
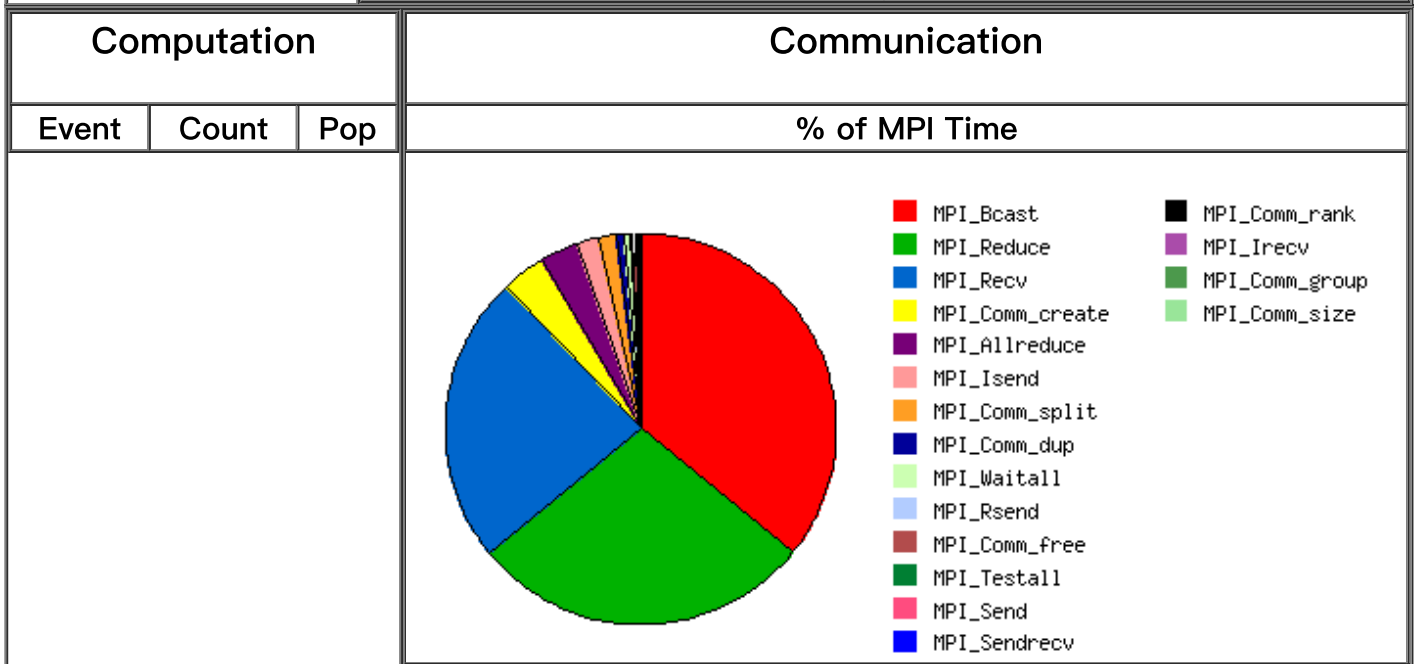


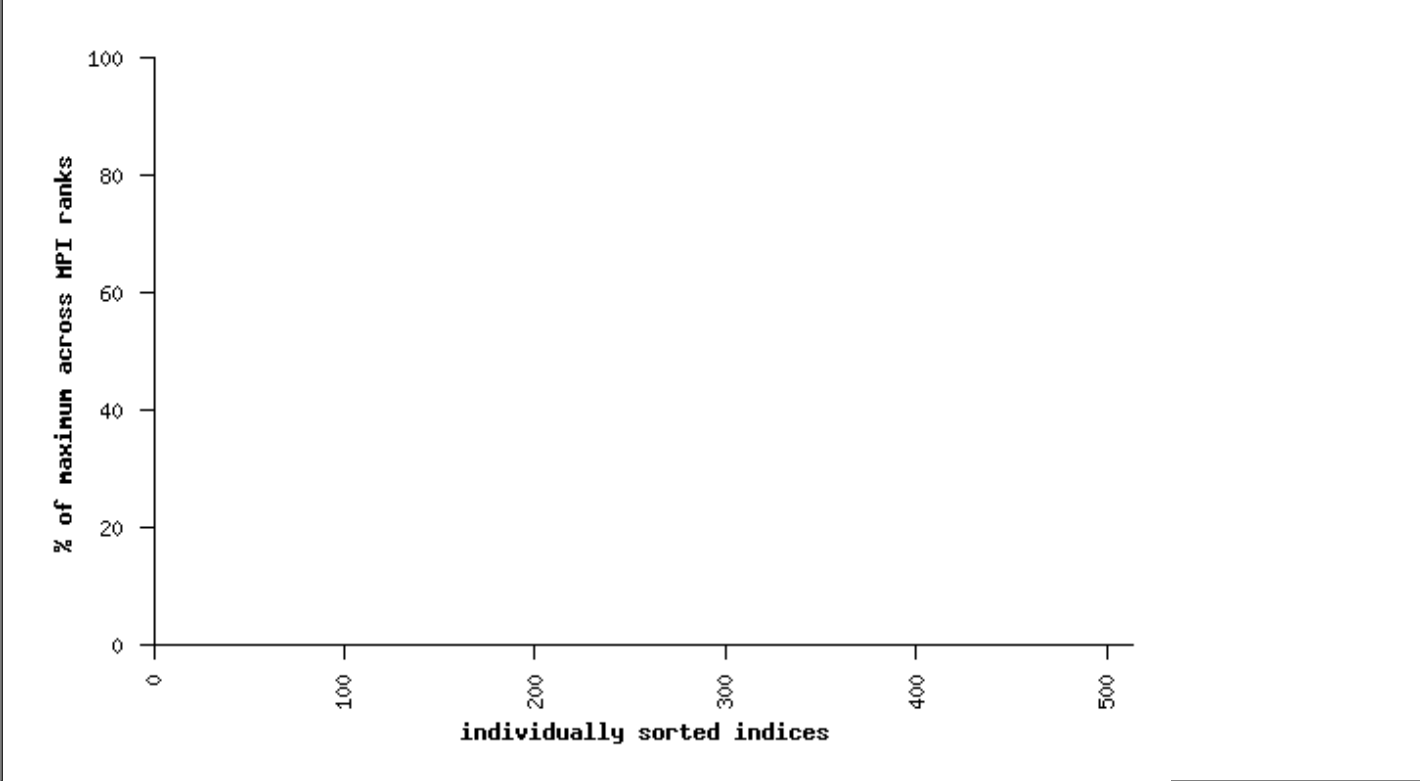
16020347 <ul style="list-style-type: none"> Load Balance Communication Balance Message Buffer Sizes Communication Topology Switch Traffic Memory Usage Executable Info Host List Environment Developer Info 	command: /jet/home/hpeng1/evan/qe-7.1/bin/cp.x -nb 4 -inp cp.in	
	codename: unknown	state: unknown
	username: hpeng1	group:
	host: r087.ib.bridges (x86_64_Linux)	mpi_tasks: 512 on 4 hosts
	start: 05/01/23/23:10:18	wallclock: 1.05267e+02 sec
	stop: 05/01/23/23:12:03	%comm: 1.1813106419272
	total memory: 295.337984000001 gbytes	total gflop/sec: 0
	switch(send): 0 gbytes	switch(recv): 0 gbytes



HPM Counter Statistics							
Event	Ntasks	Avg	Min(rank)		Max(rank)		
Communication Event Statistics (100.00% detail, 4.9931e−06 error)							
