16020492

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powered by IPM

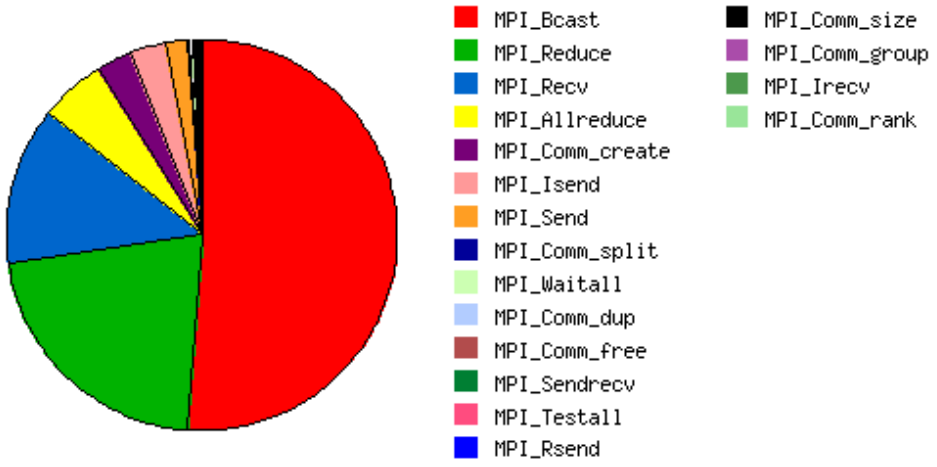
command: /jet/home/hpeng1/evan/qe-7.1/bin/cp.x -nb 4 -inp cp.in			
codename:	unknown	state:	unknown
username:	hpeng1	group:	
host:	r110.ib.bridges (x86_64_Linux)	mpi_tasks:	512 on 4 hosts
start:	05/01/23/23:13:46	wallclock:	1.22323e+03 sec
stop:	05/01/23/23:34:09	%comm:	0.57626833931732
total memory:	524.298240000002 gbytes	total gflop/sec:	0
switch(send):	0 gbytes	switch(recv):	0 gbytes

Computation

Event	Count	Pop

Communication

% of MPI Time



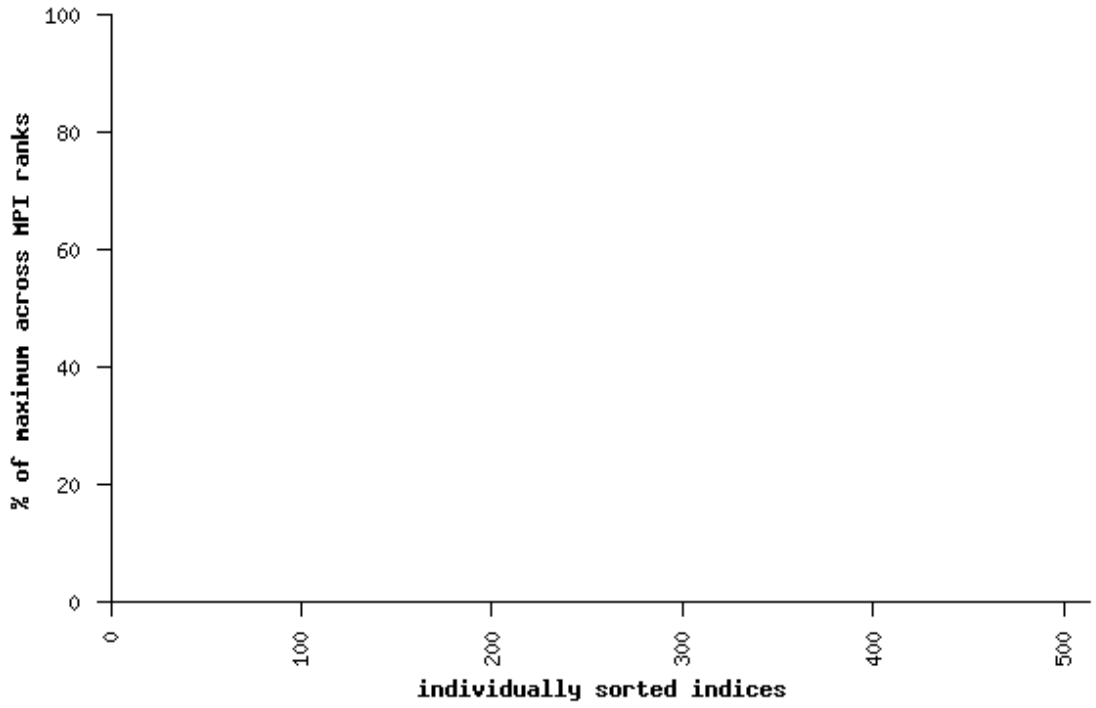
HPM Counter Statistics

Event	Ntasks	Avg	Min(rank)	Max(rank)

