Welcome to the Xen Summit

April 17-18th 2007

IBM TJ Watson
Logistics

• Two rooms:
  – Track A – Yorktown Auditorium (here!)
  – Track B – Meeting Room #2
    • Through security door, on left past cafeteria
  – Keep badges with you to get through security!

• WiFi network name: IBMVISITOR
  – See back of badge for username/password

• Restrooms upstairs, either side of auditorium (through security doors)
• Collect T-shirts upstairs
<table>
<thead>
<tr>
<th>Day/Time</th>
<th>Track A</th>
<th>Track B</th>
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<tbody>
<tr>
<td>Tues 08.00-08.15</td>
<td>Session 0 Intro/plenary</td>
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</table>
| Tues 08.15-10.00 | Session 1 Xen Core  
Chair: Tim Deegan                             | Session 1 Ports  
Chair: Jimi Xenidis                                   |
| Tues 10.30-12.30 | Session 2 I/O Virtualization  
Chair: Muli Ben Yehuda   | Session 2 Misc I  
Chair: Clyde Griffin                                      |
| Tues 13.30-15.30 | Session 3 Xen Distros  
Chair: Brian Stein                                 | Session 3 Misc II  
Chair: Nils Nieuwejaar                                   |
| Tues 15.45-17.00 | Session 4 Network Arch  
Chair: Jose Renato Santos                               | Session 4 Security  
Chair: Stefan Berger                                         |
<p>| Tues 18.00-21.00 | Dinner and Billiards                                  |                                                       |</p>
<table>
<thead>
<tr>
<th>Day/Time</th>
<th>Track</th>
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| Weds 8.25-10.00 | **Session 5**  
|             | CPU Roadmaps  
|             | Smart I/O  
|             | Chair: Ian Pratt |
| Weds 10.30-12.30 | **Session 6**  
|             | XenAPI, HVM I/O, Graphics  
|             | Chair: Mike Day |
| Weds 13.30-15.30 | **Session 7**  
|             | Paravirt_ops, VM checkpointing,  
|             | Xen on SGI, Xen Roadmap  
|             | Chair: Keir Fraser |
| Weds 15.30- | **BOF Sessions**  
|             | TBD |
Post-3.0.0 Change Log

Number of Changesets per week

3.0.0  3.0.1  3.0.2  3.0.3  3.0.4

8-Dec-05  8-Jan-06  8-Feb-06  8-Mar-06  8-Apr-06  8-May-06  8-Jun-06  8-Jul-06  8-Aug-06  8-Sep-06  8-Oct-06  8-Nov-06  8-Dec-06  8-Jan-07  8-Feb-07  8-Mar-07  8-Apr-07
• 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
• Progressive paravirtualization for HVM guests
  – Network and Block I/O
• TX Segmentation Offload in netfront/back
• Power architecture merge
• PV framebuffer support
• NUMA memory allocator support
• Dom0 kexec/kdump support
• HVM SMP and interrupt improvements
• Xend life-cycle management
• Preview of Xen control API
• Many performance optimizations
w2k3 SPECcpu2000 integer (multi)
w2k3 Passmark-CPU results compared to native

![Bar chart showing relative scores for various CPU benchmarks compared to native performance.]
w2k3 Passmark memory results vs native

Allocate Small Block
Read Cached
Read Uncached
Write
Memory Mark

Relative score to native (higher is better)

Native
ESX 3.0.1
XenEnterprise 3.2
Xen 3.0.5 - Aim for early May 2007

• XenAPI 1.0 support
  – XML config files
  – http over SSL for secure off-box management
  – PAM authentication
  – Asynchronous event notification
  – C, python, Java, Perl bindings
• HVM save/restore and live migration
• HVM dynamic memory control
• 32-on-64 PV guest support
• Blktap copy-on-write disk support
# Post-3.0.0 Rough Code Stats

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Post-3.0.0 Code Stats

Stats since 3.0.0 Release
• Lets have another great Xen Summit!