

System	Dataset	Model	# of nodes	Baseline Time (s)	Algorithm	Algo. Time (s)	Speedup
3*Piz Daint	3*Webspam	LR	32	2.40 (2.16)	3*	0.68 (0.35)	3.53 (6.1)
		SVM	32	1.62 (1.42)		0.65 (0.44)	2.49 (3.2)
3*Piz Daint	3*URL	LR	32	2.64 (2.58)	3*	0.75 (0.70)	3.52 (3.6)
		SVM	32	1.98 (1.93)		0.56 (0.53)	3.54 (3.6)
2*Piz Daint	Webspam	LR	8	4.67 (3.79)	2*	2.56 (1.58)	1.82 (2.4)
	URL	LR	8	3.77 (3.53)		2.09 (1.50)	1.80 (2.3)
2*Greina (IB)	Webspam	LR	8	6.52 (4.67)	2*	3.63 (1.90)	1.80 (2.4)
	URL	LR	8	8.14 (4.47)		6.11 (2.49)	1.33 (1.8)
2*Greina (GigE)	Webspam	LR	8	76.80 (75.95)	2*	3.79 (2.95)	20.26 (25.7)
	URL	LR	8	104.50 (100.46)		8.26 (4.22)	12.65 (23.8)

Table 1: Distributed optimization using MPI-OPT. The times are averages for a full dataset pass, with the communication part in brackets. Speedup versus dense MPI is shown end-to-end, with communication speedup in brackets.