

workloadx is a write-only skewed distribution, with client side batching.									
IMC with 2% active and 2 pipeline segments has an advantage over none in write-only workloads									
when reading all fields read latency is inferior									
workloadx with one 250B field, Adaptive outperforms None by 15%									
when writing and reading a single 1KB field in workloada throughput is comparable in Adaptive and None									
		SYNC_WAL							
		NONE	BASIC (default) A=0.1 S=4	ADAPTIVE A=0.02 S=2				NONE	ADAPTIVE A=0.02 S=2
workloadx 100% write zipfian distributio 100M ops*5 field *50B=25GB write all values pre-split 10 regio client side buffer =10240B	overall run-time	3,132,330	2,969,094	2,826,983		workloadx 100% write zipfian distributio 100M ops*1 field *250B=25GB write all values pre-split 10 regio client side buffer =10240B	overall run-time	2,060,081	1,784,959
	overall throughput	31,925	33,680	35,373			overall throughput	48,541	56,023
	write average latency	373	354	337			write average latency	245	212
	write min latency	2	2	2			write min latency	1	1
	write max latency	177,151	369,919	243,711			write max latency	157,183	225,407
	write 95th percentile latenc	3,825	3,679	3,591			write 95th percentile latenc	2,883	2,571
	write 99th percentile latenc	5,695	5,599	4,927			write 99th percentile latenc	4,863	4,407
insert 25M rows* 10 fields*100B =25GB uniform distributi (sequential hash write all values no pre-split	overall run-time	2,185,319	2,321,732	1,991,345		insert 25M rows* 1 field*1KB =25GB uniform distributi (sequential hash write all values no pre-split	overall run-time	1,825,189	1,773,668
	overall throughput	11,439	10,767	12,554			overall throughput	13,697	14,095
	insert average latency	1,042	1,107	948			insert average latency	869	845
	insert min latency	415	418	430			insert min latency	385	351
	insert max latency	182,399	369,663	464,127			insert max latency	282,623	639,487
	insert 95th percentile latenc	1,329	1,432	1,208			insert 95th percentile latenc	1,089	1,064
	insert 99th percentile latenc	1,564	1,665	1,491			insert 99th percentile latenc	1,254	1,226
workloada 50% read 50% write zipfian distributio 25M operations read all values write single value	overall run-time	2,620,603	2,716,003	2,841,089		workloada 50% read 50% write zipfian distributio 25M operations read a single va write single value	overall run-time	2,119,382	2,100,069
	overall throughput	9,539	9,204	8,799			overall throughput	11,795	11,904
	read average latency	1,654	1,754	1,878			read average latency	1,097	1,106
	read min latency	276	290	294			read min latency	230	234
	read max latency	3,641,343	2,383,871	3,332,095			read max latency	3,272,703	2,484,223
	read 95th percentile latenc	2,963	2,947	3,357			read 95th percentile latenc	1,986	1,968
	read 99th percentile latenc	4,451	4,431	6,767			read 99th percentile latenc	2,893	2,981
	write average latency	846	838	833			write average latency	922	894
	write min latency	356	346	342			write min latency	367	375
	write max latency	3,629,055	2,383,871	3,330,047			write max latency	3,270,655	2,484,223
	write 95th percentile latenc	1,056	1,044	1,037			write 95th percentile latenc	1,126	1,086
	write 99th percentile latenc	1,362	1,414	1,420			write 99th percentile latenc	1,379	1,344
workload c read-only zipfian distributio 25M operations read all values	overall run-time	3,251,508	3,411,079	3,348,345		workload c read-only zipfian distributio 25M operations read all values	overall run-time	3,200,055	3,144,513
	overall throughput	7,688	7,329	7,466			overall throughput	7,812	7,950
	read average latency	1,553	1,629	1,601			read average latency	1,529	1,503
	read min latency	259	265	271			read min latency	219	231
	read max latency	501,759	278,015	312,575			read max latency	2,842,623	228,607
	read 95th percentile latenc	2,591	2,301	2,585			read 95th percentile latenc	2,869	2,831
	read 99th percentile latenc	3,757	3,251	4,055			read 99th percentile latenc	4,395	4,415
			(hit ratio 90%)					(hit ratio 89-92%  (hit ratio 90-92%)	