```
1  app([],L,L).
2  app([H|T],L0,L2) :-
3      app(T,L0,L1),
4      L2 = [H|L1].
```

Figure A 1

Appendix A An Additional Top-down Sharing Analysis Example

The example provided in Section 2 is chosen to be simple in order to make it easy to follow. To complete the discussion about how the analyzer proceeds, we provide a richer example showing how a complex sharing pattern is computed. This example will also allow us to show how sharing-set representations easily grow. Let `app/3` be a predicate that succeeds if its third argument is the list resulting from appending the first two arguments as showed in Figure A 1. Let this predicate be called with $\text{Goal} = \text{app}([A],[B,C],[A,B,D])$, and calling abstraction $\text{Call} = \{\{A,B\}, \{C\}, \{D,E\}\}$. Thus, the success abstraction is computed as follows:

i) $\text{Proj} = \text{project}(\{A,B,C,D\}, \text{Call}) = \{\{A,B\}, \{C\}, \{D\}\}$.

ii) $\text{Abs}_{\text{entry}} = \text{callToEntry}(\text{Proj}, \text{Goal}, \text{app}([H|T],L0,L2)) = \{\{L0\}, \{L0,L2\}, \{L0,L2,H\}, \{L2\}\}$
Notice how, in this case, the head of the second clause has been selected instead of the head of the first clause (`app([],L,L)`). This is because the analyzer only selects the clauses which can unify with the goal.

iii) $\text{Entry} = \text{augment}(\{L1\}, \text{Abs}_{\text{entry}}) = \{\{L0\}, \{L0,L2\}, \{L0,L2,H\}, \{L1\}, \{L2\}\}$

iv) Now the abstracion `Exit` is computed by calling ENTRYTOEXIT(Entry,Head,Body) as follows:

    a) Since the first literal (`app(T,L0,L1)`) is a recursive call the fixpoint has to be computed. In a very simplified way: both clauses would be analyzed with $\text{Goal} = \text{app}(T,L0,L1)$ and $\text{Call}_1 = \text{project}(\{T,L0,L1\}, \text{Entry}) = \{\{L0\}, \{L1\}\}$.

    b) The analysis of the first clause (`app([],L,L)`), creates a sharing between `L0` and `L1` since the unification of `Goal=Head` induces `L0=L1`. Then, analyzing this clause outputs the prime abstraction $\text{Prime}_1 = \{\{L0,L1\}\}$.

    c) Then, the second clause is analyzed. The entry is computed by computing the abstract unification of `app(T,L0,L1)` and $\text{app}([H_r|T_r], L0_r, L2_r)$. We have renamed the variables of the clause being analyzed (adding a subscript $_r$) to avoid confusion. Now, the entry abstraction obtained is $\text{Entry}_{\text{fxp}} = \{\{L0_r\}, \{L2_r\}, \{L1_r\}\}$. Notice that, since the abstract unification induces the unification $T=[H_r|T_r]$ and `T` is ground in the call, both H_r and T_r become ground. In the next invocation to ENTRYTOEXIT, the literal $\text{app}(T_r,L0_r,L1_r)$ has to be analyzed with call $\{\{L0_r\}, \{L1_r\}\}$. This call is the same as Call_1 (up to variable renaming). Thus, a fixpoint is reached and the literal is analyzed yielding the abstraction $\{\{L0_r,L1_r\}\}$. This is extended with $\text{Entry}_{\text{fxp}}$ returning: $\{\{L0_r\}, \{L2_r\}, \{L1_r\}\}$. Then, the next literal ($L2_r=[H_r|L1_r]$) is analyzed and the abstraction $\{\{L0_r,L1_r,L2_r\}\}$ obtained. Finally, the `exitToPrime` invocation returns: $\text{Prime}_2 = \{\{L0,L1\}\}$

    d) Then, the least upper bound of Prime_1 and Prime_2 is computed. Since they are the same the obtained abstraction is $\{\{L0,L1\}\}$ as well.

    e) Such abstraction is used to update the exit abstraction carried during the execution of ENTRYTOEXIT. Thus, the current `Exit` abstraction ($\{\{L0\}, \{L0,L2\}, \{L0,L2,H\}, \{L1\}, \{L2\}\}$) is updated to $\text{Exit} = \{\{L0,L2,H,L1\}, \{L0,L2,L1\}, \{L0,L1\}, \{L2\}\}$ propagating the new sharing created between `L0` and `L1`.

    f) The next literal (`L2=[H|L1]`) is analyzed with abstraction $\text{project}(\{L1,H,L2\}, \text{Exit}) = \{\{L2,H,L1\}, \{L2,L1\}, \{L1\}, \{L2\}\}$. This literal creates sharing between `L2` and `H` and between `L2` and `L1` respectively. Thus, the abstraction obtained is $\{\{L2,H,L1\}, \{L2,L1\}\}$ and, after extending, $\text{Exit} = \{\{L0,H,L1,L2\}, \{L0,L1,L2\}\}$.

v) Then, $\text{Prime} = \text{exitToPrime}(\text{Exit}, \text{Head}, \text{Goal}) = \{\{A,B\}, \{A,B,C\}, \{A,B,C,D\}, \{A,B,D\}, \{C,D\}\}$. Note how, the unification `app([H|T],L0,L2)=app([A],[B,C],[A,B,D])` propagates the sharings between the variables.

vi) Finally, the success abstraction is computed by updating the call: $\text{Success} = \text{extend}(\text{Call},\text{Goal},\text{Prime}) = \{\{A,B\}, \{A,B,C\}, \{A,B,C,D,E\}, \{A,B,D,E\}, \{C,D,E\}\}$.

Appendix B Plots by Set of Benchmarks
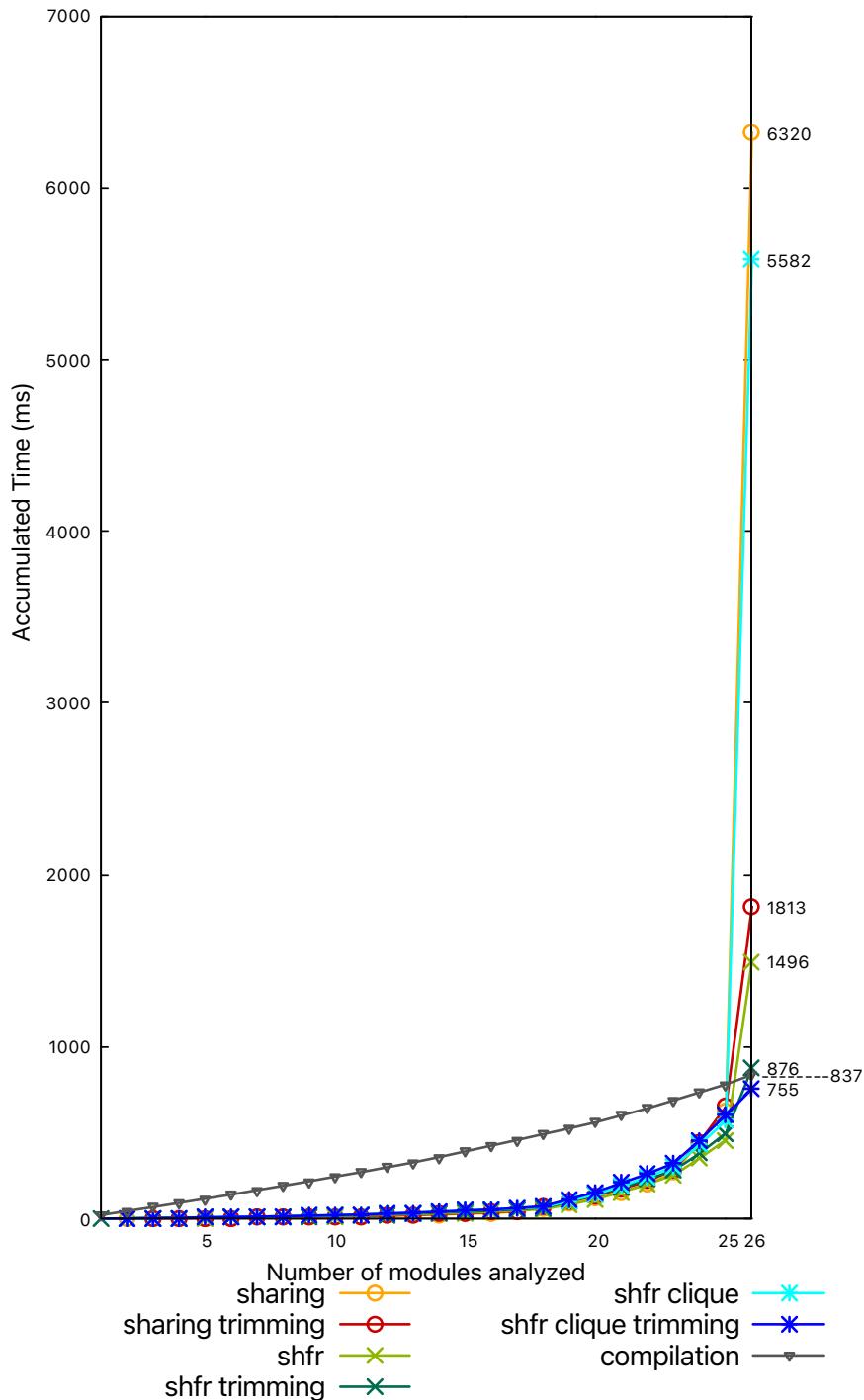
Figure B 1: Cactus plots aggregating results of analyzing the classic benchmarks set.
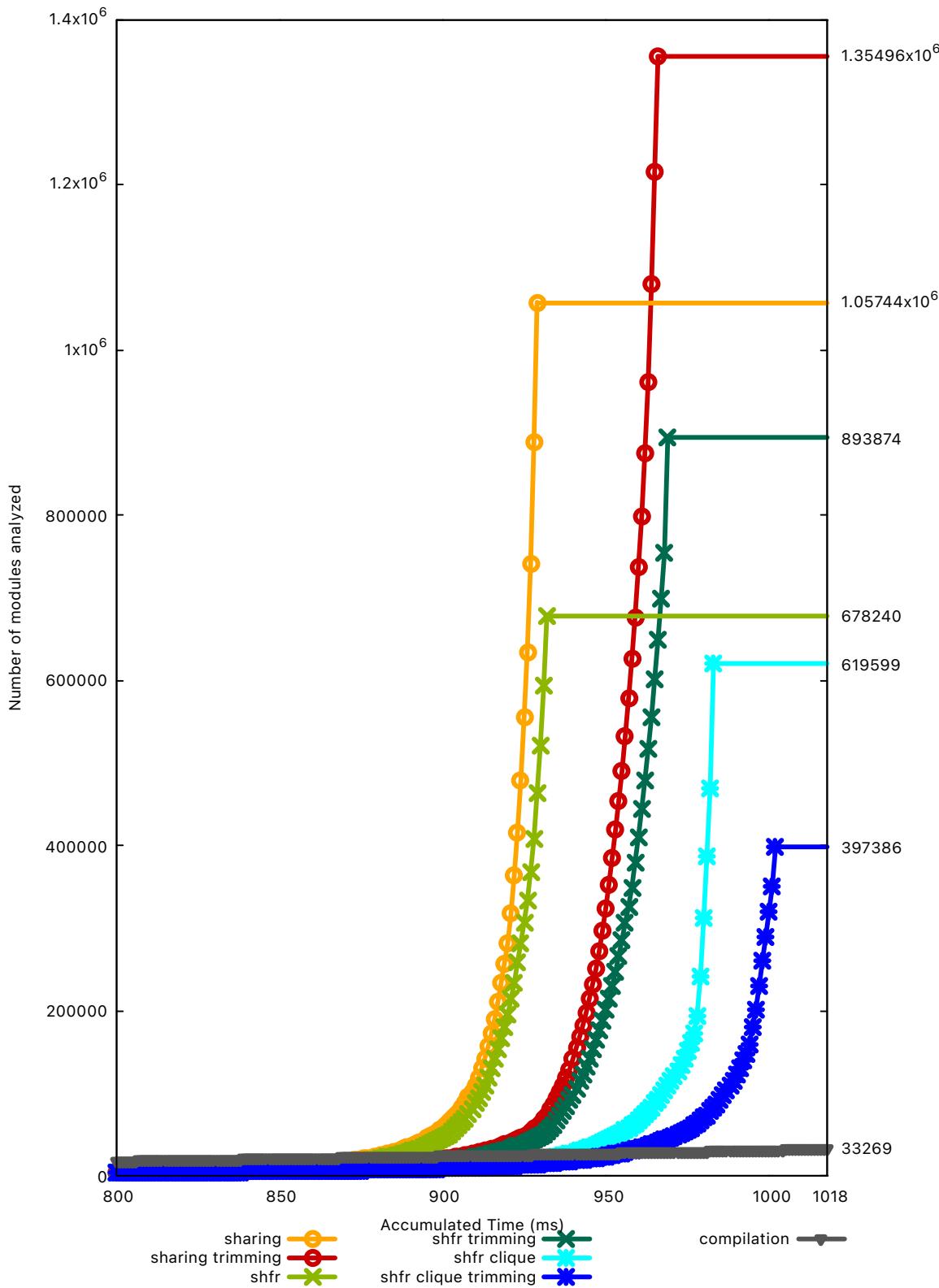
Figure B 2: Cactus plots aggregating results of analyzing all libraries in the `Ciao` system.
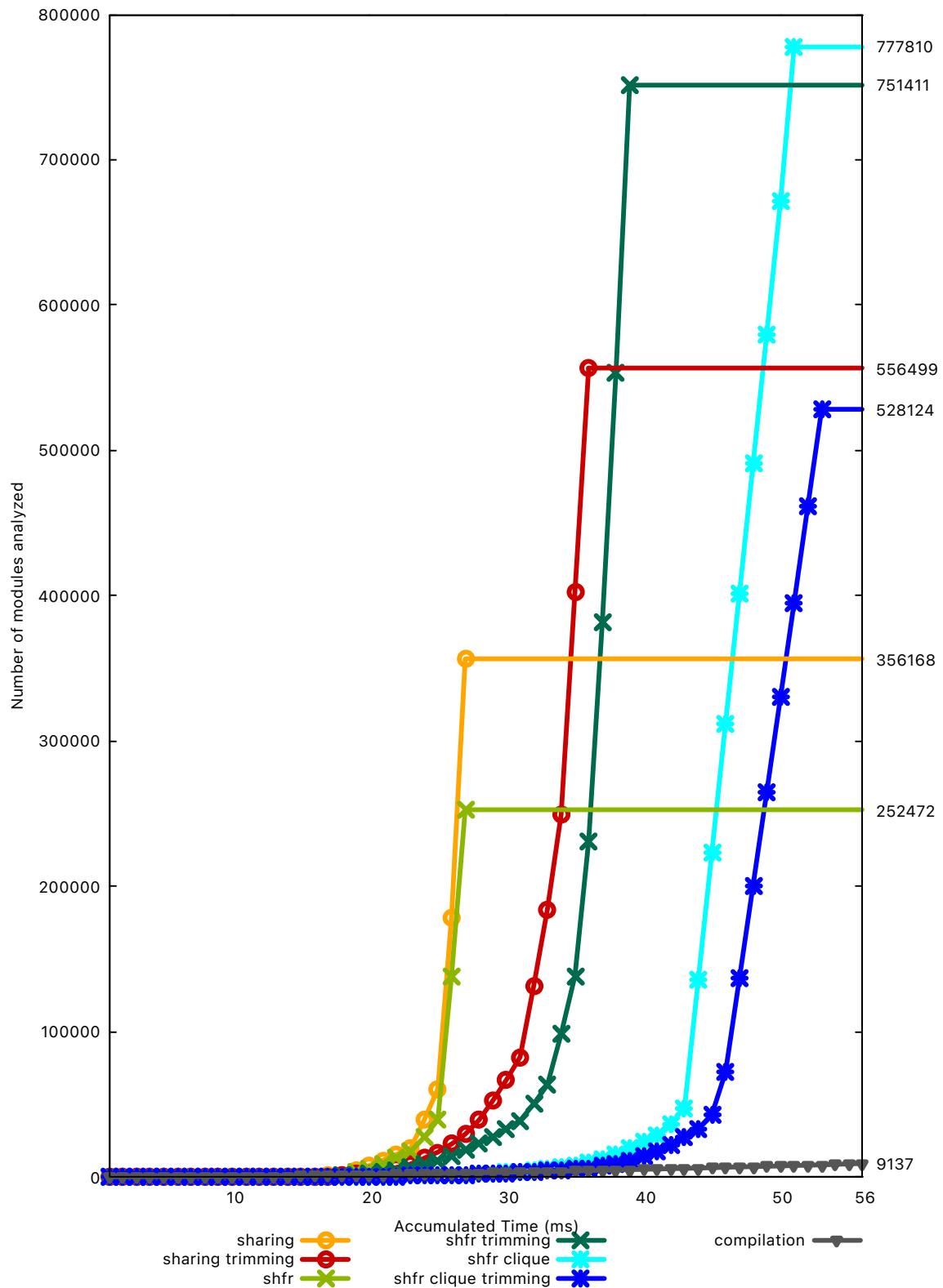
Figure B 3: Cactus plots aggregating results of analyzing the source code of PLAI.
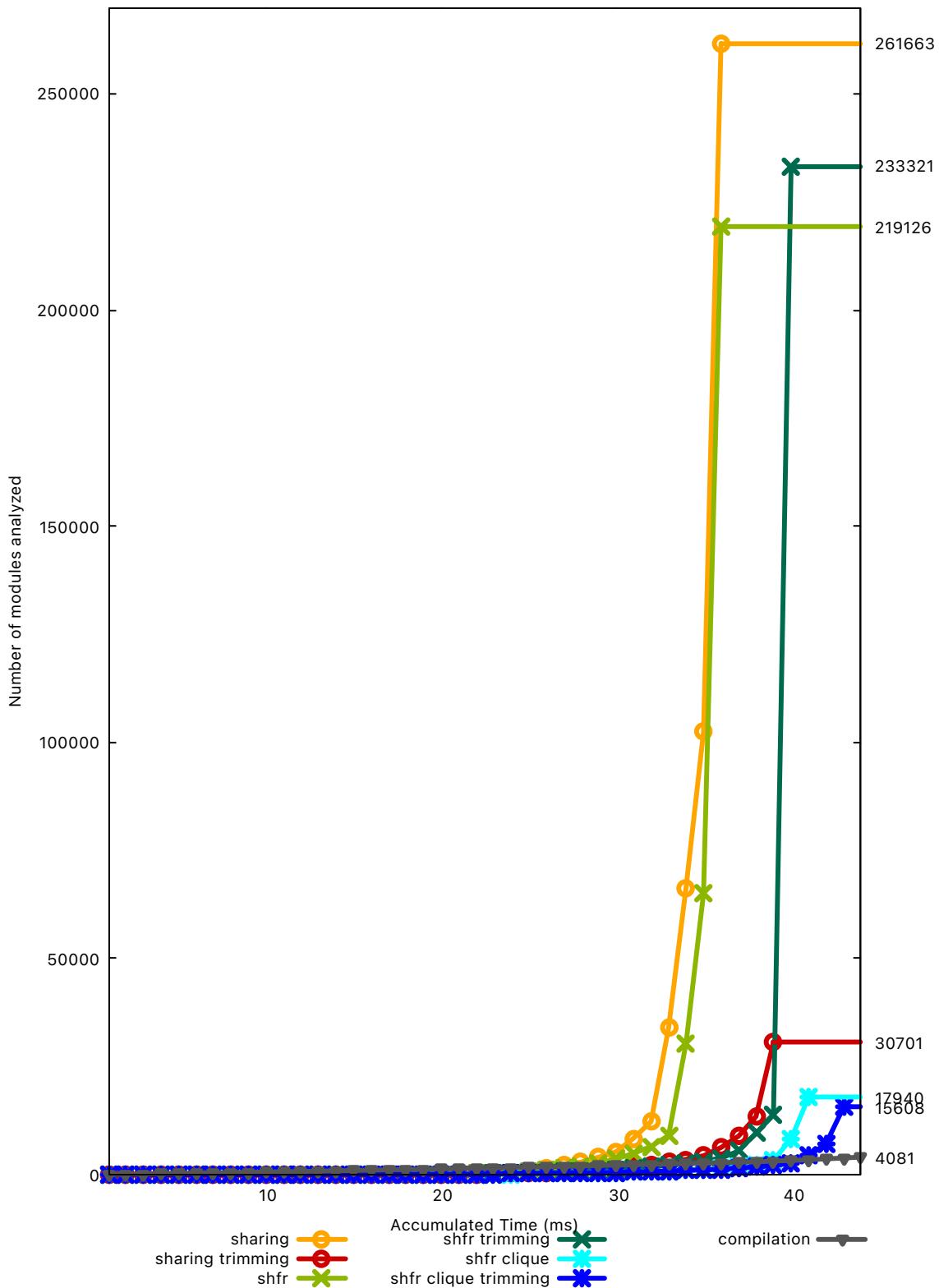
Figure B 4: Cactus plots aggregating results of analyzing the source code of s(CASP).
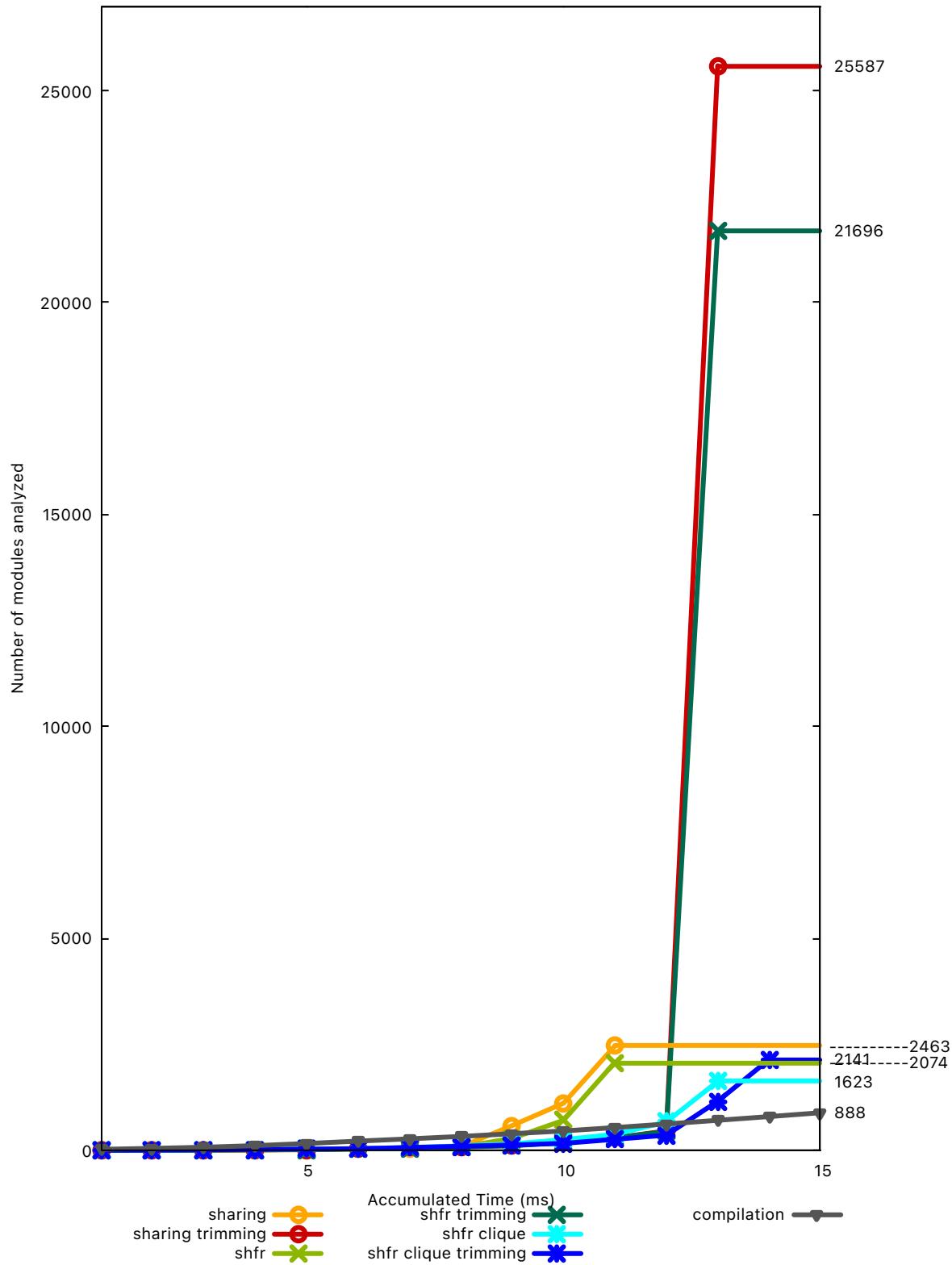
Figure B 5: Cactus plots aggregating results of analyzing the source code of Spectector.

