



**Welcome to the
Xen Summit**

September 7th-8th 2006, San Jose

Logistics



- Three rooms:
 - Track A – Plaza Room
 - Track B – Park Room
 - Food/breakout sessions – Centre Room
- WiFi network name:
 - xensummitA/B/C no key
- Restrooms around corner past front desk

Schedule

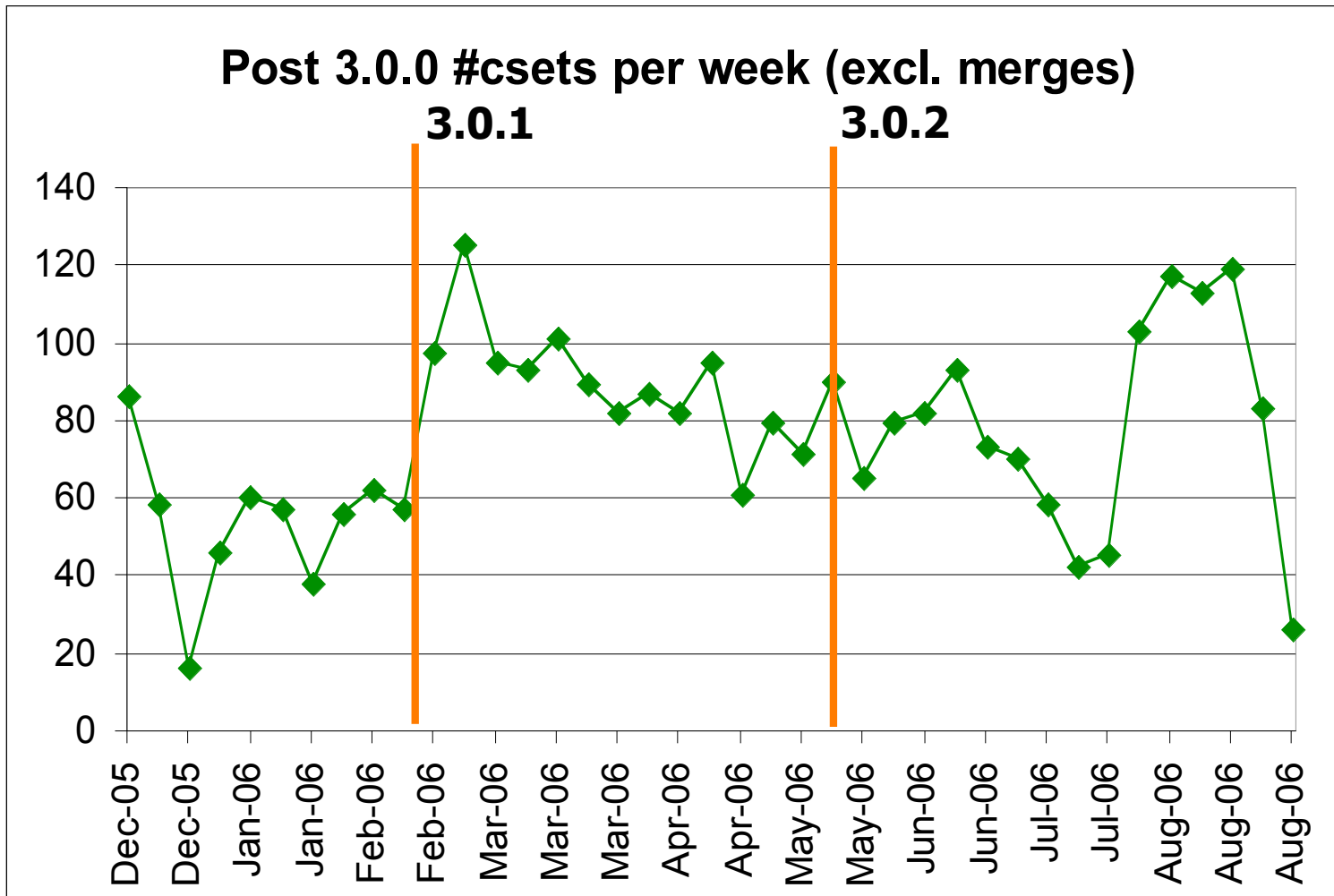
| Day/Time | Track A | Track B |
|--------------------------|---|--|
| Thurs 08.30-09.00 | Session 1 Intro/plenary (C) | |
| Thurs 09.00-10.30 | Session 2A Xen Core Chair: Keir Fraser | Session 2B Security #1 Chair: Steve Hand |
| Thurs 11.00-12.30 | Session 3A HVM Core Chair: Ian Pratt | Session 3B Security #2 Chair: Reiner Salier |
| Thurs 13.30-15.00 | Session 4A Non x86 Chair: Alex Williamson | Session 4B Performance Chair: Ian Pratt |
| Thurs 15.30-17.00 | Session 5A Testing Chair: James Bulpin | Session 5B HVM Devices Chair: Christian Limpach |
| Thurs 18.30-+ | Dinner and Billiards | |