Communication Event Statistics (100.00% detail, 1.1317e-04 error)

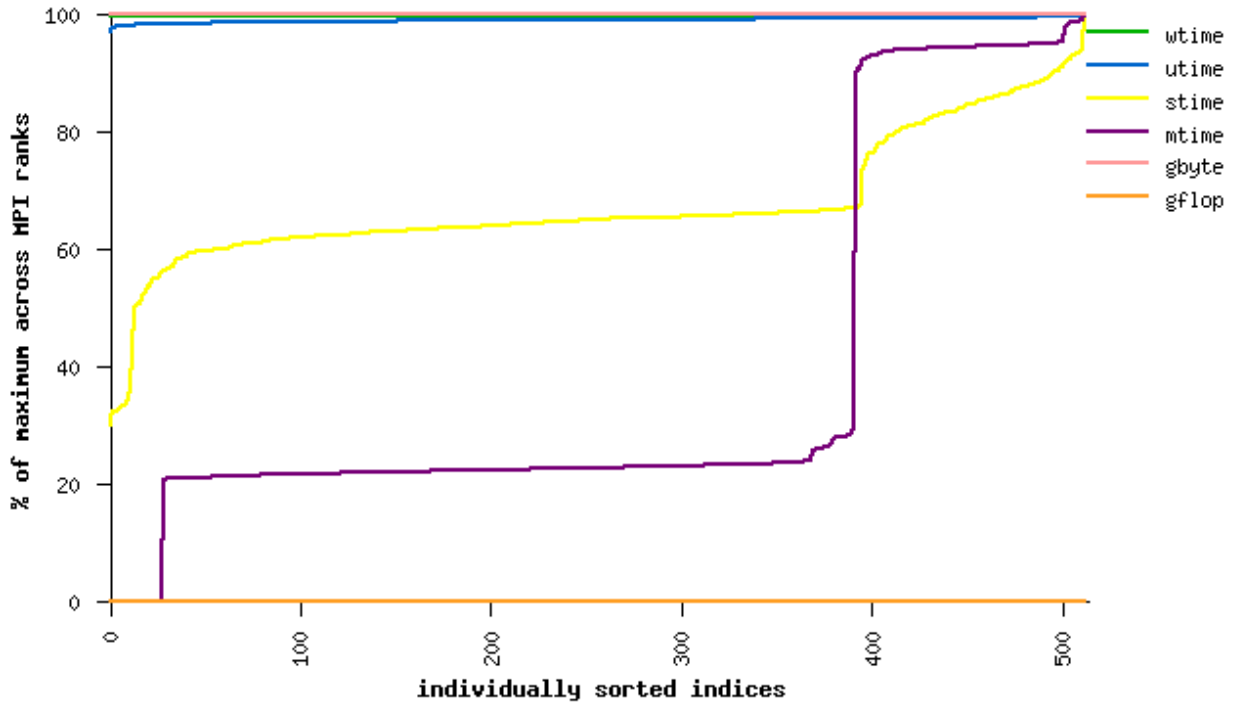
	Buffer Size	Ncalls	Total Time	Min Time	Max Time	%MPI	%Wall
MPI_Bcast	4096	1912372	421.272	0.000e+00	1.108e-01	11.67	0.07
MPI_Bcast	3584	1905376	354.619	0.000e+00	1.150e-01	9.83	0.06
MPI_Reduce	65536	521752	329.007	1.462e-04	1.171e-01	9.12	0.05
MPI_Bcast	3072	2008908	300.459	0.000e+00	1.120e-01	8.32	0.05
MPI_Reduce	2048	1900668	115.050	4.387e-05	1.091e-01	3.19	0.02
MPI_Bcast	2560	1954876	113.919	0.000e+00	7.832e-02	3.16	0.02
MPI_Allreduce	24	1532828	110.840	9.537e-07	1.120e-01	3.07	0.02
MPI_Bcast	65536	767624	109.897	3.910e-05	9.195e-02	3.04	0.02
MPI_Comm_create	0	59048	106.291	4.005e-05	2.811e-01	2.95	0.02
MPI_Reduce	1792	1874048	101.851	3.982e-05	1.150e-01	2.82	0.02
MPI_Reduce	1536	1874048	98.632	3.696e-05	1.121e-01	2.73	0.02
MPI_Bcast	8192	1846416	94.150	5.007e-06	1.288e-01	2.61	0.02
MPI_Recv	8192	826444	67.929	0.000e+00	1.246e-01	1.88	0.01

