

Xen Status Update

BSDCan 2013



Changing The World of Storage

FreeBSD PV

- SpectraLogic sponsored project
- Recently achieved multi-user
- More bug fixing needed
- Contact cherry@freebsd.org
- http://svnweb.freebsd.org/base/projects/amd64_xen_pv/

FreeBSD PV Dom0

- SpectraLogic sponsored project
- Follows PV project completion
- Tasks
 - Port Dom0 tool stack
 - Implement missing Xen back-end drivers
 - Minor changes to kernel startup
- Contact cherry@freebsd.org

FreeBSD HVM with PV Acceleration

- Currently missing several PV optimizations
 - Direct dispatch event channels
 - PV Timer driver
 - MSI/MSI-X/PIRQ/IPI delivered via event channels
 - 3-tiered event channel API (allows for more channels)
 - PV aware locking primitives
- SpectraLogic and Citrix patches
 - Supports first two items
 - http://xenbits.xen.org/gitweb/?p=people/royger/freebsd.git;a=shortlog;h=refs/heads/pvhvm_v6

FreeBSD PV in HVM Container (PVH)

- “Full PV with the performance of Hardware Assisted Paging (HAP)”
- Xen support started by Oracle in late 2011
- Scheduled for Xen 4.3 release
- Roger Pau Monné roger.pau@citrix.com hopes to begin FreeBSD support after HVM PV support is complete.

Questions?