Appendix C Analysis Times by Sets of Benchmarks.

This section contains all the analysis times obtained while running the experiments described in Section 4. The **TC** columns show the time that the classical analysis requires to analyze the modules. The **TT** columns show the time required by abstract trimming, and ρ**T** shows the relative speedup given by the formula $\rho\text{T} = \text{TC}/\text{TT}$.

At the end of each table, some statistics are collected. The number of timeouts with the classic approach for each analysis, as well as the timeouts obtained while applying abstract trimming are shown. Then, some statistics related to the speedups are gathered. First, the mean speedup is provided. Then, we provide the mean speedups considering only programs which take more than a time T to be analyzed by the slowest domain (`share`).

We show the number of modules of each kind that are analyzed by each domain. For example, a row starting with "μ**T** > 1s (44-47-101)" shows the mean speedup for the benchmarks successfully analyzed such that the time of analyzing them with `share` is greater than 1 second or `share` times out. It also shows that in the case of `share`, 44 of those modules are analyzed successfully with both approaches, 47 in the case of `shfr`, and 101 in the case of `shfr-clique`. Notice that both of the approaches (classic and trimming) need to succeed in order to compute the means.

These results support the conclusion that the speedups obtained are greater when the benchmarks are harder, and also that in most cases, the benchmarks are computed in less than 0.1 seconds.

Finally, please note that, even though some module names may appear multiple times, this does not mean that they are duplicated benchmarks, but rather files with the same name in different folders and whose code is typically different. To make the comparisons, the full paths where the modules being analyzed are placed are considered; however in the final table we only present the module names for readability.

C.1 Classic Benchmarks

Table C 1: Analysis times and statistics for analyzing the classic benchmarks set.

M	share					shfr					shfr-clique				
	TC	**TT**	ρ**T**	**TR**	ρ**R**	**TC**	**TT**	ρ**T**	**TR**	ρ**R**	**TC**	**TT**	ρ**T**	**TR**	ρ**R**
query	2.46	3.50	0.70	4.20	0.59	2.40	2.63	0.91	4.30	0.56	3.82	3.65	1.05	5.48	0.70
zebra	0.89	4.17	0.21	76.20	0.01	4.01	4.59	0.87	78.41	0.05	6.48	6.71	0.97	19848.91	0.00
boyer	42.04	44.91	0.94	49.82	0.84	47.12	50.96	0.92	53.10	0.89	38.56	40.09	0.96	44.30	0.87
tak	1.37	1.63	0.84	3.19	0.43	1.45	1.83	0.79	3.56	0.41	1.95	2.08	0.94	4.24	0.46
witt	38.81	40.18	0.97	68.53	0.57	41.88	40.19	1.04	68.53	0.61	53.54	53.10	1.01	84.32	0.63
aiakl	3.94	4.69	0.84	4.71	0.84	4.51	5.06	0.89	4.95	0.91	6.22	6.47	0.96	7.00	0.89
serialize	25.66	26.47	0.97	38.00	0.68	7.70	9.20	0.84	14.31	0.54	7.64	7.85	0.97	11.05	0.69
mmatrix	5.16	5.69	0.91	6.84	0.75	6.21	6.65	0.93	7.84	0.79	5.50	5.63	0.98	6.96	0.79
qsort	2.24	2.09	1.07	2.03	1.11	1.98	2.58	0.77	2.60	0.76	2.77	2.73	1.01	2.98	0.93
occur	1.43	1.71	0.83	1.80	0.79	1.80	2.11	0.85	2.04	0.88	2.56	2.28	1.12	2.23	1.15
browse	4.04	1.42	2.85	6.12	0.66	4.05	4.54	0.89	6.77	0.60	5.25	5.72	0.92	7.67	0.69
hanoiapp	1.34	1.72	0.78	2.69	0.50	1.43	1.85	0.77	2.96	0.48	2.03	1.93	1.05	3.17	0.64
bid	6.68	7.15	0.93	9.00	0.74	7.18	8.19	0.88	9.95	0.72	6.95	10.76	0.65	13.50	0.51
fib	0.78	0.91	0.85	1.81	0.43	0.99	1.14	0.87	2.36	0.42	1.37	1.46	0.94	2.94	0.47
qsortapp	1.48	1.64	0.90	2.28	0.65	1.51	1.75	0.86	2.35	0.64	2.03	2.14	0.95	2.76	0.74
deriv	1.62	2.37	0.68	3.10	0.52	2.04	2.22	0.92	3.36	0.61	2.54	2.69	0.94	0.95	2.68
append	1.11	1.41	0.78	1.20	0.92	1.91	2.01	0.95	0.00	19.11	1.57	1.40	1.12	1.56	1.01
progeom	3.95	3.95	1.00	4.82	0.82	3.88	4.87	0.80	5.38	0.72	5.60	5.34	1.05	6.53	0.86
grammar	1.96	1.60	1.23	2.74	0.72	2.66	2.73	0.98	3.14	0.85	3.14	3.62	0.87	3.88	0.81
read	28.14	31.12	0.90	55.34	0.51	30.52	38.70	0.79	59.29	0.51	47.51	53.84	0.88	80.43	0.59
ann	174.83	162.28	1.08	192.04	0.91	99.34	99.37	1.00	135.61	0.73	129.27	135.36	0.96	155.42	0.83
rdtok	23.40	31.23	0.75	49.70	0.47	26.59	35.17	0.76	52.75	0.50	35.62	41.88	0.85	66.82	0.53
entry	0.76	0.90	0.84	0.84	0.90	0.89	1.04	0.85	1.00	0.88	0.97	0.93	1.05	1.14	0.86
warplan	181.21	202.36	0.90	203.12	0.89	106.12	117.87	0.90	140.63	0.75	141.17	144.20	0.98	154.49	0.91
peephole	71.08	68.75	1.03	75.04	0.95	50.79	51.53	0.99	54.93	0.92	58.22	60.74	0.96	62.35	0.93
qplan	5693	1161	4.90	547.39	10.40	1037	377.31	2.75	249.25	4.16	5010	152.00	32.96	161.69	30.99
Mods	26					26					26				
μ**T**	1.10					0.95					2.20				
μ**R**	1.06					1.50					1.97				

C.2 Source code of the PLAI Analyzer.

Table C 2: Analysis times and statistics for analyzing the source code of PLAI.

module	share			shfr			shfr-clique		
	TC	**TT**	**ρT**	**TC**	**TT**	**ρT**	**TC**	**TT**	**ρT**
fixpo_di	timeout	timeout	-	timeout	timeout	-	88817	66530	1.33
domains	timeout	49167	-	timeout	34882	-	5063	5203	0.97
intermod	21486	14406	1.49	11839	5512	2.15	10968	9839	1.11
fixpo_dx_check_common	0.19	0.02	11.63	0.16	0.18	0.87	0.18	0.18	1.00
intermod_punit	timeout	13342	-	timeout	11593	-	775.79	459.35	1.69
trace_fixp	188.43	137.64	1.37	164.88	122.81	1.34	37.86	71.38	0.53
intermod_options	0.25	0.32	0.78	0.29	0.27	1.07	0.00	0.28	0.36
domains_hooks	4063	4079	1.00	4055	4091	0.99	5.72	5.68	1.01
fixpo_bu	timeout	5566	-	timeout	4195	-	570.52	556.03	1.03
fixpo_plai	timeout	timeout	-	timeout	timeout	-	timeout	timeout	-
fixpo_ops	timeout	timeout	-	timeout	timeout	-	790.88	746.41	1.06
intermod_db	154.23	86.24	1.79	96.69	46.40	2.08	40.75	41.76	0.98
plai_errors	1.19	5.15	0.23	5.87	5.69	1.03	5.82	5.94	0.98
fixpo_check_di2	timeout	timeout	-	timeout	timeout	-	87526	66501	1.32
fixpo_dx_common	0.17	0.18	0.95	0.17	0.16	1.02	0.17	0.22	0.79
apply_assertions_old	177347	9618	18.44	98954	5622	17.60	4402	4372	1.01
fixpoint_options	0.16	0.21	0.79	0.17	0.17	1.01	0.17	0.19	0.93
fixpo_check_di4	timeout	timeout	-	timeout	timeout	-	89499	64305	1.39
re_analysis	timeout	timeout	-	timeout	timeout	-	1279	1301.53	0.98
fixpo_check_di3	timeout	timeout	-	timeout	timeout	-	91042	65200	1.40
plai_db	timeout	2172.26	-	timeout	1971.52	-	161.38	160.44	1.01
intermod_entry	timeout	timeout	-	timeout	timeout	-	4685	3568	1.31
transform	3012	2270	1.33	1946	1420	1.37	218.21	219.24	1.00
apply_assertions	timeout	timeout	-	timeout	timeout	-	2422	2537	0.95
auxinfo_dump	91.23	91.57	1.00	143.37	138.49	1.04	42.00	42.99	0.98
psets	10.87	11.12	0.98	9.71	10.61	0.91	3.78	3.95	0.96
fixpo_plai_gfp	timeout	timeout	-	timeout	timeout	-	timeout	timeout	-
intermod_schedule	13.67	15.12	0.90	15.80	18.35	0.86	23.79	24.08	0.99
notrace	0.26	0.26	1.03	0.33	0.25	1.32	0.28	0.29	0.96
tarjan	timeout	153251	-	timeout	40190	-	2457	2498	0.98
notrace_tr	2.88	2.82	1.02	2.69	2.55	1.05	1.93	1.93	1.00

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
acc_ops	3536	549.14	6.44	3298	401.85	8.21	493.97	511.58	0.97
program_tarjan	114.05	111.78	1.02	106.62	107.19	0.99	30.70	31.65	0.97
plai	timeout	702.09	-	timeout	637.55	-	190.46	179.71	1.06
fixpo_check_reduced_di	timeout	timeout	-	timeout	timeout	-	88247	64173	1.38
apply_assertions_inc	timeout	timeout	-	timeout	timeout	-	217.79	196.61	1.11
plai_domain	4104	4182	0.98	4043	4015	1.01	3.94	3.62	1.09
fixpo_ops_gfp	timeout	timeout	-	timeout	timeout	-	393.43	400.72	0.98
fixpo_dd	timeout	timeout	-	timeout	timeout	-	timeout	timeout	-
normalize_args	980.98	942.73	1.04	892.09	918.40	0.97	17.63	23.11	0.76
fixpo_check_di	timeout	timeout	-	timeout	timeout	-	89032	64926	1.37
fixpo_check_di5	timeout	timeout	-	timeout	timeout	-	89487	64330	1.39
intermod_success	timeout	154006	-	timeout	150781	-	7624	5813	1.31
intermod_ops	timeout	timeout	-	timeout	timeout	-	timeout	29295	-
view_fixp	timeout	timeout	-	timeout	197829	-	106547	1843	57.81
domain_hooks_unfinished	4.13	4.17	0.99	4.10	4.13	0.99	4.43	4.32	1.02
plai_db_instances	3193	1606	1.99	2352	1239.10	1.90	1008	480.83	2.10
incanal_options	0.19	0.16	1.18	0.17	0.18	0.94	0.19	0.17	1.07
plai_db_comparator	118355	15626	7.57	114378	13088	8.74	228.80	232.58	0.98
incanal_experiments	12.26	5.80	2.11	17.48	9.20	1.90	9.73	8.84	1.10
tarjan_inc	timeout	timeout	-	timeout	172030	-	1296	590.74	2.20
incanal_persistent_db	8.88	8.15	1.09	9.53	9.49	1.00	16.33	13.09	1.25
incanal_driver	timeout	timeout	-	timeout	92415	-	timeout	344.13	-
incanal_deletion	19485	6777	2.88	10132	1263	8.02	72.97	58.69	1.24
incanal_db	timeout	52733	-	timeout	4536	-	237.39	232.69	1.02
incanal	timeout	65018	-	timeout	2296	-	1805	226.57	7.97
	share			shfr			shfr-clique		
Mods	56			56			56		
FC	29			29			5		
FT	20			17			3		
μ**T**	2.67			2.61			2.36		
μ**T** > 1s (9-9-33)	4.68			5.55			3.14		
μ**T** > 0.5s (10-10-34)	4.32			5.10			3.07		
μ**T** > 0.1s (13-13-37)	3.64			4.26			2.89		

Table C 3: Analysis times and statistics for analyzing the `Ciao` libraries.

