

[illegible]

mksort comparison

type	id	distribution	rows	count	v4 (col)										v5 (col)										v6 (col)																								
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30															
1000000	10000	11.37	14.43	15.91	17.54	19.07	21.74	24.21	25.25	11.39	19.69	22.31	25.99	27.41	33.15	35.73	37.35	11.58	14.40	16.15	17.62	19.05	20.51	23.34	28.02	11.29	14.42	16.14	17.56	19.27	20.52	23.43	28.47	102%	100%	101%	100%	100%	99%	111%	99%	73%	72%	70%	69%	62%	66%	75%	
	10000	11.37	14.43	15.91	17.54	19.07	21.74	24.21	25.25	11.39	19.69	22.31	25.99	27.41	33.15	35.73	37.35	11.58	14.40	16.15	17.62	19.05	20.51	23.34	28.02	11.29	14.42	16.14	17.56	19.27	20.52	23.43	28.47	102%	100%	101%	100%	100%	99%	111%	99%	73%	72%	70%	69%	62%	66%	75%	
	100000	11.023	12.610	13.92	15.64	14.23	14.83	14.52	16.40	16.40	10.396	13.742	14.230	14.248	14.61	16.87	16.64	16.87	11.10	12.613	13.743	13.767	14.029	14.86	19.179	16.934	14.900	12.774	13.247	13.967	14.531	14.607	15.622	17.422	101%	99%	104%	101%	100%	102%	102%	100%	104%	103%	94%	96%	102%	95%	99%
	10000	11.113	14.64	15.91	17.25	19.07	21.74	24.21	25.25	11.39	19.69	22.31	25.99	27.41	33.15	35.73	37.35	11.58	14.40	16.15	17.62	19.05	20.51	23.34	28.02	11.29	14.42	16.14	17.56	19.27	20.52	23.43	28.47	102%	100%	101%	100%	100%	99%	111%	99%	73%	72%	70%	69%	62%	66%	75%	
	10000	11.023	14.613	15.91	17.08	17.87	21.07	19.95	23.85	23.63	10.396	13.742	14.230	14.248	14.61	16.87	16.64	16.87	11.10	12.613	13.743	13.767	14.029	14.86	19.179	16.934	14.900	12.774	13.247	13.967	14.531	14.607	15.622	17.422	101%	99%	104%	101%	100%	102%	102%	100%	104%	103%	94%	96%	102%	95%	99%
	10000	11.023	14.613	15.91	17.08	17.87	21.07	19.95	23.85	23.63	10.396	13.742	14.230	14.248	14.61	16.87	16.64	16.87	11.10	12.613	13.743	13.767	14.029	14.86	19.179	16.934	14.900	12.774	13.247	13.967	14.531	14.607	15.622	17.422	101%	99%	104%	101%	100%	102%	102%	100%	104%	103%	94%	96%	102%	95%	99%
	10000	11.023	14.613	15.91	17.08	17.87	21.07	19.95	23.85	23.63	10.396	13.742	14.230	14.248	14.61	16.87	16.64	16.87	11.10	12.613	13.743	13.767	14.029	14.86	19.179	16.934	14.900	12.774	13.247	13.967	14.531	14.607	15.622	17.422	101%	99%	104%	101%	100%	102%	102%	100%	104%	103%	94%	96%	102%	95%	99%
	10000	11.023	14.613	15.91	17.08	17.87	21.07	19.95	23.85	23.63	10.396	13.742	14.230	14.248	14.61	16.87	16.64	16.87	11.10	12.613	13.743	13.767	14.029	14.86	19.179	16.934	14.900	12.774	13.247	13.967	14.531	14.607	15.622	17.422	101%	99%	104%	101%	100%	102%	102%	100%	104%	103%	94%	96%	102%	95%	99%
	10000	11.023	14.613	15.91	17.08	17.87	21.07	19.95	23.85	23.63	10.396	13.742	14.230	14.248	14.61	16.87	16.64	16.87	11.10	12.613	13.743	13.767	14.029	14.86	19.179	16.934	14.900	12.774	13.247	13.967	14.531	14.607	15.622	17.422	101%	99%	104%	101%	100%	102%	102%	100%	104%	103%	94%	96%	102%	95%	99%
	10000	11.023	14.613	15.91	17.08	17.87	21.07	19.95	23.85	23.63	10.396	13.742	14.230	14.248	14.61	16.87	16.64	16.87	11.10	12.613	13.743	13.767	14.029	14.86	19.179	16.934	14.900	12.774	13.247	13.967	14.531	14.607	15.622	17.422	101%	99%	104%	101%	100%	102%	102%	100%	104%	103%	94%	96%	102%	95%	99%
1000000	10000	11.37	14.43	15.91	17.54	19.07	21.74	24.21	25.25	11.39	19.69	22.31	25.99	27.41	33.15	35.73	37.35	11.58	14.40	16.15	17.62	19.05	20.51	23.34	28.02	11.29	14.42	16.14	17.56	19.27	20.52	23.43	28.47	102%	100%	101%	100%	100%	99%	111%	99%	73%	72%	70%	69%	62%	66%	75%	
	10000	11.37	14.43	15.91	17.54	19.07	21.74	24.21	25.25	11.39	19.69	22.31	25.99	27.41	33.15	35.73	37.35	11.58	14.40	16.15	17.62	19.05	20.51	23.34	28.02	11.29	14.42	16.14	17.56	19.27	20.52	23.43	28.47	102%	100%	101%	100%	100%	99%	111%	99%	73%	72%	70%	69%	62%	66%	75%	
	100000	11.023	12.610	13.92	15.64	14.23	14.83	14.52	16.40	16.40	10.396	13.742	14.230	14.248	14.61	16.87	16.64	16.87	11.10	12.613	13.743	13.767	14.029	14.86	19.179	16.934	14.900	12.774	13.247	13.967	14.531	14.607	15.622	17.422	101%	99%	104%	101%	100%	102%	102%	100%	104%	103%	94%	96%	102%	95%	99%
