Benchmark Results

all times in µs		**Crystal 1.0 --release**		**Node.js 12.16**		**LuaJIT 2.0 Lua 5.1**		**OBXLJ 2021-07-11**		**OBXMC 21-09-12 Mono3**		**OBXMC 21-08-28 Mono5**		**ObxIDE 0.9.38 C gen, with GC**		**ObxIDE 0.9.38 C gen, with GC**	
Benchmark:	*n*	*average*	*factor*	*average*	*factor*	*average*	*factor*	*average*	*factor*	*average*	*factor*	*average*	*factor*	*average*	*factor*	*average*	*factor*
DeltaBlue	12000/1	18	0.1	63	0.2	348	1.0	113	0.3	32	0.1	41	0.1	31	0.1	28	0.1
Richards	100/1	1'877	0.0	5'773	0.1	39'705	1.0	22'785	0.6	6'479	0.2	7'321	0.2	4'244	0.1	2'880	0.1
Json	100/1	3'196	0.4	4'803	0.6	7'859	1.0	162'598	20.7	7'073	0.9	8'948	1.1	4'856	0.6	3'946	0.5
Havlak	10/1	984'323	0.1	481'671	0.1	8'185'360	1.0	4'441'696	0.5	1'069'822	0.1	1'151'781	0.1	746'294	0.1	740'127	0.1
CD	250/2	1'755	0.1	2'019	0.1	14'751	1.0	12'122	0.8	1'820	0.1	1'949	0.1	1'308	0.1	1'347	0.1
Bounce	1500/1	61	0.2	119	0.5	249	1.0	189	0.8	116	0.5	126	0.5	68	0.3	68	0.3
List	1500/1	67	0.1	208	0.3	676	1.0	666	1.0	199	0.3	222	0.3	90	0.1	90	0.1
Mandelbrot	500/1	1	0.5	12	6.0	2	1.0	2	1.0	2	1.0	11	5.5	1	0.5	1	0.5
NBody	250000/1			3	0.4	8	1.0	5	0.6	4	0.5	9	1.1	2	0.3	3	0.4
Permute	1000/1	202	0.6	168	0.5	328	1.0	566	1.7	220	0.7	272	0.8	157	0.5	132	0.4
Queens	1000/1	160	0.5	231	0.8	297	1.0	297	1.0	210	0.7	228	0.8	169	0.6	148	0.5
Sieve	3000/1	56	0.5	103	0.9	119	1.0	93	0.8	84	0.7	99	0.8	27	0.2	31	0.3
Storage	1000/1	778	0.4	310	0.1	2'202	1.0	2'214	1.0	337	0.2	384	0.2	550	0.2	533	0.2
Towers	600/1	275	0.9	307	1.0	299	1.0	507	1.7	500	1.7	482	1.6	321	1.1	260	0.9
sum of averages:		992'769	0.12	495'790	0.06	8'252'203	1.0	4'643'853	0.6	1'086'898	0.13	1'171'873	0.14	758'118	0.09	749'594	0.09
geomean of factors:			0.24		0.39		1.0		1.04		0.38		0.51		0.25		0.24
1/geomean:			4.15		2.54		1.00		0.96		2.64		1.98		4.01		4.21
														2.03		2.13	

Benchmarks used from https://github.com/smarr/are-we-fast-yet commit 770c664 3.4.2020 Mono 3.12.1 Mono 5.20.1.34 clang 4.0.1 -O2 gcc 4.8.2 -O2
and https://github.com/rochus-keller/Oberon/tree/master/testcases/Are-we-fast-yet Boem GC 7.2d Boem GC 7.2d
Measurements done between 2021-07-07 - 2021-12-30
Testmachine: HP EliteBook 2530p, Intel Core Duo L9400 1.86GHz, 4GB RAM, Linux i386
All binaries compiled with GCC 4.8.2
LuaJIT params, deviations from default values:

maxtrace	100000
maxrecord	40000
maxside	100
maxsnap	1000
sizemcode	64
maxmcode	5120