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
initial	0.25	0.24	1.05	0.25	0.35	0.70	0.29	0.42	0.69
operators	16.06	17.93	0.90	16.60	13.70	1.21	14.58	19.98	0.73
unittestdecls	0.25	0.28	0.92	0.24	0.33	0.74	0.25	0.26	0.96
system	2795.54	2710.89	1.03	3288.71	3316.89	0.99	4436.77	4552.79	0.97
default	0.26	0.47	0.55	0.26	0.24	1.06	0.26	0.30	0.88
stream_utils	18.21	13.45	1.35	19.93	17.21	1.16	24.32	24.71	0.98
dynmod_holder	0.63	0.63	0.99	0.71	0.67	1.06	0.69	1.01	0.69
dict	3534.96	3545.48	1.00	1819.39	1867.04	0.97	171.06	194.10	0.88
aggregates	47.63	51.00	0.93	50.99	57.91	0.88	37.20	37.02	1.01
sort	610.39	109.84	5.56	523.88	86.12	6.08	5599.79	83.88	66.76
llists	7.32	7.95	0.92	7.45	7.48	1.00	9.48	9.98	0.95
goal_trans	169.94	5.18	32.80	204.02	9.28	21.98	6.85	10.53	0.65
strings	2.71	2.75	0.99	0.32	3.17	0.10	6.15	2.49	2.47
trace	0.26	0.29	0.92	0.26	0.30	0.88	0.28	0.38	0.74
prelude	0.26	0.24	1.05	0.26	0.12	2.24	0.29	0.42	0.68
miscprops	1.36	1.36	1.00	1.45	1.59	0.91	2.16	0.30	7.17
io_port_reify	27.17	29.13	0.93	37.86	41.87	0.90	27.04	36.47	0.74
debug	0.29	0.27	1.05	0.27	0.28	0.98	0.28	0.18	1.53
lists.test	1.62	1.69	0.96	1.99	2.17	0.92	3.58	3.95	0.91
messages	37.65	37.65	1.00	34.18	35.68	0.96	54.69	57.73	0.95
libpaths	3.56	3.50	1.02	4.38	4.32	1.01	10.29	9.84	1.05
streams	2.31	6.12	0.38	6.38	0.01	580.00	1.94	2.39	0.81
write	429.88	442.67	0.97	486.75	477.78	1.02	1592.24	1724.51	0.92
between	1.04	1.18	0.88	1.05	1.47	0.71	1.33	1.50	0.89
pathnames	35.18	34.22	1.03	36.10	33.51	1.08	54.30	52.52	1.03
lists	63.54	66.12	0.96	78.73	82.69	0.95	150.94	159.78	0.94
tokenize	225.49	211.82	1.06	276.90	267.87	1.03	192.19	193.84	0.99
nortchecks	0.25	0.25	0.98	0.26	0.24	1.05	0.28	0.45	0.62
read	34894.61	18094.06	1.93	35972.50	19784.24	1.82	7527.64	7932.97	0.95
attrdump	2431.19	274.00	8.87	2022.07	192.86	10.48	41.79	50.08	0.83
define_flag	0.42	0.50	0.85	0.51	0.57	0.90	0.88	0.96	0.92
terms	7.32	8.08	0.91	8.16	9.32	0.88	11.50	9.21	1.25

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
errhandle	4828.63	7.98	605.17	4704.53	9.29	506.41	6153.10	12.02	511.86
nodebug	0.31	0.26	1.22	0.28	0.27	1.02	0.28	0.30	0.94
format	384.59	387.01	0.99	81.12	91.92	0.88	132.88	141.31	0.94
dec10_io	16.27	16.32	1.00	18.52	14.68	1.26	27.73	26.99	1.03
unittestdecls_doc	0.16	0.17	0.94	0.16	0.18	0.90	0.21	0.19	1.12
read_from_string	2396.51	617.13	3.88	1703.07	613.87	2.77	420.40	407.83	1.03
old_database	2.96	3.08	0.96	4.03	3.94	1.02	5.95	8.12	0.73
default_iso_strict	0.26	0.29	0.90	0.25	0.27	0.92	0.26	0.38	0.68
cyclic_terms	9.19	9.39	0.98	11.54	12.34	0.94	11.32	12.34	0.92
fastrw	1.59	0.30	5.24	1.92	2.05	0.94	3.04	3.15	0.96
foreign_compilation	1.37	1.32	1.04	1.53	1.52	1.01	3.02	2.95	1.03
pathnames_boot	0.45	0.50	0.89	0.45	0.45	0.99	0.50	0.57	0.88
port_reify	2.03	2.14	0.94	2.23	2.30	0.97	3.09	3.08	1.00
odd	1.35	1.29	1.04	1.43	1.56	0.92	2.12	2.19	0.97
sets	673.25	680.44	0.99	442.94	462.05	0.96	72.03	80.09	0.90
format_to_string	949.27	999.36	0.95	777.84	710.52	1.09	timeout	1682.76	-
ctrlcclean	1.95	2.16	0.90	2.23	2.41	0.92	2.66	2.75	0.97
pure	0.28	0.25	1.09	0.31	0.25	1.24	0.27	0.33	0.83
pure_doc	0.19	0.16	1.19	0.22	0.23	0.96	0.17	0.18	0.92
dynamic_doc	0.18	0.15	1.14	0.15	0.15	0.99	0.18	0.46	0.39
dynamic_rt	37.90	38.38	0.99	44.21	47.69	0.93	41.38	47.34	0.87
dynamic	0.25	0.25	1.02	0.25	0.25	0.99	0.26	0.33	0.80
native_props_cost_doc	10.41	11.05	0.94	11.69	11.93	0.98	13.23	13.86	0.95
native_props_sideff_doc	0.64	0.66	0.97	0.63	0.65	0.96	0.68	0.78	0.88
native_props_exceptions	0.18	0.16	1.13	0.16	0.16	1.06	0.17	0.27	0.64
assertions_basic	0.25	0.25	0.99	0.25	0.27	0.92	0.26	0.40	0.63
native_props_polyhedral	0.16	0.18	0.93	0.15	0.16	0.90	0.16	0.16	0.99
native_props_usage_doc	0.28	0.26	1.05	0.26	0.25	1.05	0.26	0.48	0.54
native_props_polyhedral_doc	2.03	2.23	0.91	2.29	2.42	0.95	2.67	2.85	0.94
assrt_lib_extra	40.19	38.15	1.05	43.98	45.35	0.97	47.53	51.93	0.92
native_props_sideff	0.16	0.16	0.99	0.20	0.16	1.21	0.19	0.19	0.96
assrt_norm_common	0.17	0.17	0.98	0.18	0.17	1.04	0.18	0.28	0.64
native_props_nfdet	0.17	0.16	1.06	0.20	0.15	1.30	0.15	0.22	0.72
c_itf_props	1.06	1.09	0.97	1.23	1.11	1.11	1.61	1.74	0.93
native_props_cardinality_doc	0.86	0.81	1.07	0.88	0.84	1.05	0.89	0.96	0.94

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
assertions_doc	0.29	0.26	1.12	0.28	0.27	1.04	0.27	0.44	0.62
native_props_nfdet_doc	1.45	1.69	0.86	1.63	1.53	1.06	1.80	1.88	0.96
native_props_cardinality	0.18	0.16	1.14	0.19	0.16	1.15	0.16	0.25	0.66
assertions	0.24	0.25	0.97	0.27	0.26	1.04	0.24	0.26	0.93
assrt_lib	timeout	timeout	-	timeout	timeout	-	timeout	timeout	-
doc_props	0.26	0.26	1.03	0.34	0.34	1.01	0.36	0.45	0.80
native_props_cost	0.20	0.16	1.20	0.18	0.00	1.79	0.17	0.21	0.84
native_props	32.75	34.85	0.94	32.88	35.08	0.94	45.36	50.17	0.90
assertions_props	916.76	42.70	21.47	856.91	43.11	19.88	23.13	24.22	0.96
native_props_shfrg	0.15	0.16	0.96	0.23	0.16	1.42	0.16	0.19	0.84
native_props_exceptions_doc	0.98	0.99	0.99	1.03	1.13	0.91	1.16	1.22	0.95
native_props_shfrg_doc	4.82	5.44	0.89	6.55	7.56	0.87	7.86	8.72	0.90
native_props_rtc	2457.61	1147.48	2.14	498.71	265.17	1.88	51.86	48.81	1.06
assrt_write	2779.05	1104.50	2.52	2643.96	1005.78	2.63	487.23	493.61	0.99
tester_aux1	0.34	0.25	1.38	0.00	0.29	0.35	0.45	0.33	1.38
foomain	0.19	0.20	0.96	0.18	0.16	1.13	0.18	0.38	0.49
foo	0.55	0.57	0.96	0.11	0.57	0.19	0.64	0.67	0.95
testdisj	0.53	0.54	0.99	0.31	0.47	0.65	0.49	0.68	0.73
arith	4.52	4.51	1.00	4.65	5.07	0.92	5.66	6.61	0.86
tester_aux2	0.34	0.35	0.96	0.38	0.37	1.05	0.45	0.60	0.75
tester	0.23	0.24	0.96	0.25	0.23	1.11	0.26	0.26	1.02
main	1.21	1.18	1.02	1.38	1.32	1.05	1.64	1.97	0.83
foo_main	0.18	0.18	1.04	0.18	0.15	1.15	0.17	0.55	0.30
bar	0.16	0.16	0.96	0.18	0.16	1.10	0.18	0.24	0.74
tester_alt	0.31	0.32	0.97	0.39	0.33	1.17	0.38	0.51	0.75
resolve	0.63	0.60	1.05	0.71	0.61	1.15	0.68	0.69	0.98
arithmetic	15.34	15.68	0.98	16.29	16.69	0.98	17.82	18.64	0.96
basic_props_test	0.18	0.17	1.08	0.19	0.20	0.92	0.19	0.19	0.99
aux1	0.35	0.35	1.01	0.41	0.37	1.09	0.44	0.59	0.75
part1	0.19	0.17	1.12	0.18	0.16	1.16	0.16	0.30	0.53
modules_user	0.28	0.29	1.00	0.27	0.27	1.00	0.29	0.44	0.66
tester_aux	0.34	0.33	1.05	0.38	0.40	0.97	0.41	0.49	0.83
tester_aux3	0.35	0.28	1.24	0.30	0.30	1.00	0.29	0.16	1.78
main	0.56	0.50	1.12	0.60	0.63	0.96	0.71	0.65	1.09
my_native_props	3.23	2.66	1.22	3.07	2.96	1.04	3.34	3.38	0.99

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
SETTINGS	3.21	3.17	1.01	3.42	3.37	1.02	4.90	4.63	1.06
dummy_end_of_file	0.32	0.27	1.18	0.30	0.30	0.99	0.29	0.64	0.45
pp_tr	11.59	12.81	0.90	13.50	14.54	0.93	15.60	19.91	0.78
pp	0.24	0.28	0.87	0.25	0.32	0.79	0.27	0.32	0.85
ex3_ana	0.42	0.36	1.17	0.46	0.44	1.05	0.46	0.59	0.79
ex2_check	0.35	0.37	0.95	0.37	0.41	0.90	0.38	0.54	0.70
ex1_check	0.35	0.34	1.04	0.40	0.35	1.15	0.42	0.46	0.92
rtc_old	0.16	0.17	0.95	0.22	0.17	1.36	0.19	0.20	0.96
assrt_write0	59.04	60.45	0.98	61.07	65.01	0.94	50.31	52.31	0.96
assrt_synchk	0.18	0.18	1.01	0.01	0.18	0.07	0.16	0.22	0.75
assrt_mpp	4.72	4.90	0.96	5.17	5.68	0.91	2.29	8.10	0.28
embedded_tr	timeout	timeout	-	timeout	timeout	-	25.35	14.74	1.72
debugger_lib	timeout	timeout	-	timeout	timeout	-	2757.33	3109.76	0.89
debugger	186.88	197.17	0.95	190.39	185.00	1.03	11.98	12.01	1.00
embedded_rt	167.14	167.10	1.00	155.95	156.75	0.99	6.44	2.84	2.27
debugger_doc	0.17	0.19	0.91	0.16	0.17	0.95	0.17	0.23	0.75
debugger_tr	timeout	59742.26	-	timeout	38265.80	-	171.88	190.72	0.90
embedded	0.29	0.29	1.00	0.29	0.26	1.13	0.28	0.55	0.51
debug_srcdbg	0.30	0.27	1.12	0.31	0.29	1.09	0.35	0.40	0.87
debug_raw	0.27	0.26	1.03	0.24	0.25	0.98	0.28	0.50	0.56
basicmodes_doc	0.79	0.86	0.92	0.89	1.13	0.79	1.05	1.00	1.05
basicmodes	0.18	0.16	1.10	0.20	0.18	1.12	0.18	0.20	0.90
isomodes_doc	0.87	0.86	1.02	0.93	0.97	0.97	1.09	1.30	0.84
isomodes	0.17	0.17	1.04	0.16	0.19	0.86	0.18	0.20	0.89
attr_tr	14.56	9.21	1.58	12.70	7.46	1.70	4.86	5.53	0.88
attr_mono_compat	0.53	0.55	0.96	0.54	0.62	0.86	0.55	0.55	1.00
attr	0.61	0.61	1.00	0.59	0.69	0.86	0.62	0.59	1.05
attr_rt	107.66	85.83	1.25	97.70	82.26	1.19	105.00	91.87	1.14
attr_doc	0.20	0.16	1.21	0.17	0.16	1.08	0.19	0.32	0.60
attr_bench	4.29	5.04	0.85	4.59	5.50	0.84	5.37	6.13	0.88
myfreeze	2.76	2.92	0.95	0.56	3.38	0.17	3.00	3.24	0.93
mattr_global	6.95	7.49	0.93	5.91	6.25	0.95	7.34	8.15	0.90
swi_mattr_global_tr	0.83	0.89	0.93	0.95	0.93	1.03	0.86	1.03	0.83
mattr_local_common	39.89	41.71	0.96	40.90	43.85	0.93	17.26	18.80	0.92
mattr_sicstus_doc	1.43	1.34	1.07	1.60	1.67	0.96	1.94	2.74	0.71

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
mattr_global_trans	23.16	19.56	1.18	20.48	12.83	1.60	11.02	7.85	1.40
mattr_global_doc	0.18	0.19	0.98	0.16	0.17	0.95	0.20	0.25	0.78
mattr_global_code	11.75	12.15	0.97	9.26	10.37	0.89	16.35	18.16	0.90
noprelude	0.26	0.26	0.98	0.25	0.25	1.02	0.25	0.32	0.78
noprelude_doc	0.16	0.18	0.92	0.17	0.18	0.93	0.16	0.20	0.81
opt_rt_safe_ctrt_poly	0.24	0.26	0.94	0.25	0.26	0.97	0.27	0.42	0.64
opt_rt_safe_ctrt_blind	0.25	0.26	0.95	0.32	0.25	1.27	0.00	0.69	0.14
opt_rt_safe_rt	0.24	0.26	0.93	0.38	0.25	1.53	0.28	0.26	1.05
opt_rt_unsafe	0.28	0.24	1.15	0.25	0.26	0.97	0.25	0.25	1.01
opt_rt_client_safe	0.27	0.25	1.10	0.26	0.30	0.89	0.33	0.31	1.08
opt_rt_safe_ctrt	0.28	0.25	1.11	0.24	0.27	0.87	0.28	0.30	0.91
fsimp	17.51	19.01	0.92	17.12	19.13	0.89	21.14	26.17	0.81
autoshallow	128.22	88.20	1.45	99.47	58.51	1.70	46.44	51.33	0.90
rtchecks_shallow_doc	0.17	0.18	0.91	0.15	0.18	0.85	0.19	0.20	0.93
rtchecks_shallow	0.46	0.27	1.69	0.28	0.30	0.95	0.30	0.39	0.76
rtchecks_shallow_tr	timeout	118624.81	-	timeout	47278.43	-	149970.29	1379.15	108.74
rtchecks_shallow_rt	11.46	11.67	0.98	12.20	13.56	0.90	13.61	14.74	0.92
example	3.63	3.42	1.06	3.76	0.96	3.90	4.64	4.79	0.97
foo	3.62	3.68	0.99	3.86	4.41	0.88	4.58	4.93	0.93
cost_ana	2.59	2.70	0.96	3.10	3.17	0.98	2.87	3.48	0.82
foo_4modes	1.22	1.19	1.03	1.34	1.32	1.02	1.61	1.65	0.98
write_tokens	6.69	7.69	0.87	7.73	9.74	0.79	9.96	11.53	0.86
write_c	5758.57	1231.92	4.67	7024.12	1271.55	5.52	955.62	1109.17	0.86
process	169754.06	5337.71	31.80	24943.13	4427.60	5.63	1433.98	1415.68	1.01
process_channel	45.19	43.88	1.03	45.58	50.38	0.90	46.30	51.64	0.90
restricted_syntax	0.25	0.26	0.99	0.24	0.31	0.77	0.26	0.27	0.97
restricted_syntax_tr	1.56	1.75	0.89	1.70	1.92	0.88	2.48	2.74	0.91
string_type	0.28	0.26	1.08	0.25	0.27	0.93	0.24	0.30	0.80
string_type_rt	1.25	1.23	1.01	1.50	1.54	0.97	2.65	2.61	1.02
bundle_flags	9.11	8.83	1.03	10.45	9.65	1.08	17.06	18.00	0.95
bundle_paths	3663.25	252.21	14.52	3541.74	494.74	7.16	62.23	71.55	0.87
bundlereg_db	0.68	0.68	1.00	0.73	0.72	1.02	0.70	0.73	0.96
bundlereg_load	0.17	0.16	1.01	0.01	0.15	0.08	0.16	0.20	0.79
bundle_info	2.53	2.72	0.93	2.77	2.93	0.94	3.32	3.82	0.87
dynamic_bundle	0.18	0.17	1.09	0.20	0.18	1.11	0.18	0.19	0.97

