

IBM Software for Linux



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Vice President, Americas Software Technical Sales and Support

November 10, 2005





Agenda

Customer adoption of Linux

- Mission critical workloads and Linux
- Business applications and Linux
- Open computing and Linux
- Why IBM (we do it best)







Businesses Deploying Linux











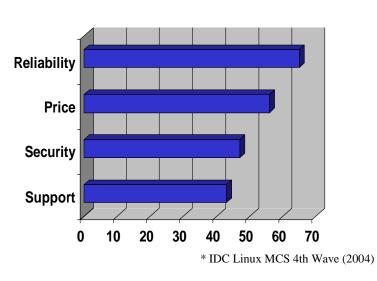




How Linux meets Customer needs

- Linux is about choice and flexibility
- Linux is secure
- Linux is reliable
- Linux performs and scales
- Linux drives business goals
 - Reduce costs
 - > IT Simplification
 - Improve application service levels
 - Promotes innovation
 - Internally change business process and drive contribution to business
- Linux is an excellent path to On Demand Business

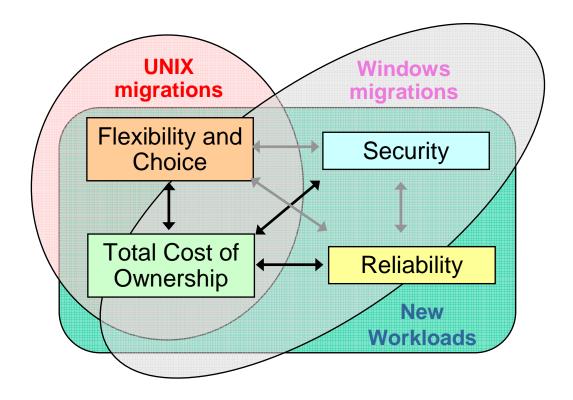
Top buying attributes





Why Customers Are Adopting Linux

- Linux offers UNIX customers the flexibility to choose lower cost hardware
- Linux offers Windows customers increased flexibility and enhanced security / reliability
- Linux offers all customers choice for new workloads through open computing, avoiding lock-in to proprietary hardware or software vendors or architectures







Press and Analysis Perspective

"Linux has the potential to become the dominant platform," said Trolltech, Chief Executive, Harvard Nord. "The technology is ready." (Investors Business Daily)

"People thought this wouldn't work. There are just too many people and companies to hang together. But **now it's clear it does work**," says Mark Blowers, an analyst at market researcher Butler Group. (*BusinessWeek*)

"More and more you will hear about free software, Linux, principally in the government and corporate environments, and less about Windows," Oscar Clarke, head of Intel in Brazil, said at a press conference. "It's an inexorable trend." (Reuters)

"Linux is the first natural business ecosystem," says James F. Moore, a senior fellow at the Berkman Center for Internet & Society at Harvard Law School. (*BusinessWeek*)







Market Perspective: Linux growing in many areas

- UNIX workloads migrating to Linux due to TCO benefits
- Linux use transitioning from infrastructure to business application workloads - 4 or 5 ERP customers migrating from UNIX will move to Linux
- Linux picking up momentum as a development platform
- Linux is introducing heterogeneity to the SMB market
- Emerging countries are hot areas for growth
- Ongoing interest in Linux desktop adoption in public sector and emerging countries





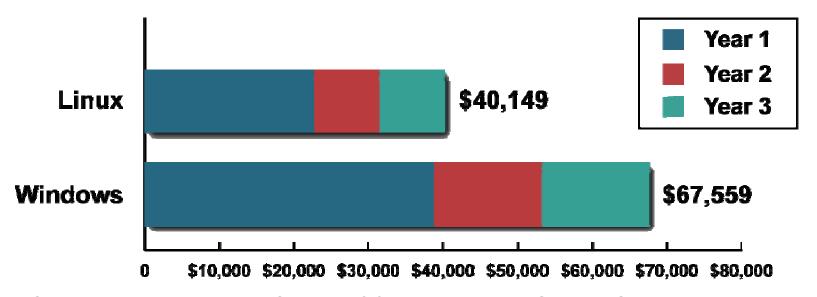
Linux Continues to Deliver Cost Benefits

Linux is 40% less expensive than a comparable x-86 based Windows solution



Based on a 3-year period of ownership for a system supporting 100,000 operations per second on the SPECjbb benchmark

Operating System TCO for Enterprise J2EE



Source: Robert Frances Group: TCO for Application Servers Study, August, 2005



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Analyst Perspective: Linux ready for mission critical workloads

IDC: May, 2005

"The demand for return on investment, leveragability, and support for serviceoriented architecture is right up the Linux alley. A number of large banks and nonbank financial institutions are very interested in achieving these attributes. Linux provides flexibility for the future in a heterogeneous IT environment. In fact, some of the largest financial institutions in the world are now running elements of their mission-critical Internet infrastructures on Linux server farms."

