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### **RESEARCH ARTICLE**

# **IMPLEMENTING JOINT IDLE QUEUE ALGORITHM IN CLOUD ENVIRONMENT**

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### **ABSTRACT**

*Cloud computing is an emerging computing paradigm which involves virtualization, distributed computing, networking, software and web services. Cloud computing stores the data and disseminated resource in open environment. Load balancing is one of the main challenges in cloud environment which aims in optimizing resource use, maximize throughput and avoid overload. It requires distribution of the dynamic workload across multiple nodes to ensure that no single node is overwhelmed. A SQ(d) scheduling algorithms can maintain load balancing and provide minimum job scheduling and resource allocation. In order to gain maximum profits with optimized load balancing algorithms, it is necessary to utilize resources efficiently. So the proposed work address JIQ algorithm which provides efficient performance in load balancing. It effectively reduces the system load, communication overhead at job arrivals and maintains actual response time.*

**Index Terms:** *Cloud Computing; Load balancing; processer scheduling*

Full Text: <http://www.ijcsmc.com/docs/papers/March2014/V3I3201499a16.pdf>