

A Retrospective on the VAX VMM Security Kernel

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Outline

- Background
- Related Work
- Design/Methodology
 - Virtualizing VAX
 - Security
 - Layered Design
 - Engineering Issues
 - Human Interface
- Conclusion

Background

- **Discretionary Access Controls**
 - Access rights at the discretion of the owner.
 - ACL & Capability based systems
 - Covert Channels
 - Storage Channels
 - Timing Channels
- **Mandatory Access Controls**
 - System defines access policy.
 - Lattice Security models