Peerstone: November, 2004

"Linux will unquestionably be the fastest growing server OS in the enterprise applications market for the foreseeable future. During the same time period Unix will continue to decline and Windows Server will stagnate."

Gartner: March, 2005

"The growing maturity of Linux poses a rising threat to Windows. Although this impact has mostly been felt in network edge and infrastructure deployments, Gartner believes that you can now consider Linux as a safe choice for transaction-processing applications and selective database deployments."





Analyst Perspective: Linux ready for mission critical workloads

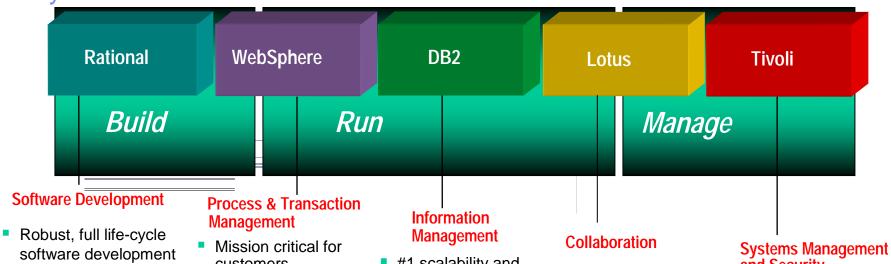
- According to IDC's 1Q 2005 report, Linux server sales grew 35.2% in the first quarter of 2005, three times faster than Windows, marking the 11th consecutive quarter of double-digit growth.
- According to Gartner, in Q1 2005, Linux was the only OS to gain share in unit terms, accounting for one in every five servers shipped.
- Linux is the fastest growing OS in the worlds in terms of unit share, according to both Gartner and IDC.
- A Peerstone Research survey of more than 400 installations from the top three ERP vendors (SAP, PeopleSoft and Oracle) shows that Linux will grow from 2% of the ERP installed base today to 15% by 2007.
- Linux adoption among mid-sized businesses is growing. According to Gartner,
 45 percent of mid-sized businesses are already using or experimenting with
 Linux.





IBM Middleware for Linux

Key enabler of missions critical solutions



- both on and for Linux
- 18 Million Eclipse **Downloads**
- customers
- #1 in Application Server market share
- #1 in Portal market share
- #1 scalability and performance on Linux
- Apache Derby used in 70+ IBM projects
- #1 in Collaboration market share
- New Workplace support for Linux clients

and Security

- #1 systems management provider on Linux
- Broadest and most integrated Linux portfolio



Over 400 Linux Offerings . . .

Linux Product Matrix can be downloaded from:

http://www-306.ibm.com/software/os/linux/software/index.jsp

Evaluation copies of IBM middleware can be downloaded from:

http://www-106.ibm.com/developerworks/offers/linux-speed-start/index.html



Canada Department of National Defense (CDND)

Business Challenge:





- > Produce quality software within a high visibility/impact training environment for the Canadian military
- Develop code quickly and inexpensively
- > Eliminate the need to test manually for memory leaks & bottlenecks
- > Automate support for both Windows and Linux applications

Solution:

- The CDND chose Red Hat Linux running on an IBM server as its development platform. The move to Linux was motivated by a need for a robust, low-cost platform.
- > The CDND implemented Rational PurifyPlus for Windows and for Linux, which automatically scans code for memory leaks and possible performance bottlenecks.
- >The CDND uses the Linux and Rational solutions for both its client and client-server applications.

Benefits of the Solution:

- > Rational PurifyPlus catches problems that manual testing wouldn't, increasing the quality of the CDND's software programs and freeing up the development staff to do other work
- Checking new code for bugs now takes 30 percent less time
- ➤ The CDND reports that it is extremely impressed with the user interface of the Rational product, which reduces the amount of time it takes for users to master the product.









Southside Electric Cooperative uses Linux and WebSphere to Integrate Applications and People

Challenge

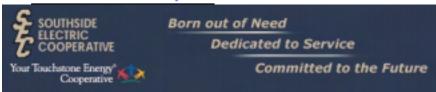
U.S. utility cooperative seeking improvement of responsiveness to service requests with streamlined low of data across its systems

Solution

Linux and WebSphere products aggregate information from separate systems (iSeries and xSeries), giving employees a single, comprehensive, real-time view of customer accounts and dispatch resources.

