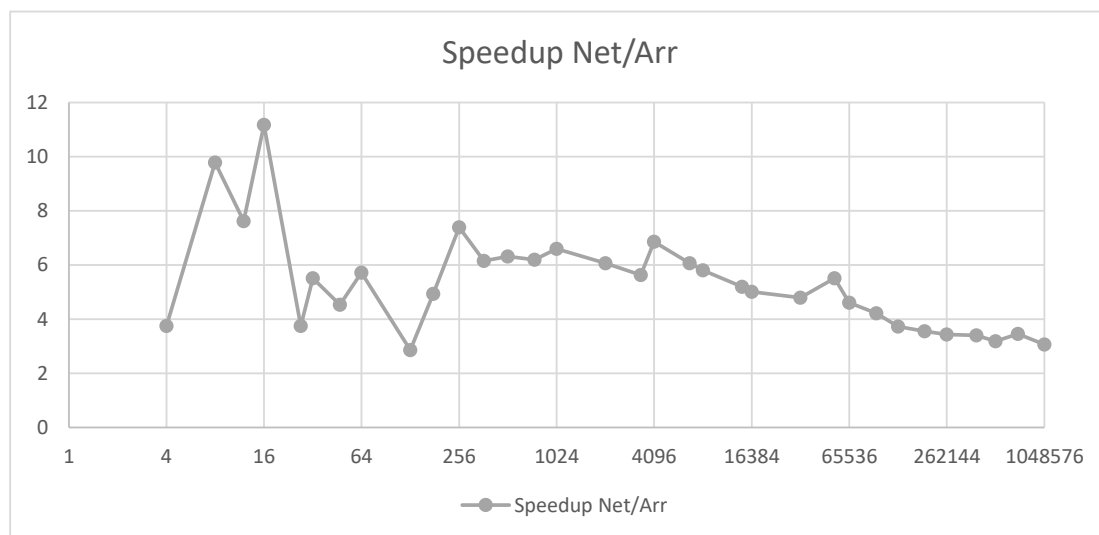
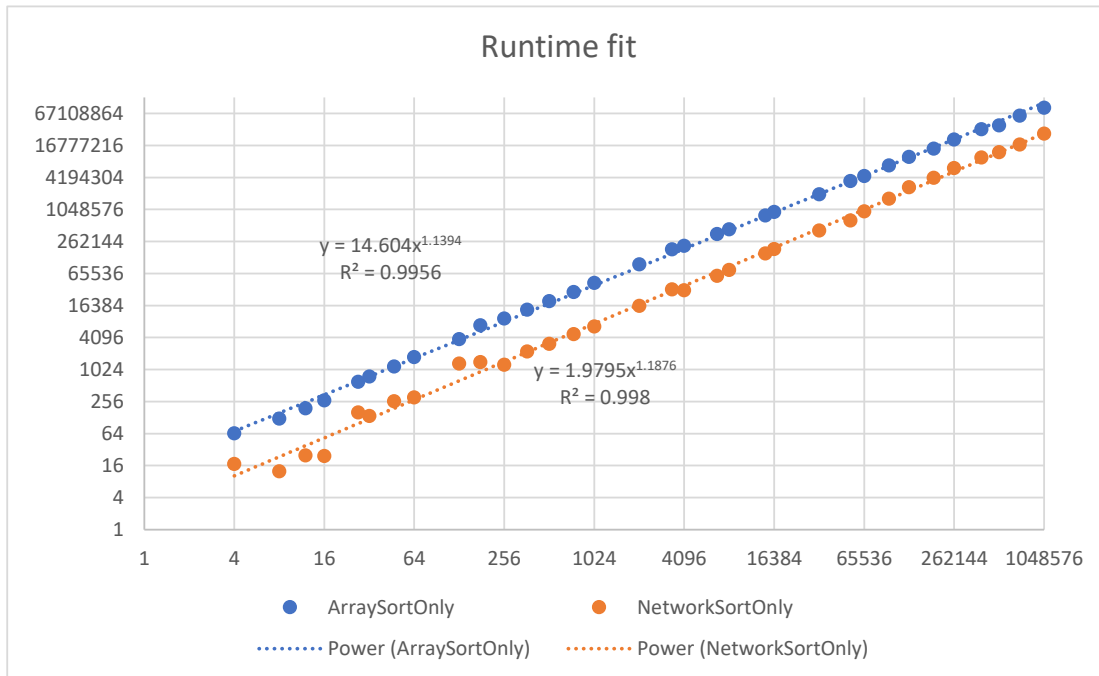


