

Table 1: Extreme results

	Pycket	Racket	Larceny	Gambit	Bigloo
ctak <sub>fixflo</sub>		22985	1888	786	25940
ctak <sub>nothing</sub>	132	22242	1877	783	23130
ctak <sub>unsafe</sub>		22780	1874	739	22920
dynamic <sub>fixflo</sub>		520	465	513	200
dynamic <sub>nothing</sub>	5052	531	452	493	210
dynamic <sub>unsafe</sub>		540	439	421	200
fibc <sub>fixflo</sub>		497385	49074	19410	260880
fibc <sub>nothing</sub>	1980	512897	49991	20642	264060
fibc <sub>unsafe</sub>		515400	49398	18613	260860
matrix <sub>fixflo</sub>		1125	1175	1012	610
matrix <sub>nothing</sub>	4816	1134	1161	1080	770
matrix <sub>unsafe</sub>		1065	1119	812	600
maze <sub>fixflo</sub>		853	2001	746	270
maze <sub>nothing</sub>	4548	854	2017	1221	820
maze <sub>unsafe</sub>		861	1765	599	280
nucleic <sub>fixflo</sub>			696	606	190
nucleic <sub>nothing</sub>	42374	434	692	633	510
nucleic <sub>unsafe</sub>		2946334	581	300	190
pi <sub>fixflo</sub>		3425	433414	4917	
pi <sub>nothing</sub>	2528	3452	429141	5022	
pi <sub>unsafe</sub>		3515	429824	4979	
slatex <sub>fixflo</sub>		516	537	494	210
slatex <sub>nothing</sub>	2492	514	569	501	210
slatex <sub>unsafe</sub>		524	518	412	240

Benchmark	Pycket	Racket	Larceny	Gambit	Bigloo
ack <sub>fixflo</sub>		2945	2556	2248	1900
ack <sub>nothing</sub>	3092	3341	2923	2527	4460
ack <sub>unsafe</sub>		2475	1874	1659	1900
array1 <sub>fixflo</sub>		5527	1280	2785	1950
array1 <sub>nothing</sub>	2828	5977	1266	3246	4120
array1 <sub>unsafe</sub>		5274	1700	935	1940
boyer <sub>fixflo</sub>		1798	926	1220	760
boyer <sub>nothing</sub>	2004	1795	933	1591	760
boyer <sub>unsafe</sub>		1803	934	964	760
browse <sub>fixflo</sub>		2521	1453	2190	1180
browse <sub>nothing</sub>	1964	2495	1452	2192	1180
browse <sub>unsafe</sub>		2504	1420	1730	1180
conform <sub>fixflo</sub>		1040	908	1082	250
conform <sub>nothing</sub>	3468	1047	883	1153	240
conform <sub>unsafe</sub>		1030	733	1042	240
cpstak <sub>fixflo</sub>		6679	3741	2788	8970
cpstak <sub>nothing</sub>	2692	6658	3497	3389	11100
cpstak <sub>unsafe</sub>		6604	3290	2366	9230
ctak <sub>fixflo</sub>		22985	1888	786	25940
ctak <sub>nothing</sub>	132	22242	1877	783	23130
ctak <sub>unsafe</sub>		22780	1874	739	22920
dderiv <sub>fixflo</sub>		3064	1843	1800	2350
dderiv <sub>nothing</sub>	2832	2985	1884	1929	2350
dderiv <sub>unsafe</sub>		2986	2077	1497	2350
deriv <sub>fixflo</sub>		2545	1200	1151	2330
deriv <sub>nothing</sub>	1800	2538	1209	1131	2350
deriv <sub>unsafe</sub>		2487	1421	1071	2340
destruc <sub>fixflo</sub>		2074	1305	1420	890
destruc <sub>nothing</sub>	1688	2155	1345	1554	1670
destruc <sub>unsafe</sub>		2017	1305	1101	890
diviter <sub>fixflo</sub>		4154	1975	4010	4090
diviter <sub>nothing</sub>	2236	4241	1959	2948	4100
diviter <sub>unsafe</sub>		4164	2139	2323	4160
divrec <sub>fixflo</sub>		1587	831	957	1370
divrec <sub>nothing</sub>	2000	1608	798	995	1390
divrec <sub>unsafe</sub>		1592	1644	1023	1360
dynamic <sub>fixflo</sub>		520	465	513	200
dynamic <sub>nothing</sub>	5052	531	452	493	210
dynamic <sub>unsafe</sub>		540	439	421	200
earley <sub>fixflo</sub>		923	795	581	470

