

dblab.usc.edu

## **BG: A Scalable Benchmark for Interactive Social Networking Actions**

**http://BGBenchmark.org** Yazeed Alabdulkarim<sup>1</sup>, Sumita Barahmand<sup>2</sup>, Shahram Ghandeharizadeh<sup>1</sup> <sup>1</sup>Dept. Of Computer Science, University Of Southern California,<sup>2</sup> Microsoft





by the vendors of data stores?

R. Cattell, "Scalable SQL and NoSQL Data Stores," SIGMOD Rec., vol. 39, pp. 12–27, May 2011.

Proceedings of 2013 CIDR, January 2013 Y. Alabdulkarim, S. Barahmand, S. Ghandeharizadeh. BG: A Scalable Benchmark for Interactive Social Networking Actions. Submitted for publication

### **3. Key Features**

### SoAR



## **4. Execution Paradigms**

# **Non-Partitioned** BGClient

Partitioned **BGClient 2** 

Data Store

			LDBC May 20	Die graph & RD benchmark refe 15	[4] max	
UBBoS	RUBiS	YCSB	YCSB++	BG	LinkBench	
×	×	×	×	$\checkmark$	×	
~	~	×	~	$\checkmark$	×	
×	×	×	¥	1	Y	

itel ieurare		REDBOD	TO DIO	1000	1000.1	20	Binnebenten	2000
Unpredictable reads	×	×	×	×	×	$\checkmark$	×	×
Horizontally scalable	~	$\checkmark$	$\checkmark$	×	~	~	×	×
SLA	$\checkmark$	×	×	×	×	~	×	×
Inconsistency Window	×	×	×	×	~	~	×	×
Rating mechanism	×	×	×	×	×	~	×	×
Visualization Tool	×	$\checkmark$	$\checkmark$	×	$\checkmark$	$\checkmark$	×	×

1- S. Barahmand and S. Ghandeharizadeh, "BG: A Benchmark to Evaluate Interactive Social Networking Actions," Proceedings of 2013 CIDR, January 2013