

impl=	ERMS	NT	T	ERMS	NT	T	ERMS	NT	T	ERMS	NT	T	ERMS	NT	T	ERMS	NT	T	ERMS	NT	T	ERMS	NT	T	ERMS	NT	T	ERMS	NT	T	ERMS	NT	T
nthreads=	1			2			4			8			16			24			32			40			48			56					
Operation=2/																																	
Align=0																																	
Size=4096	0.489	2.122	0.389	0.477	2.144	0.379	0.388	2.305	0.307	0.222	2.598	0.179	0.14	2.744	0.117	0.146	2.726	0.126	0.167	2.696	0.135	0.149	2.722	0.129	0.136	2.756	0.108	0.128	2.78	0.092			
Size=8192	0.447	2.157	0.396	0.445	2.159	0.397	0.329	2.36	0.312	0.213	2.598	0.19	0.14	2.736	0.124	0.146	2.721	0.133	0.154	2.705	0.141	0.146	2.725	0.129	0.132	2.749	0.119	0.118	2.778	0.104			
Size=16384	0.428	2.174	0.399	0.414	2.197	0.389	0.332	2.356	0.312	0.192	2.627	0.181	0.151	2.724	0.125	0.209	2.559	0.232	0.276	2.447	0.277	0.216	2.542	0.242	0.246	2.536	0.218	0.222	2.544	0.234			
Size=32768	0.847	1.382	0.772	0.798	1.405	0.797	0.699	1.654	0.647	0.556	1.927	0.516	0.317	2.37	0.313	0.336	2.343	0.321	0.366	2.28	0.353	0.334	2.355	0.31	0.321	2.378	0.301	0.26	2.487	0.253			
Size=65536	0.901	1.342	0.758	0.839	1.396	0.765	0.717	1.618	0.665	0.509	2.032	0.46	0.323	2.365	0.313	0.355	2.295	0.35	0.382	2.241	0.376	0.323	2.343	0.334	0.32	2.37	0.31	0.258	2.485	0.257			
Size=131072	0.892	1.336	0.771	0.879	1.313	0.808	0.731	1.6	0.669	0.512	2.034	0.454	0.367	2.315	0.316	0.324	2.291	0.385	0.377	2.203	0.419	0.34	2.281	0.379	0.319	2.325	0.356	0.28	2.393	0.326			
Size=262144	0.862	1.233	0.905	0.845	1.201	0.953	0.722	1.477	0.801	0.522	1.902	0.576	0.363	2.236	0.402	0.37	2.137	0.494	0.369	2.067	0.564	0.334	2.187	0.479	0.326	2.224	0.451	0.28	2.27	0.45			
Size=524288	0.838	1.065	1.097	0.768	1.125	1.107	0.694	1.386	0.921	0.5	1.822	0.678	0.367	2.163	0.47	0.362	2.108	0.531	0.394	2.057	0.549	0.369	2.119	0.513	0.353	2.163	0.484	0.303	2.223	0.474			
Size=1048576	0.742	0.967	1.291	0.875	0.979	1.146	0.827	1.255	0.918	0.568	1.702	0.731	0.428	2.059	0.513	0.508	1.799	0.692	0.497	1.632	0.872	0.473	1.902	0.625	0.447	1.946	0.607	0.443	1.897	0.66			
Size=2097152	0.789	1.122	1.089	0.801	1.043	1.156	0.924	1.193	0.882	0.595	1.724	0.681	0.566	1.728	0.706	0.639	1.725	0.636	0.847	1.199	0.953	0.713	1.461	0.826	0.596	1.342	1.062	0.758	0.834	1.408			
Size=4194304	1.044	0.856	1.1	0.92	0.953	1.127	0.851	1.101	1.048	0.824	1.381	0.795	0.791	0.918	1.292	0.8	1.026	1.174	0.8	0.958	1.242	0.791	0.894	1.316	0.829	0.74	1.431	0.882	0.721	1.397			