	10000	11.113	14.64	15.91	17.25	19.07	21.74	24.21	25.25	11.39	19.69	22.31	25.99	27.41	33.15	35.73	37.35	11.58	14.40	16.15	17.62	19.05	20.51	23.34	28.02	11.29	14.42	16.14	17.56	19.27	20.52	23.43	28.47	102%	100%	101%	100%	100%	99%	111%	99%	73%	72%	70%	69%	62%	66%	75%	
	10000	11.023	14.613	15.91	17.08	17.87	21.07	19.95	23.85	23.63	10.396	13.742	14.230	14.248	14.61	16.87	16.64	16.87	11.10	12.613	13.743	13.767	14.029	14.86	19.179	16.934	14.900	12.774	13.247	13.967	14.531	14.607	15.622	17.422	101%	99%	104%	101%	100%	102%	102%	100%	104%	103%	94%	96%	102%	95%	99%
	10000	11.023	14.613	15.91	17.08	17.87	21.07	19.95	23.85	23.63	10.396	13.742	14.230	14.248	14.61	16.87	16.64	16.87	11.10	12.613	13.743	13.767	14.029	14.86	19.179	16.934	14.900	12.774	13.247	13.967	14.531	14.607	15.622	17.422	101%	99%	104%	101%	100%	102%	102%	100%	104%	103%	94%	96%	102%	95%	99%
	10000	11.023	14.613	15.91	17.08	17.87	21.07	19.95	23.85	23.63	10.396	13.742	14.230	14.248	14.61	16.87	16.64	16.87	11.10	12.613	13.743	13.767	14.029	14.86	19.179	16.934	14.900	12.774	13.247	13.967	14.531	14.607	15.622	17.422	101%	99%	104%	101%	100%	102%	102%	100%	104%	103%	94%	96%	102%	95%	99%
	10000	11.023	14.613	15.91	17.08	17.87	21.07	19.95	23.85	23.63	10.396	13.742	14.230	14.248	14.61	16.87	16.64	16.87	11.10	12.613	13.743	13.767	14.029	14.86	19.179	16.934	14.900	12.774	13.247	13.967	14.531	14.607	15.622	17.422	101%	99%	104%	101%	100%	102%	102%	100%	104%	103%	94%	96%	102%	95%	99%
	10000	11.023	14.613	15.91	17.08	17.87	21.07	19.95	23.85	23.63	10.396	13.742	14.230	14.248	14.61	16.87	16.64	16.87	11.10	12.613	13.743	13.767	14.029	14.86	19.179	16.934	14.900	12.774	13.247	13.967	14.531	14.607	15.622	17.422	101%	99%	104%	101%	100%	102%	102%	100%	104%	103%	94%	96%	102%	95%	99%
	10000	11.023	14.613	15.91	17.08	17.87	21.07	19.95	23.85	23.63	10.396	13.742	14.230	14.248	14.61	16.87	16.64	16.87	11.10	12.613	13.743	13.767	14.029	14.86	19.179	16.934	14.900	12.774	13.247	13.967	14.531	14.607	15.622	17.422	101%	99%	104%	101%	100%	102%	102%	100%	104%	103%	94%	96%	102%	95%	99%
1000000	10000	11.37	14.43	15.91	17.54	19.07	21.74	24.21	25.25	11.39	19.69	22.31	25.99	27.41	33.15	35.73	37.35	11.58	14.40	16.15	17.62	19.05	20.51	23.34	28.02	11.29	14.42	16.14	17.56	19.27	20.52	23.43	28.47	102%	100%	101%	100%	100%	99%	111%	99%	73%	72%	70%	69%	62%	66%	75%	
	10000	11.37	14.43	15.91	17.54	19.07	21.74	24.21	25.25	11.39	19.69	22.31	25.99	27.41	33.15	35.73	37.35	11.58	14.40	16.15	17.62	19.05	20.51	23.34	28.02	11.29	14.42	16.14	17.56	19.27	20.52	23.43	28.47	102%	100%	101%	100%	100%	99%	111%	99%	73%	72%	70%	69%	62%	66%	75%	
	100000	11.023	12.610	13.92	15.64	14.23	14.83	14.52	16.40	16.40	10.396	13.742	14.230	14.248	14.61	16.87	16.64	16.87	11.10	12.613	13.743	13.767	14.029	14.86	19.179	16.934	14.900	12.774	13.247	13.967	14.531	14.607	15.622	17.422	101%	99%	104%	101%	100%	102%	102%	100%	104%	103%	94%	96%	102%	95%	99%
	10000	11.113	14.64	15.91	17.25	19.07	21.74	24.21	25.25	11.39	19.69	22.31	25.99	27.41	33.15	35.73	37.35	11.58	14.40	16.15	17.62	19.05	20.51	23.34	28.02	11.29	14.42	16.14	17.56	19.27	20.52	23.43	28.47	102%	100%	101%	100%	100%	99%	111%	99%	73%	72%	70%	69%	62%	66%	75%	
	10000	11.023	14.613	15.91	17.08	17.87	21.07	19.95	23.85	23.63	10.396	13.742	14.230	14.248	14.61	16.87	16.64	16.87	11.10	12.613	13.743	13.767	14.029	14.86	19.179	16.934	14.900	12.774	13.247	13.967	14.531	14.607	15.622	17.422	101%	99%	104%	101%	100%	102%	102%	100%	104%	103%	94%	96%	102%	95%	99%
	10000	11.023	14.613	15.91	17.08	17.87	21.07	19.95	23.85	23.63	10.396	13.742	14.230	14.248	14.61	16.87	16.64	16.87	11.10	12.613	13.743	13.767	14.029	14.86	19.179	16.934	14.900	12.774	13.247	13.967	14.531	14.607	15.622	17.422	10														

mksort comparison

rpi5 / v4 vs. v5 / patch comparison

		v4										v5 (v4)										v6 (v4)																																																																																																																																																																																																																																																																																																																																																																																																																								