"This is the single most important [business improvement] we have worked on in the 20 years [that I have been] here." -- Linda Davis, CIO, Southside Electric Cooperative

WebSphere Application Server,
WebSphere BI Message Broker, WebSphere MQ,
WebSphere Portal



Business Benefits:

- SEC has saved time, improved the productivity of its employees and boosted customer satisfaction.
- Reduced average outage time from 8 days to 2 days
- Decreased data-entry time from 30 minutes to just seconds
- Improved consistency and accuracy of integrated data

Technology Benefits:

- SEC was able to integrate a wide range of legacy systems without any re-coding work using IBM's open-standards framework and Linux
- SEC used its existing IT platforms without investing a lot of extra time or effort to make them more user-friendly





Pioneer Petroleums

Challenge

 Needed an efficient and cost effective way to provide retailers with easy access to information from the head office

Solution

 IBM Workplace Messaging solution running on Red Hat Linux platform

Benefits

- Easy-to-use and flexible desktop
- Increased productivity through collaboration instead of faxing information
- Affordable and reliable operating system





IBM Middleware for Linux: Linux Distribution Partners

- Linux is a main tier, strategic platform for all IBM software products
- 2 Strategic LDPs: Red Hat and Novell SUSE
 - RHEL and SLES for servers
 - > RH Desktop/Workstation and Novell Linux Desktop for clients
 - Additional LDPs supported on exception basis in specific geos (for example, Red Flag in China)
- Strategic focus on x86 (IA32/EM64T/AMD64), POWER, and zSeries
 - Focus on 64-bit transition: EM64T/AMD64, POWER, zSeries









IBM Linux Integration Center (LIC)

Helping customers create mission critical solutions using IBM software on Linux



- 7 Locations
- 700+ Customer engagements

Sales and Partner Support

Sales and Partner Support

- Problem determination and resolution
- Customer Pilots and Proof of Concept
- Document best practices

Solutions Enablement

- ISV support
- Partner support
- Solution validation and Tuning
- Drive key features into the Linux community

Solution Enablement Sales and Partner Enablement

Sales and Partner Enablement

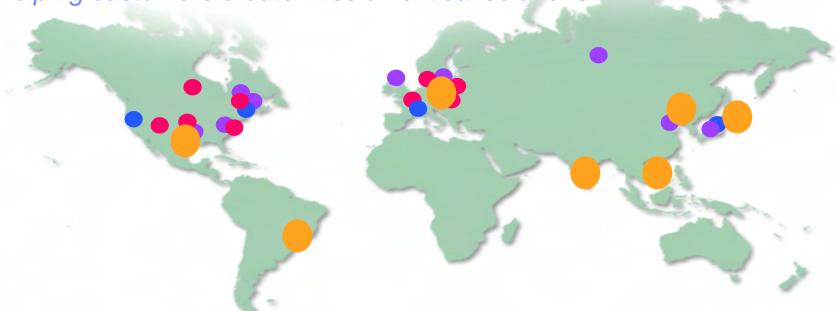
- Technical product documentation
- SW Certification Matrix
- Presentations and workshops





IBM Linux Support Centers

Helping customers create mission critical solutions





IBM Linux Integration Centers

- Austin, TX
- Boeblingen, Germany
- Tokyo, Japan
- Beijing, China
- Sao Paulo, Brazil
- Bangalore, India

IBM Design Centers for e-business on demand

- Poughkeepsie, NY
- Makuhari, Japan
- Montpellier, France
- San Jose, CA

IBM Linux Centers of Competency

- Austin, TX
- Beijing, China
- Boeblingen, Germany
- London, England
- Moscow, Russia
- New York, NY
- Poughkeepsie, NY
- Research Triangle Park, NC
- Tokyo, Japan

IBM Executive Briefing Centers

- Austin, TX
- Boeblingen, Germany
- Greenock, Germany
- Mainz, Germany
- Montpellier, France
- Poughkeepsie, NY
- Research Triangle Park, NC
- Rochester, MN
- Tucson, AZ





IBM Linux Technology Center (LTC)

- 600+ Developers worldwide, 40 locations
- 150+ Open Source Projects
- Critical contributions to current and in-progress versions of Linux
 - "Helping make Linux better"
- Members of the Linux Community
 - Open Source Development Lab (OSDL) and its projects (Carrier Grade Linux, Data Center Linux, Desktop Linux ...)
 - Free Standards Group, including Linux Standards Base and Internationalization
 - Free Software Foundation
 - Technical conferences.....
 - and many more memberships

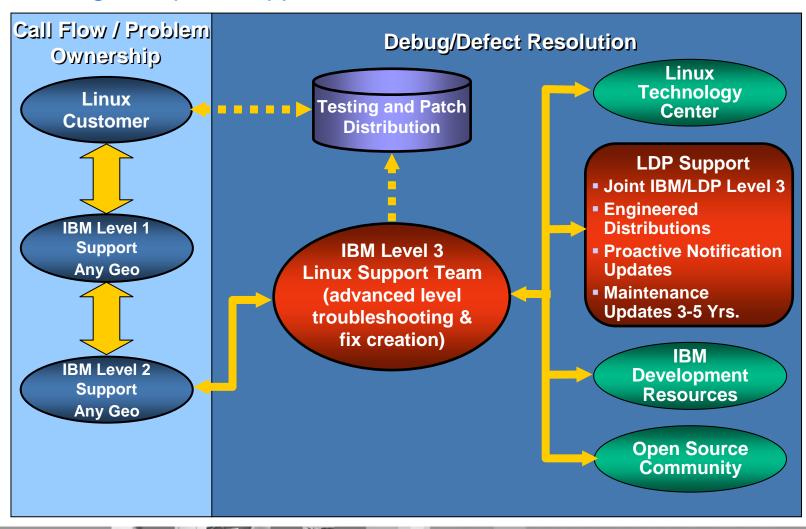






IBM IGS - Linux Support Structure

Providing enterprise support for mission critical workloads





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- Open computing and Linux
- Why IBM (we do it best)







