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For example, the Xen hypervisor itself is about 5–10 times the size (in LOC) of the OKL4 microkernel. In addition, it has the privileged special virtual machine “Dom0”, which contains a complete Linux system, all part of the TCB (which is therefore of the order of a MLOC).

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General overview The microkernel approach. ... Modern virtualization technology is the key to overcome this problem. In an preliminary study, a user-level version of the Linux kernel (L4Linux) was successfully ported to the Genode OS Framework running on a L4 kernel.

Microkernel - Wikipedia

The term hypervisor is a variant of supervisor, a traditional term for the kernel of an operating system: the hypervisor is the supervisor of the supervisors, with hyper-used as a stronger variant of super-. The term dates to circa 1970; in the earlier CP/CMS (1967) system, the term Control Program was used instead.

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Overview What is L 4 Linux? L 4 Linux is a port of the Linux kernel to the L4 microkernel API. It is a para-virtualized Linux kernel running on top of a hypervisor, completely without privileges. L 4 Linux runs in user-mode on top of the μ-kernel, side-by-side with other μ-kernel applications such as real-time components.

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The Xen Project hypervisor is powering the largest clouds in production today. Here are some of the Xen Project hypervisor's key features: Small footprint and interface (is around 1MB in size). Because it uses a microkernel design, with a small memory footprint and limited interface to the guest, it is more robust and secure than other hypervisors.

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