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
dynamic_clauses_doc	0.22	0.17	1.26	0.19	0.18	1.02	0.16	0.22	0.71
dynamic_clauses_rt	30.43	32.72	0.93	34.34	35.75	0.96	25.92	27.43	0.94
dynamic_clauses	0.51	0.46	1.12	0.53	0.50	1.07	0.48	0.54	0.88
selfmodif	0.33	1.25	0.27	1.32	1.49	0.89	1.25	1.09	1.14
metatypes	0.27	0.26	1.07	0.26	0.29	0.91	0.11	0.22	0.49
metatypes_tr	1.35	1.43	0.94	1.44	1.62	0.89	1.63	2.01	0.81
cmdline_parser	1478.87	342.18	4.32	858.17	257.31	3.34	125.41	80.04	1.57
cmdline_help	0.18	0.17	1.03	0.16	0.19	0.85	0.17	0.19	0.87
term_list	16.03	16.94	0.95	17.16	18.98	0.90	23.24	24.41	0.95
rtchecks_send	130.19	37.85	3.44	122.20	36.53	3.35	16.75	9.53	1.76
rtchecks_pretty	timeout	2114.75	-	timeout	1717.84	-	65.84	68.23	0.97
rtchecks_meta	timeout	timeout	-	timeout	timeout	-	36.03	24.01	1.50
rtchecks_rt	278.59	284.14	0.98	262.80	267.92	0.98	262.97	274.57	0.96
rtchecks_basic	timeout	15539.41	-	timeout	13396.82	-	79.93	62.14	1.29
rtchecks	0.28	0.24	1.17	0.27	0.25	1.11	0.26	0.32	0.83
rtchecks_tr	timeout	timeout	-	timeout	timeout	-	timeout	5237.39	-
rtchecks_doc	0.18	0.18	1.01	0.16	0.18	0.92	0.18	0.22	0.79
rtchecks_rt_propimpl	0.29	0.24	1.20	0.31	0.26	1.18	0.26	0.33	0.78
rtchecks_tr_library	0.30	0.25	1.18	0.26	0.26	1.00	0.27	0.27	0.99
rtchecks_example3	timeout	1520.07	-	timeout	1295.97	-	612.98	618.56	0.99
rtc_external	0.49	0.39	1.25	0.50	0.46	1.09	0.43	0.61	0.70
rtchecks_example	timeout	timeout	-	timeout	timeout	-	368.63	379.73	0.97
rtchecks_disc	14.77	14.88	0.99	15.91	14.06	1.13	2.99	0.51	5.80
example_fullasr	1600.22	15.33	104.42	1564.79	15.05	103.97	8.48	5.28	1.61
rtchecks_constraints	2.52	3.11	0.81	3.05	3.27	0.93	3.11	3.75	0.83
rtchecks_example2	timeout	1529.99	-	timeout	1364.42	-	402.53	397.81	1.01
rtchecks_inline_tr	1.78	1.70	1.05	1.94	2.00	0.97	1.28	1.48	0.87
rtchecks_tr	1.96	1.91	1.03	2.28	2.34	0.98	2.53	2.62	0.96
rtchecks_doc	0.16	0.16	1.01	0.17	0.37	0.46	0.16	0.21	0.76
api_internal_dec	0.16	0.17	0.98	0.18	0.16	1.09	0.18	0.20	0.94
rtchecks_inline	49.22	42.40	1.16	44.68	34.61	1.29	7.07	8.75	0.81
apply_dict	30.50	31.40	0.97	29.68	30.57	0.97	21.24	23.30	0.91
pretty_names	1.68	1.66	1.01	2.42	2.11	1.15	3.80	3.86	0.98
complete_dict	53.95	48.38	1.12	52.92	50.13	1.06	23.17	26.03	0.89
dict_types	1.43	1.42	1.01	1.66	1.67	1.00	3.38	0.35	9.73

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
metaprops	0.19	0.17	1.11	0.16	0.16	1.01	0.01	0.30	0.03
meta_props	2.13	2.21	0.97	2.45	2.49	0.98	2.94	2.99	0.98
clause_check	1.40	1.41	0.99	1.43	1.52	0.94	1.47	1.61	0.91
global_module_options	9.17	9.58	0.96	11.51	12.94	0.89	23.46	26.85	0.87
pl2wam	timeout	29302.76	-	timeout	7552.63	-	2076.58	2107.85	0.99
callback	0.30	0.30	1.01	0.30	0.31	0.96	0.30	0.36	0.82
foreign__gluecode	timeout	4660.36	-	timeout	4508.20	-	59.72	48.84	1.22
basic_compilation_modules	0.28	0.26	1.10	0.24	0.26	0.94	0.26	0.29	0.89
c_itf	timeout	timeout	-	timeout	timeout	-	21775.41	21199.19	1.03
shell_itf	369.85	290.04	1.28	338.34	260.89	1.30	667.66	652.17	1.02
srcdbg	timeout	timeout	-	timeout	timeout	-	37.11	37.57	0.99
up_to_date	0.64	0.74	0.87	0.76	0.91	0.84	0.92	1.06	0.86
pl2wam_tables	18.83	18.34	1.03	17.37	16.47	1.05	8.28	8.27	1.00
add_goal_trans	0.99	1.02	0.97	0.99	0.91	1.08	1.05	1.02	1.03
frontend_condcomp	34.08	37.13	0.92	36.26	39.71	0.91	21.42	22.59	0.95
translation	531.36	297.01	1.79	557.96	261.18	2.14	49.74	53.87	0.92
file_buffer	4.79	4.57	1.05	5.02	4.57	1.10	6.39	6.83	0.94
gauge_aux	4.83	4.51	1.07	4.83	4.78	1.01	4.51	4.54	0.99
build_foreign_interface	timeout	135449.89	-	timeout	timeout	-	1624.92	923.83	1.76
mexpand	7.96	7.19	1.11	7.12	7.14	1.00	7.83	7.26	1.08
compiler	6.88	7.61	0.90	8.13	8.89	0.91	9.67	10.60	0.91
emulator_data	0.29	0.27	1.04	0.30	0.29	1.03	0.12	0.30	0.42
exemaker	timeout	104.21	-	timeout	87.67	-	221.91	179.96	1.23
frontend_core	6.55	6.65	0.99	6.83	6.89	0.99	6.66	7.55	0.88
engine_path	3.86	3.82	1.01	4.23	4.42	0.96	6.96	6.63	1.05
win_exec_ext	0.48	0.31	1.57	0.28	0.30	0.90	0.29	0.41	0.71
wamql	30.16	28.21	1.07	29.30	29.63	0.99	28.69	30.14	0.95
pwamql	0.16	0.16	1.04	0.15	0.01	14.09	0.00	0.17	0.57
module	0.28	0.25	1.09	0.25	0.26	0.95	0.31	0.29	1.06
plpwam	0.17	0.19	0.88	0.15	0.17	0.87	0.18	0.18	0.99
builtins_pwam	0.19	0.16	1.14	0.17	0.17	1.01	0.18	0.20	0.92
make_actmod	0.84	0.73	1.15	0.77	0.78	0.99	0.78	0.85	0.92
clause_print	63.66	7.24	8.79	105.28	7.10	14.83	5.55	6.44	0.86
program_keys	156.08	154.51	1.01	177.48	176.94	1.00	224.78	233.73	0.96
p_unit	timeout	timeout	-	timeout	timeout	-	46538.76	46974.10	0.99

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
p_unit_hooks	1.00	0.98	1.03	1.16	1.33	0.87	0.87	1.37	0.64
aux_filenames	18.15	16.88	1.08	19.78	18.28	1.08	35.57	33.66	1.06
tr_syntax	timeout	timeout	-	timeout	timeout	-	timeout	timeout	-
unexpand	215.79	212.00	1.02	167.68	165.80	1.01	89.43	105.23	0.85
p_unit_db	12639.96	13034.07	0.97	11689.59	11906.34	0.98	9166.68	8934.33	1.03
p_asr_package_info	0.74	0.48	1.54	0.45	0.52	0.87	0.47	0.48	0.97
native	13.69	9.07	1.51	15.81	15.26	1.04	17.04	18.64	0.91
p_canonical	timeout	timeout	-	timeout	34127.38	-	6161.06	6261.99	0.98
assrt_norm	timeout	timeout	-	timeout	timeout	-	5443.27	2884.65	1.89
p_unit_argnames	0.27	0.24	1.14	0.33	0.25	1.32	0.27	0.26	1.02
p_unit_basic	903.45	74.28	12.16	867.01	38.98	22.24	70.74	68.63	1.03
p_printer	timeout	timeout	-	timeout	timeout	-	timeout	8472.19	-
prednames	1.67	2.02	0.83	2.09	2.11	0.99	2.57	3.73	0.69
p_asr_cache	0.17	0.16	1.01	0.15	0.21	0.69	0.18	0.19	0.94
emugen_errors	72.54	81.92	0.89	49.09	55.39	0.89	56.70	65.98	0.86
emugen	0.24	0.24	1.01	0.26	0.27	0.97	0.27	0.39	0.69
emugen_tr	timeout	2190.45	-	timeout	546.70	-	342.85	380.89	0.90
emugen_ops	0.43	0.26	1.67	0.29	0.26	1.10	0.26	0.31	0.84
emugen_doc	0.16	0.16	0.96	0.19	0.18	1.06	0.18	0.17	1.05
condcomp_doc	0.17	0.16	1.01	0.17	0.24	0.69	0.19	0.35	0.54
condcomp	0.25	0.25	0.99	0.26	0.25	1.04	0.26	0.38	0.68
test4	0.27	0.32	0.85	0.28	0.27	1.02	0.28	0.29	0.95
test2	0.55	0.54	1.01	0.61	0.70	0.87	0.83	0.68	1.23
test1	0.45	0.48	0.94	0.42	0.52	0.80	0.63	0.93	0.68
test3	1.80	1.75	1.03	1.79	2.19	0.82	2.20	2.49	0.88
datafacts	0.24	0.26	0.93	0.24	0.25	0.98	0.31	0.27	1.14
datafacts_rt	8.38	8.93	0.94	10.61	11.37	0.93	13.81	16.11	0.86
datafacts_doc	0.19	0.15	1.24	0.17	0.20	0.86	0.17	0.24	0.72
foreign_interface_doc	0.16	0.20	0.78	0.17	0.17	1.03	0.20	0.17	1.16
foreign_interface_properties	7.03	7.01	1.00	7.53	7.88	0.96	10.41	10.11	1.03
foreign_interface_tr	3.14	2.74	1.15	3.33	3.48	0.96	3.04	4.66	0.65
foreign_interface	0.25	0.28	0.88	0.28	0.25	1.12	0.29	0.31	0.92
foreign_interface_properties_OC	5.65	5.69	0.99	6.37	6.85	0.93	8.41	8.19	1.03
test_all	7.36	10.45	0.70	8.67	14.78	0.59	17.33	20.37	0.85
objects	0.38	0.43	0.88	0.49	0.48	1.03	0.84	0.76	1.10

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
strings_and_atoms	0.73	0.58	1.27	0.80	0.78	1.03	1.49	1.50	1.00
byte_lists	0.41	0.42	0.98	0.52	0.52	1.00	0.87	0.90	0.97
int_lists	0.44	0.45	0.97	0.51	0.54	0.95	0.88	1.05	0.84
newtype	0.70	0.75	0.94	0.75	0.82	0.92	1.11	1.13	0.98
random	0.91	0.77	1.19	0.89	0.93	0.95	1.42	2.29	0.62
bigints	0.82	0.85	0.96	0.86	1.06	0.81	1.49	1.49	1.00
foreign_init	0.48	0.46	1.04	0.45	0.64	0.69	0.56	0.84	0.66
any_term	0.39	0.38	1.02	0.47	0.60	0.78	0.79	0.91	0.87
math	0.54	0.48	1.11	0.57	0.85	0.67	1.28	1.40	0.91
math_user	0.30	0.31	0.97	0.33	0.30	1.09	0.31	0.58	0.53
cc_stack	2.30	2.21	1.04	2.67	3.17	0.84	3.42	3.70	0.92
exceptions_example	1.07	1.15	0.93	1.28	1.23	1.04	1.85	1.86	1.00
test	1.38	1.42	0.97	1.48	1.50	0.99	1.62	1.60	1.01
test	1.04	1.09	0.95	1.13	1.40	0.80	1.31	1.49	0.88
fsmemo_doc	0.16	0.16	0.98	0.18	0.18	0.96	0.16	0.17	0.93
fsmemo_defs	0.40	0.40	1.02	0.44	0.56	0.79	0.45	0.79	0.56
fsmemo_rt	30.96	19.92	1.55	29.93	22.31	1.34	17.29	17.98	0.96
fsmemo	0.40	0.42	0.96	0.41	0.47	0.87	0.44	0.54	0.82
hiord	0.30	0.29	1.01	0.26	0.39	0.67	0.28	0.29	0.96
fsimp	15.27	17.04	0.90	16.26	17.72	0.92	19.81	21.79	0.91
ops	0.29	0.27	1.06	0.25	0.26	0.97	0.26	0.34	0.77
fastchecks	0.18	0.16	1.09	0.16	0.24	0.67	0.18	0.24	0.76
rtchecks_cached_doc	0.16	0.15	1.06	0.16	0.18	0.90	0.18	0.20	0.93
rtchecks_cached_rt	49.58	16.20	3.06	51.76	17.62	2.94	17.29	19.16	0.90
cond_undo_cache	1.44	0.76	1.89	1.78	1.68	1.06	1.47	0.82	1.78
rtchecks_cached	0.25	0.27	0.92	0.29	0.28	1.06	0.28	0.41	0.68
rtchecks_cached_tr	timeout	86793.74	-	39230.18	12543.39	3.13	2802.31	1576.73	1.78
optparse	0.33	0.31	1.08	0.32	0.43	0.75	0.34	0.34	0.98
optparse_rt	901.31	87.36	10.32	923.85	78.27	11.80	4.58	5.40	0.85
optparse_tr	timeout	timeout	-	timeout	timeout	-	32.18	29.68	1.08
dcg_tr	78871.35	77198.84	1.02	10548.53	9484.39	1.11	462.53	564.54	0.82
dcg_phrase_doc	0.23	0.16	1.41	0.14	0.17	0.88	0.19	0.23	0.83
dcg	0.26	0.25	1.04	0.26	0.30	0.86	0.00	0.39	0.26
dcg_phrase	0.28	0.36	0.78	0.32	0.56	0.57	0.32	0.61	0.52
dcg_phrase_rt	1.28	1.65	0.77	1.38	1.48	0.93	1.30	2.19	0.59

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
dcg_ops	0.26	0.34	0.76	0.10	0.27	0.37	0.26	0.40	0.65
dcg_doc	0.16	0.16	1.00	0.35	0.19	1.88	0.17	0.21	0.78
phrase_test	2.84	3.55	0.80	3.43	3.55	0.97	4.54	5.19	0.88
regtypes_doc	0.00	0.16	0.61	0.16	0.20	0.80	0.17	0.20	0.82
regtypes_tr	0.62	0.63	0.98	0.63	0.75	0.85	0.69	0.70	0.98
regtypes	0.25	0.26	0.98	0.25	0.42	0.61	0.28	0.40	0.68
concurrency	12.82	12.93	0.99	13.65	13.26	1.03	16.26	18.48	0.88
examples	13.04	16.49	0.79	14.81	18.14	0.82	20.20	24.06	0.84
e	0.57	0.64	0.89	0.64	0.81	0.80	0.79	1.06	0.75
foo	1.97	2.23	0.88	2.06	2.27	0.91	2.43	2.60	0.93
goo	2.64	0.77	3.41	2.74	2.76	0.99	5.32	3.93	1.35
modes	0.26	0.26	1.03	0.28	0.27	1.03	0.25	0.42	0.60
modes_doc	0.89	0.90	0.99	1.00	1.43	0.70	1.00	1.07	0.93
argnames_fsyntax	0.21	0.17	1.23	0.23	0.23	1.03	0.26	0.20	1.33
nativeprops	0.37	0.27	1.35	0.32	0.26	1.27	0.38	0.29	1.31
counters	1.67	1.72	0.97	2.91	2.09	1.39	2.40	2.20	1.09
queues	6.09	6.05	1.01	6.48	6.51	1.00	3.40	3.83	0.89
arithpreds	6.70	6.55	1.02	8.09	7.76	1.04	8.40	7.74	1.09
listing	4.21	3.34	1.26	4.33	2.97	1.46	5.34	4.59	1.16
formulae	30.80	30.08	1.02	43.19	49.72	0.87	50.09	52.80	0.95
ttyout	3.42	3.40	1.00	3.86	3.65	1.06	4.73	4.70	1.01
version_strings	20.47	17.23	1.19	19.24	15.38	1.25	40.21	38.39	1.05
symlink_locks	38.68	3.55	10.90	42.77	4.63	9.24	6.33	6.05	1.05
io_alias_redirection	1.11	1.26	0.88	1.40	0.96	1.46	1.41	1.37	1.03
assoc	timeout	timeout	-	timeout	timeout	-	408.18	402.11	1.02
functions	0.39	0.28	1.40	0.31	0.24	1.30	0.32	0.34	0.95
sortnums	32.97	19.27	1.71	33.26	20.16	1.65	16.88	17.19	0.98
terms_io	1.30	5.28	0.25	6.03	6.72	0.90	7.81	8.16	0.96
iso_incomplete	55.33	58.31	0.95	39.12	31.39	1.25	71.98	65.31	1.10
pretty_print	35.49	36.51	0.97	41.83	47.79	0.88	44.17	49.25	0.90
prompt	1.87	2.07	0.90	2.45	2.18	1.13	2.80	2.87	0.98
text_template	17.29	13.63	1.27	18.71	13.88	1.35	41.25	35.46	1.16
lsets	548.53	493.58	1.11	502.44	348.90	1.44	592.38	549.06	1.08
terms_check	90.48	91.95	0.98	29.80	31.81	0.94	26.24	26.09	1.01
idlists	13.83	14.77	0.94	21.36	21.76	0.98	20.94	19.04	1.10

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
archive_files	101.92	99.71	1.02	94.14	87.84	1.07	44.69	39.05	1.14
parse_spec	66.03	58.59	1.13	60.12	54.88	1.10	26.31	26.35	1.00
keys	33.67	33.65	1.00	27.97	27.56	1.01	2.99	2.87	1.04
glob	362.49	37.42	9.69	335.48	36.61	9.16	134.14	66.79	2.01
iso_char	8.20	7.90	1.04	8.65	11.70	0.74	16.83	15.64	1.08
conc_aggregates	4.93	5.82	0.85	5.56	5.87	0.95	6.58	6.76	0.97
system_extra	13835.06	12712.88	1.09	9838.64	8227.61	1.20	1292.18	1328.85	0.97
hiordlib	timeout	timeout	-	timeout	timeout	-	316.70	311.69	1.02
opendoc	8.79	8.99	0.98	9.29	9.62	0.97	13.29	13.56	0.98
logged_process	24899.57	165.57	150.39	24208.86	128.20	188.84	71.20	19.48	3.66
numlists	5.21	5.43	0.96	5.73	6.00	0.96	7.54	8.05	0.94
use_url	11.08	9.66	1.15	11.13	9.23	1.21	7.83	7.65	1.02
sh_process	1.12	1.15	0.98	1.47	1.33	1.10	1.47	1.45	1.01
terms_vars	30.79	36.89	0.83	42.90	48.12	0.89	34.75	36.12	0.96
datetime	timeout	742.76	-	timeout	886.23	-	1127.60	1107.31	1.02
bitcodesets	456.65	472.57	0.97	447.47	457.93	0.98	21.02	22.64	0.93
vndict	2349.65	1814.99	1.29	2609.38	994.63	2.62	71.54	72.84	0.98
functional	0.43	0.33	1.31	0.54	0.51	1.06	0.12	0.11	1.11
arrays	77.84	77.30	1.01	81.82	77.51	1.06	25.87	28.00	0.92
getopts	50.93	53.58	0.95	32.93	34.85	0.94	44.78	75.98	0.59
parse_shell_args	7.89	8.17	0.97	7.30	7.08	1.03	11.42	10.17	1.12
mutables	2.40	2.71	0.89	3.11	2.80	1.11	4.86	4.47	1.09
clp	0.23	0.18	1.31	0.25	0.01	22.45	0.27	0.16	1.62
version_strings.test	1.96	1.60	1.22	2.23	1.77	1.26	3.35	2.86	1.17
mtarjan	34.94	19.57	1.79	46.30	20.72	2.23	26.81	25.94	1.03
diff	8384.49	3232.31	2.59	6005.52	1511.38	3.97	38.91	43.94	0.89
loops	0.84	0.61	1.36	1.21	0.73	1.66	1.15	0.80	1.43
iso_misc	9.55	9.83	0.97	11.10	11.51	0.96	14.89	10.56	1.41
random_aggregates	5.57	4.18	1.33	4.54	4.71	0.96	5.42	6.29	0.86
global_vars	1.98	1.95	1.02	2.28	1.97	1.15	3.89	2.76	1.41
argnames_doc	0.52	0.36	1.42	0.30	0.22	1.35	0.65	0.28	2.31
argnames_trans	796.59	695.07	1.15	329.08	309.71	1.06	154.17	137.73	1.12
argnames	0.40	0.42	0.96	0.45	0.11	4.05	0.14	0.30	0.49
zebra_argnames	timeout	timeout	-	timeout	timeout	-	timeout	timeout	-
simple_db	4.34	4.03	1.08	4.72	5.57	0.85	2.64	2.73	0.97