Load balance by task: HPM counters



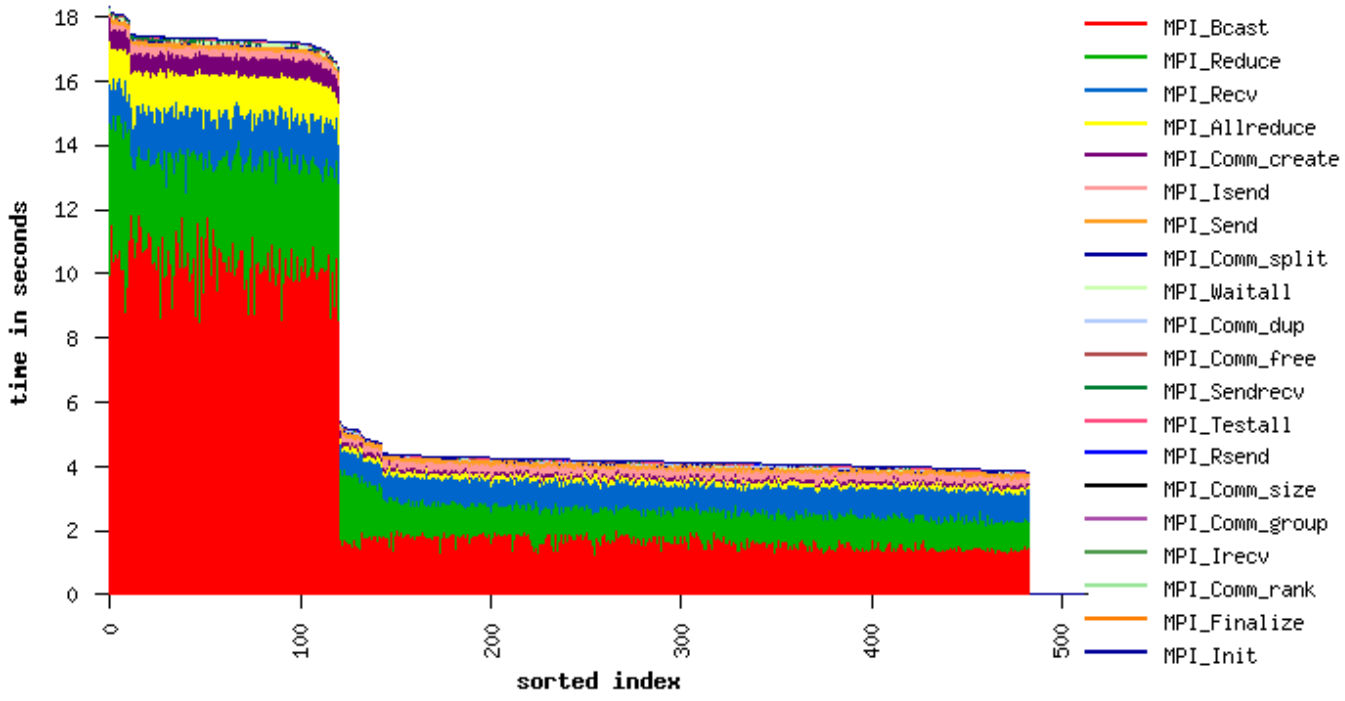
by MPI rank, by MPI time

Load balance by task: memory, flops, timings



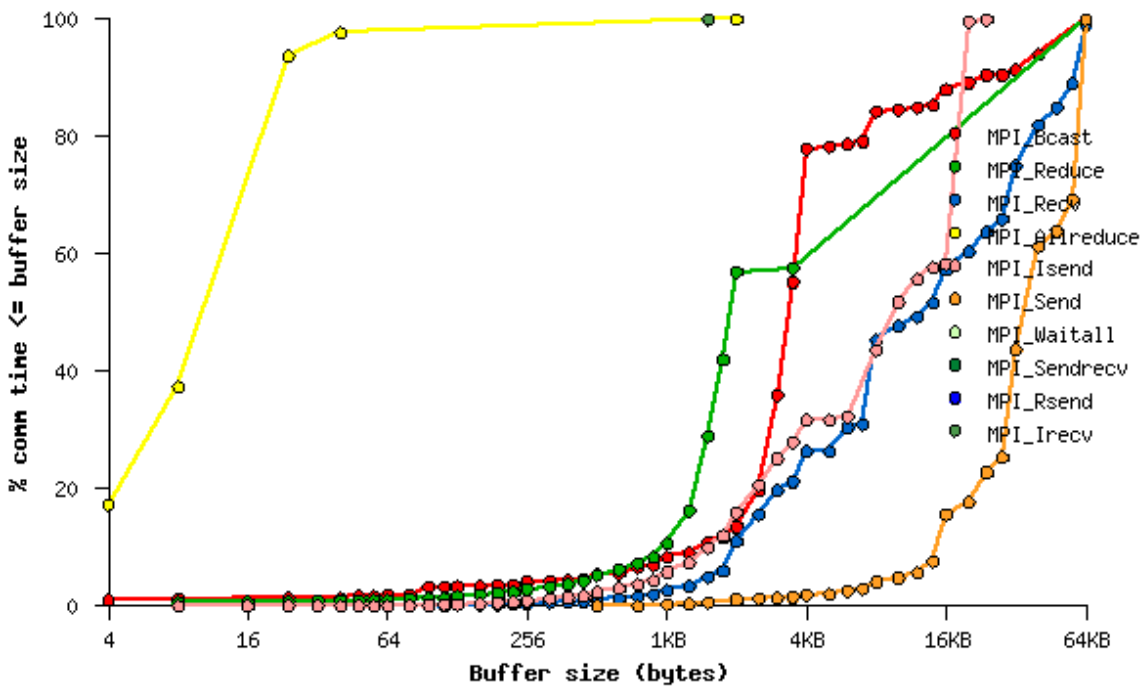
