

Scatter plot showing the ratio of communication time to CPU time for four methods: linear, naive, sketch, and synchronous. The x-axis is labeled '(Communication time) / (CPU time)' and ranges from 0 to 40. The y-axis is unlabeled. The legend indicates: linear (blue), naive (orange), sketch (green), and synchronous (red).

Method	(Communication time) / (CPU time)	Relative Frequency
linear	~6.5	2
naive	~4.5	1
naive	~4.8	1
naive	~5.2	1
naive	~13.5	1
sketch	~3.5	1
sketch	~3.8	1
sketch	~4.2	1
sketch	~4.5	1
sketch	~4.8	1
sketch	~5.2	1
sketch	~5.5	1
sketch	~6.2	1
sketch	~6.8	1
sketch	~7.5	1
sketch	~8.2	1
sketch	~9.5	1
sketch	~10.5	1
sketch	~12.5	1
sketch	~14.5	1
synchronous	~9.5	1
synchronous	~10.5	1
synchronous	~12.5	1
synchronous	~14.5	1
synchronous	~15.5	1
synchronous	~40.5	1
synchronous	~40.5	1
synchronous	~40.5	1
synchronous	~40.5	1

A scatter plot comparing the accuracy of four methods: linear (blue), naive (orange), sketch (green), and synchronous (red). The x-axis represents the ratio of communication time to CPU time, ranging from 0.25 to 2.25. The y-axis represents accuracy, ranging from 0.9850 to 0.9875. The synchronous method shows a clear trend of increasing accuracy as the communication-to-CPU time ratio increases, while the other methods show more scattered results.

Method	(Communication time) / (CPU time)	Accuracy
linear	0.48	0.9862
linear	0.48	0.9860
linear	0.48	0.9854
naive	0.20	0.9856
naive	0.20	0.9854
naive	0.20	0.9853
naive	0.32	0.9863
naive	0.32	0.9860
naive	0.32	0.9855
naive	0.32	0.9853
naive	0.32	0.9852
naive	0.82	0.9855
sketch	0.28	0.9861
sketch	0.28	0.9857
sketch	0.28	0.9855
sketch	0.28	0.9853
sketch	0.28	0.9852
sketch	0.32	0.9855
sketch	0.32	0.9852
sketch	0.32	0.9852
sketch	0.32	0.9851
sketch	0.38	0.9857
sketch	0.38	0.9854
sketch	0.38	0.9852
sketch	0.38	0.9851
sketch	0.48	0.9851
synchronous	0.85	0.9860
synchronous	0.85	0.9859
synchronous	0.85	0.9857
synchronous	0.85	0.9856
synchronous	0.85	0.9850
synchronous	2.15	0.9878
synchronous	2.15	0.9862
synchronous	2.15	0.9855
synchronous	2.15	0.9854
synchronous	2.15	0.9852