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
argnames_test	3.05	2.42	1.26	2.56	2.50	1.02	3.51	2.77	1.27
md5sum	2.75	2.86	0.96	3.31	3.24	1.02	5.78	6.05	0.96
andorra_builtins	392.83	401.55	0.98	385.20	397.91	0.97	26.66	34.82	0.77
andorraops	0.42	0.26	1.61	0.37	0.29	1.25	0.42	0.28	1.51
andorra_tr	timeout	13582.33	-	timeout	5899.48	-	179.42	187.86	0.96
andorra	0.39	0.27	1.43	0.58	0.32	1.81	0.45	0.28	1.63
andorra_rt	310.01	113.39	2.73	306.28	109.19	2.81	60.77	56.92	1.07
andorra_doc	0.57	0.55	1.03	0.63	0.55	1.15	0.69	0.48	1.43
andorra_builtins_exports	1.57	1.64	0.96	1.50	1.54	0.98	1.74	1.54	1.13
map_and	timeout	timeout	-	timeout	timeout	-	timeout	timeout	-
mqu_and	timeout	timeout	-	timeout	timeout	-	timeout	timeout	-
crypt_and	timeout	timeout	-	timeout	timeout	-	timeout	timeout	-
map_and_user	timeout	36475.42	-	timeout	29992.22	-	timeout	56.22	-
map	3.56	3.81	0.93	4.21	4.10	1.03	5.33	5.93	0.90
money_and	timeout	timeout	-	timeout	timeout	-	timeout	30587.79	-
mqu	6.52	11.00	0.59	8.87	8.68	1.02	12.32	13.29	0.93
crypt	7.13	7.42	0.96	7.65	8.71	0.88	15.78	16.52	0.95
mqu_and_user	timeout	timeout	-	timeout	timeout	-	timeout	287.15	-
money_and_user	timeout	timeout	-	timeout	timeout	-	timeout	28571.91	-
money	timeout	timeout	-	timeout	timeout	-	timeout	30225.02	-
crypt_and_user	timeout	timeout	-	timeout	timeout	-	4546.50	4314.11	1.05
qu_vitor	3.46	3.17	1.09	3.85	3.50	1.10	3.84	3.94	0.97
qu_evan	2.96	2.99	0.99	3.92	3.67	1.07	4.75	4.46	1.06
fib_and1p1	62004.11	154.42	401.54	57838.01	124.60	464.20	19.35	19.13	1.01
ejem1	timeout	25072.54	-	timeout	23125.39	-	91.82	94.83	0.97
mutest_and1p1	6580.54	6126.35	1.07	7989.77	6115.32	1.31	1089.27	1076.18	1.01
map_and	timeout	timeout	-	timeout	timeout	-	timeout	timeout	-
mqu_and1p1	timeout	timeout	-	timeout	timeout	-	5495.03	5281.44	1.04
dia_sums_and_user	timeout	timeout	-	timeout	timeout	-	timeout	timeout	-
fib_and	timeout	9111.44	-	timeout	8555.17	-	25.69	26.88	0.96
foo	0.84	0.46	1.84	0.97	0.77	1.26	0.74	0.65	1.14
mqu_and	timeout	timeout	-	timeout	timeout	-	timeout	timeout	-
crypt_and	timeout	timeout	-	timeout	timeout	-	timeout	timeout	-
crypt_and1p1	timeout	27421.26	-	timeout	11434.72	-	824.83	405.33	2.03
map_and_user	timeout	35234.97	-	timeout	30715.34	-	timeout	50.83	-

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
dia_sums	2.99	8.08	0.37	4.15	7.99	0.52	5.73	8.52	0.67
qu_vitor_and_user	timeout	10752.35	-	timeout	9981.60	-	150.32	155.43	0.97
mutest_and_user	timeout	timeout	-	timeout	timeout	-	1660.39	1835.75	0.90
money_and1p1	timeout	timeout	-	timeout	140205.56	-	timeout	232.55	-
map	3.54	3.81	0.93	3.78	4.15	0.91	5.89	5.69	1.03
qu_vitor_and	timeout	timeout	-	timeout	timeout	-	7573.45	7758.25	0.98
qu_evan_and	timeout	timeout	-	timeout	timeout	-	3240.71	3530.90	0.92
money_and	timeout	timeout	-	timeout	timeout	-	timeout	29215.79	-
mutest	5.08	5.34	0.95	5.62	5.78	0.97	7.59	7.38	1.03
mutest_and	timeout	timeout	-	timeout	timeout	-	1681.39	1842.46	0.91
dia_sums_and1p1	timeout	timeout	-	timeout	timeout	-	527.25	528.17	1.00
mqu	10.84	10.84	1.00	9.07	10.20	0.89	12.12	11.72	1.03
crypt	6.35	7.91	0.80	6.05	8.43	0.72	15.97	12.75	1.25
fib	1.02	0.99	1.03	1.00	1.08	0.92	1.24	1.27	0.98
fib_and_user	timeout	946.24	-	timeout	759.66	-	11.92	12.42	0.96
dia_sums_and	timeout	timeout	-	timeout	timeout	-	timeout	timeout	-
mqu_and_user	timeout	timeout	-	timeout	timeout	-	timeout	286.96	-
defineq	106.50	106.66	1.00	103.66	103.78	1.00	6.25	6.18	1.01
qu_evan_and1p1	timeout	6935.39	-	timeout	6873.94	-	439.93	451.79	0.97
money_and_user	timeout	timeout	-	timeout	timeout	-	timeout	29961.15	-
qu_vitor_and1p1	timeout	687.21	-	timeout	644.94	-	49.96	52.01	0.96
money	3.84	5.35	0.72	4.85	6.28	0.77	9.37	9.81	0.96
map_and1p1	77328.44	1835.06	42.14	71241.36	1424.91	50.00	32.75	34.17	0.96
crypt_and_user	timeout	timeout	-	timeout	timeout	-	4723.34	4545.38	1.04
bench2	0.27	0.18	1.51	0.27	0.21	1.30	0.41	0.19	2.10
qu_evan_and_user	timeout	17729.40	-	timeout	16623.39	-	104.41	111.77	0.93
qe_andorra_lib	13.03	9.38	1.39	12.75	12.82	0.99	12.29	11.03	1.11
visandor	2.13	1.96	1.09	2.85	2.17	1.32	2.53	2.55	0.99
apll	14.73	14.34	1.03	15.86	15.32	1.04	19.55	18.88	1.04
backtr_join	85.92	90.66	0.95	86.86	90.81	0.96	85.91	82.72	1.04
layout_dcg	0.32	0.35	0.93	0.42	0.30	1.40	0.65	0.30	2.16
layout_dcg_rt	18.96	21.55	0.88	22.33	25.25	0.88	22.46	23.07	0.97
runtime_ops_doc	0.21	0.16	1.27	0.38	0.01	29.38	0.26	0.21	1.25
runtime_ops	0.62	0.25	2.45	0.36	0.31	1.17	0.35	0.32	1.11
runtime_ops_tr	0.85	0.77	1.09	1.12	0.69	1.63	0.78	0.67	1.16

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
regexp_code	1969.40	1837.79	1.07	2020.86	1686.20	1.20	1307.30	1157.49	1.13
regexp_doc	0.23	0.18	1.29	0.19	0.17	1.10	0.22	0.16	1.40
regexp_flags	0.75	0.55	1.37	0.88	0.67	1.30	1.43	1.05	1.36
regexp_trans	15.69	14.99	1.05	16.86	16.42	1.03	16.11	14.12	1.14
regexp	0.53	0.27	1.94	0.33	0.29	1.15	0.51	0.30	1.73
classic_predicates	15.27	18.88	0.81	15.78	15.02	1.05	21.51	13.03	1.65
classic_doc	0.31	0.33	0.96	0.59	0.27	2.19	0.67	0.25	2.66
classic	0.38	0.31	1.25	0.47	0.30	1.58	0.46	0.25	1.83
service_registry	9.71	9.99	0.97	10.82	11.16	0.97	14.68	14.83	0.99
serve_http	11.65	10.70	1.09	12.88	11.85	1.09	12.19	11.73	1.04
service_loader	33.08	33.46	0.99	33.81	32.33	1.05	12.55	11.47	1.09
actmod_ctl	32.33	30.34	1.07	31.38	31.22	1.01	7.24	2.68	2.70
expander_tr	48.64	21.81	2.23	58.99	25.17	2.34	23.28	27.40	0.85
mio	0.59	0.50	1.17	0.66	0.61	1.09	1.08	0.70	1.54
det_hook_tr	1.16	1.11	1.05	1.35	1.28	1.06	1.48	0.97	1.53
det_hook_rt	2.85	2.73	1.05	0.61	0.61	1.00	4.16	3.41	1.22
det_hook_doc	0.22	0.17	1.35	0.17	0.16	1.05	0.44	0.19	2.32
det_hook	0.34	0.26	1.32	0.33	0.27	1.23	0.41	0.30	1.35
example	1.01	4.90	0.21	6.02	6.74	0.89	7.55	6.95	1.09
enumerate	0.30	1.37	0.22	2.09	1.72	1.21	2.39	0.23	10.61
example2	3.38	4.21	0.80	3.80	4.61	0.82	6.34	6.18	1.03
error_templates	1.49	1.74	0.86	1.61	1.26	1.27	1.95	1.89	1.03
ops	0.33	0.28	1.18	0.48	0.24	2.01	0.32	0.57	0.56
color_space	12.37	13.50	0.92	12.54	13.72	0.91	23.70	23.84	0.99
json	40.48	49.59	0.82	47.35	52.14	0.91	59.64	64.43	0.93
pillow	0.35	0.34	1.03	0.30	0.37	0.80	0.31	0.24	1.28
pillow_doc	0.46	0.18	2.49	0.35	0.18	1.97	0.46	0.17	2.75
html	907.83	844.37	1.08	1406.85	824.95	1.71	timeout	817.05	-
xmlterm	9.60	10.28	0.93	6.83	6.83	1.00	5.48	5.55	0.99
html_demo	0.47	0.26	1.84	0.22	0.00	2.20	0.49	0.36	1.35
cookies	4.18	4.69	0.89	4.51	4.66	0.97	8.70	7.90	1.10
phones	0.78	0.54	1.46	0.79	0.55	1.43	0.77	0.56	1.37
check_links	9.84	10.32	0.95	12.68	12.36	1.03	15.71	14.94	1.05
html_forms	1.31	1.11	1.18	1.38	1.12	1.23	1.33	0.95	1.39
pillow.hooks	0.29	0.24	1.23	0.34	0.18	1.93	0.24	0.18	1.31

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
Make_aux	0.35	0.29	1.21	0.26	0.25	1.01	0.58	0.25	2.29
adds_eclipse	2.39	2.11	1.13	2.02	2.02	1.00	2.11	1.97	1.07
adds_yap	2.15	2.23	0.96	2.18	2.04	1.07	2.29	2.21	1.04
adds_sicstus	2.20	1.85	1.19	2.26	1.96	1.15	2.31	2.18	1.06
icon_address	0.49	0.27	1.86	0.42	0.34	1.25	0.66	0.46	1.44
ops_eclipse	0.19	0.22	0.89	0.25	0.16	1.59	0.20	0.17	1.18
SETTINGS	4.36	4.10	1.06	4.75	4.29	1.11	5.74	5.81	0.99
freeze__old	0.32	0.16	1.96	0.42	0.18	2.35	0.23	0.16	1.37
freeze	4.28	3.60	1.19	4.53	4.15	1.09	12.83	10.68	1.20
sendmoney_freeze	23573.34	349.44	67.46	25560.43	307.94	83.00	3763.67	44.27	85.03
sort_freeze	9.63	10.85	0.89	12.15	12.96	0.94	18.39	20.55	0.89
queens_freeze	12.74	11.49	1.11	14.97	14.08	1.06	14.91	15.25	0.98
nreverse_freeze	8.89	10.92	0.81	11.69	12.03	0.97	14.20	14.11	1.01
actmod_doc	0.39	0.29	1.34	0.41	0.26	1.57	0.37	0.29	1.27
actmod_rt	210.10	168.20	1.25	207.02	146.46	1.41	101.21	103.80	0.98
actmod_process	46.15	42.09	1.10	43.68	45.90	0.95	26.99	25.63	1.05
actmod_hooks	27.52	26.39	1.04	27.22	26.04	1.05	1.72	1.93	0.89
regp_platformserver	29.07	28.25	1.03	29.46	28.88	1.02	3.76	3.70	1.02
actmod_dist	89.69	71.41	1.26	84.57	69.49	1.22	51.83	60.08	0.86
rundaemon	0.68	0.61	1.12	0.79	0.70	1.14	0.80	0.62	1.29
filebased_common	6.68	7.15	0.93	7.08	7.46	0.95	8.47	7.05	1.20
actmod_holder	0.96	0.74	1.31	1.03	0.73	1.41	1.15	0.74	1.54
regp_filebased	36.73	28.85	1.27	34.06	31.60	1.08	7.74	6.48	1.19
regp_webserver	29.64	29.21	1.01	29.02	28.00	1.04	1.32	4.15	0.32
actmod	29.64	24.07	1.23	28.32	27.37	1.03	2.97	2.82	1.05
regp_webbased	30.73	31.83	0.97	31.56	30.07	1.05	1.84	5.84	0.32
actmod_tr	102.93	71.36	1.44	97.44	70.93	1.37	37.39	30.12	1.24
webbased_common	3.80	3.27	1.16	4.14	4.00	1.04	5.25	8.90	0.59
regp_platformbased	31.68	30.95	1.02	31.26	31.64	0.99	7.49	6.55	1.14
simple_server	28.85	29.78	0.97	28.81	29.23	0.99	4.37	3.62	1.21
simple_client	29.84	29.15	1.02	30.34	30.18	1.01	5.30	4.98	1.07
simple_client_with_main	31.78	31.58	1.01	32.26	31.43	1.03	7.00	6.88	1.02
webbased_simple_client	29.49	29.86	0.99	29.18	30.10	0.97	0.52	4.99	0.11
send	29.14	28.19	1.03	30.30	27.72	1.09	3.47	3.28	1.06
agent2	0.29	1.82	0.16	2.19	2.12	1.03	2.18	2.01	1.08

module	share			shfr			shfr-clique		
	TC	**TT**	$\rho\mathbf{T}$	**TC**	**TT**	$\rho\mathbf{T}$	**TC**	**TT**	$\rho\mathbf{T}$
agent1	2.11	2.19	0.96	2.11	1.86	1.13	2.09	1.96	1.07
test	29.73	28.66	1.04	28.29	27.69	1.02	3.41	3.27	1.04
nameserver	31.64	31.22	1.01	31.49	28.00	1.12	5.35	5.04	1.06
tmpbased_locate	27.37	27.92	0.98	27.91	28.05	0.99	3.01	2.10	1.43
SETTINGS_actmod	4.77	4.35	1.10	5.26	6.33	0.83	5.95	6.38	0.93
guess_current_exec	0.61	0.51	1.20	0.50	0.50	1.00	0.70	0.40	1.75
tmpbased_publish	24.34	23.18	1.05	23.29	19.76	1.18	3.00	2.09	1.44
emacs_batch	4.79	5.30	0.90	5.70	5.91	0.96	10.97	12.23	0.90
emacs	6.28	6.17	1.02	6.68	3.28	2.04	8.44	8.91	0.95
commons_compat_tr	0.36	0.29	1.21	0.22	0.17	1.30	0.17	0.17	0.97
yap_compat_tr	146.26	113.96	1.28	93.44	89.17	1.05	16.93	65.74	0.26
yap_compat_ops	0.42	0.43	0.98	0.11	0.32	0.34	0.30	0.28	1.07
commons	0.22	0.19	1.18	0.24	0.19	1.30	0.18	0.20	0.92
hprolog	0.39	0.16	2.39	0.29	0.16	1.81	0.67	0.17	3.87
yap_compat	0.41	0.31	1.34	0.32	0.32	1.01	0.42	0.34	1.24
hprolog_compat	0.58	0.29	2.04	0.56	0.32	1.78	0.51	0.25	2.06
yap	0.24	0.19	1.28	0.25	0.17	1.51	0.42	0.03	13.61
commons_compat_ops	0.42	0.28	1.50	0.42	0.35	1.21	0.48	0.26	1.85
commons_modes	0.25	0.17	1.45	0.28	0.17	1.60	0.42	0.20	2.13
commons_compat	0.39	0.32	1.21	0.49	0.28	1.76	0.39	0.10	3.77
ciao_server_rt	4.48	4.26	1.05	4.66	1.05	4.45	5.97	1.84	3.24
ops	0.43	0.29	1.51	0.38	0.33	1.14	0.67	0.33	2.04
ciao_server	8.14	8.09	1.01	10.06	9.54	1.06	6.84	11.82	0.58
socket_info	0.67	0.34	1.98	0.44	0.41	1.08	0.56	0.81	0.69
remote_doc	0.77	0.69	1.11	0.97	0.76	1.27	0.87	0.61	1.43
ciao_client	4.03	3.90	1.03	4.73	4.67	1.01	9.49	5.55	1.71
ciao_client_rt	2.55	3.15	0.81	2.83	2.95	0.96	3.22	3.25	0.99
read_and_write	3.90	0.74	5.27	3.53	3.91	0.90	5.74	4.05	1.42
queens_with_delays	2.59	3.19	0.81	2.76	3.09	0.89	3.96	3.63	1.09
simpleclp	0.92	0.74	1.25	0.65	0.72	0.90	0.91	0.58	1.58
queens	2.60	2.51	1.04	0.46	2.50	0.18	3.30	2.99	1.10
queensclp	28.26	11.58	2.44	29.18	11.75	2.48	6.93	7.22	0.96
ciao_server.bak	3.32	3.47	0.95	4.25	3.72	1.14	5.11	4.40	1.16
ciao_client.works	3.55	3.51	1.01	4.00	3.81	1.05	4.32	3.82	1.13
ciao_server.works	4.97	6.56	0.76	5.96	5.10	1.17	1.63	5.26	0.31

