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Providing high-performance computing and security is a challenging task. High-performance computing systems and distributed environments currently suffer from security support and high-performance. This special issue addresses relationships between security and high performance systems in many aspects. First, it considers how to add security properties (authentication, authorization, accounting, confidentiality, integrity, non-repudiation, access control) to high-performance computing systems. Second, it covers how to mitigate security cost in high performance computing systems. For instance, minimizing key management and encryption/decryption cost. Third, it investigates the tradeoffs between maintaining high performance and achieving security in computing systems and solutions to balance the two objectives.

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