

Technische Universität Dresden

Sichere mikrokernbasierte Systemarchitektur (μ SINA)

Secure Microkernel-based System Architecture

Do you trust your Operating System?
...we do not!

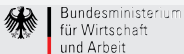
The diagram illustrates the μSINA architecture. It features a central 'Microkernel' component connected to several 'L4Linux' components. A red line represents a secure communication path through the microkernel to an 'IPsec' gateway, which is depicted as a bridge structure. A 'STOP' sign is placed on the bridge, indicating security enforcement. To the right, a circular diagram shows the microkernel's internal structure with components like 'Crypto', 'Viaduct', 'L4Linux', and 'Network'.

FEATURES

- Minimal-complexity microkernel in privileged mode
- Intercomponent communication via microkernel only
- Vulnerabilities locally restricted
- Increased reliability
- Reduced evaluation costs

APPLICATIONS

- Showcase implementation of a VPN gateway
- New platform for SINA (Secure Inter-Network Architecture)
- Protection of firewalls, routers, IDRS and web servers
- Trusted platforms



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