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
ciao_server.bak.old	4.38	4.76	0.92	1.47	1.15	1.28	5.32	4.91	1.08
ciao_client.keep_stream	3.46	3.71	0.93	4.57	3.61	1.27	5.24	4.38	1.20
ciao_client.bak	3.39	3.12	1.09	0.83	3.27	0.25	3.84	3.25	1.18
ciao_server.keep_stream	3.69	4.13	0.89	3.89	3.69	1.05	4.84	4.68	1.03
ciao_client.bak.old	4.72	3.12	1.52	3.33	3.33	1.00	4.96	3.90	1.27
unif_constr	5.08	4.98	1.02	5.46	1.62	3.38	8.02	6.52	1.23
measure_size	6.11	6.56	0.93	7.66	7.25	1.06	8.32	7.63	1.09
xrefs	1.83	2.21	0.83	2.27	2.23	1.02	2.43	2.33	1.04
xrefsread	1050.11	197.54	5.32	1061.41	194.96	5.44	158.83	95.42	1.66
xrefsbuild	201.00	153.77	1.31	142.78	112.45	1.27	29.07	33.69	0.86
callgraph	14.90	15.10	0.99	28.20	30.79	0.92	25.94	26.14	0.99
xrefs2graph	321.90	335.25	0.96	299.69	308.59	0.97	9.73	8.65	1.12
pxrefs	3.34	3.11	1.07	3.35	3.35	1.00	4.28	4.09	1.05
mrefs	1.80	1.67	1.07	2.17	1.97	1.10	2.93	2.75	1.06
xrefs_doc	0.42	0.27	1.54	0.44	0.19	2.35	0.00	0.19	0.52
SETTINGS	4.51	3.97	1.14	4.40	4.37	1.01	5.53	5.40	1.02
symfnames	2.32	1.90	1.22	2.17	2.31	0.94	2.78	2.58	1.08
myfiles	0.38	0.00	3.81	0.40	0.37	1.07	0.31	0.31	1.01
main	0.67	0.40	1.67	0.26	0.40	0.64	0.78	0.76	1.02
mm	0.21	0.87	0.24	1.23	1.16	1.06	1.40	1.12	1.25
stream_wait	2.85	2.63	1.08	3.96	3.00	1.32	4.50	3.87	1.16
file_locks	1.76	1.27	1.38	1.84	1.56	1.18	4.01	3.03	1.32
http_forms	71.02	44.51	1.60	77.99	48.93	1.59	73.67	77.78	0.95
http_date	1925.16	291.76	6.60	1754.56	234.96	7.47	175.86	195.74	0.90
http_service	1.76	1.58	1.11	2.09	1.76	1.19	3.29	2.52	1.30
http_service_rt	3.14	3.08	1.02	3.83	3.67	1.04	5.79	8.16	0.71
multipart_form_data	204.16	61.88	3.30	193.94	50.36	3.85	31.52	26.59	1.19
http_client	9.51	7.74	1.23	10.76	8.33	1.29	12.80	13.13	0.97
mimetypes	1.55	1.69	0.92	1.91	1.69	1.13	2.91	2.69	1.09
http_server_hooks	0.79	0.45	1.77	0.51	0.55	0.94	1.07	0.46	2.33
http_messages	5740.38	36.38	157.78	5375.75	40.64	132.26	25.81	31.01	0.83
http_server	7472.34	938.63	7.96	12446.83	1080.47	11.52	1309.46	1256.63	1.04
cgi	46.57	23.73	1.96	18.50	16.03	1.15	19.75	20.41	0.97
url	13.57	18.61	0.73	17.86	18.72	0.95	24.42	26.90	0.91
http_grammar	79.24	53.26	1.49	83.53	58.26	1.43	56.77	49.11	1.16

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
http_doc	0.20	0.21	0.93	0.25	0.17	1.47	0.23	0.01	21.36
multipart_from_stream	3.84	3.84	1.00	0.50	3.58	0.14	3.68	3.66	1.01
af	0.45	0.38	1.21	0.59	0.28	2.12	0.40	0.35	1.16
ops	0.63	0.53	1.19	0.43	0.50	0.87	0.28	0.26	1.07
sr	0.36	0.31	1.18	0.49	0.27	1.82	0.55	0.45	1.24
sr_tr	13.92	14.26	0.98	15.15	15.29	0.99	15.20	14.12	1.08
bf	0.42	0.29	1.45	0.34	0.31	1.08	0.46	0.31	1.49
bfall	0.75	0.57	1.33	0.44	0.55	0.80	0.55	0.47	1.17
bf_rt	0.77	0.72	1.07	0.70	0.64	1.09	0.72	0.51	1.40
af_rt	0.73	0.65	1.13	0.79	0.65	1.21	0.68	0.60	1.15
bf_doc	0.21	0.17	1.19	0.22	0.20	1.11	0.20	0.17	1.21
afall	0.79	0.64	1.23	0.64	0.60	1.07	0.76	0.61	1.25
chain	25.97	29.38	0.88	31.30	27.71	1.13	24.04	25.43	0.95
chain_bfall	35.42	36.91	0.96	37.65	37.36	1.01	24.26	25.15	0.96
sublistapp	66.57	65.71	1.01	59.68	60.52	0.99	5609.79	5365.11	1.05
toplevel_proc	18.30	12.13	1.51	19.80	13.53	1.46	23.99	21.25	1.13
ugraphs	1836.88	1774.00	1.04	1510.08	1498.18	1.01	70.35	77.99	0.90
graphs	13.84	13.15	1.05	6.45	5.77	1.12	7.52	7.28	1.03
lgraphs	27.29	27.53	0.99	24.53	25.04	0.98	8.31	9.10	0.91
modblobs	6.43	9.88	0.65	11.43	10.26	1.11	15.80	13.00	1.22
vcs_git	1.73	1.72	1.01	1.87	1.63	1.15	2.74	2.62	1.05
vcs_svn	6.89	4.81	1.43	7.91	2.81	2.81	23.11	16.06	1.44
subversion	0.19	0.17	1.12	0.19	0.16	1.14	0.18	0.16	1.12
soap	24.70	17.17	1.44	22.76	16.63	1.37	17.27	10.66	1.62
toplevel	0.37	0.18	2.10	0.35	0.20	1.72	0.30	0.26	1.13
example	0.92	0.57	1.62	0.66	0.54	1.21	0.78	0.69	1.12
soap_server	88.31	89.48	0.99	88.23	91.85	0.96	6.53	6.17	1.06
server	0.65	0.66	0.98	0.76	0.65	1.17	0.77	0.64	1.21
client	0.83	0.63	1.30	0.85	0.54	1.57	0.79	0.68	1.15
soap_client	1.63	1.05	1.55	1.52	1.22	1.25	2.06	1.43	1.45
server	1.58	1.49	1.06	1.92	1.56	1.22	2.06	1.62	1.27
client	0.31	0.23	1.36	0.37	0.21	1.77	0.29	0.19	1.51
block_tr	39.02	40.18	0.97	35.83	166.55	0.22	16.00	24.48	0.65
block_rt	6.17	6.50	0.95	7.26	7.17	1.01	6.77	6.59	1.03
block	0.57	0.29	2.00	0.40	0.27	1.50	0.54	0.32	1.68

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
block_doc	0.33	0.17	1.88	0.33	0.18	1.78	0.45	0.16	2.78
block_example	timeout	timeout	-	timeout	timeout	-	timeout	timeout	-
http_get	2.18	2.01	1.09	2.82	2.29	1.23	2.91	2.86	1.02
factsdb	0.21	0.38	0.56	0.54	0.40	1.36	0.79	0.39	2.01
factsdb_tr	1.59	1.27	1.26	1.61	1.33	1.21	1.65	1.98	0.84
factsdb_rt	14.15	12.90	1.10	15.98	13.88	1.15	11.73	12.32	0.95
factsdb_doc	0.33	0.26	1.27	0.51	0.52	0.99	0.61	0.27	2.28
dfib	0.34	0.62	0.56	0.89	0.86	1.03	0.77	0.92	0.84
fibdb	0.44	0.31	1.45	0.45	0.34	1.31	0.55	0.32	1.71
fib	1.39	1.68	0.82	1.40	1.25	1.12	1.21	0.96	1.26
ffib	0.47	0.40	1.16	0.64	0.57	1.12	0.56	0.39	1.42
fib0_2	2.16	2.17	1.00	2.30	2.11	1.09	2.54	2.10	1.21
fib0_2_ops	0.60	0.38	1.60	0.41	0.29	1.40	0.42	0.43	0.98
p	0.39	0.50	0.77	0.49	0.33	1.45	0.67	0.36	1.85
cache_rt	1.07	0.97	1.10	1.20	1.13	1.06	1.41	1.23	1.15
cache_doc	0.30	0.22	1.35	0.39	0.24	1.61	0.31	0.27	1.16
cache_tr	1.34	1.05	1.28	1.14	1.66	0.68	1.68	1.34	1.25
cache_rt	4.79	5.42	0.88	5.48	5.90	0.93	5.51	6.11	0.90
cache_tr	2.38	2.64	0.90	2.19	2.46	0.89	2.60	3.07	0.85
cache_rt2	3.52	3.74	0.94	4.24	4.19	1.01	4.87	4.32	1.13
functionstr	105919.64	48199.34	2.20	85682.33	34515.50	2.48	606.11	598.50	1.01
ops	0.48	0.38	1.24	0.45	0.31	1.45	0.52	0.27	1.94
fsyntax	0.34	0.34	1.00	0.42	0.29	1.44	0.30	0.35	0.86
functional_basics	1.12	1.05	1.07	1.56	1.06	1.48	1.14	1.43	0.80
fsyntax_doc	0.32	0.19	1.73	0.26	0.16	1.58	0.39	0.19	1.99
functional_defs	0.21	0.20	1.04	0.23	0.23	0.97	0.20	0.17	1.20
factf_fsyntax	1.12	0.75	1.48	1.22	0.87	1.40	1.22	1.35	0.90
lazyex	6.24	6.25	1.00	6.99	6.65	1.05	6.43	2.03	3.17
revf	3.19	2.76	1.15	3.74	3.61	1.04	3.84	3.64	1.05
lazy_simpler	3.55	4.32	0.82	4.20	4.61	0.91	4.97	2.22	2.24
fib_fun	1.37	1.61	0.85	1.95	1.91	1.02	2.32	2.27	1.02
factf_assrt	0.95	0.84	1.12	1.32	1.06	1.24	1.47	1.06	1.38
factf_arithclpq_assrt	1.79	1.54	1.16	1.96	1.65	1.19	2.61	1.88	1.39
revf_assrt_new	5.05	4.65	1.09	6.67	6.13	1.09	17.14	16.18	1.06
arrays_ops	0.19	0.19	1.00	0.38	0.24	1.60	0.20	0.16	1.22

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
arrays_test	2.14	1.78	1.20	2.67	2.12	1.26	6.14	5.70	1.08
open_file_f_wide	4.28	4.14	1.03	4.74	4.52	1.05	7.71	7.99	0.96
hiordfun	timeout	4.04	-	timeout	4.44	-	76221.49	3.53	21580.26
deriv	3.08	3.01	1.02	3.08	3.10	0.99	3.93	3.46	1.14
arrays_rt	13.00	13.74	0.95	15.60	15.95	0.98	28.79	26.56	1.08
arrays	0.53	0.27	1.95	0.47	0.36	1.31	0.48	0.36	1.32
append	0.95	0.72	1.32	0.87	0.77	1.12	1.04	0.79	1.32
clpqf	0.26	0.16	1.60	0.23	0.17	1.36	0.25	0.41	0.61
lazy_simple	2.00	1.80	1.11	2.55	2.34	1.09	2.80	2.69	1.04
factf	0.81	0.83	0.97	1.02	1.03	1.00	1.01	1.38	0.73
factf_clpq_assrt	1.65	1.69	0.98	1.78	1.70	1.05	2.00	2.18	0.92
revf_assrt_bug	3.97	3.62	1.10	4.46	4.55	0.98	0.88	4.54	0.19
propsf	21.02	23.79	0.88	24.61	20.64	1.19	18.00	18.89	0.95
max	2.82	2.65	1.06	3.22	2.96	1.09	3.59	4.06	0.88
when__old	0.36	0.16	2.23	0.19	0.20	0.97	0.19	0.17	1.11
when	47307.62	178.32	265.29	12748.15	58.20	219.04	2833.53	26.68	106.22
bench	1.41	1.17	1.20	1.43	1.24	1.15	1.55	1.38	1.12
basic_stat	14.30	6.39	2.24	4.40	5.07	0.87	6.95	7.48	0.93
test	1.60	1.51	1.06	1.54	1.31	1.18	1.45	1.37	1.06
librowser	26.39	30.01	0.88	21.79	18.43	1.18	37.24	39.09	0.95
syntax_highlight	27.75	15.60	1.78	29.71	16.72	1.78	31.14	29.77	1.05
sockets_io	1500.56	1113.05	1.35	1235.59	1140.49	1.08	15.63	15.25	1.02
sockets	7.96	7.57	1.05	8.79	8.59	1.02	12.95	7.32	1.77
server	4.16	3.96	1.05	4.75	4.80	0.99	3.46	6.17	0.56
client	4.57	5.32	0.86	5.42	6.36	0.85	8.52	8.36	1.02
socket_number	0.71	0.32	2.18	0.54	0.33	1.62	1.01	0.59	1.72
clpr	0.60	0.37	1.60	0.62	0.41	1.52	0.53	0.50	1.06
clpr_src	0.42	0.38	1.12	0.13	0.31	0.42	0.51	0.50	1.01
clpr_compiler	397.32	278.12	1.43	362.15	261.13	1.39	31.07	33.17	0.94
clpr_meta	6.53	6.06	1.08	7.42	7.05	1.05	6.78	7.07	0.96
clpr_dump	timeout	32670.82	-	timeout	19900.37	-	382.87	333.18	1.15
expand_r	5.72	6.44	0.89	4.78	7.62	0.63	4.19	3.83	1.09
solver_r	timeout	timeout	-	timeout	timeout	-	timeout	5750.69	-
clpr_doc	0.22	0.17	1.30	0.36	0.16	2.30	0.47	0.23	2.07
clpr_rt	timeout	timeout	-	timeout	timeout	-	36.77	35.72	1.03

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
clpr_tr	3.88	3.55	1.09	4.26	3.88	1.10	3.17	3.18	1.00
clpr_attr	0.89	0.69	1.30	0.66	0.67	0.99	0.80	0.72	1.12
eval_r	4.87	5.14	0.95	5.44	5.96	0.91	8.01	8.40	0.95
clprtests	2.47	2.53	0.98	2.67	3.32	0.81	4.14	3.44	1.20
iso_strict_doc	0.23	0.19	1.24	0.40	0.17	2.34	0.25	0.35	0.71
iso_strict	0.53	0.26	2.00	0.38	0.26	1.47	0.43	0.48	0.89
fuzzy_search	147.77	125.89	1.17	116.99	88.75	1.32	38.81	38.86	1.00
sha1	0.62	0.33	1.87	0.64	0.53	1.20	0.80	0.90	0.89
example	0.00	0.34	0.30	0.39	0.31	1.24	0.51	0.37	1.36
ctchecks	0.72	0.24	2.98	0.34	0.29	1.16	0.33	0.39	0.83
foo	0.56	0.43	1.29	0.74	0.64	1.16	0.59	0.48	1.24
lazy_doc	0.36	0.18	1.97	0.26	0.16	1.61	0.53	0.18	2.98
lazy_lib	759.52	253.75	2.99	792.30	256.44	3.09	38.69	38.39	1.01
ops	0.29	0.29	0.98	0.40	0.28	1.45	0.46	0.29	1.58
lazy	0.53	0.25	2.12	0.14	0.27	0.52	0.46	0.31	1.52
lazytr	137.72	78.08	1.76	128.80	70.31	1.83	13.10	12.46	1.05
primes_function	7.84	8.28	0.95	8.19	8.62	0.95	8.40	8.06	1.04
module1	0.90	0.97	0.93	1.90	1.61	1.18	2.09	1.89	1.11
module2	2.43	2.04	1.19	1.17	1.00	1.18	1.32	1.10	1.20
ex	14.83	10.99	1.35	17.09	16.42	1.04	11.87	11.03	1.08
tetrahedral_function	1.81	1.90	0.96	2.46	2.19	1.12	2.85	2.73	1.04
naturals_function	2.24	2.21	1.02	3.01	2.40	1.26	3.56	3.90	0.91
naturals	3.15	2.83	1.11	3.88	3.22	1.21	4.61	3.85	1.20
fib	6.44	6.67	0.96	8.04	7.87	1.02	5.60	1.29	4.36
fib_function	18.11	19.68	0.92	18.82	18.12	1.04	16.54	19.13	0.86
lqsort_function	13.03	14.10	0.92	14.78	16.27	0.91	9.61	10.56	0.91
primes	6.11	5.71	1.07	4.89	8.07	0.61	6.03	6.66	0.91
tetrahedral	3.20	2.93	1.09	3.11	3.83	0.81	4.07	3.99	1.02
ex_function	7.82	8.04	0.97	6.65	6.65	1.00	9.26	7.91	1.17
lqsort	6.94	7.16	0.97	7.92	6.97	1.14	15.52	17.12	0.91
foreign_cxx_ops	0.29	0.25	1.17	0.45	0.45	1.01	0.40	0.37	1.07
foreign_cxx_tr	181.62	112.50	1.61	173.89	63.32	2.75	2004.26	111.24	18.02
foreign_cxx	0.41	0.26	1.58	0.58	0.26	2.26	0.33	0.00	3.29
timeout	3.42	3.28	1.04	1.29	3.54	0.36	4.23	4.55	0.93
test_timeout	16.05	16.92	0.95	17.47	19.50	0.90	23.11	24.06	0.96

