

mksort comparison

on / v4 vs. v5 / patch impact

[illegible]

xeon / v4 vs. v5 / patch impact

type	id	row	count	v4										v5										v6 (col ref)										v6 (row ref)																																																																																																																																																																																																																																																																																														
				1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10																																																																																																																																																																																																																																																																																					
1000000	100000	12.84	13.72	16.261	18.167	17.899	26.129	26.309	30.104	12.218	17.806	20.872	27.276	27.193	35.295	39.989	44.364	10.813	14.729	14.963	17.316	20.603	22.270	25.881	27.566	11.902	14.473	17.041	18.169	21.179	24.870	27.020	22.147	100% 129% 129% 126% 145% 135% 148% 147%	100% 98% 114% 105% 107% 113% 104% 108%	100% 98% 105% 126% 103% 105% 103% 107%																																																																																																																																																																																																																																																																																												
	1000000	12.86	17.12	18.043	21.594	21.324	27.074	24.224	28.103	12.417	18.062	23.285	23.032	31.659	34.409	39.177	35.371	10.861	13.773	14.600	16.340	21.672	19.973	24.822	20.787	11.563	14.806	14.514	20.788	21.549	24.840	23.670	124.12	100% 129% 129% 126% 145% 135% 148% 147%	100% 98% 105% 126% 103% 105% 103% 107%																																																																																																																																																																																																																																																																																													
	1000000	106.635	117.622	120.589	125.373	126.936	144.721	140.732	148.899	94.424	132.008	148.511	154.626	148.719	157.508	161.181	157.508	105.053	114.164	120.832	129.214	131.171	127.262	138.572	144.179	104.827	110.294	129.732	122.454	124.048	131.079	130.071	144.817	91% 113% 113% 122% 116% 105% 110% 110%	100% 98% 105% 126% 103% 105% 103% 107%																																																																																																																																																																																																																																																																																													
	1000000	97.277	122.221	125.201	132.261	132.261	140.732	138.572	148.899	94.424	132.008	148.511	154.626	148.719	157.508	161.181	157.508	105.053	114.164	120.832	129.214	131.171	127.262	138.572	144.179	104.827	110.294	129.732	122.454	124.048	131.079	130.071	144.817	91% 113% 113% 122% 116% 105% 110% 110%	100% 98% 105% 126% 103% 105% 103% 107%																																																																																																																																																																																																																																																																																													
	1000000	100.572	122.427	125.403	132.463	132.463	140.978	138.872	148.966	95.029	135.141	147.773	153.863	143.265	148.811	158.163	153.863	106.328	124.293	133.617	146.962	151.928	181.261	150.061	213.296	99.426	110.294	129.732	122.454	124.048	131.079	130.071	144.817	91% 113% 113% 122% 116% 105% 110% 110%	100% 98% 105% 126% 103% 105% 103% 107%																																																																																																																																																																																																																																																																																													
	1000000	99.875	126.019	139.427	145.282	175.413	194.411	198.993	207.983	98.784	134.078	149.342	160.307	141.696	138.416	161.594	148.599	97.806	124.904	150.809	148.787	181.826	183.034	191.370	197.300	106.363	124.904	150.809	148.787	181.826	183.034	191.370	197.300	106.363	91% 113% 113% 122% 116% 105% 110% 110%	100% 98% 105% 126% 103% 105% 103% 107%																																																																																																																																																																																																																																																																																												
	1000000	105.451	126.019	139.427	145.282	175.413	194.411	198.993	207.983	98.784	134.078	149.342	160.307	141.696	138.416	161.594	148.599	97.806	124.904	150.809	148.787	181.826	183.034	191.370	197.300	106.363	124.904	150.809	148.787	181.826	183.034	191.370	197.300	106.363	91% 113% 113% 122% 116% 105% 110% 110%	100% 98% 105% 126% 103% 105% 103% 107%																																																																																																																																																																																																																																																																																												
	1000000	110.252	126.019	139.427	145.282	175.413	194.411	198.993	207.983	98.784	134.078	149.342	160.307	141.696	138.416	161.594	148.599	97.806	124.904	150.809	148.787	181.826	183.034	191.370	197.300	106.363	124.904	150.809	148.787	181.826	183.034	191.370	197.300	106.363	91% 113% 113% 122% 116% 105% 110% 110%	100% 98% 105% 126% 103% 105% 103% 107%																																																																																																																																																																																																																																																																																												
	1000000	100.618	108.064	110.252	126.019	139.427	145.282	175.413	194.411	198.993	98.784	134.078	149.342	160.307	141.696	138.416	161.594	148.599	97.806	124.904	150.809	148.787	181.826	183.034	191.370	197.300	106.363	124.904	150.809	148.787	181.826	183.034	191.370	197.300	106.363	91% 113% 113% 122% 116% 105% 110% 110%	100% 98% 105% 126% 103% 105% 103% 107%																																																																																																																																																																																																																																																																																											
	1000000	95.412	90.374	126.019	139.427	145.282	175.413	194.411	198.993	98.784	134.078	149.342	160.307	141.696	138.416	161.594	148.599	97.806	124.904	150.809	148.787	181.826	183.034	191.370	197.300	106.363	124.904	150.809	148.787	181.826	183.034	191.370	197.300	106.363	91% 113% 113% 122% 116% 105% 110% 110%	100% 98% 105% 126% 103% 105% 103% 107%																																																																																																																																																																																																																																																																																												
10000000	100000	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.799	115.661	1274.517	100.79

