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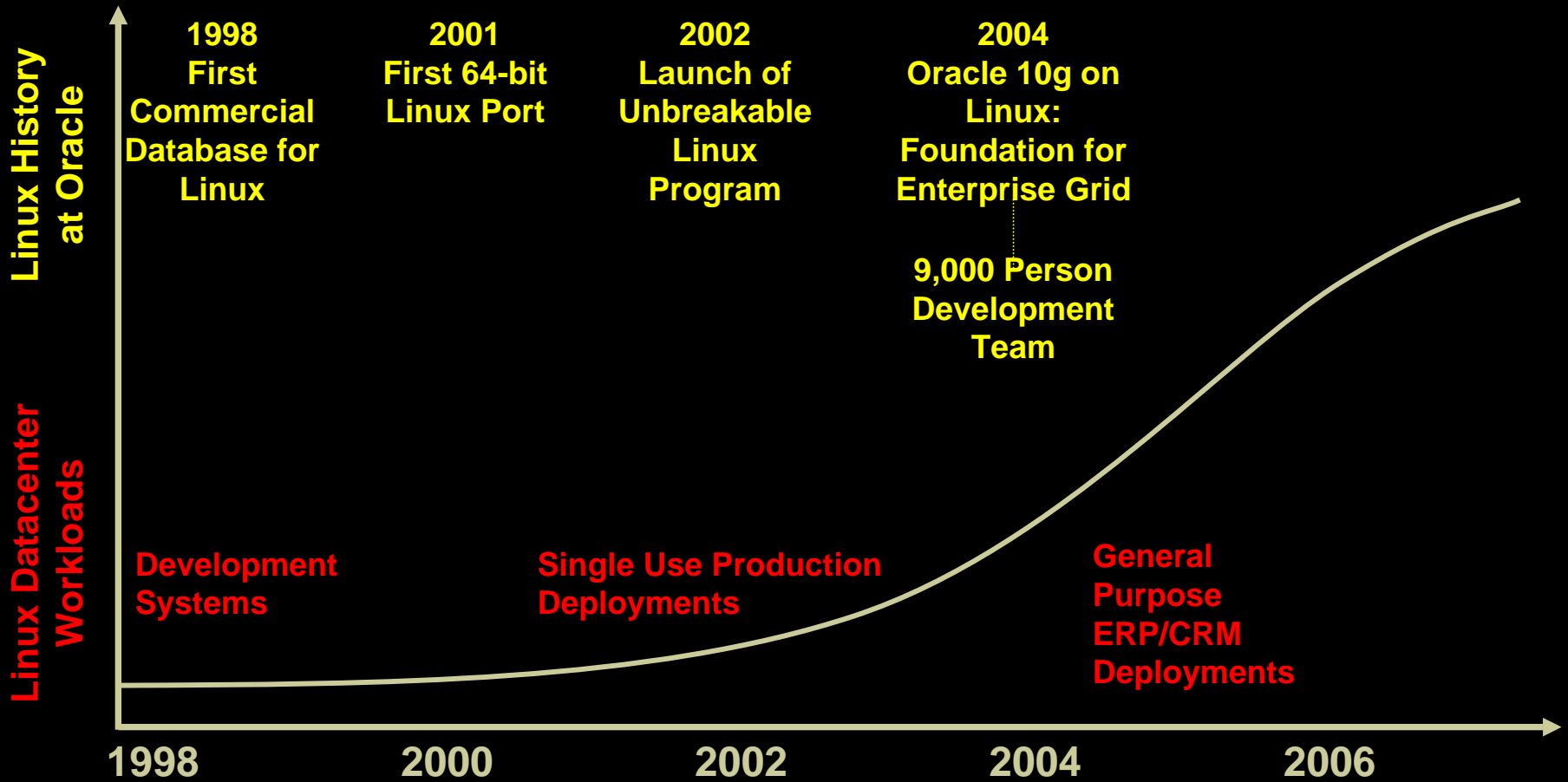
Oracle on Linux
April 2005

Agenda

- Oracle's Linux Commitment
- The True Linux Opportunity
- Proof Points & Resources
- Q & A

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Evolution of Linux

Oracle: Ahead of the Curve

Linux History at Oracle

Linux Datacenter Workloads

1998
First Commercial Database for Linux

2001
First 64-bit Linux Port

2002
Launch of Unbreakable Linux Program

2004
Oracle 10g on Linux: Foundation for Enterprise Grid

9,000 Person Development Team

Development Systems

Single Use Production Deployments

General Purpose ERP/CRM Deployments

1998   2000   2002   2004   2006

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Oracle's Linux Strategy – Unbreakable Linux

Technology Leadership	• **Product Availability**: All Oracle products available on Linux • **Security**: Oracle Database on Linux meets EAL4 • **Performance**: Industry leading benchmarks for Oracle products on Linux • **Kernel Enhancements**: performance, reliability and manageability enhancements to Linux • **Open Source Contributions:** E.g., Oracle Cluster File System
Support Leadership	• Only vendor to provide support for the entire software stack, including Linux
Market Leadership	• Leads RDBMS on Linux market with 69% market share (source: Gartner Group) • Key partnerships with Linux OS vendors and OEMs

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Technology Leadership

- Contributes to open-source under GPL
  - e.g. Oracle Cluster File System
- Works with Novell, Red Hat and the open source community to drive features into Linux
  - Improved performance (I/O throughput)
  - Improved memory utilization
  - Improved I/O & SMP scalability
  - Improved reliability
  - Improved manageability & clustering
- 64-bit Computing

Performance Leadership

Overall Clustered World Record on TPC-C

1,184,893 tpmC

ORACLE 10ᵍ DATABASE

16X4-way

As of March 18, 2005: Sixteen-node HP Integrity rx5670 server cluster, each with 4 Itanium® 2 1.5 GHz processors, 1,184,893.38 tpmC, $5.52/tpmC, available April 30, 2004.