	Buffer Size	Ncalls	Total Time	Min Time	Max Time	%MPI	%Wall
MPI_Reduce	24576	145200	93.579	6.509e−05	9.077e−02	14.70	0.17
MPI_Recv	0	96800	40.953	0.000e+00	1.410e−01	6.43	0.08
MPI_Recv	8192	79640	35.801	0.000e+00	1.250e−01	5.62	0.07
MPI_Bcast	8192	572704	31.916	5.960e−06	1.119e−02	5.01	0.06
MPI_Reduce	20480	4840	27.371	2.260e−04	6.210e−02	4.30	0.05
MPI_Recv	16384	47960	24.870	6.294e−05	1.251e−01	3.91	0.05
MPI_Bcast	1024	1074040	23.915	0.000e+00	2.124e−03	3.76	0.04
MPI_Comm_create	0	59048	23.857	3.481e−05	1.361e−02	3.75	0.04
MPI_Bcast	24576	280236	23.801	1.502e−05	8.443e−02	3.74	0.04
MPI_Bcast	4	69212	21.814	0.000e+00	3.774e−02	3.43	0.04
MPI_Bcast	512	571340	13.541	0.000e+00	3.919e−02	2.13	0.03
MPI_Bcast	1280	838244	13.255	0.000e+00	2.183e−03	2.08	0.02
MPI_Bcast	20480	48092	12.807	2.599e−05	4.117e−02	2.01	0.02
MPI_Allreduce	8	181016	10.390	3.815e−06	1.892e−03	1.63	0.02

