Abstract

Mobile networks have become immensely popular. There are a few limitations in case of such networks like battery backup nodes being mobile and lack of fixed infrastructure. Checkpointing is essential because it takes care of fault tolerance and system performance in case of mobility of nodes. Uncoordinated checkpointing is when any process can take a checkpoint independent of other processes. In case of coordinated checkpoint synchronization between processes helps in assuming a global checkpoint. The overheads in this case need to be taken care of. The various measures for the same are reducing the number of synchronizing processes and piggybacking. In this paper, we have analyzed various coordinated
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checkpointing algorithms and found that minimum process algorithm is more suitable than others because it reduces the overheads of storing checkpoints as no useless checkpoints are created and not all processes are blocked.

References

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