Over 6,000 Linux-enabled ISV applications



65% Leverage IBM SW





IBM's Linux Partner Ecosystem



IBM Business Partner Programs

- Over 6,000 IBM Business Partners
- Leaders for Linux Program
 - Custom co-marketing campaigns
- PartnerWorld Industry Networks
- Solution Builders Express
- Value Networks
 - Creating repeatable solutions
- Chiphopper
 - Porting ISV Applications to OpenPower

IBM Developer Programs

- developerWorks Linux zone
 - Tutorials, Redbooks, best practices, etc.

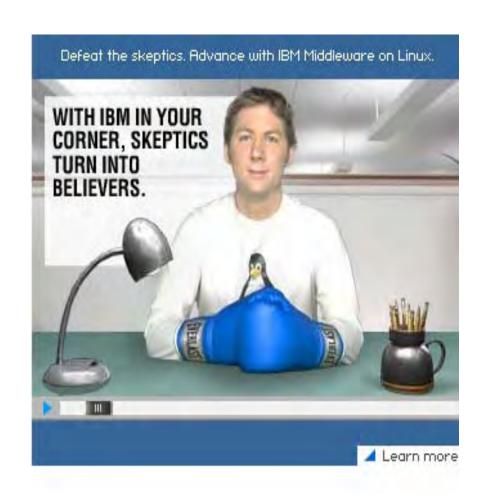






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Open Computing: Staying.....Open for Business

Goals of openness:

- ➤ Flexibility
- ▶ Resilience
- >Avoid vendor lock-in
- Maximize freedom of action

Open standards:

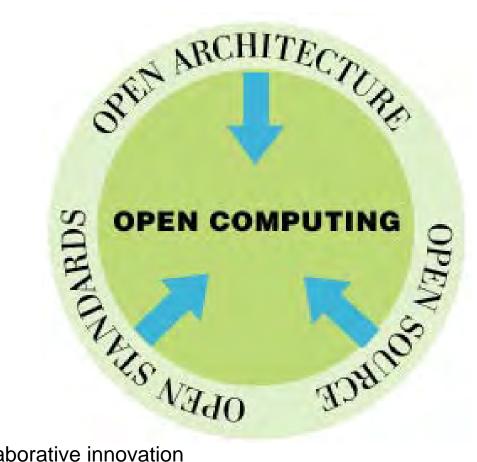
- Promoting interoperability by using open
- > published specifications for API's, protocols, and data and file formats

Open architecture:

➤ Building loosely coupled, flexible, reconfigurable solutions

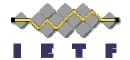
Open source software:

- Promotes standards
- Leverages community development and collaborative innovation





IBM Open Standards Leadership













1998 / 1999

Java, XML

- Author of XML4J
- Co-author W3C DOM
- Chair W3C XSL WG
- Chair OMG XML Metadata Interch. Format
- Founder XML.org
- Elected to OASIS Board of Directors

2000

Web Services & UDDI

Co-author of SOAP 1.1 & submission to W3C, chair of XML Protocol (SOAP) WG Cofounder of UDDI.org and author of original UDDI spec

Co-author of WSDL

2001

Web Services and Tools

- Led submission of WSDL to W3C
- Co-chaired W3C Web Services Workshop
- Founder of Eclipse.org
- Co-author of W3C XML Schema
- Chair OASIS WS Interactive Appls & WS-Remote **PortletsTCs**
- ■IBM Web Services Toolkit released on **Alphaworks**

2002

WS-I, OMA and WS-Security

- Founder and chair, WS-I.org
- Helped found OMA, vice-chair
- Chairs of OMA Browser WG &
- **Device Mamt WG** Co-author of WS business process
- specs (BPEL, WS-TX, WS-TC)
- Co-author for Web Services Security roadmap and specification
- Submitted & cochair OASISWS-Security TC
- Co-chair UDDI TC

2003

Web Services Interoperability

- Co-chair OASIS WS-Security 1.0
- Submitted BPEL to OASIS and cochair TC
- Co-chair OASIS WSDM TC
- Submitted CBE & WS-Manageability to OASIS
- Chair of OMA Architecture Framework
- Merged SyncML Forum into OMA
- Member of OASIS Technical **Advisory Board**

2004

Web Services Management

- Chair WS-I Basic Profile 1.1
- Co-chair OASIS WS-Notification TC & WS-Resource Framework TC
- Chair OASIS DITA
- Submit WS-Addressing to W3C
- IBM appointed to W3C TAG
- Vice-chair OMA mobile commerce
- •Co-author of OMA architecture
- Led WS-Security. and WS-I Basic Profile 1.0 to completion as Standards

2005

Web Services Reliability

- ■IBM named to chair of IETF and **IESG**
- IBM declares commitment to RF in OASIS
- Co-authored & submitted WS-Reliable Messaging to OASIS
- Led OASIS WSDM to Standard status
- Led OASIS DITA to Standard status

Over 160 business integration technology patents

First Web Services Gateway

First integrated private UDDI directory



Why does IBM consider Open Source important?