by MPI rank, by MPI time

Communication balance by task (sorted by MPI time)



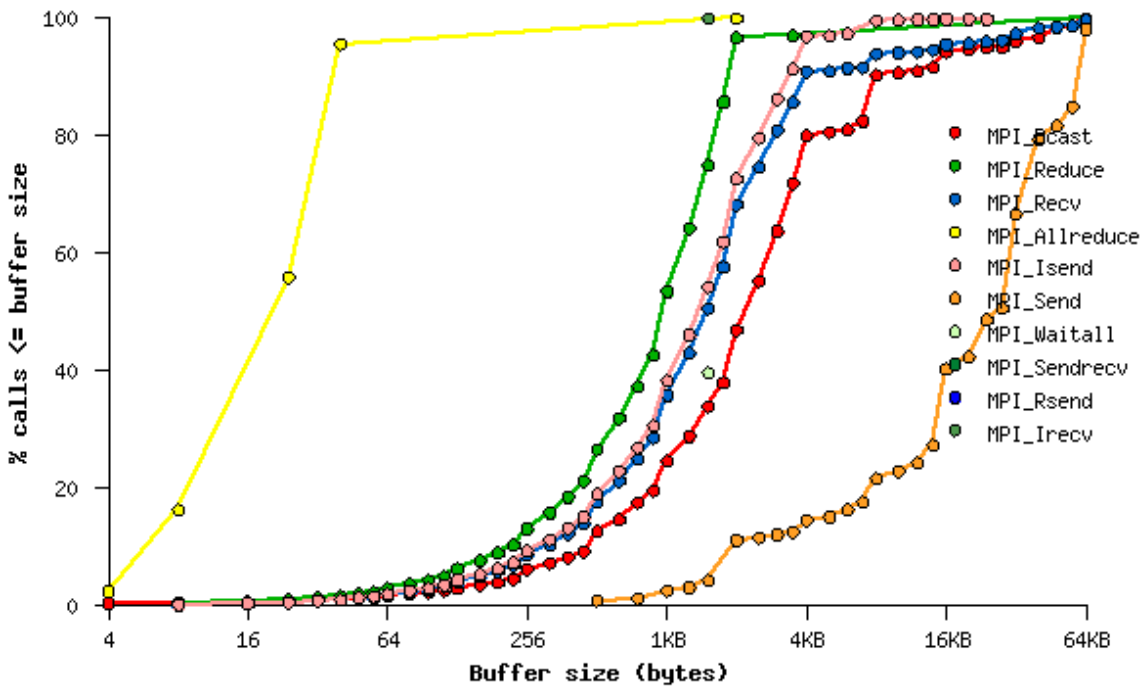
by MPI rank , time detail by MPI time , time detail by rank , call list

