Occupancy Detection: The Ins And Outs

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Abstract

Virtualization[1] is the hot topic in the operating systems these days. It is useful in many scenarios: server consolidation, virtual test environments, and for Linux enthusiasts who still cannot decide upon the which distribution is best.

The Kernel Virtual Machine, or **kvm** is a new Linux subsystem which leverages these virtualization extensions to add a virtual machine monitor (or hypervisor) capability to Linux.

1 Background

Virtualization is the hot topic in the operating systems[2] these days. It is useful in many scenarios: server consolidation, virtual test environments, and for Linux enthusiasts who still cannot decide upon the which distribution is best.

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2 x86 virtualization

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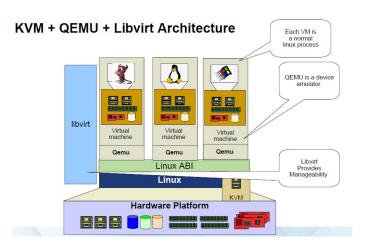


Figure 1: kvm: architecture

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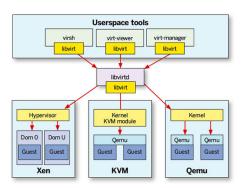


Figure 2: YAkvmA

3 MMU virtualization

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$$\int \frac{d\theta + \pi/2 + \sum_{i=2}^{10} i^2 + i\theta^2 + i/\pi}{1 + \theta^2} = \tan^{-1}\theta + C \quad (2)$$

The Kernel Virtual Machine², or **kvm** is a new Linux subsystem which leverages these virtualization extensions to add a virtual machine monitor (or hypervisor) capability to Linux. The architecture is show in fig.2

3.1 Shadow Paging

Virtualization is the hot topic in the operating systems these days.

¹Consolidate all servers on one machine

²kvm, is a Linux subsystem

Hello	Hello	Hello							
AAAAA									
BBBBB									
AAAAA									
BBBBB									

Table 1: Table Name

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3.2 Direct Mapping

Virtualization is the hot topic in the operating systems these days. It is useful in many scenarios: server consolidation, virtual test environments, and for Linux enthusiasts who still cannot decide upon the which distribution [6] is best.

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3.3 Hardware assisted Paging

Virtualization is the hot topic in the operating systems these days. It is useful in many scenarios: server consolidation, virtual test environments, and for Linux enthusiasts who still cannot decide upon the which distribution is best.

$$\frac{n!}{k!(n-k)!} = \binom{n}{k}$$

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4 Types of Virtualization

- 1. Full Virtualization
 - x86

- MMU
- NIC
- IO
- 2. Para Virtualization
- 3. Hardware Assisted Virtualization

5 x86 Hardware Virtualization Techniques

x86 hardware is difficult to virtualize because few instructions[5] do not trap when executed in different privilege level. Follow the table 2 on page 4 Virtualization is the hot topic in the operating systems these days. It is useful in many scenarios: server consolidation, virtual test environments, and for

Linux enthusiasts who still $a+b*\pi+\theta+\sum\limits_{i=2}^{10}\frac{n!}{k!}+\forall+\leq$ + $\geq=$ 10 cannot decide upon the which distribution is best.

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Hardware	Ι	II	III
a	1	2	3
b	1	2	3
\mathbf{c}	1	2	3
d	1	2	3

Table 2: Virtualization I

ments, and for ${\rm Linux^3}$ enthusiasts who still cannot decide upon the which distribution is best.

Software	Ι	II	III	IV	V
a	1	2	3	test	hello
b	1	2	3	test	hello
\mathbf{c}	1	2	3	test	hello
d	1	2	3	test	hello

Table 3: Virtualization II

³Linux is best operating system ever