Can be a major source of innovation

- ➤ Innovation can happen anywhere any time
- Development through "open communities" leads to potentially broad ideas & creativity

Community Approach

- ➤ Internet has changed how enterprises address technical innovation
- Enterprises engaging early on
- Shapes IBM technical leaders thinking & approach to broad collaboration

Good approach to developing emerging standards

- Popular Open Source projects can become de facto / open standards
- ➤ Wide distribution/deployment

Enterprise customers are asking for it

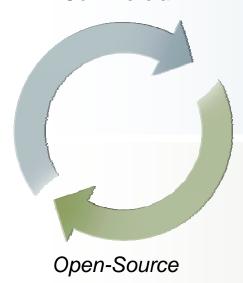
- Increase choice & flexibility adoption/use of open source can reduce time to market
- Example want Linux to be part of an overall, vendor-supplied and supported total solution





Open-Source and Commercial Software co-exist

Commercial



Creating software that is closed-source and <u>innovative</u> - intended to <u>differentiate</u> the vendor and deliver value to the client.

Creating, maintaining, and enhancing software through open, collaborative communities driving standardization and innovation.

The Industry is Seeking a New Equilibrium





Linux is an excellent example of how Open Source Software can rapidly mature to become a key IT and business enabler

 A "Unix-like" Operating System that is community developed with the source code being readily available

Robust functionality and scalability

- Solid stability and security
- Lightweight and modular



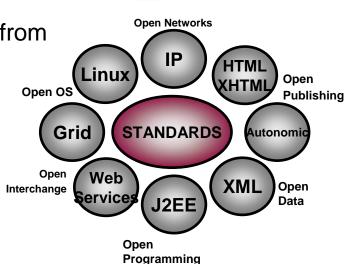
 Generally acquired on a support subscription basis from Linux Distribution Partner: Novell or Red Hat



29



"Linux will do for applications what the Internet did for networks." - Irving Wladawsky-Berger



pSeries

Clusters

PDAs

xSeries

Notebooks

Desktops

POS

Intel Servers





IBM is a Leader in Open Source









1999 / 2000

- IBM forms Linux **Technology Center**
- Leads Apache projects Xerces (XML4J), Xalan, SOAP
- IBM forms Open Source Steering Committee
- Creates OSIapproved IBM Public License
- Strategic participation in Mozilla
- IBM becomes founding member of OSDL

2001

- Linux contributions to networking. serviceability, performance
- Mods to Apache 2.0 HTTP server
- Founder of Eclipse.org contributing Platform
- Common Public License approved used by Eclipse
- Creates internal bazaar using OSS methodology

2002

- Linux contributions to scalability (8way+), reliability (stress testing, defect mamt, doc)
- Leads Apache Web Services projects WSIF and WSIL
- Leads Eclipse projects GEF (editing), EMF (modeling), XSD (XML Schema)
- IBM contributes eServer support for Globus Toolkit 2x

2003

- IBM and SuSE achieve EAL2+ Common Criteria security cert
- Leads Apache projects Pluto (Portlet API) and WSRP4J (Remote Portal)
- Leads Eclipse projects Hyades (testing), Visual Editor, AspectJ, Equinox rich client
- Globus Toolkit 3 contributions for OGSA, OGSI

2004/2005

- IBM and Novell/SuSE achieve EAL4+ and Common Operating **Environment compliance**
- Eclipse becomes independent org IBM contributes UML2, Web Tools, Voice Tools
- Globus Toolkit 4 to be WS-I compliant
- Contributed 500 Patents to Open Source
- Partner with Zend PHP
- IBM enhances Apache partnership
 - Incubates project Derby (Cloudscape Java database)
 - Contributes voice recognition technology
 - Supports Geronimo J2EE project
- acquires Gluecode for skills

More than 1000 developers involved in OSS projects

IBM leads 80+ OSS projects

IBM contributes to 150+ **OSS** projects



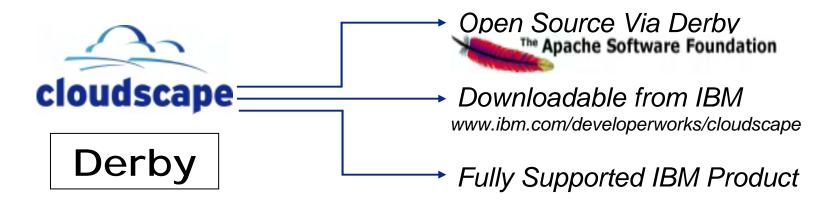






IBM Cloudscape

Simplifying database application development and deployment



Fully Embeddable or Server-based



Small Foot Print



Java Based



PHP/Perl Access



No DBAs



Upwardly
Compatible with DB2.



