	00:54:47	55	00:00:00
mstk-4-49-14	38	55	00:13:12	55	00:34:30	59	00:00:00
mstk-4b15g-1	47	61	00:00:00	61	01:07:05	63	00:00:00
mstk-4b15g-2	37	42	00:00:00	42	00:10:48	63	00:00:00
mstk-4b15g-3	38	49	00:19:49	49	00:43:48	58	00:00:00
mstk-4b15g-4	44	70	00:05:27	70	00:53:16	67	00:00:00
mstk-4b15g-5	40	46	00:35:29	46	00:37:09	60	00:00:01
mstk-hwb4-12	25	27	00:00:19	27	00:01:50	46	00:00:02
mstk-hwb4-13	28	33	00:00:00	33	00:00:26	46	00:00:03
mstk-nth-primes4-11	70	100	00:51:47	97	00:58:29	88	00:00:00
mstk-nth-primes4-12	42	49	00:00:00	49	00:09:01	58	00:00:00
mstk-nth-primes4-13	43	58	00:23:42	58	00:29:58	56	00:00:00
mstk-nth-primes4-14	39	47	00:00:05	47	00:06:59	52	00:00:01
or5d1	42	44	00:00:00	76	00:12:36	70	00:00:00
or5d2	60	60	00:00:00	60	00:08:44	121	00:00:02
rd53-16-67	75	75	00:00:00	99	00:31:43	97	00:00:04
rd53d15	118	118	00:00:00	170	00:46:59	163	00:00:07
rd53d15s	120	120	00:00:00	181	00:37:14	155	00:00:01
rd53d1	144	156	00:00:00	138	00:08:48	157	00:00:00
rd53d1mils	92	96	00:00:00	142	00:10:10	133	00:00:02
rd53d2	44	44	00:00:00	78	00:32:13	85	00:00:03
rd53rcmg	258	258	00:00:02	395	00:14:22	344	00:00:01
rd73d2	78	78	00:00:00	81	01:03:13	201	00:00:03
rd84d1	119	119	00:00:01	119	00:09:09	275	00:00:04
t6 1 52	72	72	00:00:00	114	00:41:57	124	00:00:06
t6 3 48	72	72	00:00:00	93	00:15:10	91	00:00:00
t7 1 84	96	96	00:00:00	133	00:16:03	133	00:00:01
t7 4 64	96	96	00:00:00	131	00:27:00	112	00:00:02
t8 1 116	120	120	00:00:00	180	00:21:58	186	00:00:03
t8 5 80	120	120	00:00:01	159	00:21:51	160	00:00:00