type	id	rows	count	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8																																																																																																																																																																																																																																																																																																																																																																																																											
				5	0.195	0.225	0.237	0.255	0.268	0.268	0.285	0.306	0.193	0.356	0.422	0.466	0.512	0.518	0.588	0.628	0.163	0.190	0.213	0.208	0.233	0.234	0.261	0.254	0.158	0.182	0.201	0.207	0.222	0.233	0.257	0.257	84%	84%	90%	82%	87%	87%	88%	83%	82%	51%	48%	44%	45%	45%	44%	41%	41%																																																																																																																																																																																																																																																																																																																																																																																									
				10	0.198	0.227	0.256	0.260	0.285	0.268	0.297	0.295	0.182	0.351	0.402	0.445	0.487	0.540	0.588	0.638	0.203	0.226	0.243	0.262	0.275	0.279	0.321	0.375	0.154	0.189	0.249	0.257	0.268	0.280	0.305	0.325	103%	99%	100%	100%	104%	104%	104%	102%	104%	70%	68%	62%	60%	63%	61%	61%	61%																																																																																																																																																																																																																																																																																																																																																																																									
				15	0.193	0.226	0.236	0.252	0.261	0.283	0.293	0.296	0.185	0.352	0.411	0.454	0.497	0.550	0.598	0.648	0.207	0.230	0.247	0.266	0.279	0.283	0.325	0.378	0.157	0.192	0.251	0.260	0.271	0.283	0.308	0.328	103%	100%	100%	100%	104%	104%	104%	102%	104%	70%	68%	62%	60%	63%	61%	61%	61%																																																																																																																																																																																																																																																																																																																																																																																									
				20	0.197	0.216	0.226	0.233	0.249	0.283	0.310	0.322	0.186	0.295	0.322	0.333	0.405	0.441	0.475	0.505	0.156	0.181	0.199	0.203	0.221	0.238	0.254	0.277	0.162	0.180	0.198	0.218	0.219	0.252	0.260	0.258	79%	84%	88%	87%	82%	84%	82%	86%	83%	61%	61%	62%	54%	57%	56%	51%	51%																																																																																																																																																																																																																																																																																																																																																																																									
				25	0.193	0.197	0.213	0.218	0.240	0.244	0.285	0.286	0.180	0.254	0.282	0.303	0.340	0.369	0.411	0.429	0.185	0.211	0.217	0.237	0.266	0.270	0.287	0.296	0.183	0.213	0.236	0.246	0.257	0.272	0.289	0.304	79%	84%	88%	87%	82%	84%	82%	86%	83%	61%	61%	62%	54%	57%	56%	51%	51%																																																																																																																																																																																																																																																																																																																																																																																									