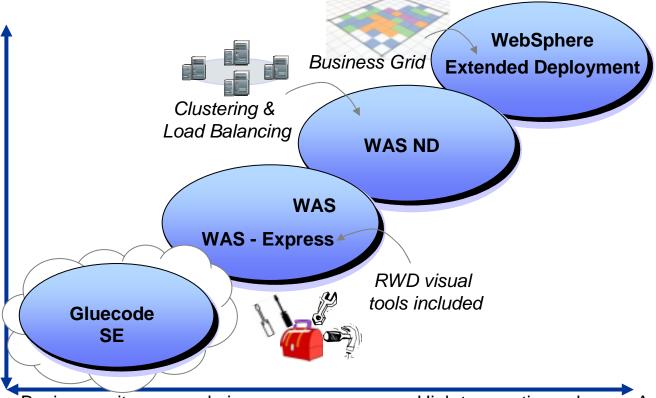
IBM's Application Server Offerings

Gluecode takes IBM's application server portfolio into new markets...

Proven performance / scalability, enterprise wide deployment, functional depth, robustness

Customer Needs

Reduced acquisition costs, rapidly develop & deploy departmental application, grow incrementally, small footprint



Basic security, easy admin & deployment of single app; Low transaction volumes; Editors NOT visual tools

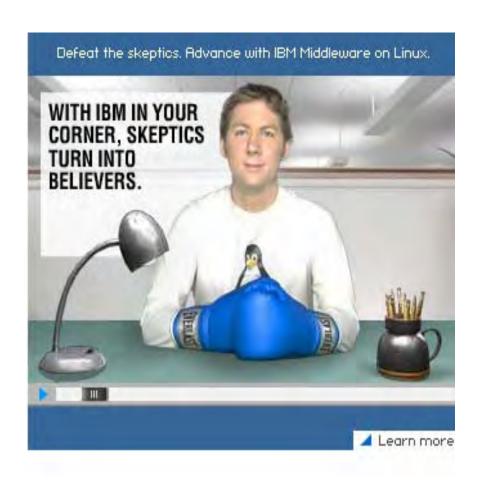
Capabilities

High transaction volumes, Autonomic app deployment, business goal based app prioritization, optimized resource utilization



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- Business applications and Linux
- Open computing and Linux
- Why IBM (we do it best)







IBM continues to invest in Linux throughout the corporation

Worldwide Porting Centers





Linux Technology Center







WW Competence Centers



OSDL

Products









Linux Enabled Business Partners



Linux: Transforming IBM's IT Infrastructure

Providing Key Business Solutions

- 3,100+ Production Servers, Worldwide
- 300mm Wafer Manufacturing Automation & Equipment Control
 - 200+ production xSeries
- IBM's Application Hosting Environment's HTTP workload
 - 21 Blade servers
- IBM's Special Events Infrastructure (e.g. Wimbledon)
 - 291 xSeries servers running Linux in 3 clusters, in 3 data centers
- IBM Global Services Internet Vulnerability Security Scanning
 - 120 xSeries servers scanning 30K IP addresses/week
- IBM's Web Fountain Advanced Mining Application Service
 - Development environment of 326 servers
 - Production environment of 616 servers, including 398 Blade servers
- and more



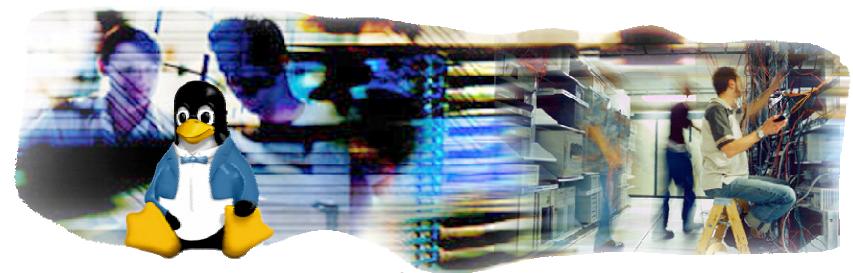


Unstoppable Linux

Linux passes the inflection point

A safe choice for customers

Unleashing Innovation Pervasive in business



IBM Your Partner of Choice

- Enabling the On Demand Infrastructure
- Industry leadership in Linux and OSS
- Strong offerings in software and hardware
- Investing not only in Linux, but in industry specific application solutions and partner support
- Tying it all together with support and services
- IBM does IT ALL... IBM does it best





