

Table 1: Key Features of Distributed Graph-Parallel Systems

Framework	Graph Data Model	Computation Model	Communication Model
Pregel	Directed, Hash-Mapping	Bulk Synchronous Parallel (BSP)	Message Passing
GraphLab	Undirected, Hash-Mapping	Asynchronous(Async.)	Distributed Shared Memory
PowerGraph	Undirected, Vertex-Cut	Gather-Apply-Scatter, BSP/Async.	Distributed Shared Memory
GRE	Directed, Agent-Graph	Scatter-Combine, BSP	Active Message