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
random	1.02	0.87	1.17	1.34	1.12	1.19	2.47	1.85	1.33
clpq_tr	3.43	3.54	0.97	3.74	4.36	0.86	3.31	3.52	0.94
clpq_compiler	394.87	279.07	1.41	368.49	256.70	1.44	37.12	33.62	1.10
eval_q	131.30	134.14	0.98	140.81	147.67	0.95	1368.17	1428.44	0.96
clpq_attr	0.87	0.77	1.13	0.88	0.77	1.14	0.93	0.90	1.03
clpq_meta	6.28	6.63	0.95	7.16	7.58	0.94	6.67	6.70	1.00
clpq_dump	timeout	32972.12	-	timeout	20195.81	-	394.05	327.52	1.20
clpq_rt	timeout	timeout	-	timeout	timeout	-	38.53	37.49	1.03
solver_q	timeout	timeout	-	timeout	timeout	-	timeout	timeout	-
expand_q	4.71	3.97	1.19	5.11	4.70	1.09	4.99	4.16	1.20
clpq_src	0.43	0.25	1.69	0.38	0.28	1.34	0.31	0.37	0.84
clpq	0.51	0.35	1.46	0.59	0.47	1.26	0.46	0.36	1.27
clpq_doc	0.18	0.18	1.03	0.34	0.18	1.89	0.29	0.25	1.16
id	0.48	0.35	1.37	0.66	0.44	1.50	0.42	0.27	1.57
id_doc	0.21	0.16	1.31	0.17	0.19	0.92	0.24	0.23	1.06
id_tr	timeout	timeout	-	timeout	timeout	-	timeout	timeout	-
example_id	4.32	3.97	1.09	4.64	4.28	1.08	5.13	4.85	1.06
exampleq	0.70	0.62	1.14	0.64	0.70	0.91	0.89	0.90	0.99
qsort	8.12	8.39	0.97	6.69	6.40	1.04	6.79	6.53	1.04
examplep	1.64	1.07	1.53	1.37	1.49	0.92	1.33	1.25	1.07
example2	2.12	1.89	1.12	2.21	1.96	1.13	2.75	2.81	0.98
tabling_doc	0.29	0.18	1.62	0.35	0.18	1.97	0.33	0.20	1.62
tabling	0.93	0.84	1.10	1.19	0.89	1.33	1.14	0.95	1.20
forward_trail	0.70	0.64	1.10	1.01	0.69	1.47	0.95	0.81	1.17
tabling_rt	63.51	22.39	2.84	59.34	22.67	2.62	72.58	13.20	5.50
tabling_tr	11567.08	7124.96	1.62	6680.47	2684.62	2.49	2550.66	2595.74	0.98
path_tabling	2.31	1.95	1.18	0.34	2.21	0.15	2.54	2.27	1.12
tab_subsumption	1.17	0.44	2.65	1.26	1.15	1.09	1.07	1.32	0.81
tab_aggregates	1.64	1.58	1.04	1.92	1.82	1.05	1.90	1.87	1.02
edge	38.10	37.30	1.02	40.18	37.48	1.07	39.79	33.66	1.18
swap_control	3.39	3.52	0.96	3.58	4.07	0.88	4.48	4.26	1.05
swap	5.27	4.91	1.07	5.32	1.45	3.68	4.36	3.63	1.20
noswap	4.05	3.86	1.05	4.55	4.15	1.10	4.67	4.43	1.05
CCAT	0.37	0.11	3.48	0.49	0.30	1.63	0.56	0.32	1.76
tabling_rt_CCAT	1.87	1.90	0.98	2.44	2.08	1.17	3.30	2.72	1.21

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
tabling_tr_CCAT	13.16	14.76	0.89	7.29	15.58	0.47	20.67	21.55	0.96
p	0.61	0.46	1.32	0.80	0.56	1.43	0.76	0.00	7.58
pathCCAT	53.50	52.93	1.01	71.45	70.95	1.01	106.93	102.76	1.04
basictypes	0.24	0.16	1.47	0.25	0.17	1.46	0.34	0.02	21.37
fetch	2.36	2.16	1.09	2.73	2.36	1.16	2.84	3.19	0.89
server	timeout	1347.06	-	timeout	1227.03	-	1215.91	1176.63	1.03
client	0.17	0.22	0.78	0.25	0.15	1.65	0.37	0.18	2.04
client_vip	0.22	0.18	1.19	0.21	0.16	1.33	0.20	0.21	0.94
pm-im-pm	0.36	0.18	1.95	0.21	0.23	0.93	0.43	0.20	2.20
server_vip	1.70	1.26	1.35	1.46	1.45	1.00	1.31	1.22	1.07
im-rm-im	0.38	0.17	2.19	0.45	0.16	2.84	0.43	0.18	2.36
server2	1.47	1.32	1.12	1.89	1.44	1.32	1.44	1.30	1.11
lisp_syntax_xml	30.12	29.42	1.02	32.24	31.29	1.03	33.33	35.28	0.94
xml_syntax_fipa	0.48	2.42	0.20	3.11	3.18	0.98	5.36	5.03	1.06
lisp_syntax_fipa	10.31	10.05	1.03	10.64	10.36	1.03	10.63	7.39	1.44
lisp_syntax_term	19.63	19.57	1.00	14.26	19.43	0.73	46.83	35.05	1.34
test	0.89	0.76	1.18	1.18	0.79	1.49	1.10	0.84	1.31
server	0.80	0.65	1.24	0.99	0.66	1.48	1.13	0.69	1.63
clpfd_debug_rt	1.02	0.72	1.41	1.17	0.73	1.61	0.94	0.77	1.22
indexicals_tr	1320.98	187.28	7.05	1487.27	233.42	6.37	4096.13	422.55	9.69
fd_var	4.58	4.02	1.14	5.00	4.44	1.13	5.97	5.65	1.06
clpfd_doc	0.02	0.23	0.07	0.22	0.16	1.34	0.02	0.16	0.10
fd_range_intervals	51281.93	45130.85	1.14	14175.78	13402.61	1.06	184.04	177.11	1.04
fd_optim	6.69	6.26	1.07	7.80	7.12	1.10	10.84	11.87	0.91
clpfd_options	0.36	0.27	1.33	0.39	0.25	1.58	0.31	0.32	0.97
fd_pchains	9.81	9.91	0.99	9.73	10.32	0.94	8.37	8.48	0.99
indexicals	0.17	0.39	0.44	0.48	0.27	1.74	0.44	0.32	1.38
fd_range_finite_intervals	18149.82	16777.68	1.08	3929.33	3900.46	1.01	236.59	258.84	0.91
clpfd_tr	160.65	159.20	1.01	111.66	120.28	0.93	16.79	18.06	0.93
fd_term	13.42	9.55	1.41	14.56	15.47	0.94	17.76	19.06	0.93
clpfd_ops	0.33	0.30	1.09	0.46	0.26	1.76	0.54	0.29	1.84
clpfd_debug	0.48	0.26	1.85	0.41	0.25	1.60	0.42	1.69	0.25
int_extra	0.78	0.66	1.17	0.00	0.69	0.15	0.99	0.92	1.07
fd_constraints	35.98	44.30	0.81	45.50	50.76	0.90	46.93	50.93	0.92
fd_range	4.52	4.04	1.12	4.38	4.16	1.05	0.58	4.09	0.14

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
fd_range_bits_unsafe	9.34	5.02	1.86	10.05	9.88	1.02	10.87	7.36	1.48
fd_ops	0.29	0.27	1.09	0.52	0.32	1.65	0.32	0.28	1.16
indexicals_ops	0.33	0.28	1.18	0.39	0.28	1.37	0.60	0.31	1.89
clpfd_stats	1.04	0.85	1.21	0.99	0.81	1.22	1.03	1.05	0.99
fd_labeling	15432.30	3195.55	4.83	14441.73	2532.69	5.70	130.93	129.02	1.01
clpfd_rt	12.93	13.24	0.98	14.37	7.03	2.04	17.54	15.12	1.16
clpfd	0.33	0.29	1.10	0.29	0.27	1.07	0.34	0.37	0.92
fd_utils	2.22	1.62	1.37	2.10	2.00	1.05	2.10	2.07	1.01
queens_fd	7.21	8.23	0.88	8.68	8.60	1.01	11.78	10.90	1.08
sudoku	timeout	timeout	-	timeout	timeout	-	timeout	1329.45	-
metacall_test	5.72	4.86	1.18	1.81	5.35	0.34	8.57	7.28	1.18
bridge	119.02	69.51	1.71	103.42	57.31	1.80	33.41	32.40	1.03
bench	79.93	3.64	21.93	76.41	4.23	18.05	7.36	7.57	0.97
queens_old	4.75	4.24	1.12	4.47	4.29	1.04	4.81	4.48	1.07
queens	3876.13	24.86	155.93	347.94	27.46	12.67	23.96	26.54	0.90
sudoku_old	4.99	4.97	1.00	5.29	6.35	0.83	5.35	5.03	1.06
fib	4.04	0.00	40.36	4.11	4.66	0.88	4.17	4.54	0.92
money_user_level	timeout	8042.51	-	timeout	6338.26	-	291.60	282.18	1.03
queens-swi	0.22	0.16	1.36	0.23	0.17	1.34	0.20	0.25	0.83
counters_test	2.64	2.25	1.17	2.64	2.57	1.03	4.06	3.85	1.05
nondet_move_top_rt	9.43	9.15	1.03	10.96	11.28	0.97	12.78	5.37	2.38
andprolog_props	1.16	0.93	1.25	1.45	1.02	1.42	1.66	1.21	1.37
andprolog_doc	0.49	0.19	2.63	0.35	0.17	2.09	0.45	0.20	2.22
andprolog_rt	3.69	0.01	368.60	3.75	3.26	1.15	3.80	0.01	316.50
agents_rt	5.21	4.72	1.10	5.18	5.59	0.93	7.07	6.88	1.03
andprolog_sched	0.68	0.41	1.65	0.80	0.45	1.75	0.58	0.62	0.94
callh_rt	3.00	2.67	1.12	3.10	3.39	0.91	0.48	3.49	0.14
andprolog_ops	0.43	0.25	1.70	0.38	0.29	1.34	0.41	0.27	1.49
det_rt	7.68	7.12	1.08	1.12	4.82	0.23	10.04	9.86	1.02
disj_wait_rt	3.86	3.96	0.97	4.63	0.85	5.44	2.42	6.03	0.40
andprolog	0.36	0.34	1.05	0.57	0.33	1.74	0.12	0.30	0.40
hamming	timeout	timeout	-	timeout	timeout	-	timeout	896.59	-
hanoi_dl	997.52	351.37	2.84	856.60	276.02	3.10	287.60	286.27	1.00
boyer	timeout	61042.98	-	timeout	55196.08	-	timeout	2654.32	-
tak	timeout	timeout	-	timeout	timeout	-	timeout	timeout	-

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
hanoi	3613.48	370.14	9.76	3611.10	372.37	9.70	118.71	100.04	1.19
extras	3.51	4.23	0.83	4.47	4.20	1.06	6.52	6.49	1.00
table_performance	232.83	115.76	2.01	246.36	142.13	1.73	126.09	160.58	0.79
mandel	666.58	571.53	1.17	113.27	32.36	3.50	522.28	521.66	1.00
chat_parser	timeout	timeout	-	56035.88	46615.02	1.20	11634.32	11660.70	1.00
aiakl	timeout	1224.63	-	timeout	269.33	-	9750.45	136.48	71.44
pal	42.67	25.02	1.71	72.72	33.41	2.18	93.62	88.68	1.06
queens10	22.58	14.55	1.55	36.36	17.74	2.05	24.82	24.21	1.03
fft	53.59	27.94	1.92	86.77	40.91	2.12	100.79	83.05	1.21
qsort	48.12	24.24	1.99	69.23	28.92	2.39	60.47	60.56	1.00
queens	26.50	13.78	1.92	38.34	18.13	2.11	24.83	23.73	1.05
qsort_dl	109.01	89.45	1.22	86.84	45.14	1.92	959.32	972.40	0.99
fibo	37.81	11.36	3.33	60.07	18.07	3.32	26.63	22.28	1.20
mmat	66.52	41.25	1.61	89.32	48.67	1.84	36.58	34.65	1.06
deriv	582.33	566.19	1.03	601.74	565.85	1.06	120.00	121.11	0.99
progeom	42.35	33.60	1.26	54.22	35.13	1.54	39.59	38.88	1.02
ann	147702.51	139613.53	1.06	150.80	109.17	1.38	188.01	188.75	1.00
numbers	216.79	192.75	1.12	195.57	182.40	1.07	322.43	324.24	0.99
disjwait	4.50	5.54	0.81	5.64	6.01	0.94	7.60	8.41	0.90
check_files	35.53	11.86	3.00	62.69	15.34	4.09	24.58	19.01	1.29
extras	1.99	1.81	1.10	1.99	1.62	1.23	1.86	1.85	1.01
qsort_nd	32.68	10.90	3.00	54.33	16.14	3.37	30.85	26.10	1.18
qsort	22.26	13.52	1.65	34.94	13.46	2.60	38.07	35.96	1.06
fibo	19.39	6.22	3.12	28.34	5.38	5.27	13.81	11.32	1.22
mmat	29.78	23.27	1.28	44.92	23.45	1.92	18.11	19.69	0.92
illumination	42.67	23.21	1.84	72.94	27.15	2.69	38.11	27.57	1.38
check_files	6.80	7.46	0.91	4.74	4.86	0.98	10.82	11.10	0.97
extras	1.45	1.36	1.06	1.80	2.02	0.89	1.67	1.75	0.95
qsort_nd	7.57	7.79	0.97	8.76	8.94	0.98	16.76	15.21	1.10
qsort	3.67	3.59	1.02	4.24	4.97	0.85	10.44	10.35	1.01
fibo	2.17	2.06	1.05	0.62	0.00	6.25	3.68	3.53	1.04
mmat	3.13	3.56	0.88	3.81	4.08	0.93	5.37	5.81	0.92
illumination	0.22	0.20	1.12	0.21	0.18	1.21	0.24	0.17	1.43
andprolog_assrt	0.61	0.34	1.80	0.16	0.70	0.23	0.61	0.48	1.28
andprolog_ops_assrt	0.42	0.28	1.52	0.37	0.28	1.35	0.37	0.29	1.26

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
andprolog_rt_assrt	28.61	32.52	0.88	38.76	35.52	1.09	40.62	39.27	1.03
backtracking	2.73	2.53	1.08	3.02	3.25	0.93	3.39	3.54	0.96
qsort	10.31	7.03	1.47	10.92	12.58	0.87	28.04	23.26	1.21
fibo	4.32	4.76	0.91	5.37	6.21	0.86	8.25	4.49	1.84
fibo_gran	4.68	5.00	0.94	6.29	5.89	1.07	8.52	5.13	1.66
rlimit_rt	2.02	1.87	1.08	2.89	2.56	1.13	6.91	6.17	1.12
rlimit	0.56	0.33	1.71	0.49	0.25	2.00	0.40	0.29	1.38
rlimit_tr	6.04	6.23	0.97	5.56	6.20	0.90	6.68	7.17	0.93
a	1.10	1.06	1.05	1.10	1.07	1.04	1.08	1.15	0.93
bundle_source_tree	18.30	19.02	0.96	17.90	19.68	0.91	38.71	36.18	1.07
source_tree	486.12	356.39	1.36	480.14	802.86	0.60	327.07	258.21	1.27
pmrule	0.30	0.26	1.16	0.50	0.31	1.65	0.44	0.33	1.34
ops	0.40	0.29	1.41	0.36	0.42	0.87	0.38	0.33	1.17
pmrule_tr	115.17	85.24	1.35	89.43	76.82	1.16	35.91	35.14	1.02
pmrule_doc	0.24	0.37	0.66	0.38	0.18	2.09	0.30	0.18	1.73
test1	3.48	3.12	1.12	3.63	3.98	0.91	4.10	4.79	0.86
test1fun	3.49	3.44	1.01	3.56	4.45	0.80	4.27	4.62	0.92
extmod_doc	0.25	0.16	1.58	0.40	0.17	2.33	0.26	0.17	1.51
extmod	0.60	0.29	2.08	0.14	0.35	0.40	0.59	0.32	1.84
doccomments	0.35	0.12	2.83	0.51	0.26	2.01	0.40	0.29	1.41
doccomments_tr	135.83	66.57	2.04	130.32	60.08	2.17	5.38	5.08	1.06
doccomments_doc	0.32	0.16	1.96	0.22	0.18	1.25	0.27	0.17	1.55
markup_test	3.59	2.95	1.21	4.00	3.92	1.02	5.21	5.27	0.99
markdown_test	4.68	4.34	1.08	6.09	5.82	1.04	7.68	6.93	1.11
rbtrees	0.33	0.16	2.04	0.00	0.19	0.54	0.37	0.18	2.01
more_markup	3.47	3.12	1.11	4.80	4.51	1.07	6.50	6.41	1.01
foomodes	0.28	0.16	1.73	0.44	0.18	2.50	0.28	0.17	1.64
usagedoc_modes	1.01	0.88	1.14	0.90	0.86	1.04	1.79	1.30	1.38
usagedoc_types	0.88	0.98	0.90	1.12	0.83	1.36	1.02	1.06	0.96
test	2.95	2.89	1.02	0.00	3.58	0.03	5.04	4.60	1.10
write_alt	516.64	465.52	1.11	508.16	503.37	1.01	1592.10	1526.24	1.04
aux	0.20	0.17	1.17	0.18	0.24	0.75	0.31	0.21	1.48
toplevel_scope	0.66	0.16	4.07	0.48	0.58	0.83	0.40	0.36	1.10
toplevel_doc	0.21	2.98	0.07	3.60	2.98	1.21	3.79	3.66	1.03
prettysols	631.53	526.78	1.20	319.07	223.00	1.43	94.69	87.51	1.08