Schedule



| Day/Time | Track A | Track B |
|------------------------|---|--|
| Fri 09.00-10.30 | Session 6A Virtual Devices Chair: Andy Warfield | Session 6B OS Ports Chair: Chris Wright |
| Fri 11.00-12.30 | Session 7A Smart IO H/W #1 Chair: Ian Pratt | Session 7B Control Stack #1 Chair: Ewan Mellor |
| Fri 13.30-15.00 | Session 8A Smart IO H/W #2 Chair: Steve Hand | Session 8B Control Stack #2 Chair: Jim Fehlig |
| Fri 15.30-16.30 | Session 9 Closing (C) | |

Post-3.0.0 Change Log



Post-3.0.0 Rough Code Stats

| | aliases | checkins | insertions |
|-----------------|---------|----------|------------|
| xensource.com | 16 | 1281 | 363449 |
| ibm.com | 30 | 271 | 40928 |
| intel.com | 26 | 290 | 29545 |
| hp.com | 8 | 126 | 19275 |
| novell.com | 8 | 78 | 17108 |
| valinux.co.jp | 3 | 156 | 12143 |
| bull.net | 1 | 145 | 11926 |
| ncsc.mil | 3 | 25 | 6048 |
| fujitsu.com | 13 | 119 | 6442 |
| redhat.com | 7 | 68 | 4822 |
| amd.com | 5 | 61 | 2671 |
| virtualiron.com | 5 | 23 | 1434 |
| cam.ac.uk | 1 | 9 | 1211 |
| sun.com | 2 | 9 | 826 |
| unisys.com | 3 | 7 | 857 |
| other | 30 | 189 | 48132 |

Stats since
3.0.0 Release

Post-3.0 Development Model



- Stabilize “unstable” tree every 8-12 weeks
 - Sweep unstable into 3.0.x-testing
 - Release as 3.0.1, 3.0.2 etc
- Bug fixes cherry picked into 3.0.x-testing at least until next release
 - After being in unstable for a few days, requests to push into 3.0.x-testing
 - Release as 3.0.x-y etc.
 - (much like Linux)

Achievements: 3.0.1/3.0.2



- AMDV support, generic 'HVM' layer
- Linux 2.6.16 upgrade in –unstable
 - subarch of i386/x86_64
 - Linux tip maintained in linux-2.6.tip-xen.hg
- Progress on linux patch upstreaming
 - Patch queue in linux-2.6-patchqueue.hg
- PCI pass-through is back
- API enhancements
- Many bug fixes and stabilization work driven by SLES10

3.0.3 Release (next week?)



- Postponed to synchronize with FC6 freeze and drive more features:
 - New CPU scheduler with CPU migration
 - Xen-oprofile support
 - Blktap/qcow for file-backed virtual disks
 - Upgrade qemu for HVM IO (net, usb, vnc)
 - New shadow pagetable code
 - PV extensions to HVM guests (net, block IO)
 - Segmentation Offload in netfront/back
 - Power architecture merge

3.0.4 Release Proposal



- mid Q4 2006
 - Linux 2.6.18 – maintained in separate tree
 - PV framebuffer support
 - NUMA memory allocator support
 - Dom0 kexec/kdump support
 - dm-userspace
 - Performance optimizations
 - Xend life-cycle management
 - Xen control API
 - XML config files, extended 'xm' syntax
 - QEMU 'v2e' integration?

API stability



- Guest API stability (hypercall, IO)
 - Backward guaranteed:
 - Old 3.0 guests must run on new xen
 - Need to add forward compatibility as well
 - Important now SLES10 hypervisor in the wild
 - [Linux upstreaming may force API change]
- Privileged domain hypercall API
 - Dom0 API stabilizing, tools API still evolving
 - Aim to stabilize tools API
- Xen API control protocol and CLI syntax
 - Finalize wire format, create bindings

Performance



- Performance and scalability work
 - Time is right for some close attention
 - 1-4 socket systems the priority
 - Optimizations for bigger systems must not hurt smaller ones (they often help)
 - Onus is on submitter to demonstrate
 - (Patches that clearly hurt larger systems should be rejected too)
- Good performance tools now available
 - s/w perf counters, xen oprofile, tracebuf etc