Size=838608	0.976	0.902	1.122	0.937	0.929	1.135	0.97	0.966	1.064	1.058	0.94	1.002	0.867	0.933	1.199	0.829	0.981	1.19	0.931	0.898	1.171	0.804	0.792	1.403	0.805	0.862	1.332	0.81	0.82	1.37			
Size=1677216	1.025	0.89	1.085	1.062	0.815	1.123	1.148	0.71	1.142	0.857	0.854	1.29	0.838	0.874	1.288	0.669	0.869	1.462	0.861	0.748	1.391	0.862	0.786	1.352	0.837	0.765	1.398	0.872	0.722	1.407			
Size=33554432	1.122	0.674	1.204	1.503	0.461	1.036	1.187	0.65	1.163	1.032	0.785	1.183	0.911	0.796	1.293	0.838	0.811	1.351	0.874	0.842	1.284	0.79	0.837	1.373	0.837	0.763	1.4	0.865	0.718	1.417			
Size=67108864	1.496	0.455	1.049	1.476	0.452	1.072	1.299	0.592	1.109	1.077	0.783	1.139	0.859	0.774	1.367	0.828	0.837	1.335	0.913	0.916	1.171	0.855	0.828	1.317	0.857	0.746	1.397	0.862	0.717	1.421			
Size=134217728	1.492	0.445	1.063	1.371	0.488	1.141	1.296	0.592	1.112	1.012	0.73	1.259	0.978	0.834	1.188	0.848	0.794	1.358	0.898	0.796	1.307	0.879	0.785	1.336	0.835	0.773	1.392	0.856	0.721	1.422			
Size=268435456	1.492	0.451	1.058	1.481	0.459	1.06	1.32	0.524	1.156	1.068	0.717	1.215	0.88	0.815	1.305	0.864	0.832	1.304	0.838	0.842	1.321	0.859	0.765	1.376	0.836	0.744	1.419	0.855	0.72	1.426			
Align=1																																	
Size=4096	0.554	1.98	0.466	0.553	1.983	0.464	0.409	2.218	0.373	0.267	2.508	0.224	0.165	2.693	0.142	0.143	2.716	0.139	0.177	2.666	0.156	0.169	2.695	0.136	0.151	2.717	0.131	0.111	2.793	0.096			
Size=8192	0.523	2.003	0.474	0.509	2.026	0.465	0.407	2.223	0.371	0.246	2.528	0.226	0.168	2.676	0.155	0.171	2.708	0.121	0.168	2.673	0.159	0.16	2.704	0.136	0.138	2.733	0.129	0.124	2.764	0.113			
Size=16384	0.531	1.999	0.47	0.503	2.022	0.475	0.391	2.24	0.369	0.245	2.523	0.232	0.164	2.665	0.166	0.298	2.386	0.316	0.182	2.522	0.296	0.248	2.52	0.232	0.218	2.521	0.261	0.227	2.539	0.234			
Size=32768	0.895	1.347	0.758	0.875	1.359	0.766	0.76	1.612	0.628	0.498	2.072	0.43	0.33	2.369	0.301	0.369	2.283	0.347	0.382	2.284	0.353	0.326	2.354	0.32	0.312	2.385	0.303	0.269	2.465	0.266			
Size=65536	0.894	1.339	0.767	0.905	1.332	0.762	0.754	1.588	0.658	0.522	2.04	0.438	0.35	2.357	0.293	0.355	2.293	0.352	0.287	2.343	0.37	0.36	2.296	0.345	0.32	2.359	0.322	0.276	2.443	0.281			
Size=131072	1.02	1.245	0.734	0.914	1.291	0.795	0.774	1.566	0.659	0.554	1.979	0.467	0.373	2.296	0.331	0.399	2.188	0.414	0.377	2.212	0.411	0.339	2.279	0.383	0.326	2.322	0.351	0.28	2.39	0.331			
Size=262144	0.891	1.158	0.951	0.857	1.251	0.891	0.758	1.452	0.789	0.524	1.917	0.559	0.346	2.257	0.397	0.344	2.179	0.477	0.364	2.101	0.534	0.355	2.164	0.481	0.326	2.218	0.456	0.282	2.266	0.452			
