

Benchmark Results

	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 0.9.25 C transp., no GC	
<i>all times in μs</i>	<i>n</i>	<i>average</i>	<i>factor</i>	<i>average</i>	<i>factor</i>	<i>average</i>	<i>factor</i>	<i>average</i>	<i>factor</i>	<i>average</i>	<i>factor</i>	<i>average</i>	<i>factor</i>	<i>average</i>	<i>factor</i>
Benchmark:															
DeltaBlue	12000/1	18	0.1	63	0.2	348	1.0	113	0.3	32	0.1	41	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	3'152	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		
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		
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		
Bounce	1500/1	61	0.2	119	0.5	249	1.0	189	0.8	116	0.5	126	0.5	72	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
Mandelbrot	500/1	1	0.5	12	6.0	2	1.0	2	1.0	2	1.0	11	5.5	1	0.5
NBody	250000/1			3	0.4	8	1.0	5	0.6	4	0.5	9	1.1	4	0.5
Permute	1000/1	202	0.6	168	0.5	328	1.0	566	1.7	220	0.7	272	0.8	124	0.4
Queens	1000/1	160	0.5	231	0.8	297	1.0	297	1.0	210	0.7	228	0.8	147	0.5
Sieve	3000/1	56	0.5	103	0.9	119	1.0	93	0.8	84	0.7	99	0.8	30	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	733	0.3
Towers	600/1	275	0.9	307	1.0	299	1.0	507	1.7	500	1.7	482	1.6	263	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	0.1	1'171'873	0.1	4'616	0.0
geomean of factors:			0.24		0.39		1.0		1.04		0.38		0.51		0.32
1/geomean:			4.15		2.54		1.00		0.96		2.64		1.98		3.15

1.59

Benchmarks used from <https://github.com/smarr/are-we-fast-yet> commit 770c664 3.4.2020
and <https://github.com/rochus-keller/Oberon/tree/master/testcases/Are-we-fast-yet>

Measurements done between 2021-07-07 - 2021-12-14

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

Mono 3.12.1

Mono 5.20.1.34

gcc 4.8.x -O2