Benchmark	Pycket	Racket	Larceny	Gambit	Bigloo
earley <sub>nothing</sub>	3272	955	809	618	560
earley <sub>unsafe</sub>		910	725	429	460
fft <sub>fixflo</sub>		6512	17783	11321	680
fft <sub>nothing</sub>	2540	16308	17671	14411	28830
fft <sub>unsafe</sub>		4495	16635	2831	670
fib <sub>fixflo</sub>		834	982	1395	200
fib <sub>nothing</sub>	1108	970	1001	1396	1310
fib <sub>unsafe</sub>		570	600	1036	200
fibc <sub>fixflo</sub>		497385	49074	19410	260880
fibc <sub>nothing</sub>	1980	512897	49991	20642	264060
fibc <sub>unsafe</sub>		515400	49398	18613	260860
fibfp <sub>fixflo</sub>		1714	5537	3090	2460
fibfp <sub>nothing</sub>	2012	3795	4879	3332	6640
fibfp <sub>unsafe</sub>		1465	5152	2231	2460
gcbench <sub>fixflo</sub>		1040	602	1933	
gcbench <sub>nothing</sub>	1320	1115	640	1979	
gcbench <sub>unsafe</sub>		1066	599	1841	
gcold <sub>fixflo</sub>					
gcold <sub>nothing</sub>	15732	29373	7099		40690
gcold <sub>unsafe</sub>		29793			
graphs <sub>fixflo</sub>		969	746	851	580
graphs <sub>nothing</sub>	3384	981	754	838	720
graphs <sub>unsafe</sub>		946	613	572	590
lattice <sub>fixflo</sub>		1941	1094	1925	410
lattice <sub>nothing</sub>	2448	1931	1086	1814	410
lattice <sub>unsafe</sub>		1953	971	1367	420
matrix <sub>fixflo</sub>		1125	1175	1012	610
matrix <sub>nothing</sub>	4816	1134	1161	1080	770
matrix <sub>unsafe</sub>		1065	1119	812	600
maze <sub>fixflo</sub>		853	2001	746	270
maze <sub>nothing</sub>	4548	854	2017	1221	820
maze <sub>unsafe</sub>		861	1765	599	280
mazefun <sub>fixflo</sub>		823	824	854	360
mazefun <sub>nothing</sub>	2128	891	842	827	780
mazefun <sub>unsafe</sub>		773	742	607	360
mbrot <sub>fixflo</sub>		2113	10281	5836	1220
mbrot <sub>nothing</sub>	1568	11109	10676	6743	21080
mbrot <sub>unsafe</sub>		2100	10139	2162	1210
nboyer <sub>fixflo</sub>		1279	713	867	
nboyer <sub>nothing</sub>	2364	1202	710	889	

