



Xen non-x86 Architectures

Agenda

- Porting/Common Code Issues
 - Open Discussion
- Xen/PowerPC
 - Status
 - Roadmap/Open Discussion
- Xen/ia64
 - Status
 - Demo?
 - Roadmap/Open Discussion

Common Code Issues

- Getting non-x86 boxes into the staging test ring
- Becoming “1st Class Xenixens”
- ???

Xen/PowerPC

Xen/ia64 Status

- ✓ Full domain lifecycle support
- ✓ SMP Guest support (para- and full-virtualization)
- ✓ Virtualized IOSAPICs and evtchn support
- ✓ Virtual/Physical memory model transition
- ✓ Vnif support!
- ✓ vCPU hotplug support
- ✓ Domain save, restore and Migration!

Xen/ia64 Status (cont)

- ✓ EFI variable & time support
- ✓ FPSWA support
- ✓ INIT handling
- ✓ Perfc support
- ✓ Windows VT-i support
- ✓ Integration into Fedora
- ✓ Driver domains

Xen/ia64 Status (cont)

- Over 200 subscribers to xen-ia64-devel
- Wide range of supported platforms
 - Bull NovaScale
 - Fujitsu PRIMEQUEST
 - HP Integrity
 - Intel Tiger

Thank you!

Xen/ia64 Roadmap

- Further distribution integration
- Stabilization
- Performance tuning
- Debugger support
- Profiling support
- NUMA support
- ???

Xen/ia64 Discussion Topics

- Stability
- Distribution support
- Performance
 - Profiling
 - Tuning
 - Scalability
 - Benchmarks
 - TR usage

Xen/ia64 Discussion Topics (cont)

- Features
 - Stub-domains
 - Multiple page size support
 - Big Endian support
 - Guest long format VHPT
 - Protection key emulation
 - Debug & PMU guest register access
 - Id.s on TR mapped page
 - MCA support
 - blktap support

Xen/ia64 Discussion Topics (cont)

- Debugging
 - Dump
 - Debugger
- VT-i Issues
 - Windows networking (driver for qemu NIC)
 - Windows NVRAM emulation
 - PV-on-HVM drivers
- Open Source Guest Firmware (GFW)
- API Stability