MPI_Recv	24576	15840	10.216	7.915e-05	1.862e-02	1.60	0.02
MPI_Comm_split	0	118096	8.848	3.886e-05	3.466e-03	1.39	0.02
MPI_Reduce	512	937024	7.919	2.980e-05	1.828e-03	1.24	0.01
MPI_Reduce	640	793276	7.771	3.004e-05	1.956e-03	1.22	0.01
MPI_Bcast	768	609664	7.568	0.000e+00	1.796e-03	1.19	0.01
MPI_Bcast	16384	180796	7.280	1.597e-05	5.430e-03	1.14	0.01
MPI_Bcast	2048	101728	7.005	0.000e+00	3.879e-03	1.10	0.01
MPI_Reduce	256	468512	6.854	3.004e-05	3.932e-02	1.08	0.01
MPI_Reduce	8	63888	5.970	3.004e-05	1.467e-02	0.94	0.01
MPI_Recv	7168	16052	5.820	0.000e+00	1.013e-01	0.91	0.01
MPI_Bcast	3584	30492	5.743	1.562e-04	2.825e-02	0.90	0.01
MPI_Bcast	640	469304	5.395	0.000e+00	1.840e-03	0.85	0.01

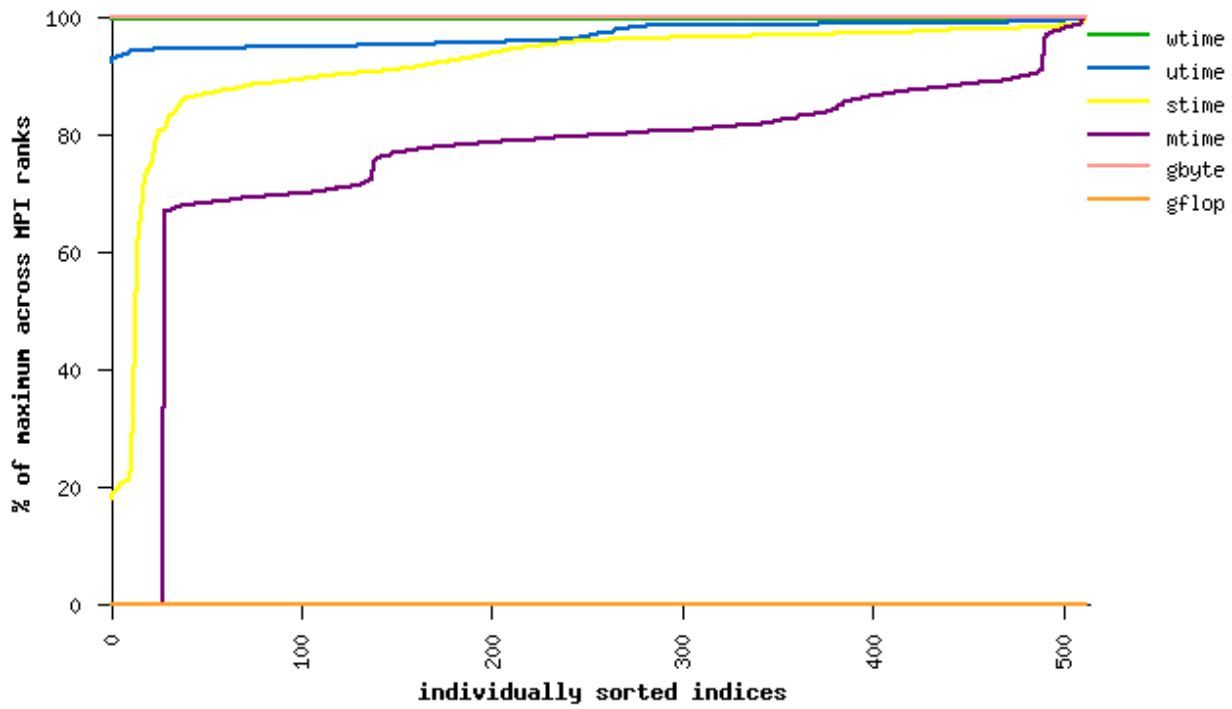
Load balance by task: HPM counters



[by MPI rank](#), [by MPI time](#)

