

Input data															
mw	server	worker	rep	write_rt	read_rt	write_tp	read_tp					A (server)	B (mw)	C (workers)	
1	1	8	1	18.256469576719574	65.60790753781951	9644.124603174605	2923.6138497652587					-1	1	1	8
1	1	8	2	20.34412505815675	65.59916601460617	9441.055735312775	2924.2959702660405					1	3	2	32
1	1	8	3	19.545357822611347	65.55389539187075	9825.13228016749	2926.135579241213								
1	1	32	1	15.679770474700055	65.38426382368284	10433.065923317685	2933.9553990610325								
1	1	32	2	17.524518268268267	65.46930555555555	10964.817942942944	2929.5								
1	1	32	3	17.221669204415686	65.42790818988003	10922.447087933004	2931.764866979656								
1	3	8	1	25.1659013943521	21.839408581116327	7634.749085352959	8788.297143974962								
1	3	8	2	25.058811945748573	21.834622122122127	7700.8855633802805	8789.781156156156								
1	3	8	3	25.51510628586332	21.8173428534168	7535.1161971831	8797.26447574335								
1	3	32	1	24.41279488996038	21.828452642783628	7861.486766696275	8793.291555640148								
1	3	32	2	24.40214041506295	21.81672313158229	7865.538055661294	8797.217167872097								
1	3	32	3	24.03177621283255	21.810476983833148	7867.055555555556	8799.301554979636								
2	1	8	1	13.195437290409119	65.48387976004175	14402.166599597584	2927.9465962441313								
2	1	8	2	13.578125763842314	65.46580725091289	14140.772775542142	2928.9158841940525								
2	1	8	3	13.314395605112155	65.44224243609807	14425.31976302258	2928.745305164319								
2	1	32	1	10.820730829420972	65.48541666666667	17745.81210038006	2928.814945226917								
2	1	32	2	10.816551605931888	65.49895735524255	17755.519405320814	2929.72848200313								
2	1	32	3	10.813631651017218	65.46292970787688	17756.86521909233	2929.9389671361505								
2	3	8	1	16.526826263134364	21.825713996944632	11624.988179074448	8792.839308070646								
2	3	8	2	16.390254629629627	22.33215571205008	11718.586267605637	8683.527190923318								
2	3	8	3	16.870388628064685	21.82700530963559	11394.86169796557	8792.201212832551								
2	3	32	1	12.290785285788806	21.848293632163355	15620.515492957747	8790.045919964228								
2	3	32	2	12.301755952380953	21.82560348200313	15607.525396825398	8792.732981220657								
2	3	32	3	12.43977257992399	21.820904594232058	15443.683450704224	8796.492700648334								
Write-only tp															
I	A	B	C	AB	AC	BC	ABC	rep1	rep2	rep3	mean	err1	err2	err3	
1	1	1	1	1	1	1	1	-1	4.193695362	4.19333405	4.188750891	4.191926768	0.001768594092	0.001407282448	-0.00317587654
1	1	1	-1	-1	1	-1	-1	-1	4.06539252	4.068875221	4.056709058	4.063658933	0.001733586667	0.005216288196	-0.00694987486
1	1	1	-1	-1	1	-1	-1	-1	3.895504688	3.895728437	3.895812217	3.89568178	-0.00017709276	0.000046656161	0.000130436605
1	1	1	-1	-1	-1	-1	1	1	3.882794769	3.88654067	3.877089954	3.882141797	0.000652971214	0.004398872338	-0.00505184355
1	1	-1	1	1	-1	-1	1	-1	4.249095879	4.249333381	4.249366298	4.249265186	-0.00016930737	0.000068195216	0.000101112155
1	1	-1	1	-1	-1	-1	-1	1	4.15842783	4.150473144	4.159125449	4.156008808	0.002419022725	-0.00553566390	0.003116641182
1	1	-1	-1	1	1	-1	-1	1	4.018411952	4.040001425	4.03831995	4.032244442	-0.01383249052	0.001681475642	0.006075507437
1	1	-1	-1	-1	1	1	-1	-1	3.984262813	3.975020561	3.992338406	3.983873927	0.000388886020	-0.00885336535	0.00846479334
32.45480164	-0.3879830837	0.8669177481	0.2834347113	0.08860649842	0.0001809239807	0.1596137147	0.06984198829	Total							
4.056850205	-0.04849788546	0.1083647185	0.03542933891	0.0110758123	0.00002261549759	0.01995171434	0.008730248536	Effect variables q (=Total/8)							
	SSJ	Percentage (SSJ/SST)	Effects	Confidence low	Confidence high					Deviation of error					