				30	0.208	0.174	0.193	0.192	0.217	0.225	0.252	0.267	0.156	0.195	0.210	0.240	0.277	0.295	0.328	0.335	0.187	0.235	0.250	0.249	0.273	0.284	0.300	0.327	0.188	0.220	0.249	0.249	0.275	0.288	0.336	0.330	86%	100%	120%	120%	120%	120%	119%	120%	120%	118%	114%	104%	99%	88%	83%	84%	84%	84%																																																																																																																																																																																																																																																																																																																																																																																								
10000				1	1.243	1.121	1.302	1.447	1.646	1.646	1.742	1.742	1.258	1.342	1.551	1.646	1.742	1.742	1.848	1.848	1.258	1.342	1.551	1.646	1.742	1.742	1.848	1.848	1.258	1.342	1.551	1.646	1.742	1.742	1.848	1.848	96%	99%	99%	100%	100%	99%	97%	78%	91%	50%	44%	45%	45%	44%	43%	34%	34%																																																																																																																																																																																																																																																																																																																																																																																									
				5	1.267	1.445	1.605	1.830	1.776	1.862	2.077	2.640	1.268	3.700	4.319	3.691	4.011	4.326	4.684	4.327	1.256	1.445	1.588	1.687	1.752	1.831	2.024	2.050	1.240	1.536	1.642	1.665	1.800	1.848	2.069	1.209	100%	99%	99%	100%	100%	99%	97%	78%	91%	50%	44%	45%	45%	44%	43%	34%	34%																																																																																																																																																																																																																																																																																																																																																																																									
				10	1.268	1.447	1.614	1.666	1.880	2.042	2.077	2.223	1.306	2.865	3.194	3.425	3.711	4.104	4.304	4.678	1.259	1.309	1.499	1.689	1.933	1.895	2.099	2.139	1.256	1.515	1.611	1.717	1.901	1.904	2.121	2.192	103%	101%	100%	101%	107%	93%	101%	100%	96%	96%	53%	50%	51%	51%	46%	49%	45%	46%	45%	45%																																																																																																																																																																																																																																																																																																																																																																																						
				15	1.263	1.450	1.609	1.915	2.362	2.319	2.574	2.628	1.257	3.429	3.798	4.114	4.518	4.563	5.126	5.199	1.278	1.493	1.628	1.709	1.840	2.442	2.577	2.777	1.275	1.522	1.640	1.717	1.897	2.431	2.655	2.702	102%	88%	79%	79%	79%	78%	100%	100%	100%	100%	101%	44%	42%	41%	43%	52%	52%	52%	52%																																																																																																																																																																																																																																																																																																																																																																																							
				20	1.263	1.450	1.609	1.915	2.362	2.319	2.574	2.628	1.257	3.429	3.798	4.114	4.518	4.563	5.126	5.199	1.278	1.493	1.628	1.709	1.840	2.442	2.577	2.777	1.275	1.522	1.640	1.717	1.897	2.431	2.655	2.702	102%	88%	79%	79%	79%	78%	100%	100%	100%	100%	100%	101%	44%	42%	41%	43%	52%	52%	52%	52%																																																																																																																																																																																																																																																																																																																																																																																						