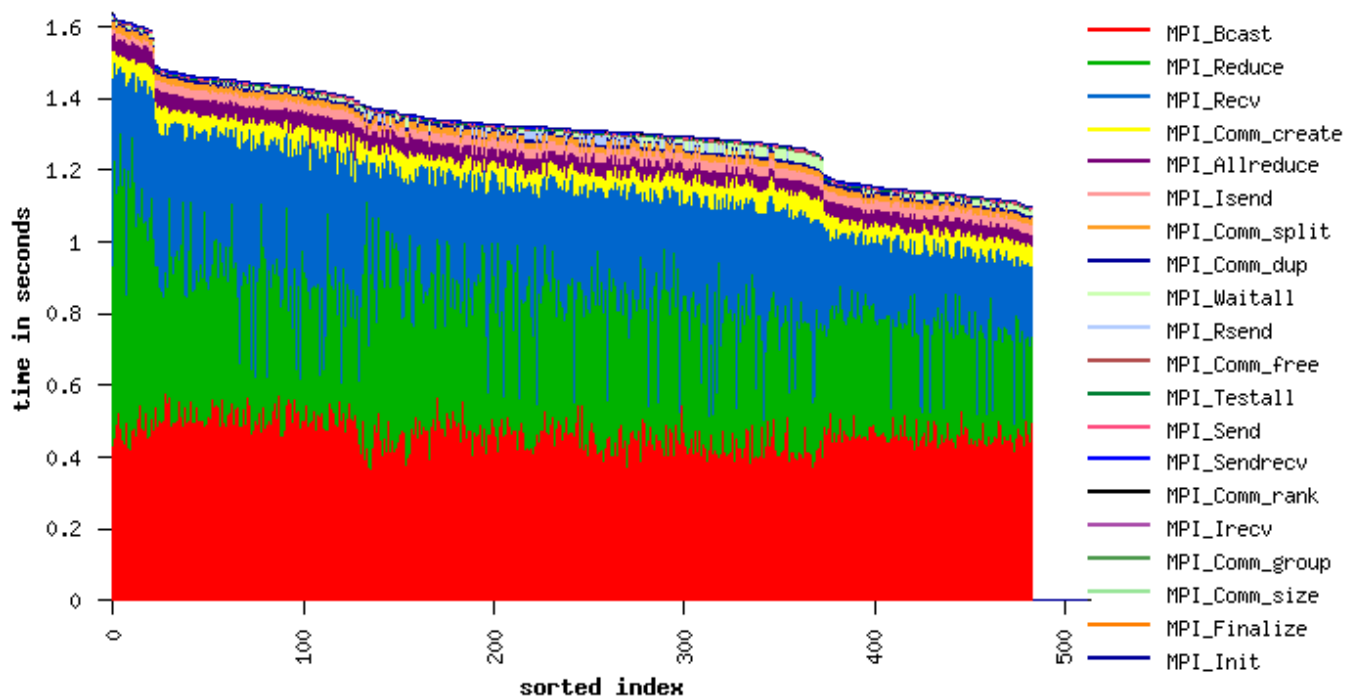
Load balance by task: memory, flops, timings





