kernel-4.12-5(seconds)	test1	test2	test3	test4	test5	test6	test7	test8	test9	test10	test11	test12	Avg	cgroup cost
no cgroup/real	32.597	32.797	32.63	32.456	32.711	32.469	32.881	32.848	32.61	32.656	32.724	32.663	32.67016667	
no cgroup/usr	1162.726	1165.488	1163.288	1162.898	1160.731	1164.925	1160.156	1164.129	1161.439	1159.321	1162.601	1163.45	1162.596	
no cgroup/sys	125.981	126.129	123.365	123.893	122.95	123.605	123.389	123.731	123.269	123.693	123.216	124.115	123.9446667	
												user+sys	1286.540667	
root cgroup/real	32.839	32.481	32.684	33.011	32.727	32.826	32.826	32.725	32.703	32.72	32.819	32.891	32.771	
root cgroup/usr	1162.434	19m19.317	1160.719	1162.071	1163.564	1166.045	1166.045	1163.184	1161.249	1161.49	1165.207	1161.674	1163.062	0.04%
root cgroup/sys	129.172	127.085	127.181	126.982	126.513	127.721	127.721	127.51	127.949	127.308	127.732	127.134	127.5006667	2.87%
												user+sys	1290.562667	**0.31%**
cgroup child 1/real	32.771	32.768	32.582	32.79	32.864	33.067	32.962	32.717	32.891	32.766	32.909	32.642	32.81075	
cgroup child 1/usr	1163.506	1162.126	1162.848	1163.271	1166.1	1164.353	1163.231	1164.019	1161.122	1161.642	1163.433	1162.627	1163.189833	0.05%
cgroup child 1/sys	129.095	128.672	129.432	129.669	128.977	129.394	129.381	128.536	128.855	129.435	129.386	129.445	129.18975	4.06%
												user+sys	1292.379583	**0.45%**
cgroup child 2/real	32.85	32.889	33.014	32.772	33.083	33.005	32.531	32.855	32.651	32.7	32.781	32.928	32.83825	
cgroup child 2/usr	1163.22	1162.787	1164.681	1164.376	1160.61	1161.413	1160.074	1161.421	1163.16	1163.987	1160.982	1162.683	1162.4495	-0.01%
cgroup child 2/sys	129.907	129.731	129.646	129.765	129.498	129.458	129.423	129.44	130.076	129.607	129.263	129.594	129.6173333	4.58%
												user+sys	1292.066833	**0.43%**
kernel-3.10.0														
no cgroup/real	31.577	31.275	30.926	30.999	31.474	30.899	30.874	30.803	30.944	31.313	31.535	31.052	31.13925	
no cgroup/usr	1164.49	1161.532	1162.621	1163.342	1161.255	1161.49	1161.685	1162.63	1162.053	19m19.618	1163.668	1161.522	1162.389818	
no cgroup/sys	125.742	125.932	125.998	124.853	125.808	126.28	125.634	125.813	125.554	126.187	126.165	125.618	125.7986667	
												user+sys	1288.188485	
root cgroup/real	31.146	31.173	31.95	31.321	31.17	30.894	31.706	31.126	30.998	31.089	31.405	31.518	31.29133333	
root cgroup/usr	1162.576	1168.007	1162.674	1162.854	1163.39	1163.471	1164.438	1161.011	1161.733	1166.417	1166.734	1163.173	1163.873167	0.13%
root cgroup/sys	135.519	134.749	135.874	136.02	134.477	134.75	135.226	135.717	135.197	136.002	135.247	136.142	135.41	7.64%
												user+sys	1299.283167	**0.86%**
cgroup child 1/real	31.334	31.486	30.817	31.292	31.558	31.532	31.316	31.285	31.102	31.227	31.403	31.484	31.31966667	
cgroup child 1/usr	1163.186	1163.598	1165.558	1163.66	1163.11	1164.636	1163.929	1163.246	1163.192	1164.292	1163.658	1165.805	1163.989167	0.14%
cgroup child 1/sys	137.736	136.879	136.291	136.784	136.667	136.121	136.446	136.085	136.005	136.37	136.224	136.376	136.4986667	8.51%
												user+sys	1300.487834	**0.95%**
cgroup child 2/real	31.667	31.153	31.141	31.546	31.39	31.256	31.596	31.589	31.643	31.248	31.75	31.604	31.46525	
