

Benchmark Results

All OBXMC 21-08-28

<i>all times in μs</i>		Mono 3 x86		Mono 5 x86		CoreCLR 3 x86		CoreCLR 5 x86		CoreCLR 6 x86		Mono 5 x64		CoreCLR 3 x64		CoreCLR 5 x64		CoreCLR 6 x64	
Benchmark:	<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>	<i>average</i>	<i>factor</i>	<i>average</i>	<i>factor</i>
DeltaBlue	12000/1	58	1.0	59	1.0	45	0.8	45	0.8	49	0.8	63	1.1	80	1.4	63	1.1	56	1.0
Richards	100/1	11'406	1.0	10'468	0.9	8'322	0.7	8'832	0.8	8'204	0.7	9'999	0.9	8'246	0.7	8'161	0.7	9'710	0.9
Json	100/1	12'342	1.0	12'031	1.0	7'996	0.6	6'833	0.6	6'092	0.5	14'687	1.2	10'262	0.8	7'089	0.6	7'417	0.6
Havlak	10/1	1'814'008	1.0	1'584'322	0.9	1'659'243	0.9	1'538'682	0.8	1'548'198	0.9	1'871'813	1.0	2'271'668	1.3	1'824'234	1.0	1'984'614	1.1
CD	250/2	3'249	1.0	2'812	0.9	2'299	0.7	2'083	0.6	2'295	0.7	6'630	2.0	5'225	1.6	2'316	0.7	2'487	0.8
Bounce	1500/1	187	1.0	177	0.9	206	1.1	180	1.0	182	1.0	197	1.1	271	1.4	172	0.9	180	1.0
List	1500/1	374	1.0	343	0.9	166	0.4	129	0.3	131	0.4	395	1.1	119	0.3	122	0.3	121	0.3
Mandelbrot	500/1	0	1.0	0	1.0	7	17.5	7	17.5	6	15.0	0	1.0	4	10.0	4	10.0	4	10.0
NBody	250000/1	3	1.0	10	3.3	5	1.7	4	1.3	4	1.3	5	1.7	3	1.0	2	0.7	2	0.7
Permute	1000/1	421	1.0	437	1.0	327	0.8	328	0.8	316	0.8	328	0.8	307	0.7	310	0.7	301	0.7
Queens	1000/1	312	1.0	343	1.1	276	0.9	269	0.9	267	0.9	281	0.9	271	0.9	268	0.9	262	0.8
Sieve	3000/1	156	1.0	171	1.1	63	0.4	62	0.4	64	0.4	166	1.1	62	0.4	62	0.4	61	0.4
Storage	1000/1	624	1.0	593	1.0	558	0.9	521	0.8	486	0.8	812	1.3	702	1.1	612	1.0	661	1.1
Towers	600/1	729	1.0	755	1.0	780	1.1	758	1.0	741	1.0	703	1.0	741	1.0	705	1.0	931	1.3

sum of averages:	1'843'869	1'612'521	1'680'293	1'558'733	1'567'035	1'906'079	2'297'961	1'844'120	2'006'807
geomean of factors:	1.00	1.07	0.99	0.92	0.91	1.11	1.06	0.87	0.91
1/geomean:	1.00	0.94	1.01	1.08	1.10	0.90	0.94	1.14	1.10
	Mono 3.12.1 x86 SDK	Mono 5.20.1.34 x86 SDK	CoreCLR 3.1.18 x86 runtime	CoreCLR 5.0.9 x86 runtime	CoreCLR 6.0rc1 x86 runtime	Mono 5.20.1.34 x64 SDK	CoreCLR 3.1.18 x64 runtime	CoreCLR 5.0.9 x64 runtime	CoreCLR 6.0rc1 x64 runtime 2nd run

Test Machine:

Acer Aspire E5-532

MS Windows 10.0.17134 x64 Home

CPU Intel Celeron N3150 1.6GHz 4 Cores, 4GB DDR3 RAM

Here is the used Oberon+ version of the Are-we-fast-yet benchmark suite: <https://github.com/rochus-keller/Oberon/tree/master/testcases/Are-we-fast-yet>

Here are the used assemblies generated by OBXMC 2021-08-28: http://software.rochus-keller.ch/Are-we-fast-yet_CLI_2021-08-28.zip

NOTE: Mandelbrot showed 0us on Win with both Mono 3 and 5; unknown true value; set to 0.4