Parameter	Value
BenchmarkDotNetCaption	BenchmarkDotNet
BenchmarkDotNetVersion	0.13.1
OsVersion	Windows 10.0.22000
ProcessorName	Intel Core i7-8650U CPU 1.90GHz (Kaby Lake R)
PhysicalProcessorCount	1
PhysicalCoreCount	4
LogicalCoreCount	8
RuntimeVersion	.NET Core 3.1.21 (CoreCLR 4.700.21.51404, CoreFX 4.700.21.51508)
Architecture	X64
HasAttachedDebugger	FALSE
HasRyuJit	TRUE
Configuration	RELEASE
DotNetSdkVersion	5.0.303
ChronometerFrequency	[Table]
HardwareTimerKind	Unknown

FloatBenchmark

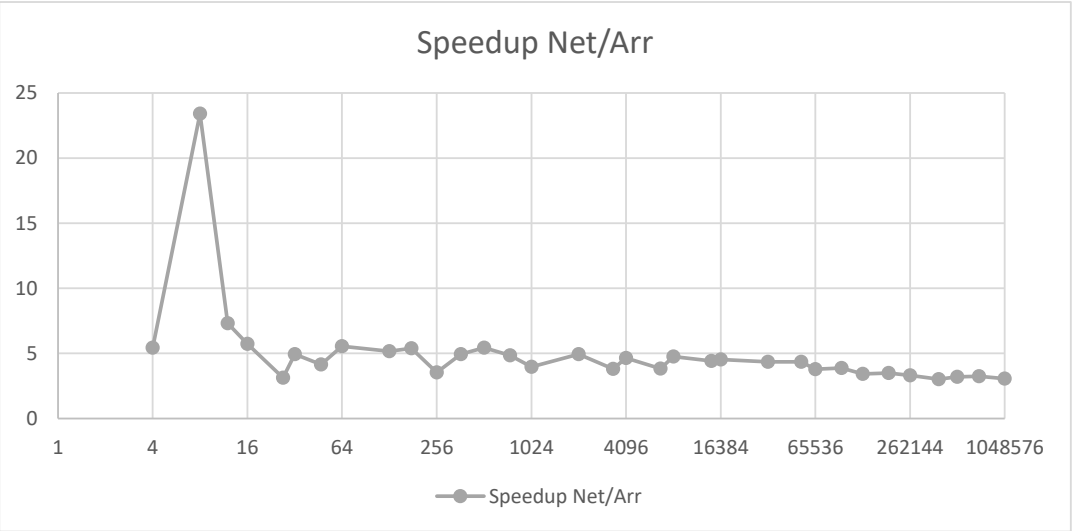
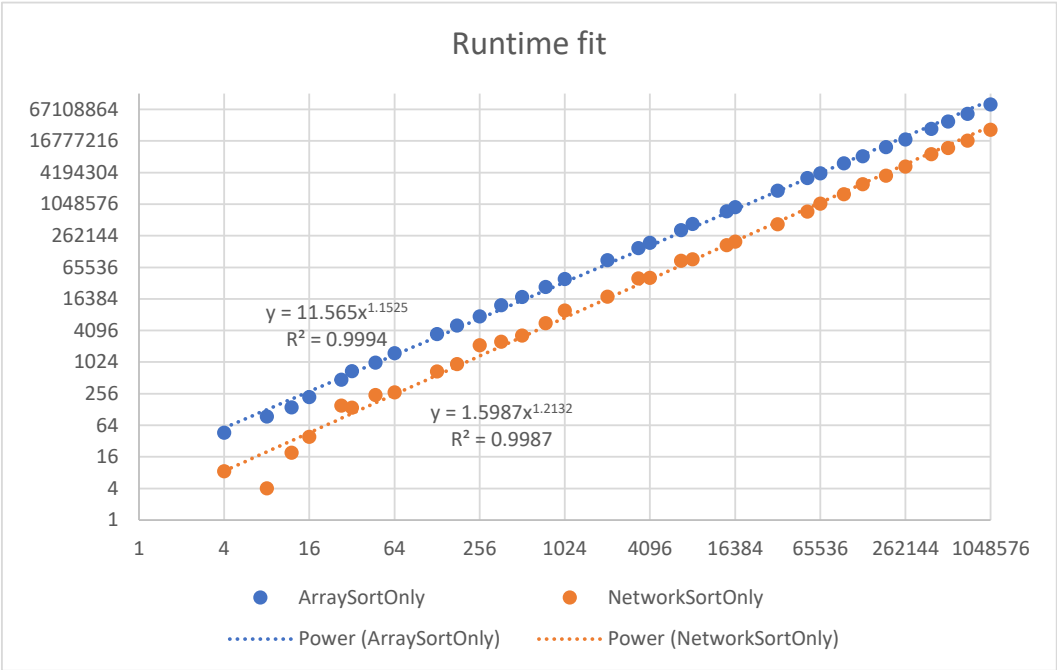
N	ArraySortOnly	NetworkSortOnly	Speedup Net/Arr
4	64.73944149	17.24569441	3.753948084
8	121.7727576	12.444761	9.78506197
12	189.7814372	24.89308097	7.623862932
16	268.9745279	24.06220351	11.17829993
27	598.916262	159.6585027	3.751233111
32	757.051603	137.4732097	5.506902797
47	1169.578827	257.8599675	4.535713076
64	1752.784783	306.57946	5.717228361
128	3811.192904	1333.546594	2.857937564
177	6927.439707	1403.843541	4.934623771
256	9298.533838	1258.634839	7.387793148
364	13714.35194	2228.898157	6.152973789
512	19776.12341	3131.993357	6.31422904
748	29498.63982	4760.729398	6.196243759
1024	43715.94443	6628.170961	6.595476292
2048	97104.88277	16021.86693	6.060772016
3389	185531.7327	32948.81919	5.630906881
4096	216382.3865	31566.92098	6.854719426
6793	360588.7001	59456.56007	6.064742052
8192	441965.0392	76124.72846	5.805801192
14289	811680.5031	156385.4275	5.190256638
16384	944085.4262	188499.9329	5.008412531
32768	2020326.861	421466.5851	4.793563553
53151	3586715.352	650593.5938	5.51298904
65536	4429293.778	960243.9416	4.612675578
96317	7032814.196	1667884.912	4.2166064
131072	10210969.13	2738639.005	3.728483056
191217	14588480.93	4109879.063	3.54961319
262144	21566531.03	6284282.837	3.431820558
398853	33971822.63	9976650.304	3.405133145
524288	39886374.9	12538006.32	3.181237423
719289	60427514.12	17464913.09	3.459937866
1048576	85302599.57	27872840.05	3.060420087