cgroup child 2/usr	1164.522	1165.309	1164.993	1167.727	1163.68	1162.338	1164.624	1163.982	1165.514	1161.914	1164.626	1163.778	1164.41725	0.17%
cgroup child 2/sys	137.326	136.174	136.353	136.557	136.987	136.851	136.439	138.026	136.143	136.549	137.72	137.004	136.8440833	8.78%
												user+sys	1301.261333	**1.01%**

kernel 4.12.5	test1	test2	test3	test4	test5	test6	test7	test8	AVG	Page fault cost	Throughput(M/s)	Per pagefault cost(us)
no cgroup												
perf stat test result												
stat page_fault counter	19,660,847	19,660,847	19,660,847	19,660,845	19,660,847	19,660,849	19,660,847	19,660,848	19,660,847			
stat time(s)	505.2668897	510.1743328	510.3561929	507.5483382	510.3970582	502.1916744	505.1425035	510.2650756	507.6677582			
stat page_fault Throughput(M/sec)	0.03891180562	0.03853750715	0.03852377471	0.03873689168	0.03852069028	0.0391500895	0.03892138726	0.03853065581			0.03872910025	
perf record test result												
record page_fault percent	5.36%	5.26%	5.38%	5.31%	5.44%	5.35%	5.34%	5.31%	5.34%			
page_fault_time(us)												1.386882701
root cgroup												
perf stat test result												
stat page_fault counter	19660847	19660846	19660847	19660847	19660846	19660847	19660848	19660848	19660847			
stat time(s)	508.7824217	507.6848591	509.4641413	507.1068638	509.4953308	510.9306432	504.7078419	510.6310332	508.6003919			
stat page_fault Throughput(M/sec)	0.03864293686	0.03872647696	0.03859122832	0.03877061898	0.03858886395	0.03848046161	0.03895490889	0.03850304177			0.03865731717	
perf record test result												
record page_fault percent	5.48%	5.60%	5.55%	5.56%	5.54%	5.65%	5.28%	5.59%	5.53%	0.19%		
page_fault_time(us)												1.430862016
cgroup child1												
perf stat test result												
stat page_fault counter	19,660,848	19,660,847	19,660,846	19,660,847	19,660,845	19,660,848	19,660,847	19,660,848	19,660,847			
stat time(s)	512.3785202	507.1237554	511.1209294	508.293886	511.6904738	508.5274892	507.5180288	506.9696588	509.2028427			
stat page_fault Throughput(M/sec)	0.03837172564	0.03876932759	0.03846613369	0.03868007769	0.03842331645	0.03866231112	0.03873920902	0.03878111374			0.03861165187	
perf record test result												
record page_fault percent	5.48%	5.75%	5.50%	5.51%	5.46%	5.47%	5.60%	5.65%	5.55%	0.21%		
page_fault_time(us)												1.438060519
cgroup child2												
perf stat test result												
stat page_fault counter	19,660,847	19,660,847	19,660,849	19,660,849	19,660,845	19,660,849	19,660,849	19,660,846	19,660,848			
stat time(s)	507.8281215	510.4235839	507.8131423	510.5890749	507.9791154	507.2999674	506.3744411	508.1201318	508.3034473			
stat page_fault Throughput(M/sec)	0.03871555388	0.03851868844	0.03871669983	0.03850620776	0.03870404197	0.0387558649	0.03882670097	0.03869330256			0.03867963254	
perf record test result												
record page_fault percent	5.46%	5.64%	5.44%	5.55%	5.58%	5.57%	5.47%	5.55%	5.53%	0.19%		
page_fault_time(us)												1.430349737
hugepage												
perf stat test result												
stat page_fault counter	38,746											
stat time(s)	482											
sate page_fault Throughput(M/sec)	0.00008039239928											
perf record test result												
record page_fault percent	0.02%											
page_fault_time(us)												