mksort comparison

xeon / v4 vs. v5 / patch impact

type	distribution	rows	count	v4										v5										v4 (on / off)										v5 (on / off)																				
				on										on										on										on																				
				0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9											
10000	10000	10000	10000	0.5	0.196	0.250	0.244	0.268	0.249	0.268	0.301	0.314	0.304	0.387	0.429	0.471	0.479	0.515	0.585	0.610	0.624	0.204	0.240	0.243	0.265	0.293	0.289	0.327	0.316	0.201	0.234	0.237	0.257	0.286	0.296	0.316	0.323	104%	155%	170%	178%	152%	164%	194%	99%	98%	98%	97%	98%	102%	97%	102%		
				1	0.188	0.228	0.235	0.258	0.264	0.288	0.296	0.319	0.196	0.384	0.395	0.430	0.450	0.519	0.546	0.560	0.560	0.198	0.222	0.254	0.258	0.284	0.292	0.330	0.335	0.200	0.241	0.236	0.282	0.293	0.297	0.317	0.342	104%	160%	168%	167%	170%	181%	184%	176%	101%	100%	102%	103%	101%	101%	102%		
				2	0.181	0.227	0.253	0.296	0.298	0.301	0.313	0.314	0.147	0.283	0.354	0.395	0.440	0.464	0.504	0.517	0.500	0.241	0.270	0.278	0.271	0.301	0.321	0.360	0.203	0.247	0.271	0.271	0.272	0.299	0.326	0.348	82%	144%	140%	133%	148%	161%	164%	164%	102%	102%	103%	103%	101%	101%	102%			
				3	0.183	0.222	0.235	0.268	0.298	0.301	0.313	0.314	0.197	0.47	0.283	0.354	0.395	0.440	0.464	0.504	0.504	0.504	0.200	0.241	0.270	0.278	0.271	0.301	0.321	0.360	0.203	0.247	0.271	0.271	0.272	0.299	0.326	0.348	106%	145%	140%	133%	148%	161%	164%	164%	102%	102%	103%	103%	101%	101%	102%	
				4	0.182	0.225	0.240	0.253	0.279	0.292	0.312	0.318	0.191	0.294	0.324	0.360	0.395	0.429	0.452	0.487	0.487	0.487	0.200	0.233	0.250	0.254	0.285	0.297	0.322	0.334	0.199	0.211	0.251	0.282	0.285	0.325	0.343	100%	130%	135%	142%	147%	147%	145%	133%	99%	90%	101%	99%	99%	99%	101%	107%	
				5	0.192	0.219	0.248	0.260	0.289	0.296	0.320	0.327	0.205	0.238	0.290	0.320	0.354	0.348	0.400	0.423	0.380	0.380	0.185	0.237	0.197	0.240	0.226	0.275	0.332	0.360	1.000	0.208	0.183	0.210	0.244	0.276	0.296	0.346	100%	109%	117%	123%	122%	117%	137%	134%	100%	88%	97%	88%	100%	104%	98%	96%
				6	1.603	1.765	1.908	1.848	1.983	2.043	2.041	2.041	1.526	1.934	2.082	2.125	2.091	2.181	2.289	2.159	1.995	1.595	1.738	1.837	1.870	1.978	1.925	2.034	2.043	1.563	1.727	1.774	1.905	2.053	1.964	2.075	1.924	96%	110%	109%	115%	109%	107%	114%	100%	98%	99%	97%	102%	102%	102%	94%		
