

The graph illustrates the scalability of various storage algorithms. As the number of replicas increases, the number of nodes required for most algorithms decreases. DAOS\_2R and Min\_Storage show the most significant reduction in nodes required as replicas increase, while HDFS\_RS(6,3) and HDFS\_RS\_ADAPTATIVE maintain a constant number of nodes.

Replicas	D-rex	Min_Storage	Greedy_Load_Balancing	hdfs_3_replications	HDFS_RS(3,2)	HDFS_RS(6,3)	HDFS_RS(4,2)	HDFS_RS_ADAPTATIVE	GlusterFS	GlusterFS_ADAPTATIVE	DAOS_1R	DAOS_2R
0.9	10	10	5	2	4	10	4	10	5	4	10	10
0.99	5	6	4.5	2	4	10	4	10	4.5	4	5	6
0.999	4	4	4	2	4	10	4	10	4	4	4	4
0.9999	3	4	4	2	4	10	4	10	3.5	3	3	4
0.99999	2.8	3	3.5	2	4	10	4	10	3	2.5	2.8	3
0.999999	2.5	2.5	3	2	4	10	4	10	2.5	2	2.5	2.5
0.9999999	2	2.5	2.5	2	4	10	4	10	2	2	2	2.5

