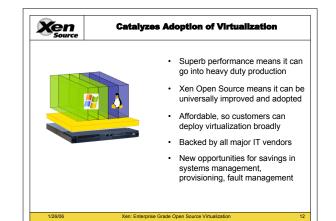
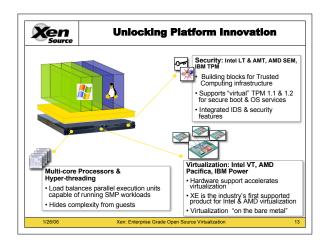


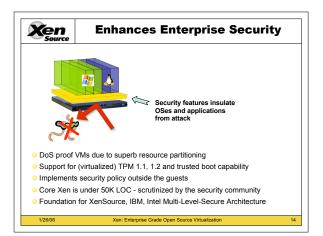
- 15K Downloads since 12/05 release
- Up to 32-way SMP guest OSes
- Uses Intel® VT-x and AMD hardware virtualization to support all OSes
 PAE and x86/64 support
- Itanium (IA64) architecture and VT-i
- Superb performance eg: 0.1% 3.5% overhead for SPECjbb

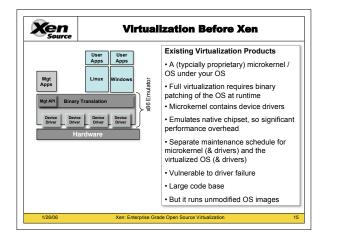
Xen Projects Under Way:

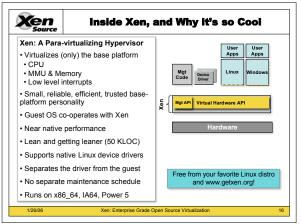
- Para-virtualized Solaris 10 on Xen 3.0 (Sun)
- Power5 (IBM)
- SPARC Port (Sun)
- DMTF CIM hypervisor management (XS, Novell, IBM)

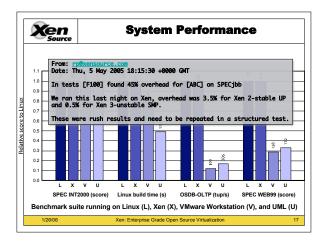


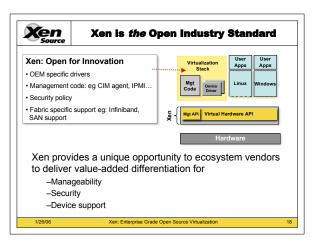


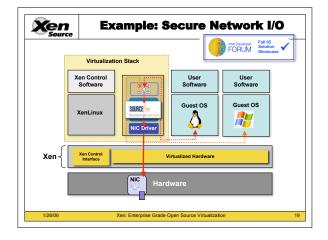


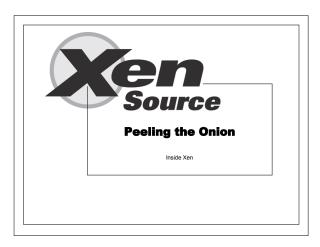


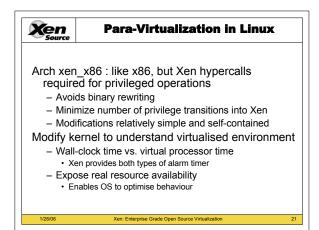


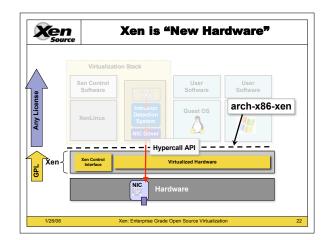












xen x86 CPU virtualization

- Xen runs in ring 0 (most privileged)
- Ring 1/2 for guest OS, 3 for user-space
 GPF if guest attempts to use privileged instr
- Xen lives in top 64MB of linear addr space
 Segmentation used to protect Xen as switching page tables too slow on standard x86
- · Hypercalls jump to Xen in ring 0
- Guest OS may install 'fast trap' handler – Direct user-space to guest OS system calls
- MMU virtualisation: shadow vs. direct-mode