				7	1.605	1.943	2.133	2.228	2.338	2.488	2.701	2.613	1.591	2.438	2.482	2.516	2.589	2.688	2.798	2.690	1.570	1.808	1.988	1.749	1.693	2.073	1.984	2.081	2.134	1.534	1.996	1.834	2.012	2.027	2.038	2.424	2.780	99%	208%	212%	213%	222%	218%	218%	233%	100%	103%	94%	115%	119%	107%	102%	104%	
				8	1.566	1.938	2.045	2.148	2.248	2.366	2.498	2.295	1.567	3.381	3.884	4.474	4.814	4.458	4.430	4.258	1.567	1.808	1.988	1.749	1.693	2.073	1.984	2.081	2.134	1.534	1.996	1.834	2.012	2.027	2.038	2.424	2.780	100%	189%	188%	207%	246%	198%	218%	260%	100%	100%	100%	100%	100%	100%	100%	100%	100%
				9	1.573	1.891	2.107	2.215	1.877	2.213	2.644	2.855	1.566	3.584	3.742	4.001	4.441	4.254	5.024	4.542	1.568	1.781	2.126	2.157	2.381	2.297	2.749	2.904	1.609	1.981	2.144	1.993	1.906	2.169	2.567	2.684	101%	109%	178%	183%	237%	192%	190%	191%	101%	111%	101%	92%	100%	94%	93%	92%		
				10	1.596	1.987	2.101	1.848	2.456	2.391	2.137	2.216	1.568	3.283	3.632	3.932	4.102	3.87	5.024	5.205	1.605	1.966	2.219	2.216	2.330	2.522	2.728	2.878	1.603	1.986	2.041	2.249	2.459	2.429	2.714	2.826	100%	104%	174%	213%	167%	184%	202%	235%	100%	101%	103%	92%	100%	96%	191%	96%		
				11	1.561	1.816	2.144	2.260	2.478	2.541	2.636	2.771	1.586	3.096	3.360	3.600	4.095	4.448	4.696	4.883	1.433	1.620	2.283	1.967	2.500	2.467	2.672	2.703	1.306	1.710	2.205	2.287	2.449	2.568	2.489	2.936	102%	107%	160%	160%	169%	179%	173%	183%	91%	94%	97%	115%	96%	94%	84%	82%		
				12	1.501	1.931	2.144	2.312	2.418	2.592	2.769	2.769	1.567	2.726	2.842	3.248	3.544	3.937	4.127	4.370	1.522	2.055	2.211	2.164	2.490	2.473	2.449	2.734	1.306	1.801	2.109	2.281	2.369	2.469	2.156	2.611	100%	141%	133%	140%	147%	160%	158%	165%	91%	93%	95%	105%	105%	102%	98%	95%		
				13	1.523	1.942	1.824	1.905	2.060	2.362	2.718	2.624	1.575	2.216	2.275	2.796	2.748	3.198	3.766	3.711	1.466	1.907	2.264	2.175	2.504	2.476	2.717	2.872	1.509	1.975	2.122	2.269	2.475	2.533	2.677	1.973	103%	114%	125%	147%	131%	135%	139%	141%	103%	104%	99%	104%	118%	99%	98%			
100000	100000	100000	100000	1	12.360	13.953	12.690	13.057	17.732	13.025	15.088	13.757	12.429	17.190	17.296	16.606	17.877	14.136	16.115	15.284	10.675	12.797	14.822	14.962	14.635	12.770	16.418	16.598	13.747	13.394	13.720	15.648	15.348	13.363	17.337	16.087	101%	123%	132%	123%	101%	107%	101%	101%	101%	101%	101%	101%	101%	101%	101%	101%	101%	101%
