KVM Year Two: After the shock

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KVM Developers Forum
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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 - )
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