Summary

- Customer adoption of Linux
- Mission critical workloads and Linux
- Business applications and Linux
- Open computing and Linux
- Why IBM (we do it best)







Back-up

- SW Brand charts
- Linux on the Client





The IBM Rational Software Development Platform

Accelerates software development on and for Linux



Analyst

WebSphere Business Integration Modeler & Monitor

> Rational **Software** Modeler



Architect

Rational Software Architect



Developer

Rational Application Developer

Rational Web Developer

> Rational **PurifyPlus**



Tester

Rational **Functional** Tester

Rational **Manual Tester**

Rational **Performance** Tester



Deployment Manager

Tivoli Configuration Manager

Tivoli **Monitoring**

Customer **Extensions**

ECLIPSE

3rd Party **ISV Tools**



Project Manager

- Rational Unified Process
- Rational ClearCase
- Rational ClearQuest
- Rational RequisitePro Web
- Rational TestManagerRational ProjectConsole



Rational Portfolio Manager









WebSphere Offerings on Linux

An integrated part of the leading middleware software and support offerings from IBM Software Group

- Product Leadership in All Categories
- Most Comprehensive Integration Platform



WebSphere Portal

A single point of personalized interaction with applications, content, processes and people



WebSphere Commerce

Powerful sell-side solutions to handle the challenges encountered in customer and trading partner environments.



WebSphere Everyplace

Software for extending e-business applications to mobile devices



WebSphere Voice

Software for enabling natural voice interactions with applications and data

- Reliability, Security & Scalability
- Modular, Incremental & Adaptable
- Open Standards Leadership



WebSphere Business Integration

Software needed to model, integrate, automate, and manage efficient and flexible business processes



WebSphere Information Integration

Software for delivering accurate, consistent, timely, and coherent business information



WebSphere MQ

Software to connect internal and external applications to exchange information reliably and securely



WebSphere Host Integration

Software to leverage and extend legacy assets for new e-business solutions



WebSphere Application Server

A high-performance and extremely scalable transaction engine for dynamic e-business applications





IBM Information Management Portfolio on Linux

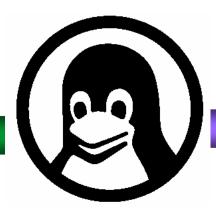
IBM offers the most comprehensive information management infrastructure on Linux

Database Server and Tools

- Build the foundation for information on demand to meet the full range of your business needs
- DB2 Universal Database
- Informix IDS
- Cloudscape (Derby open source)
- DB2 Everyplace (mobile)

Business Intelligence

- Gather, manage and analyze information providing real-time insight into your business
- DB2 Data Warehouse Edition
- DB2 Alphablox
- DB2 Entity Analytics (SRD)



Content Management

- Capture the value of all information contained within multiple content types
- DB2 Content Manager
- DB2 Document Manager
- DB2 Commonstore

Information Integration

- Collect and integrate diverse and distributed information across your enterprise
- WebSphere Information Integrator
- WebSphere OmniFind
- WebSphere DataStage (Ascential)

DB2. Information Management Software





IBM Workplace Family on Linux

A family of products, technologies and solutions for transforming the way people work



BM WebSphere Everyplace

Products, solutions and technologies that integrate collaboration, portal and productivity capabilities based on open standards

Market leading messaging, collaborative application development and collaboration products

Integrated access to people, information, applications and business processes in a single role based interface

Mobile access to applications, information and people





Tivoli Software on Linux

An integrated part of the leading middleware software and support offerings from IBM Software Group – **Over 40 Products Supporting Linux**

IT Process Managers IBM Change and Configuration Management Database Technology Products Best Practices and Implementation Support

Key IBM Tivoli Software Products



Tivoli Provisioning Manager

Reduce IT administration costs, improve infrastructure utilization, and reduce management complexity by automating manual and repetitive datacenter change management tasks



Tivoli OMEGAMON® for Linux & Tivoli OMEGAMON DE

Integrate Linux with all systems and applications to see and manage the entire enterprise from a single point of control



Tivoli System Automation for Multiplatforms

Provides Mainframe-like High Availability/Failover and Application Automation for Linux servers, middleware, and applications



Tivoli Access Manger for Operating Systems

Combines full-fledged intrusion prevention—host-based firewall, application and platform protection, user tracking and controls—with robust auditing and compliance checking



Tivoli Storage Manger

Protectc your organization's data from failures and other errors by storing backup, archive, space management and bare-metal restore data, as well as compliance and disaster-recovery data in a hierarchy of offline storage





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Clients Becoming Increasingly Heterogeneous

Enterprise desktops becoming heterogeneous

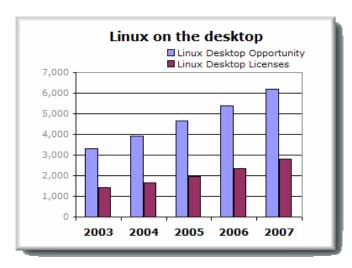
- Linux desktop market will grow at 37% CAGR from '03 – '07
- Linux desktop install base approximately 10M in '04

