



KVM Year Two: After the shock

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Agenda

- ◆ Year in review
- ◆ Growing community
- ◆ Trouble spots
- ◆ Third party support
- ◆ Fighting myths
- ◆ Towards feature completeness
- ◆ Predictions
- ◆ Conclusions

The time spent on any item of the agenda will be in inverse proportion to the sum involved.
- C. Northcote Parkinson (1909-1993)

Year in review

- ◆ Scalability overhaul
- ◆ MMU Notifiers
- ◆ Hotplugging
- ◆ Virtio
- ◆ Paravirtualization
- ◆ New architectures

The best thing about growing older is that it takes such a long time

- Anonymous

Growing community

- ◆ Main contributors
 - ◆ AMD, IBM, Intel, Red Hat, Qumranet
- ◆ Many random contributors
- ◆ Many advances from upstream Qemu and Linux

He who moves not forward, goes backward
- Goethe (1749-1832)

Trouble spots

- ◆ Regression testing
- ◆ Benchmarking
- ◆ Real mode on Intel
- ◆ Relationship with upstream Qemu
- ◆ Virtio immaturity
- ◆ Release management

We can't solve problems by using the same kind of thinking we used when we created them.
- Albert Einstein (1879-1955)

Third party support

- ◆ Ubuntu Server
- ◆ libvirt/virt-manager
- ◆ ovirt
- ◆ Xenner
- ◆ Transitive

Those third parties can supply the quote here
- me (1970 -)

Fighting myths

- ◆ Special purpose hypervisor vs. general purpose OS

The great enemy of the truth is very often not the lie - deliberate, contrived and dishonest - but the myth - persistent, persuasive and unrealistic.

- John Fitzgerald Kennedy (1917-1963)

Towards feature completeness

- ◆ Essentially feature complete
- ◆ What's missing?
 - ◆ PCI device assignment / IOMMU integration
 - ◆ Multiqueue NICs
 - ◆ Better isolation features
- ◆ Many new features will come from general Linux improvements
 - ◆ Particularly containers

We have to finish this thing one day

- Andrew Morton (1959 -)

Predictions

- ◆ Last year's predictions
 - ◆ ARM port
 - ◆ Bigger/better KVM Forum
- ◆ Next year?

With high hope for the future, no prediction is ventured

- Abraham Lincoln (1809-1865)

Conclusions

- ◆ KVM growth to continue
 - ◆ Developer share
 - ◆ Deployed share
 - ◆ Mindshare
- ◆ Synergy key to growth
 - ◆ Between KVM and the rest of Linux
 - ◆ Between KVM and Qemu
 - ◆ Among the KVM ports

The only exercise some people get is jumping to conclusions

- Anonymous



Thank You