Benchmark	Pycket	Racket	Larceny	Gambit	Bigloo
nboyer <sub>unsafe</sub>		1258	712	737	
nqueens <sub>fixflo</sub>		940	899	962	440
nqueens <sub>nothing</sub>	1668	939	964	994	1300
nqueens <sub>unsafe</sub>		783	764	563	440
nucleic <sub>fixflo</sub>			696	606	190
nucleic <sub>nothing</sub>	42374	434	692	633	510
nucleic <sub>unsafe</sub>		2946334	581	300	190
paraffins <sub>fixflo</sub>		3739	1486	699	1520
paraffins <sub>nothing</sub>	2520	3281	1497	648	1530
paraffins <sub>unsafe</sub>		3484	1643	655	1530
parsing <sub>fixflo</sub>		3093	3530	2925	1220
parsing <sub>nothing</sub>	5760	3046	3560	2982	1820
parsing <sub>unsafe</sub>		3020	3439	2017	1220
perm9 <sub>fixflo</sub>		3619	810	1663	1140
perm9 <sub>nothing</sub>	2236	3539	901	1733	1650
perm9 <sub>unsafe</sub>		3527	807	1523	1000
peval <sub>fixflo</sub>		762	629	689	290
peval <sub>nothing</sub>	5828	760	620	689	300
peval <sub>unsafe</sub>		759	581	588	300
pi <sub>fixflo</sub>		3425	433414	4917	
pi <sub>nothing</sub>	2528	3452	429141	5022	
pi <sub>unsafe</sub>		3515	429824	4979	
pnpoly <sub>fixflo</sub>		5108	13412	6989	700
pnpoly <sub>nothing</sub>	2648	9097	8993	7329	2420
pnpoly <sub>unsafe</sub>		2192	11093	1242	690
primes <sub>fixflo</sub>		2854	11526	2277	2250
primes <sub>nothing</sub>	2676	2910	11512	2423	3180
primes <sub>unsafe</sub>		2753	11668	1712	2280
puzzle <sub>fixflo</sub>		5076	3722	3008	2380
puzzle <sub>nothing</sub>	2412	5226	4072	3597	5740
puzzle <sub>unsafe</sub>		4326	1655	951	2410
ray <sub>fixflo</sub>		388	739	584	50
ray <sub>nothing</sub>	1272	494	1226	658	820
ray <sub>unsafe</sub>		160	617	396	50
sboyer <sub>fixflo</sub>		930	695	840	
sboyer <sub>nothing</sub>	1804	921	738	823	
sboyer <sub>unsafe</sub>		916	688	566	
scheme <sub>fixflo</sub>		1301	852	1059	500
scheme <sub>nothing</sub>	3260	1298	854	1080	520
scheme <sub>unsafe</sub>		1296	768	925	500

Benchmark	Pycket	Racket	Larceny	Gambit	Bigloo
simplex <sub>fixflo</sub>				4001	690
simplex <sub>nothing</sub>	2692	4743	6721	4238	3640
simplex <sub>unsafe</sub>				1836	680
slatex <sub>fixflo</sub>		516	537	494	210
slatex <sub>nothing</sub>	2492	514	569	501	210
slatex <sub>unsafe</sub>		524	518	412	240
string <sub>fixflo</sub>		20156	40339	12918	970
string <sub>nothing</sub>	1460	17989	41019	12599	980
string <sub>unsafe</sub>		20332	41242	12762	960
sum <sub>fixflo</sub>		12548	8955	9041	1260
sum <sub>nothing</sub>	4352	15064	8788	15054	29240
sum <sub>unsafe</sub>		10103	8993	3185	1260
sumfp <sub>fixflo</sub>		4612	22554	7814	2100
sumfp <sub>nothing</sub>	2104	15683	18431	11145	33530
sumfp <sub>unsafe</sub>		4615	20519	4929	2100
sumloop <sub>fixflo</sub>		29242	24032	13107	0
sumloop <sub>nothing</sub>	5016	28844	26734	20047	56790
sumloop <sub>unsafe</sub>		24663	15060	10669	0
tail <sub>fixflo</sub>		1352	1273	1694	510
tail <sub>nothing</sub>	2100	1318	1295	1756	510
tail <sub>unsafe</sub>		1345	1255	1705	510
tak <sub>fixflo</sub>		2123	1809	2089	800
tak <sub>nothing</sub>	2624	2210	1915	2003	4070
tak <sub>unsafe</sub>		1756	1156	1422	800
takl <sub>fixflo</sub>		3434	2398	2637	490
takl <sub>nothing</sub>	2984	3447	2203	2391	560
takl <sub>unsafe</sub>		3449	1853	1743	490
trav1 <sub>fixflo</sub>		4290	3453	3371	
trav1 <sub>nothing</sub>	2620	4758	3470	4386	
trav1 <sub>unsafe</sub>		4035	2993	1897	
trav2 <sub>fixflo</sub>		10718	7581	10006	
trav2 <sub>nothing</sub>	2748	10797	7685	9968	
trav2 <sub>unsafe</sub>		10818	7503	9667	
triangl <sub>fixflo</sub>		7466	6857	6164	2070
triangl <sub>nothing</sub>	2532	7733	7284	6519	5860
triangl <sub>unsafe</sub>		6663	4519	3257	2040