Message Buffer Size Distributions: time



cumulative values, values

Message Buffer Size Distributions: Ncalls



cumulative values, values

Communication Topology : point to point data flow

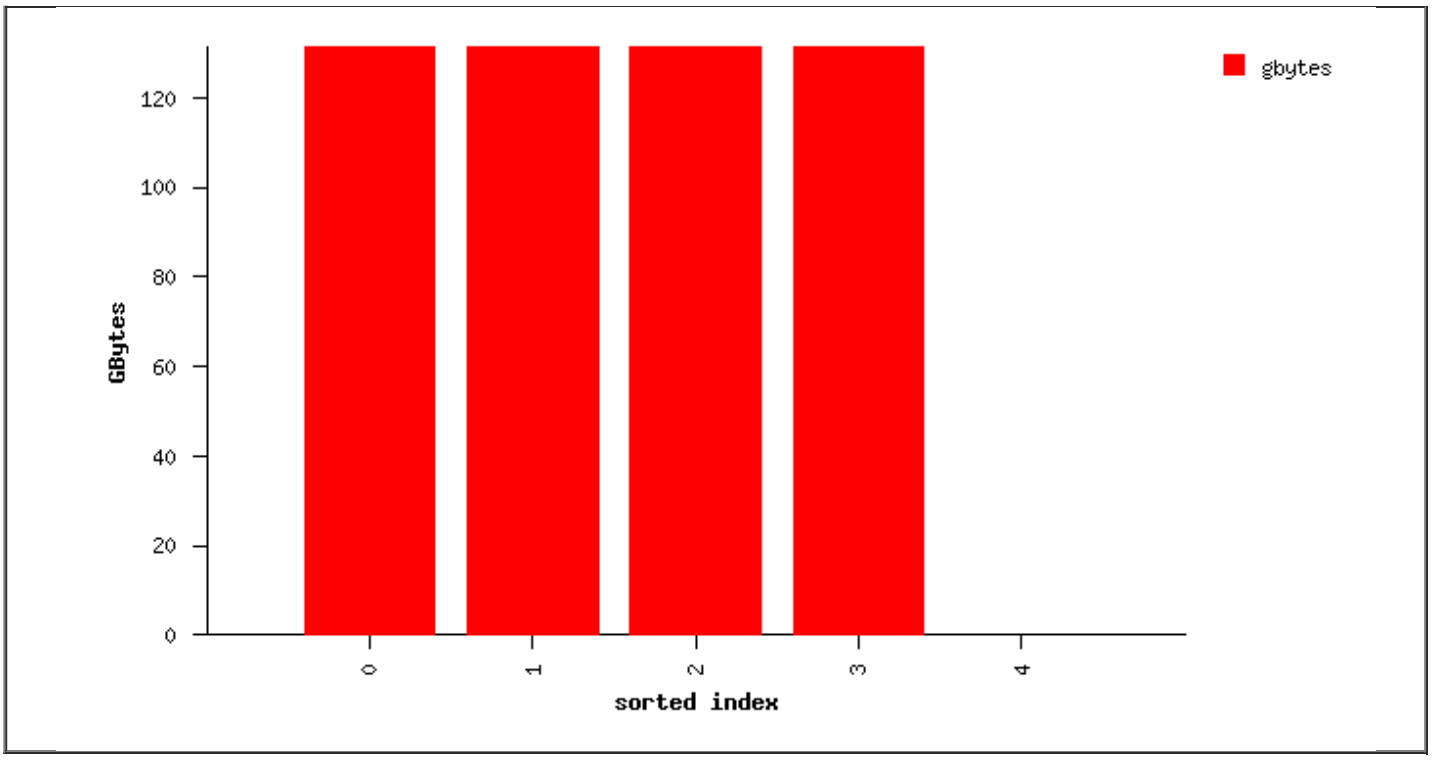
None

data sent , data recv , time spent , map_data file map_adjacency file

Switch Traffic (volume by node)

None

Memory usage by node


gbytes
GBytes
120
100
80
60
40
20
0
0
1
2
3
4
sorted index