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Increasing Reliability Through System Testing And Failure Prediction

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Building data centers from a very large number of components of finite reliability increases the probability of hardware failures, potentially leading to data corruption and unscheduled downtime. In addition, the typical extensive variations in hardware types increase the probability of similar errors due to software incompatibility.

We report on the testing and verification methods and software used to check system integrity and decrease service downtime by early problem detection and prediction.

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