SSE	0.000566568334	0.1478139259								Deviation of error	0.005950673988				
SSA	0.05644907746	14.72719043	-0.04849788546	-0.05061871018	-0.04637706074					Deviation of effects	0.001214676241				
SSB	0.2818298932	73.52755249	0.1083647185	0.1062438938	0.1104855432					t-value [0.95;16]	1.746				
SSC	0.03012571334	7.859599077	0.03542933891	0.0330851419	0.03755016363										
SSAB	0.002944166836	0.7681136272	0.0110758123	0.008954987585	0.01319663702										
SSAC	0.000000012275	0.000003202481211	0.000022615497	-0.00209820922	0.002143440215										
SSBC	0.00955370172	2.492497501	0.01995171434	0.01783088962	0.02207253906										
SSABC	0.001829213748	0.4772297513	0.008730248536	0.006609423819	0.01085107325										
SST	0.3832983469	100													
Write-only rt															
I	A	B	C	AB	AC	BC	ABC	rep1	rep2	rep3	mean	err1	err2	err3	
1	1	1	1	1	1	1	1	1	1.089579632	1.089967107	1.094812441	1.09145306	-0.00187342806	-0.00148595283	0.003359380904
1	1	1	-1	-1	1	-1	-1	-1	1.218189462	1.214585701	1.227125087	1.21996675	-0.00177728815	-0.00538104921	0.00715833737
1	1	1	-1	1	-1	1	-1	-1	1.387617502	1.387427922	1.380785871	1.385277098	0.002340403889	0.002150823397	-0.00449122728
1	1	-1	1	-1	-1	-1	1	1	1.400812491	1.398960477	1.406797382	1.402190116	-0.00137762584	-0.00322963948	0.004607265322
1	1	-1	1	1	-1	-1	1	-1	1.034256594	1.034088827	1.033971572	1.034105664	0.000150929735	-0.00001683751	-0.00013409221
1	1	-1	-1	1	-1	1	-1	1	1.120423787	1.132839827	1.124321457	1.12586169	-0.00543790316	0.006978136623	0.00154023345
1	1	-1	-1	-1	1	1	-1	-1	1.195339701	1.243646088	1.236075243	1.225020344	-0.02968064312	0.007570845473	0.01105489882
1	1	-1	-1	-1	-1	1	1	1	1.261416798	1.308439017	1.291043626	1.28696648	-0.02554968231	0.02147253678	0.004077145532
9.770841203	0.4269328459	-0.828066875	-0.2991288669	-0.1240279354	0.008275454064	-0.1414105621	-0.08179078165	Total							
1.22135515	0.05336660573	-0.1035083594	-0.03739110874	-0.01550349192	0.001034431758	-0.01767632026	-0.01022384771	Effect variables q (=Total/8)							
	SSJ	Percentage (SSJ/SST)	Effects	Confidence low	Confidence high					Deviation of error					
SSE	0.002435816266	0.6456268288								Deviation of error	0.01233849734				
SSA	0.06835187058	18.11704851	0.05336660573	0.04896915593	0.05776405553					Deviation of effects	0.002518585223				

SSB	0.2571355311	68.15522164	-0.1035083594	-0.1079058092	-0.09911090958	t-value [0.95;16]	1.746												
SSC	0.03355428031	8.893751097	-0.03739110874	-0.04178855854	-0.03299365894														
SSAB	0.005768598284	1.528999485	-0.01550349192	-0.011990094172	-0.011110604212														
SSAC	0.000025681177	0.006806940824	0.001034431758	-0.003363018041	0.005431881557														
SSBC	0.007498855152	1.987613819	-0.01767632026	-0.02207377006	-0.01327887046														
SSABC	0.002508649486	0.6649316843	-0.01022384771	-0.01462129751	-0.005826397907														
SST	0.3772792823	100																	
Read-only tp																			
I	A	B	C	AB	AC	BC	ABC	rep1	rep2	rep3	mean	err1	err2	err3					
1	1	1	1	1	1	1	1	1	3.943991144	3.944123885	3.944309547	3.944141525	-0.000150381181	-0.000017640401	0.000168021594				
1	1	1	1	-1	1	-1	-1	-1	3.944129136	3.938696169	3.944097619	3.942307641	0.00182149522	-0.00361147260	0.001789977381				
1	1	1	-1	1	-1	1	-1	-1	3.944151473	3.944345313	3.944448201	3.944314996	-0.000163522731	0.000030317224	0.000133205510				
1	1	1	-1	-1	-1	-1	1	1	3.943904733	3.943978062	3.944347649	3.944076814	-0.000172081911	-0.000098752131	0.000270834053				
1	1	-1	1	1	-1	-1	1	-1	3.466691932	3.466827373	3.466858574	3.466792626	-0.000100694301	0.000034746860	0.000065947447				