Size=524288	0.83	1.077	1.093	0.786	1.115	1.099	0.692	1.377	0.93	0.503	1.817	0.68	0.369	2.12	0.511	0.375	2.13	0.495	0.356	2.073	0.571	0.358	2.131	0.512	0.342	2.179	0.479	0.317	2.232	0.451			
Size=1048576	1.201	0.877	0.922	0.88	1.024	1.096	0.845	1.268	0.886	0.573	1.712	0.715	0.474	1.97	0.556	0.421	2.014	0.565	0.513	1.713	0.774	0.507	1.792	0.701	0.472	1.917	0.611	0.574	1.781	0.645			
Size=2097152	0.999	1.013	0.988	0.963	0.877	1.159	1.01	1.15	0.84	0.468	1.666	0.866	0.385	2.077	0.558	0.779	1.556	0.665	0.633	1.438	0.929	0.748	1.377	0.875	0.629	1.507	0.864	0.883	0.734	1.383			
Size=4194304	1.001	0.898	1.101	0.954	0.881	1.164	0.984	1.042	0.974	0.647	1.411	0.941	0.978	1.004	1.018	0.937	0.951	1.112	0.945	0.961	1.094	0.983	0.821	1.195	1.001	0.676	1.323	1.006	0.653	1.341			
Size=838608	0.999	0.917	1.084	0.972	0.943	1.085	0.987	0.975	1.038	0.989	0.807	1.205	1.027	0.904	1.069	0.982	0.875	1.143	0.978	0.856	1.165	0.929	0.722	1.349	1.005	0.726	1.269	1.052	0.655	1.293			
Size=1677216	1.06	0.877	1.063	0.996	0.761	1.244	1.143	0.719	1.139	0.93	0.883	1.187	1.025	0.795	1.18	0.813	0.877	1.311	1.05	0.652	1.298	1.031	0.717	1.252	1.03	0.694	1.276	1.097	0.65	1.253			
Size=33554432	1.126	0.69	1.184	1.453	0.464	1.083	1.199	0.639	1.162	1.114	0.673	1.212	1.049	0.729	1.222	1.069	0.751	1.18	1	0.754	1.247	0.971	0.784	1.245	1.041	0.682	1.277	1.086	0.643	1.271			
Size=67108864	1.504	0.448	1.048	1.444	0.475	1.081	1.302	0.589	1.109	1.045	0.714	1.241	1.034	0.714	1.251	0.944	0.791	1.265	0.952	0.707	1.341	1.009	0.772	1.219	1.037	0.666	1.297	1.08	0.649	1.271			
Size=134217728	1.477	0.457	1.066	1.376	0.482	1.142	1.281	0.583	1.136	1.054	0.742	1.204	1.062	0.64	1.298	1.062	0.616	1.322	1.015	0.682	1.304	0.995	0.743	1.262	1.022	0.69	1.288	1.084	0.646	1.27			
Size=268435456	1.481	0.455	1.064	1.472	0.458	1.07	1.349	0.507	1.144	1.139	0.735	1.126	0.963	0.833	1.204	0.887	0.778	1.335	1.008	0.78	1.212	0.999	0.74	1.262	1.023	0.679	1.299	1.082	0.645	1.274			
Align=32																																	
Size=4096	0.49	2.122	0.388	0.477	2.144	0.379	0.386	2.307	0.306	0.228	2.591	0.181	0.14	2.75	0.11	0.146	2.726	0.128	0.163	2.705	0.132	0.15	2.72	0.13	0.147	2.74	0.113	0.128	2.768	0.104			

[illegible]

Size=16384	0.843	1.476	0.68	0.841	1.478	0.681	0.694	1.745	0.562	0.46	2.152	0.388	0.32	2.408	0.272	0.335	2.357	0.306	0.346	2.343	0.311	0.319	2.398	0.283	0.319	2.408	0.272	0.265	2.492	0.242