				25	1.263	1.450	1.609	1.915	2.362	2.319	2.574	2.628	1.257	3.429	3.798	4.114	4.518	4.563	5.126	5.199	1.278	1.493	1.628	1.709	1.840	2.442	2.577	2.777	1.275	1.522	1.640	1.717	1.897	2.431	2.655	2.702	102%	88%	79%	79%	79%	78%	100%	100%	100%	100%	100%	100%	101%	44%	42%	41%	43%	52%	52%	52%	52%																																																																																																																																																																																																																																																																																																																																																																																					
				30	1.266	1.457	1.605	1.920	2.361	2.324	2.607	2.680	1.258	3.405	3.397	3.871	3.887	4.156	4.477	4.997	1.257	1.480	1.599	1.713	1.877	1.887	2.117	2.252	1.272	1.546	1.629	1.735	1.875	1.957	2.186	2.247	78%	77%	79%	79%	79%	79%	84%	81%	81%	79%	79%	49%	47%	47%	48%	47%	47%	47%	47%																																																																																																																																																																																																																																																																																																																																																																																							
				1000	1.256	1.506	1.611	1.681	1.861	1.909	2.734	2.759	1.252	1.954	2.207	2.457	2.749	2.952	4.184	3.331	1.243	1.478	1.614	1.660	1.841	2.023	2.142	2.193	1.278	1.584	1.622	1.695	1.898	1.924	2.194	2.247	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%																																																																																																																																																																																																																																																																																																																																																																																	
10000				1	1.268	1.449	1.627	1.699	1.827	1.920	2.157	2.232	1.265	1.675	1.948	2.164	2.438	2.678	2.945	3.125	1.257	1.516	1.652	1.737	1.885	1.995	2.440	2.448	1.248	1.519	1.656	1.700	1.899	1.958	2.467	2.499	100%	102%	102%	102%	102%	103%	99%	99%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%	103%

rpi5 / v4 vs. v5 / patch comparison

id	name	age	sex	count	v4										v5										v6 (cat)										v7 (cat)																																																																																																																																																																																																																																																																																																																																																				
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40																																																																																																																																																																																																																																																																																																																																											
1000000	1000000	16.221	30.496	52.827	81.667	128.528	198.482	241.578	331.207	467.360	631.301	785.476	951.173	1124.000	1302.000	1484.000	1671.000	1862.000	2057.000	2256.000	2458.000	2663.000	2871.000	3082.000	3295.000	3510.000	3727.000	3946.000	4167.000	4390.000	4615.000	4842.000	5071.000	5302.000	5535.000	5770.000	6007.000	6246.000	6487.000	6730.000	6975.000	7222.000	7471.000	7722.000	7975.000	8230.000	8487.000	8746.000	9007.000	9269.000	9532.000	9796.000	10061.000	10327.000	10594.000	10862.000	11131.000	11401.000	11672.000	11944.000	12217.000	12491.000	12766.000	13042.000	13319.000	13597.000	13875.000	14154.000	14434.000	14714.000	15000.000	15280.000	15560.000	15840.000	16120.000	16400.000	16680.000	16960.000	17240.000	17520.000	17800.000	18080.000	18360.000	18640.000	18920.000	19200.000	19480.000	19760.000	20040.000	20320.000	20600.000	20880.000	21160.000	21440.000	21720.000	22000.000	22280.000	22560.000	22840.000	23120.000	23400.000	23680.000	23960.000	24240.000	24520.000	24800.000	25080.000	25360.000	25640.000	25920.000	26200.000	26480.000	