

Matrix Size	Bcast Total Time (s)	Scatter Total Time (s)	Calculate Total Time (s)	Gather Total Time (s)
10000	0.060265662	1.915706181	0.798150339	0.011544831
20000	0.046577512	7.096504187	3.153202755	0.026001992
30000	0.044235635	15.80948627	7.091052757	0.005644023
40000	0.056070964	27.91462283	12.55519272	0.592477148

