A more realistic example of the equivalence of virtual machines and real machines is provided by the work of Goldberg and Popack. In their 1979 paper in *CACM*, they demonstrated that a virtual machine can simulate the execution of a real machine, providing a complete control over the environment.

For instance, an efficient virtual machine that simulates a real machine running under the control of a virtual machine can be used to provide a set of isolated, bounded buffers for communication between real machines.

This approach is particularly useful in environments where security and isolation are crucial, as it allows for the execution of code that may be potentially harmful in a contained and controlled environment.
Type 3: Hybrid VM

Type 1: Hardware Parity

by undeploying OS.

v/w comp. + x 1.4 providers

- can be deployed

Server

H/E + OS

HyperVisor

OS

v/w
Every kernel can be written with ARM

Cross-System/Conference

Paper Presented

- April 27
- April 10