26760.000	27040.000	27320.000	27600.000	27880.000	28160.000	28440.000	28720.000	29000.000	29280.000	29560.000	29840.000	30120.000	30400.000	30680.000	30960.000	31240.000	31520.000	31800.000	32080.000	32360.000	32640.000	32920.000	33200.000	33480.000	33760.000	34040.000	34320.000	34600.000	34880.000	35160.000	35440.000	35720.000	36000.000	36280.000	36560.000	36840.000	37120.000	37400.000	37680.000	37960.000	38240.000	38520.000	38800.000	39080.000	39360.000	39640.000	39920.000	40200.000	40480.000	40760.000	41040.000	41320.000	41600.000	41880.000	42160.000	42440.000	42720.000	43000.000	43280.000	43560.000	43840.000	44120.000	44400.000	44680.000	44960.000	45240.000	45520.000	45800.000	46080.000	46360.000	46640.000	46920.000	47200.000	47480.000	47760.000	48040.000	48320.000	48600.000	48880.000	49160.000	49440.000	49720.000	50000.000	50280.000	50560.000	50840.000	51120.000	51400.000	51680.000	51960.000	52240.000	52520.000	52800.000	53080.000	53360.000	53640.000	53920.000	54200.000	54480.000	54760.000	55040.000	55320.000	55600.000	55880.000	56160.000	56440.000	56720.000	57000.000	57280.000	57560.000	57840.000	58120.000	58400.000	58680.000	58960.000	59240.000	59520.000	59800.000	60080.000	60360.000	60640.000	60920.000	61200.000	61480.000	61760.000	62040.000	62320.000	62600.000	62880.000	63160.000	63440.000	63720.000	64000.000	64280.000	64560.000	64840.000	65120.000	65400.000	65680.000	65960.000	66240.000	66520.000	66800.000	67080.000	67360.000	67640.000	67920.000	68200.000	68480.000	68760.000	69040.000	69320.000	69600.000	69880.000	70160.000	70440.000	70720.000	71000.000	71280.000	71560.000	71840.000	72120.000	72400.000	72680.000	72960.000	73240.000	73520.000	73800.000	74080.000	74360.000	74640.000	74920.000	75200.000	75480.000	75760.000	76040.000	76320.000	76600.000	76880.000	77160.000	77440.000	77720.000	78000.000	78280.000	78560.000	78840.000	79120.000	79400.000	79680.000	79960.000	80240.000	80520.000	80800.000	81080.000	81360.000	81640.000	81920.000	82200.000	82480.000	82760.000	83040.000	83320.000	83600.000	83880.000	84160.000	84440.000	84720.000	85000.000	85280.000	85560.000	85840.000	86120.000	86400.000	86680.000	86960.000	87240.000	87520.000	87800.000	88080.000	88360.000	88640.000	88920.000	89200.000	89480.000	89760.000	90040.000	90320.000	90600.000	90880.000	91160.000	91440.000	91720.000	92000.000	92280.000	92560.000	92840.000	93120.000	93400.000	93680.000	93960.000	94240.000	94520.000	94800.000	95080.000	95360.000	95640.000	95920.000	96200.000	96480.000	96760.000	97040.000	97320.000	97600.000	97880.000	98160.000	98440.000	98720.000	99000.000	99280.000	99560.000	99840.000	1000000
	1000000	16.221	30.496	52.827	81.667	128.528	198.482	241.578	331.207	467.360	631.301	785.476	951.173	1124.000	1302.000	1484.000	1671.000	1862.000	2057.000	2256.000	2458.000	2663.000	2871.000	3082.000	3295.000	3510.000	3727.000	3946.000	4167.000	4390.000	4615.000	4842.000	5071.000	5302.000	5535.000	5770.000	6007.000	6246.000	6487.000	6730.000	6975.000	7222.000	7471.000	7722.000	7975.000	8230.000	8487.000	8746.000	9007.000	9269.000	9532.000	9796.000	10061.000	10327.000	10594.000	10862.000	11131.000	11401.000	11672.000	11944.000	12217.000	12491.000	12766.000	13042.000	13319.000	13597.000	13875.000	14154.000	14434.000	14714.000	15000.000	15280.000	15560.000	15840.000	16120.000	16400.000	16680.000	16960.000	17240.000	17520.000	17800.000	18080.000	18360.000	18640.000	18920.000	19200.000	19480.000	19760.000	20040.000	20320.000	20600.000	20880.000	21160.000	21440.000	21720.000	22000.000	22280.000	22560.000	22840.000	23120.000	23400.000	23680.000	23960.000	24240.000	24520.000	24800.000	25080.000	25360.000	25640.000	25920.000	26200.000	26480.000	26760.000	27040.000	27320.000	27600.000	27880.000	28160.000	28440.000	28720.000	29000.000	29280.000	29560.000	29840.000	30120.000	30400.000	30680.000	30960.000	31240.000	31520.000	31800.000	32080.000	32360.000	32640.000	32920.000	33200.000	33480.000	33760.000	34040.000	34320.000	34600.000	34880.000	