1	1	-1	1	-1	-1	-1	-1	-1	3.466563151	3.466706899	3.466681605	3.466650552	-0.000087400761	0.000056347329	0.000031053435				
1	1	-1	-1	1	1	-1	-1	-1	3.467453508	3.466793502	3.467129136	3.467125382	0.000328125552	-0.000335633791	0.000003754120				
1	1	-1	-1	-1	1	1	1	-1	3.465920011	3.466021326	3.466294445	3.466078594	-0.000158583161	-0.000057267921	0.000215851087				
29.64148813		1.908193823	-0.001703441579	0.003260927917	-0.002181846713	0.0008832026682	0.0006909885739	0.002500416511	Total										
3.705186016		0.2385242278	-0.0002129301974	0.000407615989	-0.0002727308391	0.0001104003335	0.00008637357174	0.0003125520638	Effect variables q (=Total/8)										
SSJ		Percentage (SSJ/SST)	Effects	Confidence low	Confidence high			Deviation of error	0.001120733503										
SSA		1.365451374	99.99781954	0.2385242278	0.2381247975			Deviation of effects	0.000228768768										
SSB		0.000001088142	0.00007968930634	-0.000212930191	-0.0006123604669			t-value [0.95;16]	1.746										
SSC		0.000003987619	0.0002920303283	0.000407615989	0.000008185720086														
SSAB		0.000001785170	0.00013073565	-0.000272730831	-0.0006721611086														
SSAC		0.000000292517	0.00002142231022	0.000110400333	-0.000289029936														
SSBC		0.000000179049	0.00001311255404	0.000086373571	-0.0003130566977														
SSABC		0.000002344531	0.0001716999921	0.000312552063	-0.00008687820563														
SST		1.365481148	100																
Read-only rt																			
I	A	B	C	AB	AC	BC	ABC	rep1	rep2	rep3	mean	err1	err2	err3					
1	1	1	1	1	1	1	1	1	1.339417524	1.338966261	1.33887275	1.339085512	0.000332012160	-0.000119250884	-0.000212761276				
1	1	1	1	-1	1	-1	-1	-1	1.33896846	1.348930647	1.338994154	1.342297754	-0.003329293851	0.006632893545	-0.003303599691				
1	1	1	-1	1	-1	1	-1	-1	1.339022951	1.33878952	1.338665163	1.338825878	0.000197072707	-0.000036357991	-0.000160714701				
1	1	1	-1	-1	-1	-1	1	1	1.339240873	1.33914568	1.338801857	1.339062803	0.000178069974	0.000082876894	-0.000260946861				
1	1	-1	1	1	-1	-1	1	-1	1.816144595	1.816234387	1.815995438	1.816124807	0.000019788634	0.000109580204	-0.000129368831				
1	1	-1	1	-1	-1	-1	1	-1	1.816134402	1.816014527	1.815858172	1.816002367	0.000132034966	0.000012160055	-0.000144195021				
1	1	-1	-1	1	1	-1	-1	-1	1.815473238	1.816037734	1.815763036	1.815758003	-0.000284764441	0.000274698713	0.000005032867				
1	1	-1	-1	-1	1	1	1	-1	1.816956187	1.816898318	1.816598504	1.81681767	0.000138517277	0.000080648517	-0.000219165791				
12.62397479		-1.905430899	0.003046085648	-0.004386394931	0.003943082309	-0.002511939495	-0.001793210918	-0.004157422779	Total										
1.577996849		-0.2381788624	0.000380760706	-0.000548299361	0.0004928852887	-0.0003139924368	-0.0002241513648	-0.0005196778474	Effect variables q (=Total/8)										
SSJ		Percentage (SSJ/SST)	Effects	Confidence low	Confidence high			Deviation of error	0.002040732626										
SSA		1.361500092	99.99315418	-0.2381788624	-0.238906181			Deviation of effects	0.000416562802										
SSB		0.000003479489	0.0002555454081	0.000380760706	-0.0003465579478			t-value [0.95;16]	1.746										
SSC		0.000007215172	0.0005299065944	-0.000548299361	-0.001275618021														
SSAB		0.000005830461	0.0004282087588	0.000492885288	-0.0002344333651														
SSAC		0.000002366190	0.0001737809669	-0.000313992431	-0.001041311091														
SSBC		0.000001205852	0.00008856183566	-0.000224151361	-0.0009514700186														
SSABC		0.000006481561	0.00047602772	-0.000519677841	-0.001246996501														
SST		1.361593304	100																