Size=32768	0.848	1.358	0.794	0.841	1.362	0.797	0.721	1.612	0.666	0.487	2.078	0.436	0.339	2.368	0.293	0.358	2.322	0.32	0.29	2.348	0.362	0.341	2.33	0.329	0.321	2.377	0.302	0.263	2.49	0.247
Size=65536	0.916	1.317	0.767	0.887	1.334	0.779	0.777	1.559	0.664	0.53	2.012	0.458	0.359	2.333	0.308	0.339	2.314	0.346	0.38	2.251	0.369	0.336	2.339	0.325	0.331	2.356	0.313	0.284	2.438	0.278
Size=131072	0.948	1.287	0.765	0.908	1.302	0.791	0.773	1.56	0.667	0.536	2.01	0.454	0.378	2.281	0.341	0.363	2.272	0.364	0.347	2.24	0.413	0.34	2.305	0.355	0.331	2.307	0.362	0.284	2.386	0.33
Size=262144	0.876	1.186	0.939	0.883	1.211	0.906	0.762	1.451	0.787	0.521	1.895	0.584	0.372	2.21	0.419	0.351	2.175	0.474	0.339	2.107	0.554	0.349	2.156	0.495	0.337	2.183	0.481	0.288	2.264	0.449
Size=524288	0.847	1.047	1.106	0.78	1.103	1.117	0.704	1.358	0.938	0.5	1.821	0.68	0.348	2.14	0.512	0.36	2.138	0.502	0.411	2.031	0.558	0.341	2.119	0.54	0.361	2.144	0.495	0.308	2.244	0.447
Size=1048576	0.862	1.052	1.085	0.935	1.016	1.05	0.761	1.231	1.008	0.583	1.644	0.773	0.451	2.023	0.525	0.515	1.945	0.54	0.516	1.826	0.659	0.521	1.817	0.661	0.467	1.915	0.617	0.449	1.895	0.656
Size=2097152	1.019	0.875	1.106	0.868	0.936	1.196	0.912	1.193	0.895	0.575	1.723	0.702	0.381	1.956	0.662	0.584	1.545	0.871	0.785	1.291	0.924	0.79	1.28	0.929	0.658	1.479	0.863	0.681	0.825	1.494
Size=4194304	1.087	0.856	1.058	1.077	0.9	1.023	0.949	1.048	1.003	0.834	1.392	0.774	0.837	0.956	1.208	0.893	0.999	1.108	0.824	1.044	1.132	0.835	0.891	1.274	0.746	0.828	1.426	0.786	0.738	1.476
Size=838608	1.138	0.858	1.004	1.097	0.858	1.045	1.05	0.916	1.035	0.975	0.869	1.156	0.846	0.868	1.286	0.927	0.988	1.085	0.901	0.916	1.183	0.784	0.795	1.421	0.907	0.705	1.389	0.831	0.756	1.413
Size=16777216	1.103	0.834	1.063	1.075	0.721	1.204	1.199	0.695	1.106	1.049	0.849	1.102	0.866	0.837	1.297	0.791	0.763	1.447	0.858	0.747	1.395	0.805	0.789	1.405	0.813	0.735	1.452	0.794	0.768	1.438
Size=33554432	1.187	0.659	1.153	1.486	0.47	1.045	1.238	0.645	1.118	1.068	0.798	1.134	0.865	0.838	1.297	0.859	0.849	1.292	0.859	0.836	1.306	0.806	0.802	1.392	0.801	0.735	1.464	0.806	0.736	1.458
Size=67108864	1.527	0.452	1.021	1.489	0.46	1.051	1.306	0.575	1.119	1.041	0.739	1.22	0.889	0.829	1.282	0.911	0.877	1.212	0.892	0.701	1.407	0.789	0.836	1.375	0.794	0.765	1.441	0.814	0.716	1.47