35160.000	35440.000	35720.000	36000.000	36280.000	36560.000	36840.000	37120.000	37400.000	37680.000	37960.000	38240.000	38520.000	38800.000	39080.000	39360.000	39640.000	39920.000	40200.000	40480.000	40760.000	41040.000	41320.000	41600.000	41880.000	42160.000	42440.000	42720.000	43000.000	43280.000	43560.000	43840.000	44120.000	44400.000	44680.000	44960.000	45240.000	45520.000	45800.000	46080.000	46360.000	46640.000	46920.000	47200.000	47480.000	47760.000	48040.000	48320.000	48600.000	48880.000	49160.000	49440.000	49720.000	50000.000	50280.000	50560.000	50840.000	51120.000	51400.000	51680.000	51960.000	52240.000	52520.000	52800.000	53080.000	53360.000	53640.000	53920.000	54200.000	54480.000	54760.000	55040.000	55320.000	55600.000	55880.000	56160.000	56440.000	56720.000	57000.000	57280.000	57560.000	57840.000	58120.000	58400.000	58680.000	58960.000	59240.000	59520.000	59800.000	60080.000	60360.000	60640.000	60920.000	61200.000	61480.000	61760.000	62040.000	62320.000	62600.000	62880.000	63160.000	63440.000	63720.000	64000.000	64280.000	64560.000	64840.000	65120.000	65400.000	65680.000	65960.000	66240.000	66520.000	66800.000	67080.000	67360.000	67640.000	67920.000	68200.000	68480.000	68760.000	69040.000	69320.000	69600.000	69880.000	70160.000	70440.000	70720.000	71000.000	71280.000	71560.000	71840.000	72120.000	72400.000	72680.000	72960.000	73240.000	73520.000	73800.000	74080.000	74360.000	74640.000	74920.000	75200.000	75480.000	75760.000	76040.000	76320.000	76600.000	76880.000	77160.000	77440.000	77720.000	78000.000	78280.000	78560.000	78840.000	79120.000	79400.000	79680.000	79960.000	80240.000	80520.000	80800.000	81080.000	81360.000	81640.000	81920.000	82200.000	82480.000	82760.000	83040.000	83320.000	83600.000	83880.000	84160.000	84440.000	84720.000	85000.000	85280.000	85560.000	85840.000	86120.000	86400.000	86680.000	86960.000	87240.000	87520.000	87800.000	88080.000	88360.000	88640.000	88920.000	89200.000	89480.000	89760.000	90040.000	90320.000	90600.000	90880.000	91160.000	91440.000	91720.000	92000.000	92280.000	92560.000	92840.000	93120.000	93400.000	93680.000	93960.000	94240.000	94520.000	94800.000	95080.000	95360.000	95640.000	95920.000	96200.000	96480.000	96760.000	97040.000	97320.000	97600.000	97880.000	98160.000	98440.000	98720.000	99000.000	99280.000	99560.000	99840.000	1000000

mksort comparison

rp15 / v4 vs. v5 / patch comparison

v4				v5										v5 / v4 (diff)										v5 / v4 (con)																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
type	distribution	rows	count	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																																																																																																																																																																																																																																			
10000				10	0.248	0.367	0.384	0.420	0.404	0.391	0.426	0.444	0.252	0.499	0.564	0.565	0.553	0.533	0.581	0.599	0.196	0.306	0.318	0.321	0.372	0.338	0.353	0.388	0.197	0.303	0.323	0.319	0.332	0.332	0.357	0.424	79%	81%	83%	76%	92%	87%	83%	87%	78%	61%	67%	56%	60%	62%	61%	62%	66%	61%																																																																																																																																																																																																																																																																																																																																																																																																																																				
				20	0.234	0.393	0.433	0.448	0.472	0.460	0.475	0.455	0.231	0.503	0.564	0.589	0.582	0.580	0.659	0.571	0.190	0.321	0.331	0.358	0.357	0.370	0.380	0.402	0.190	0.313	0.330	0.346	0.347	0.353	0.410	0.379	81%	82%	81%	80%	76%	81%	82%	88%	83%	62%	59%	59%	60%	61%	61%	62%	66%																																																																																																																																																																																																																																																																																																																																																																																																																																					