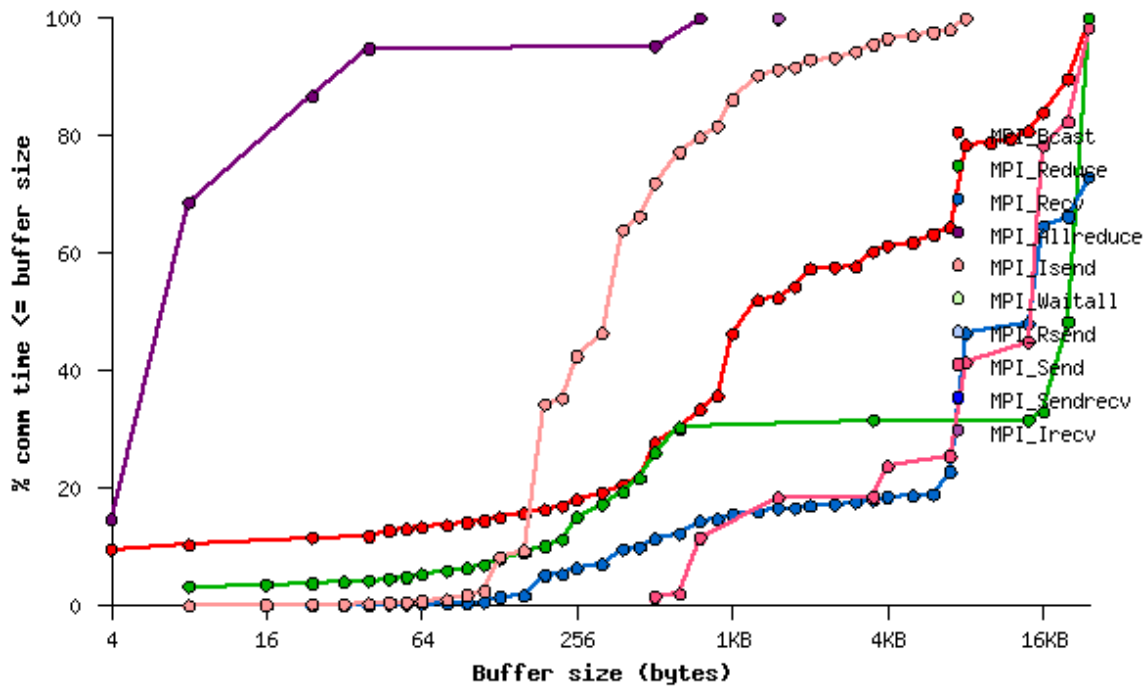
[by MPI rank](#), [by MPI time](#)

Communication balance by task (sorted by MPI time)



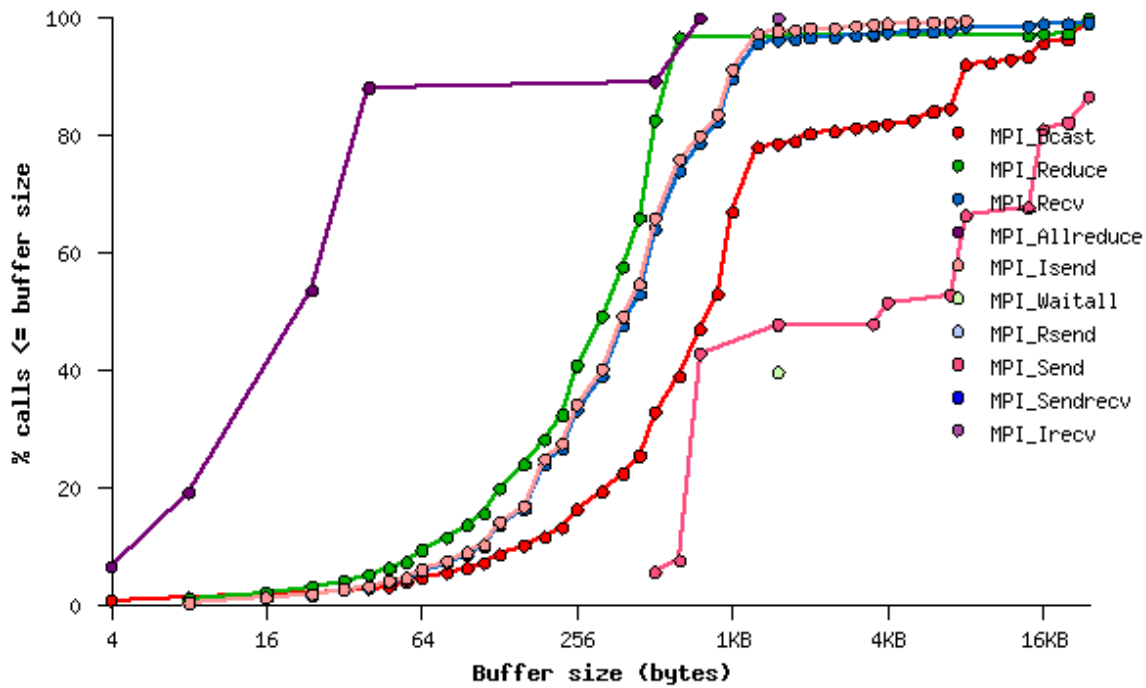
[by MPI rank](#), [time detail by MPI time](#), [time detail by rank](#), [call list](#)

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

