Benchmark Results

all times in µs Benchmark:	n	Crystal 0.35.1 --release --no-debug average	factor	Node.js 12.16 average	factor	Pharo 7.0.5 average	factor	Pharo 8.0.0 average	factor	LuaJIT 2.0 average	factor	LjSOM 0.8.0 (default) average	factor	LjSOM 0.7.2 (default) average	factor	SOM++ 2020-06-28 average	factor
DeltaBlue	12000	19	1.0	65	3.4	61	3.2	60	3.2	345	18.2	N/A		N/A		15'157	798.6
Richards	100	1'835	1.0	5'746	3.1	12'608	6.9	12'820	7.0	34'879	19.0	N/A		673'622	158.5	4'514'873	2459.9
Json	100	2'887	1.0	5'036	1.7	17'761	6.2	17'407	6.0	6'611	2.3	N/A		290'908	100.8	1'703'273	590.0
Havlak	3	875'193	1.0	727'663	0.8	1'771'912	2.0	1'800'268	2.1	7'975'396	9.1	N/A		48'358'870	55.3	250'603'441	286.3
Bounce	1500	62	1.0	142	2.3	313	5.0	300	4.8	217	3.5	7'166	115.4	23'766	382.6	139'120	2239.8
List	1500	68	1.0	237	3.5	537	7.8	543	7.9	599	8.8	2'938	42.9	1'944	28.4	209'833	3066.0
Mandelbrot	500	1	1.0	14	13.9	1	1.0	2	2.0	2	2.0	39	38.6	65	64.4	133	131.7
Permute	1000	171	1.0	159	0.9	588	3.4	579	3.4	292	1.7	5'402	31.6	12'210	71.3	161'279	942.3
Queens	1000	147	1.0	223	1.5	439	3.0	447	3.0	265	1.8	7'131	48.4	28'019	190.2	182'358	1237.8
Sieve	3000	41	1.0	104	2.6	254	6.3	256	6.3	103	2.5	10'254	252.4	28'161	693.2	177'643	4372.6
Storage	1000	662	1.0	314	0.5	488	0.7	496	0.7	2'144	3.2	16'539	25.0	23'323	35.2	112'755	170.3
Towers	600	212	1.0	299	1.4	829	3.9	888	4.2	299	1.4	6'774	32.0	25'859	122.2	195'259	922.8
geomean of factors:			**1.0**		**2.0**		**3.3**		**3.6**		**4.0**		**52.6**		**108.7**		**888.1**
compile time:		**45s**		0s		0s		0s		0s		0s		0s		0s	
geomean inverted:			**0.25**		**0.50**		**0.84**		**0.90**		**1.00**		**13.24**		**27.35**		**223.43**

Benchmarks used from https://github.com/smarr/**are-we-fast-yet** commit 770c664 3.4.2020
NOTE: CD didn't work on any of the Lua VMs, thus left out
NOTE: NBody caused an exception in Crystal, thus left out

Test machine: HP EliteBook 2530p, Intel Core Duo L9400 1.86GHz, 4GB RAM, Linux i386
LuaJIT, SOM++ and LjSOM compiled on test machine with GCC 4.8.2; Crystal and Node using precompiled binaries
LjSOM LuaJIT params, deviations from default values:

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