				30	0.234	0.385	0.477	0.494	0.500	0.510	0.508	0.524	0.235	0.488	0.573	0.593	0.614	0.605	0.608	0.624	0.182	0.322	0.339	0.394	0.395	0.408	0.425	0.435	0.181	0.314	0.356	0.369	0.368	0.340	0.403	0.404	78%	86%	80%	80%	76%	80%	84%	83%	77%	67%	62%	62%	60%	68%	66%	65%																																																																																																																																																																																																																																																																																																																																																																																																																																						
				40	0.223	0.386	0.553	0.552	0.543	0.557	0.589	0.588	0.222	0.492	0.576	0.607	0.599	0.615	0.606	0.606	0.628	0.278	0.371	0.416	0.482	0.461	0.480	0.504	0.498	0.278	0.371	0.452	0.461	0.480	0.504	0.508	0.528	100%	100%	100%	104%	104%	101%	101%	107%	87%	78%	62%	63%	62%	65%	65%	70%																																																																																																																																																																																																																																																																																																																																																																																																																																					
				50	0.202	0.264	0.311	0.370	0.480	0.459	0.572	0.668	0.201	0.288	0.363	0.410	0.403	0.427	0.499	0.558	0.207	0.272	0.326	0.416	0.493	0.562	0.704	0.872	0.222	0.280	0.335	0.412	0.440	0.484	0.594	0.694	100%	100%	100%	103%	110%	110%	110%	122%	122%	113%	111%	97%	92%	100%	106%	116%	119%	124%																																																																																																																																																																																																																																																																																																																																																																																																																																				
				60	2.099	2.512	2.548	3.427	2.873	2.990	2.998	3.048	2.125	4.441	4.520	5.801	4.844	4.964	4.969	5.084	2.081	2.482	2.696	2.562	2.758	2.887	3.077	3.084	2.075	2.705	2.774	3.040	3.082	3.179	3.295	3.269	99%	99%	102%	76%	96%	100%	98%	98%	98%	61%	61%	67%	64%	64%	64%	67%	72%																																																																																																																																																																																																																																																																																																																																																																																																																																					
				70	2.006	2.886	2.932	2.950	3.156	3.181	3.260	3.389	2.008	4.673	4.651	4.773	4.905	5.234	5.119	5.129	2.013	3.433	3.699	2.948	3.267	3.086	3.228	3.439	1.980	3.511	3.774	3.135	3.187	3.275	3.380	3.563	100%	119%	128%	100%	104%	97%	99%	101%	101%	75%	81%	66%	65%	63%	66%	69%	69%																																																																																																																																																																																																																																																																																																																																																																																																																																					
				80	1.988	3.054	3.151	3.184	3.238	3.420	3.527	3.637	1.901	4.642	4.691	4.809	4.970	5.008	5.157	5.262	1.877	3.054	3.327	3.189	3.347	3.285	3.404	3.680	1.980	3.099	3.169	3.248	3.475	3.404	3.627	3.699	99%	100%	99%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%