Abstract

In distributed systems, the orphan computations [1] [2] make problems like data inconsistency and wastage of computer resources' usage time. The inconsistency [3][4] of data is a big concern among the users of the distributed systems. Here in this paper, the issues of orphans have been discussed and a case study that we face in our day to day life. The case study actually reveals how a common man gets affected by an orphan computation. The orphan may occur due to abort process, failure node or a failure of communication link between the client and server which participate in the RPC [5][6][7][8]. It is also discussed the situation of deadlock which is caused by orphan computations. The deadlock [9] [10] [11] situation actually locks the resources of the system by unwanted processes and hence affects the overall system throughput.

References

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Index Terms

Computer Science Information Sciences

Keywords
Remote procedure call, orphan computations, nested transactions, abort orphans, crash orphan, data inconsistency, deadlock.