Size=134217728	1.513	0.46	1.027	1.516	0.457	1.027	1.307	0.579	1.114	1.044	0.705	1.251	0.896	0.815	1.29	0.883	0.787	1.33	0.82	0.856	1.324	0.808	0.824	1.368	0.79	0.77	1.44	0.812	0.716	1.472
Size=268435456	1.513	0.456	1.031	1.497	0.462	1.041	1.343	0.533	1.124	1.166	0.73	1.104	0.847	0.919	1.233	0.833	0.759	1.408	0.796	0.826	1.378	0.755	0.813	1.432	0.794	0.731	1.476	0.811	0.721	1.468
Align=4032																														
Size=4096	0.513	2.1	0.387	0.509	2.094	0.397	0.405	2.29	0.305	0.24	2.576	0.181	0.176	2.707	0.117	0.158	2.707	0.134	0.18	2.674	0.146	0.163	2.713	0.124	0.148	2.732	0.12	0.132	2.761	0.107
Size=8192	0.463	2.09	0.448	0.475	2.082	0.443	0.367	2.288	0.345	0.226	2.556	0.218	0.139	2.724	0.137	0.168	2.682	0.15	0.17	2.67	0.16	0.15	2.704	0.146	0.15	2.721	0.129	0.106	2.797	0.097
Size=16384	0.424	1.901	0.675	0.456	2.111	0.433	0.353	2.323	0.325	0.206	2.596	0.196	0.157	2.702	0.141	0.242	2.536	0.221	0.284	2.524	0.192	0.224	2.542	0.234	0.223	2.54	0.237	0.216	2.559	0.225
Size=32768	0.845	1.385	0.771	0.85	1.387	0.763	0.7	1.666	0.633	0.458	2.109	0.433	0.321	2.391	0.288	0.35	2.313	0.337	0.37	2.353	0.277	0.321	2.358	0.321	0.306	2.4	0.294	0.271	2.464	0.265
Size=65536	0.876	1.356	0.768	0.86	1.342	0.798	0.738	1.623	0.639	0.492	2.066	0.442	0.341	2.365	0.296	0.36	2.304	0.336	0.385	2.238	0.378	0.317	2.347	0.336	0.33	2.341	0.329	0.277	2.446	0.277
Size=131072	0.895	1.334	0.771	0.898	1.32	0.781	0.762	1.593	0.645	0.515	2.023	0.462	0.381	2.29	0.33	0.352	2.297	0.351	0.372	2.206	0.422	0.341	2.271	0.388	0.323	2.327	0.349	0.283	2.385	0.332
Size=262144	0.892	1.178	0.93	0.845	1.229	0.926	0.737	1.485	0.778	0.516	1.928	0.556	0.363	2.23	0.407	0.357	2.183	0.461	0.372	2.052	0.576	0.331	2.173	0.497	0.326	2.208	0.466	0.282	2.268	0.449
Size=524288	0.833	1.08	1.088	0.789	1.101	1.11	0.699	1.367	0.934	0.523	1.779	0.698	0.345	2.144	0.511	0.369	2.103	0.528	0.383	2.053	0.564	0.354	2.125	0.522	0.346	2.164	0.49	0.305	2.241	0.459
Size=1048576	0.822	1.073	1.105	0.87	1.031	1.099	0.701	1.312	0.987	0.517	1.783	0.7	0.368	2.061	0.571	0.438	1.895	0.667	0.587	1.809	0.604	0.483	1.861	0.656	0.449	1.933	0.648	0.465	1.939	0.595
Size=2097152	1.1	0.922	0.977	0.926	0.871	1.203	0.919	1.137	0.944	0.629	1.554	0.817	0.59	1.923	0.487	0.544	1.66	0.796	0.781	1.302	0.917	0.809	1.361	0.83	0.645	1.548	0.806	0.803	0.738	1.46
Size=4194304	1.048	0.906	1.047	0.98	0.927	1.092	0.965	1.069	0.966	0.762	1.365	0.873	0.886	0.929	1.184	0.829	0.968	1.203	0.842	0.932	1.226	0.722	0.863	1.414	0.764	0.767	1.469	0.796	0.721	1.483