FloatBenchmark



IntBenchmark

N	ArraySortOnly	NetworkSortOnly	Speedup Net/Arr
4	46.5602746	8.55360694	5.443349797
8	94.38901314	4.03272576	23.40576046
12	140.7234515	19.25556575	7.308196155
16	221.5400415	38.57015644	5.743820145
27	476.3413109	152.5435366	3.122658105
32	687.568293	139.2724781	4.936856888
47	1010.13183	242.8093084	4.16018577
64	1509.617916	272.1847653	5.546298355
128	3518.51257	680.4409137	5.170930348
177	5108.183013	945.7635625	5.40112055
256	7615.98966	2148.212171	3.545268834
364	12481.20745	2528.218119	4.936760543
512	17810.04527	3279.074105	5.431425062
748	27608.06003	5700.915539	4.842741458
1024	39204.33385	9863.046214	3.974870745
2048	89523.8503	18121.065	4.940319473
3389	153672.2225	40323.74203	3.810961354
4096	192227.1485	41392.70256	4.643986418
6793	336424.0067	87870.95738	3.828614331
8192	442995.6986	92970.30481	4.764916061
14289	772210.6751	174442.9207	4.426724065
16384	917559.7765	202730.4092	4.526009591
32768	1901066.196	437158.9466	4.348684181
53151	3306483.178	759868.9257	4.351386227
65536	4080930.517	1078806.448	3.782819916
96317	6306604.028	1628825.656	3.871871741
131072	8611666.257	2515913.919	3.422877942
191217	12811565.59	3658929.566	3.501451821
262144	18083484.64	5447663.169	3.319493897
398853	28649635.31	9477385.581	3.022947106
524288	39305314.66	12319792.19	3.190420265
719289	55494180.42	17043838.68	3.255967242
1048576	83604593.4	27344320.32	3.057475644



Int vs Float

N	TFloat / Tint (Arr)	TFloat / Tint (Net)
4	1.390444	2.01619
8	1.290116	3.085943
12	1.348613	1.292773
16	1.214112	0.623855
27	1.257326	1.046642
32	1.101057	0.987081
47	1.157848	1.061986
64	1.161078	1.126365
128	1.083183	1.959827
177	1.356146	1.484349
256	1.220923	0.585899
364	1.0988	0.881608
512	1.110392	0.955146
748	1.068479	0.835082
1024	1.115079	0.672021
2048	1.084682	0.884157
3389	1.207321	0.817107
4096	1.12566	0.76262
6793	1.071828	0.676635
8192	0.997673	0.818807
14289	1.051113	0.896485
16384	1.028909	0.929806
32768	1.062734	0.964104
53151	1.084752	0.856192
65536	1.085364	0.890098
96317	1.115151	1.02398
131072	1.185714	1.088527
191217	1.138696	1.123246
262144	1.192609	1.153574
398853	1.185768	1.05268
524288	1.014783	1.017712
719289	1.088898	1.024705
1048576	1.02031	1.019328

