AUBURN UNIVERSITY
SAMUEL GINN COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER SCIENCE AND SOFTWARE ENGINEERING

Security-Aware Resource Management for Real-Time Applications on Clusters

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Time: 4 hours

Outline:

1. Motivation
    - Problem Statement
    - Motivations
2. A Security-Aware Middleware Model
    - Architecture of the Security Middleware Model
    - Quality of Security Control Manager
    - Security Service Requirements Specification
3. Security Overhead Models
    - Confidentiality Overhead
    - Integrity Overhead
    - Authentication Overhead
4. A Task Allocation Scheme
    - Mathematical Models
    - System Models
    - Task Models