4-way World Record on Linux TPC-C

161,217 tpmC

ORACLE 10ᵍ DATABASE

As of March 18, 2005: HP Integrity rx4640, (Oracle Database 10g Standard Edition), 161,217 tpmC, $3.94/tpmC, available December 7, 2004.

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Source: http://www.tpc.org

Linux Support Leadership

- Only Oracle offers seamless support for the entire software stack
- Direct support of Linux worldwide
    - Linux kernel enhancements and fixes provided by Oracle
    - Red Hat Enterprise Linux
    - Novell/SuSE Linux Enterprise Server
    - Asianux
- Single point of solution for support
- Linux Kernel Team at Oracle

Unbreakable Linux
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Supported Architectures

- Intel IA-32 (Intel Architecture)
- AMD Opteron/ Intel EM64T
- Intel Itanium2
- Linux for IBM zSeries
- IBM Power
    - Developer's Release
    - Production, coming with 10g R2

Supported Oracle Products

- All key Oracle products run on Linux
  - Oracle Database
  - Oracle Application Server
  - Oracle Developer Suite
  - Oracle Collaboration Suite
  - Oracle E-Business Suite

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Certified Linux Distributions

- Red Hat Enterprise Linux AS and ES (RHAS 2.1; RHEL3, RHEI4)

- Novell SuSE Enterprise Server (SLES8; SLES9)

- Asianux 1.0 and 2.0 (APAC)

Linux Roadmap

	Currently supported:	Q2CY05	Q3CY05	Q4CY05	Q3CY06

OS versions

•RH 2.1
•RHEL3/4
•SLES8/9
•Asianux 1.0

SLES10 Beta1 (08/11)
SLES10 Beta2 (08/18)
SLES10 Beta3 (08/25)

SLES10 Beta4(09/08)
SLES10 Beta5(09/22)
SLES10 Beta6 (10/06)
SLES10 RC1 (10/20)
SLES10 RC2 (11/03)
SLES10 RC3 (11/17)

RHEL5

Updates
Service Pack

**SLES10 GM
(12/01 – GA
Feb 06)**

SLES8 SP4 (03/18)
SLES9 SP1 (01/05)
RH 2.1 U6
RHEL3 U4

•RH2.1 U7 (04/27)
•RHEL3 U5 (05/11)
•RHEL4 U1 (05/25)
•Asianux 2.0

SLES9 SP2 (07/07)

Oracle releases

10.1.0.4 Linux Itanium
10.1.0.4 Linux x86-64

10gR2
All Architectures
Power Linux :
SLES9/RHEL4

Where Oracle sees Linux

- Unix to Linux Migration
  - It is happening
- Standards Consolidation
  - Fewer standardized environments (not fewer servers)
- Linux is a foundation block of Grid computing

Internal Use of Linux at Oracle

- Key internal systems migrated to Linux
    - Oracle.com
    - Oracle Files Online
    - Oracle demo systems
    - Oracle financial systems
    - Oracle development organization
    - Oracle On Demand

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Oracle On Demand

- Over 10,000 servers in ADC
- Serving 250,000+ End Users in over 30 countries
- Adding over 100 servers a week
- 1.5 Petabytes of storage
- Managing all Oracle software

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Oracle on Linux: In the Enterprise

- Amazon.com
- CERN
- Cairns City Council
- Dell
- Electronic Arts
- Golden Gate University
- Indian Railways
- JDS Uniphase
- Lithonia Lighting
- Merrill Lynch

- NetSuite
- POSCO
- PRC
- Shell International
- Telstra
- Texas Tech University
- Unocal
- Vanderbilt University
- Van Shung Chong Holdings
- Western Gas Resource

The True Linux Opportunity

- Change the entire deployment model
- Drive the commoditization of the hardware platform
- Enable standards consolidation
- Deliver a lower operational cost to our customers

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Unbreakable Linux

Dedicated Linux Kernel Team

Oracle On Demand

Global Linux Support in 100+ Countries

Unbreakable Linux

Oracle Runs Its Business on Linux

9,000 Developers

All Oracle Products Available on Linux

Resources

- Websites
    - Technical
        - http://otn.oracle.com/Linux
            - Oracle-Linux technical information
            - Download Oracle products for Linux, 'Best practices' (Oracle & Partner doc)
        - http://otn.oracle.com/support/metalink/index.html
            - Certify website - Oracle product certifications by platform
    - Oracle Cluster File System
        - http://oss.oracle.com
            - download OCFS for Linux
    - Customer references/Marketing/Sales Info
        - http://www.oracle.com/linux