Size=838608	1.024	0.859	1.117	1.05	0.88	1.07	1.06	0.943	1.05	1.096	0.896	1.008	0.877	0.88	1.243	0.901	0.889	1.21	0.851	0.934	1.215	0.801	0.818	1.381	0.899	0.728	1.373	0.888	0.723	1.389
Size=16777216	1.096	0.89	1.014	1.067	0.749	1.184	1.19	0.704	1.106	0.934	0.843	1.224	0.818	0.801	1.382	0.809	0.769	1.422	0.879	0.719	1.403	0.813	0.798	1.388	0.803	0.769	1.428	0.811	0.728	1.461
Size=33554432	1.194	0.667	1.139	1.386	0.503	1.111	1.249	0.643	1.108	1.037	0.775	1.188	0.886	0.786	1.328	0.846	0.774	1.38	0.898	0.898	1.204	0.811	0.79	1.399	0.815	0.762	1.423	0.815	0.729	1.456
Size=67108864	1.521	0.469	1.01	1.506	0.475	1.02	1.31	0.578	1.113	1.049	0.75	1.201	0.897	0.862	1.24	0.897	0.818	1.285	0.875	0.675	1.45	0.853	0.811	1.336	0.802	0.767	1.431	0.818	0.721	1.461
Size=134217728	1.518	0.449	1.034	1.502	0.455	1.043	1.327	0.585	1.088	1.041	0.743	1.216	0.901	0.704	1.395	0.866	0.817	1.317	0.832	0.832	1.336	0.8	0.828	1.373	0.792	0.776	1.432	0.821	0.719	1.46
Size=268435456	1.506	0.463	1.031	1.501	0.469	1.03	1.324	0.558	1.118	1.095	0.668	1.237	0.802	0.881	1.317	0.819	0.812	1.369	0.795	0.853	1.353	0.817	0.788	1.395	0.802	0.755	1.443	0.818	0.725	1.457
Align=4033																														
Size=4096	0.942	1.6	0.459	0.921	1.616	0.462	0.745	1.873	0.382	0.502	2.26	0.239	0.329	2.508	0.163	0.323	2.523	0.154	0.364	2.486	0.15	0.326	2.5	0.174	0.307	2.531	0.163	0.276	2.584	0.14
Size=8192	0.917	1.621	0.463	0.913	1.612	0.475	0.767	1.859	0.374	0.488	2.266	0.246	0.319	2.514	0.167	0.339	2.496	0.163	0.36	2.449	0.192	0.331	2.506	0.163	0.3	2.539	0.161	0.268	2.592	0.139
Size=16384	0.912	1.623	0.465	0.909	1.626	0.465	0.728	1.869	0.403	0.491	2.258	0.25	0.335	2.491	0.174	0.346	2.404	0.25	0.364	2.34	0.296	0.333	2.441	0.226	0.314	2.422	0.264	0.275	2.501	0.223
Size=32768	0.859	1.341	0.8	0.859	1.347	0.794	0.743	1.612	0.645	0.523	2.022	0.455	0.347	2.343	0.31	0.352	2.318	0.33	0.377	2.275	0.348	0.348	2.335	0.317	0.33	2.369	0.302	0.288	2.45	0.261
Size=65536	0.922	1.326	0.752	0.896	1.335	0.769	0.763	1.568	0.668	0.525	2.032	0.443	0.353	2.341	0.306	0.362	2.286	0.352	0.375	2.264	0.361	0.346	2.322	0.332	0.338	2.356	0.306	0.291	2.433	0.276
Size=131072	0.964	1.275	0.76	0.929	1.303	0.768	0.784	1.554	0.662	0.55	1.997	0.453	0.38	2.285	0.335	0.367	2.264	0.369	0.308	2.262	0.43	0.342	2.279	0.379	0.336	2.308	0.356	0.291	2.385	0.324
Size=262144	0.873	1.19	0.937	0.9	1.246	0.853	0.761	1.459	0.78	0.528	1.91	0.562	0.383	2.203	0.41															