				2	14.265	13.574	13.913	19.779	17.255	17.836	20.147	18.038	10.403	35.451	39.741	39.147	45.435	43.345	46.476	41.178	12.933	14.255	13.755	15.152	16.122	15.970	16.042	23.705	12.089	15.073	15.000	16.740	17.450	13.943	19.006	22.950	79%	262%	294%	280%	243%	231%	267%	99%	106%	108%	108%	108%	108%	107%				
				3	10.181	14.644	16.936	16.045	16.695	20.440	22.563	24.414	11.456	42.200	41.744	36.252	44.245	45.975	48.870	53.196	13.318	15.993	15.345	17.094	19.219	21.133	18.978	21.183	13.047	14.677	16.362	17.022	16.483	19.349	18.315	18.574	100%	289%	220%	220%	250%	268%	268%	99%	102%	104%	104%	104%	104%	104%				
				4	13.888	14.298	14.734	16.991	18.083	20.560	18.247	21.602	13.248	29.829	31.548	38.015	43.966	46.588	44.421	45.654	12.268	13.155	15.194	14.551	16.617	17.732	20.110	20.413	12.806	13.600	15.883	17.611	19.375	21.235	24.805	25.677	96%	209%	214%	200%	243%	227%	240%	239%	104%	103%	98%	121%	116%	120%	117%	107%		
				5	12.407	15.062	16.787	17.259	16.676	19.336	20.010	23.270	13.817	37.141	37.725	38.945	43.731	40.535	44.281	48.850	13.366	13.273	16.734	16.613	21.221	20.169	18.605	20.646	13.047	14.267	16.039	16.634	21.559	17.710	18.163	19.095	111%	235%	232%	226%	208%	210%	262%	201%	103%	107%	106%	107%	106%	98%	92%			
				6	10.929	13.023	17.293	15.271	18.794	17.403	18.790	22.947	9.865	28.733	31.422	38.474	40.307	38.476	41.474	52.224	11.811	16.562	16.546	15.056	20.728	16.688	20.702	22.337	11.889	15.850	15.815	15.653	21.551	16.474	20.979	22.235	90%	221%	202%	252%	214%	221%	221%	228%	102%	96%	96%	104%	104%	99%	100%	100%		
				7	12.919	14.628	14.559	18.590	18.792	19.521	21.999	20.541	10.927	21.699	21.296	34.296	34.583	33.141	33.521	52.224	11.811	16.562	16.546	15.056	20.728	16.688	20.702	22.337	11.889	15.850	15.815	15.653	21.551	16.474	20.979	22.235	92%	146%	146%	142%	163%	170%	162%	158%	102%	111%	102%	104%	100%	102%	91%			
				8	13.311	16.623	14.565	16.898	18.871	18.893	21.599	18.721	13.259	19.997	18.871	21.471	20.800	28.402	33.221	31.513	11.935	13.372	13.209	15.820	16.080	17.134	20.134	20.134	10.920	13.254	16.086	16.019	19.340	18.558	17.892	22.845	96%	185%	185%	185%	185%	185%	185%	185%	102%	102%	102%	102%	102%	98%	98%			
1000000	1000000																																																					

mksort comparison

xeon / v4 vs. v5 / patch impact

[illegible]