

(54) Title of the invention : ALGORITHM FOR ADAPTIVE REPLICATION IN HIGH AVAILABILITY CLUSTER

<p>(51) International classification :G06F0009500000, G06F0011140000, G06F0011200000, G06F0016245800, G06F0016110000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : <b>1)Dr J Anitha</b> Address of Applicant :Professor, Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajiri-500100. Maisammaguda -----</p> <p><b>2)Malla Reddy Engineering College</b> Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : <b>1)Dr J Anitha</b> Address of Applicant :Professor, Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajiri-500100. Maisammaguda -----</p> <p><b>2)Dr B Hari Krishna</b> Address of Applicant :Associate Professor, Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajiri-500100. Maisammaguda -----</p> <p><b>3)D Syam Kumar</b> Address of Applicant :Assistant Professor, Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajiri-500100. Maisammaguda -----</p> <p><b>4)N Paparao</b> Address of Applicant :Assistant Professor, Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajiri-500100. Maisammaguda -----</p> <p><b>5)B. Bharath Kumar</b> Address of Applicant :Assistant Professor, Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajiri-500100. Maisammaguda -----</p> <p><b>6)Mr.Katam Naga Lakshman</b> Address of Applicant :Assistant Professor, Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajiri-500100. Maisammaguda -----</p> <p><b>7)Ms Mannepuluri Srujana</b> Address of Applicant :Assistant Professor, Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajiri-500100. Maisammaguda -----</p> <p><b>8)Ms shaik,jasmine</b> Address of Applicant :Assistant Professor, Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajiri-500100. Maisammaguda -----</p> <p><b>9)T.Anitha</b> Address of Applicant :Assistant Professor, Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajiri-500100. Maisammaguda -----</p>
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(57) Abstract :  
A network of computers called a High Availability Cluster (HAC) is commonly used on the extremely valuable links of college campuses and ISP networks. State full Stream Processing Engines (SPEs), which track numerous concurrent flow states and replicate them to backups, are the foundation of the HAC. Existing replication systems that use precise update messages can be expensive in terms of CPU, memory, bandwidth, and SPEs, which are not optimized when they are overloaded. This approach has two solutions to this problem: a representation using hash replication and an adaptive strategy. State full replication uses a hash structure called the Multilevel Counting Bloom Filter, which is built to consume little memory and little network bandwidth. Dynamic Lazy Insertion, an adaptive technique, is used to repetition of expenses of overloaded system and optimize output. In comparison with other approaches Simulation results are demonstrated.

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