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
toplevel_debugger	0.33	0.18	1.85	0.44	0.19	2.31	0.31	0.25	1.23
toplevel_prompt	1.75	1.59	1.11	2.02	1.81	1.12	2.25	2.06	1.09
toplevel	93.88	54.94	1.71	89.94	52.85	1.70	31.38	32.47	0.97
toplevel_io	1.51	1.20	1.25	1.47	1.87	0.79	1.68	1.75	0.96
pattern_filler	38.76	35.44	1.09	31.32	31.21	1.00	43.57	41.56	1.05
menu_generator	timeout	21236.87	-	timeout	19005.62	-	3304.27	388.70	8.50
menu_tr	21324.41	159.49	133.70	19573.34	133.45	146.67	103.15	100.27	1.03
menu_common	5.58	5.26	1.06	5.42	5.20	1.04	1.02	0.73	1.40
menu_doc	6.22	5.98	1.04	6.34	5.75	1.10	1.54	0.01	140.09
menu_op	0.50	0.37	1.36	0.43	0.44	0.99	0.25	0.28	0.90
menu	6.59	6.51	1.01	6.41	6.62	0.97	1.47	1.39	1.06
menu_rt	1.76	1.46	1.20	2.05	1.63	1.26	1.01	1.11	0.92
menu_2	5.30	5.32	1.00	6.29	5.73	1.10	4.27	4.30	0.99
menu_1	5.39	5.37	1.00	5.83	6.83	0.85	0.54	0.46	1.17
menu_n	5.10	4.72	1.08	5.12	5.02	1.02	3.79	3.33	1.14
menu_3	6.09	5.87	1.04	6.75	3.33	2.03	4.48	4.93	0.91
menu_0	4.91	5.10	0.96	5.61	5.37	1.04	4.51	3.91	1.15
fibers_blt	7.08	6.14	1.15	7.31	6.99	1.05	7.65	7.55	1.01
fibers	1.64	1.70	0.96	1.84	1.78	1.03	1.62	1.49	1.09
fibers_rt	19.74	19.82	1.00	25.60	24.80	1.03	27.62	28.30	0.98
fnct_rt	0.37	0.18	2.11	0.29	0.19	1.55	0.02	0.18	0.11
fibers_hooks	1.53	1.48	1.03	1.60	1.31	1.22	1.15	1.22	0.94
stream_watchdog	9.04	8.86	1.02	10.19	9.66	1.05	15.82	15.04	1.05
fibers_data	4.71	5.00	0.94	4.90	4.67	1.05	5.48	5.67	0.97
mexpand_extra	2.87	2.32	1.24	2.52	2.41	1.04	2.50	2.30	1.09
fibers_tr	86.21	72.44	1.19	73.74	68.97	1.07	69.13	71.30	0.97
actmod_http	310.09	256.10	1.21	83.10	82.63	1.01	60.04	64.46	0.93
markdown_parser	timeout	50934.09	-	timeout	49696.21	-	82009.35	20948.57	3.91
markdown_syntax	5.05	4.78	1.06	5.45	4.99	1.09	6.45	6.31	1.02
markdown_translate	733.43	412.58	1.78	981.99	533.64	1.84	timeout	496.25	-
fsyntaxplus	0.67	0.32	2.09	0.35	0.35	1.00	0.44	0.00	4.41
statevars_tr	timeout	timeout	-	24167.26	15470.60	1.56	2921.11	958.13	3.05
shpa_tr	143.57	150.04	0.96	82.01	81.40	1.01	67.84	60.68	1.12
statevars_rt	1.34	1.01	1.33	1.19	1.09	1.09	1.04	0.82	1.27
blk_tr	34.91	8.68	4.02	32.16	7.20	4.46	6.55	6.53	1.00

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
test_common	2.43	2.27	1.07	2.43	2.12	1.14	2.55	2.03	1.26
test_fsyntaxplus	timeout	13335.10	-	timeout	6380.37	-	2562.40	3034.83	0.84
nested	2.16	1.52	1.42	1.91	1.55	1.24	1.15	0.92	1.25
nested_defs	1.68	1.54	1.09	2.34	1.91	1.23	1.26	0.87	1.44
nested_rt	39.32	13.83	2.84	21.29	13.84	1.54	3.96	10.61	0.37
nested_tr	timeout	7669.86	-	timeout	10466.20	-	903.56	891.60	1.01
nested_ops	0.55	0.35	1.59	0.33	0.27	1.26	0.45	0.30	1.49
nested_doc	0.49	0.17	2.92	0.39	0.17	2.33	0.26	0.18	1.43
extension	6.55	6.62	0.99	6.84	7.49	0.91	5.02	8.00	0.63
structs	15.16	14.43	1.05	15.89	15.75	1.01	20.00	18.74	1.07
hrtime	1.08	1.08	1.00	1.40	1.05	1.34	1.94	1.88	1.03
noise	2.87	3.37	0.85	3.11	3.62	0.86	4.27	4.38	0.98
hrtimea	1.85	1.69	1.10	2.43	2.11	1.15	1.06	4.61	0.23
persdb_examples	0.37	0.25	1.47	0.55	0.27	2.01	0.41	0.09	4.79
persdb_decl	0.79	0.74	1.07	1.03	0.76	1.36	0.78	0.48	1.62
persdb_tr	1.53	1.60	0.96	1.97	1.40	1.41	1.09	1.01	1.08
persdb_rt	6796.75	269.46	25.22	6069.43	233.08	26.04	43.76	44.52	0.98
datadir	2.34	2.54	0.92	2.76	2.79	0.99	0.00	3.41	0.03
persdb_ll	0.94	0.70	1.35	0.80	0.79	1.02	1.03	0.54	1.91
persdb_cache	timeout	723.96	-	timeout	598.30	-	70869.29	129.64	546.67
persdb	1.38	0.65	2.11	1.32	0.75	1.77	0.71	0.53	1.34
queuedy	3.84	3.56	1.08	4.19	4.16	1.01	4.61	4.71	0.98
example_static	1.73	1.52	1.14	1.80	1.83	0.98	2.20	2.28	0.97
queuell	3.06	3.48	0.88	3.40	0.69	4.93	4.32	4.23	1.02
example_dynamic	1.57	1.53	1.03	1.49	1.44	1.03	1.46	1.77	0.82
queue	3.19	3.19	1.00	3.27	3.26	1.00	4.15	3.70	1.12
example_static	1.57	1.47	1.07	1.63	1.84	0.88	2.40	2.16	1.11
example_dynamic	2.19	1.61	1.37	2.22	2.06	1.08	2.31	2.26	1.02
queue	0.80	3.46	0.23	4.63	3.95	1.17	5.19	5.18	1.00
persistentdb	4.45	5.31	0.84	5.25	6.50	0.81	6.43	7.27	0.88
arith_extra	1.53	1.40	1.09	1.58	1.80	0.87	1.96	1.55	1.27
nf	4.92	4.56	1.08	4.74	4.48	1.06	5.04	4.76	1.06
clpqr_ops	0.75	0.29	2.62	0.50	0.24	2.05	0.40	0.30	1.35
clpqr_dump	10.41	10.63	0.98	11.58	9.89	1.17	11.56	10.97	1.05
clpqr_options	0.30	0.27	1.13	0.32	0.41	0.79	0.54	0.27	1.98

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
clpqr_meta	0.97	1.17	0.83	1.02	1.01	1.01	1.11	1.27	0.87
nl_eval	9.85	9.27	1.06	9.62	9.16	1.05	9.67	10.26	0.94
clpqr_rt	1.32	1.22	1.08	1.26	0.99	1.28	1.38	0.85	1.63
simplex	4.60	4.70	0.98	4.75	4.28	1.11	4.46	4.34	1.03
fourier_motzkin	3.07	2.35	1.31	2.75	2.72	1.01	2.92	2.57	1.13
clpqr_compiler	3.65	3.67	1.00	3.57	3.37	1.06	3.99	3.39	1.18
clpqr_attr_hooks	61.75	63.50	0.97	24.53	28.86	0.85	7.64	7.75	0.99
solve	6.18	6.18	1.00	6.22	5.77	1.08	6.26	5.88	1.06
clpqr_tr	0.83	0.78	1.07	0.69	0.63	1.09	0.84	0.59	1.41
critical	timeout	41848.54	-	timeout	37996.99	-	timeout	timeout	-
mmatrix_q	0.84	0.53	1.60	0.94	0.59	1.61	0.78	0.77	1.01
mmatrix_r	0.78	0.60	1.32	0.73	0.53	1.38	0.64	0.74	0.86
nqueens_q	0.97	0.72	1.36	0.68	0.63	1.08	0.79	0.57	1.40
fib_r	2.54	2.99	0.85	2.59	2.94	0.88	4.59	4.18	1.10
laplace	0.92	0.83	1.11	0.87	0.80	1.09	0.82	0.76	1.07
fib_q	2.10	2.28	0.92	2.40	2.63	0.91	3.07	3.02	1.01
fibpl	0.75	0.38	1.97	0.57	0.47	1.21	0.44	0.41	1.06
fibclpr	0.60	0.40	1.50	0.56	0.38	1.47	0.56	0.40	1.41
mmatrix	0.20	0.18	1.14	0.31	0.16	1.94	0.27	0.18	1.44
fib_example	1.83	2.22	0.82	2.23	2.64	0.85	2.73	2.93	0.93
nqueens_q	0.98	0.75	1.31	0.41	0.75	0.55	1.01	0.69	1.46
mmult	0.19	0.19	0.99	0.19	0.21	0.91	0.30	0.17	1.73
t	0.42	0.40	1.04	0.70	0.41	1.72	0.45	0.46	0.99
power	2.45	2.13	1.15	2.27	1.96	1.16	2.25	1.97	1.14
traits_doc	0.49	0.15	3.23	0.37	0.20	1.88	0.36	0.18	2.02
traits	0.48	0.35	1.39	0.00	0.36	0.28	0.73	0.30	2.44
traits_tr	1862.07	71.23	26.14	1184.31	76.02	15.58	39.10	41.80	0.94
traits_ops	0.40	0.32	1.27	0.44	0.26	1.68	0.36	0.33	1.10
trait_orig	6.96	6.68	1.04	6.47	6.54	0.99	7.63	7.96	0.96
trait_test	6.85	7.46	0.92	6.51	6.66	0.98	8.75	7.69	1.14
trait_test2	6.80	6.99	0.97	6.52	7.41	0.88	7.91	8.03	0.98
goedel	2.45	3.25	0.75	3.99	3.58	1.12	4.98	1.16	4.31
indexer_doc	1.57	1.73	0.90	2.04	1.66	1.23	2.74	2.22	1.23
indexer_tr	22706.71	593.89	38.23	18871.27	98.95	190.71	203.33	83.79	2.43
hash	2.81	4.51	0.62	3.44	3.32	1.04	4.84	4.14	1.17

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
indexer	0.57	0.30	1.89	0.46	0.28	1.64	0.34	0.29	1.19
t	3.25	3.61	0.90	4.20	5.29	0.79	4.77	4.72	1.01
t	3.12	3.93	0.79	4.59	4.99	0.92	4.87	4.81	1.01
t_out	0.84	0.81	1.04	0.76	0.87	0.87	0.71	0.68	1.05
hash_	1.31	1.94	0.68	2.08	1.73	1.20	1.83	1.96	0.94
idx_test	7.76	3.72	2.09	9.14	9.25	0.99	8.66	8.19	1.06
	share			shfr			shfr-clique		
Modules		1018			1018			1018	
Modules	1018	-	-	-	-	-	-	-	-
FC		89			86			35	
FC :	89	-	-	86	-	-	35	-	-
FT		52			49			16	
FT :	52	-	-	49	-	-	16	-	-
μ**T**		4.19			4.37			25.16	
μ**T**	4.19	-	-	4.37	-	-	25.16	-	-
μ**T** > 1s (44-47-101)		52.51			48.03			229.06	
μ**T** > 1s (44-47-101)	52.51	-	-	48.03	-	-	229.06	-	-
μ**T** > 0.5s (61-64-115)		39.00			36.58			201.87	
μ**T** > 0.5s (61-64-115)	39.00	-	-	36.58	-	-	201.87	-	-
μ**T** > 0.1s (102-105-156)		24.27			23.12			149.20	
μ**T** > 0.1s (102-105-156)	24.27	-	-	23.12	-	-	149.20	-	-

C.4 Source code of the s(CASP) System

Table C 4: Analysis times and statistics for analyzing the source code of the s(CASP) system.

module	share			shfr			shfr-clique		
	TC	**TT**	ρ**T**	**TC**	**TT**	ρ**T**	**TC**	**TT**	ρ**T**
scasp_load_compiled	7.82	9.24	0.85	8.85	10.00	0.89	11.32	12.50	0.91
clp_call_stack	4.97	5.51	0.90	5.56	5.51	1.01	7.36	7.17	1.03
test_results_c_forall	0.14	0.20	0.73	0.15	0.22	0.68	0.15	0.17	0.87
test_results	0.17	0.14	1.22	0.13	0.18	0.73	0.18	0.14	1.30
clp_disequality_rt	15.29	12.35	1.24	17.29	17.47	0.99	14.24	18.99	0.75
clp_disequality	0.29	0.24	1.20	0.31	0.29	1.08	0.25	0.27	0.94
clp_disequality_test	7.37	8.86	0.83	8.32	9.91	0.84	6.89	10.91	0.63
scasp	timeout	timeout	-	timeout	timeout	-	timeout	8419.57	-
test	20.52	26.53	0.77	25.31	25.73	0.98	44.39	44.63	0.99
scasp_io	1115.74	468.17	2.38	1242.18	401.14	3.10	419.41	410.74	1.02
clp_clpq	13.85	14.79	0.94	11.45	15.89	0.72	14.85	16.04	0.93
scasp_top_level	0.31	0.34	0.92	0.41	0.32	1.26	0.33	0.32	1.01
main_forgetting	1233.61	839.94	1.47	990.29	625.80	1.58	144.41	132.70	1.09
forgetting	21638.05	115.74	186.95	21295.85	98.16	216.95	7.47	7.79	0.96
forgetting_aux	36039.37	1888.67	19.08	34688.66	1655.99	20.95	133.40	103.49	1.29
loops	357.16	162.52	2.20	343.06	150.77	2.28	13.85	15.77	0.88
aux_negation	40.99	41.78	0.98	51.66	58.23	0.89	51.29	57.18	0.90
auxiliary	675.51	260.40	2.59	658.96	212.29	3.10	210.84	158.25	1.33
graph_aux	159221.08	461.40	345.08	154079.84	401.00	384.24	69.04	77.16	0.89
graph	685.98	247.95	2.77	647.51	219.33	2.95	92.92	41.46	2.24
dual_rules_for_graphs	22.43	7.86	2.86	20.24	7.76	2.61	8.21	8.30	0.99
jquery_tree	0.35	0.35	1.00	0.40	0.36	1.11	0.58	0.48	1.20
html_head	0.36	0.38	0.93	0.32	0.39	0.82	0.40	0.44	0.92
html_tail	0.36	0.35	1.04	0.41	0.40	1.02	0.40	0.45	0.87
ciao_auxiliar	86.01	45.45	1.89	85.78	43.96	1.95	63.81	62.34	1.02
tokenizer	269.42	64.96	4.15	210.14	51.97	4.04	63.48	52.87	1.20
interactive	4.19	5.47	0.77	4.38	1.67	2.63	7.57	8.97	0.84
variables	3140.49	497.54	6.31	2496.18	401.37	6.22	79.98	92.35	0.87
chs	timeout	timeout	-	timeout	219507.23	-	1199.49	339.91	3.53
io	timeout	4519.12	-	timeout	4188.43	-	timeout	1736.07	-

module	share			shfr			shfr-clique		
	TC	**TT**	$\rho\mathbf{T}$	**TC**	**TT**	$\rho\mathbf{T}$	**TC**	**TT**	$\rho\mathbf{T}$
debug	13.01	8.99	1.45	8.93	8.79	1.02	16.50	17.21	0.96
main	15.25	19.01	0.80	17.25	20.04	0.86	24.51	29.16	0.84
output	timeout	2640.58	-	timeout	614.03	-	206.05	194.17	1.06
rbtrees	timeout	timeout	-	timeout	timeout	-	324.78	339.40	0.96
common	25.29	19.44	1.30	28.26	17.39	1.63	42.37	44.53	0.95
call_graph	3854.71	662.94	5.81	1668.77	117.42	14.21	3.05	3.17	0.96
program	32489.64	80.44	403.90	145.67	72.99	2.00	85.56	78.11	1.10
options	2.82	2.92	0.97	3.25	3.31	0.98	4.08	4.22	0.97
text_dcg	660.13	298.30	2.21	359.78	202.88	1.77	9670.78	196.81	49.14
nmr_check	timeout	timeout	-	timeout	timeout	-	4885.73	2853.24	1.71
solve	timeout	timeout	-	timeout	timeout	-	timeout	timeout	-
doc_gen	0.28	0.24	1.18	0.26	0.28	0.93	0.29	0.31	0.95
comp_duals	timeout	17261.48	-	timeout	4151.69	-	9.19	9.65	0.95
config	0.62	0.61	1.02	0.62	0.70	0.88	0.77	0.83	0.92

	share			shfr			shfr-clique		
Mods	44			44			44		
FC	8			8			3		
FT	5			4			1		
$\mu\mathbf{T}$	28.07			19.16			2.27		
$\mu\mathbf{T} > 1s$ (8-8-13)	121.37			81.15			1.26		
$\mu\mathbf{T} > 0.5s$ (11-11-16)	88.96			59.73			4.32		
$\mu\mathbf{T} > 0.1s$ (13-13-18)	75.76			51.03			3.95		

C.5 Source Code of the Spectector Tool

Table C 5: Analysis times and statistics for analyzing the source code of the Spectector tool.

module	share TC	share TT	share ρT	shfr TC	shfr TT	shfr ρT	shfr-clique TC	shfr-clique TT	shfr-clique ρT
spectector_flags	3.71	3.96	0.94	4.08	4.36	0.94	4.87	4.73	1.03
muasm_semantics	1351.25	164.39	8.22	1364.86	150.69	9.06	98.89	94.20	1.05
muasm_print	25.04	26.79	0.93	13.15	15.23	0.86	13.44	10.91	1.23
muasm_syntax	0.25	0.25	0.99	0.27	0.25	1.07	0.31	0.27	1.18
spectector_stats	timeout	71.00	-	timeout	112.20	-	292.50	29.88	9.79
spectector	timeout	timeout	-	timeout	timeout	-	timeout	timeout	-
muasm_program	1.41	5.98	0.24	5.04	5.54	0.91	8.40	9.36	0.90
spectector_noninter	timeout	25132.10	-	timeout	21251.12	-	timeout	801.15	-
x86_table	4.52	4.40	1.03	4.77	0.94	5.08	7.26	6.92	1.05
x86_to_muasm	timeout	timeout	-	timeout	timeout	-	952.86	983.30	0.97
gas_parser	531.04	27.52	19.30	203.68	27.36	7.45	48.20	38.63	1.25
muasm_parser	17.89	18.50	0.97	20.21	20.01	1.01	28.56	27.73	1.03
intel_parser	501.00	104.55	4.79	428.86	76.74	5.59	127.88	98.40	1.30
muasm_dump	3.20	3.57	0.90	3.63	3.99	0.91	5.04	5.60	0.90
parser_aux	23.98	24.96	0.96	25.67	28.15	0.91	35.63	30.86	1.15

	share	shfr	shfr-clique
Mods	15	15	15
FC	4	4	2
FT	2	2	1
μ**T**	3.57	3.07	1.76
μ**T** > 1s (1-1-3)	8.22	9.06	3.94
μ**T** > 0.5s (3-3-5)	10.77	7.36	2.87
μ**T** > 0.1s (3-3-5)	10.77	7.36	2.87