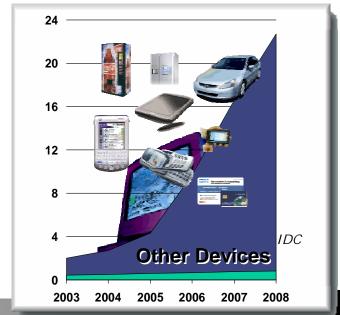
Desktop usage extending beyond browser applications

- Richer GUI will be required for certain applications
- Disconnected application

Expanding role of mobile devices

 Increased need for access to people, business processes, applications from a wide spectrum of devices, user types and forms of connectivity







Managed Client

FRONT-END INTEGRATION

BACK-END INTEGRATION

IBM WORKPLACE





Rich client



Browser



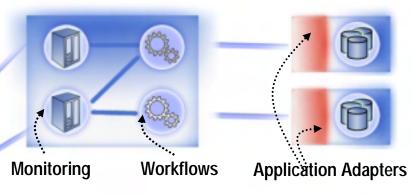
Mobile Clients

Business Context& Activities

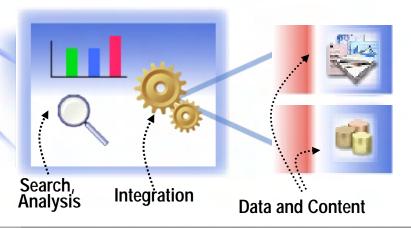
Collaboration Services

Interaction & Access Services

Managed Client Services



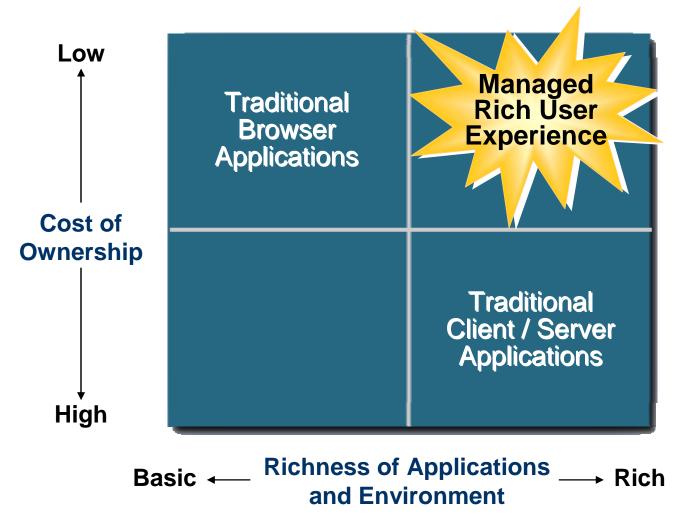
INFORMATION







Challenge: Achieve Rich Functionality at Low TCO



Goal: Rich portalbased applications enhanced with rich user experience

Rich, Windowscentric applications with connection to network, server resources e.g. Office, Notes





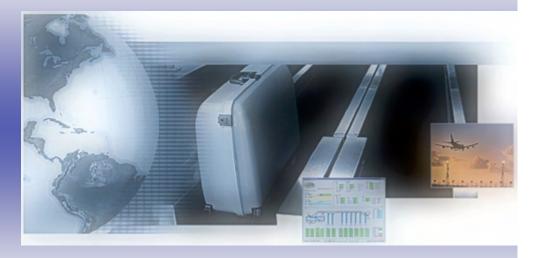
Glidepath

Staying operational — longer Mail System remains 'fail-safe' 24x7

"One of the problems with Microsoft Exchange is that it is constantly being attacked by viruses and I found it difficult to keep the system secure ... nothing ever attacked the Linux server so we decided to drop Windows altogether and have both servers running the Lotus Notes, Domino and Linux combination."

-- Ray Welburn IT Manager. Glidepath











"IBM Tivoli System
Automation for Linux
helped us cost-effectively
deliver the 99.99 percent
availability that customers
demanded... The cluster
technology provides
mainframe-like highavailability to the IBM
eServer with Linux
distributed environment."

— Andreas Walter, IT Manager, Proximity Group Germany

Proximity Group Germany



Business Challenge

Strengthen market position, expand services cost-effectively.

Business Benefits

- Increased service revenue, strengthened market image, and maintained SLA compliance by consistently delivering 99.99 percent availability of hosted services.
- Reduced total cost of ownership of data management by 75 percent as compared to competitive solutions.
- Avoided a 25 percent increase in support personnel through improved staff productivity.
- Reduced implementation time for new hosted services with out-of-the-box automation.

Solution

A high availability, fault tolerant Web hosting center based on IBM eServer xSeries systems running Linux; IBM DB2 Universal Database Workgroup Edition for Linux; Tivoli System Automation for Linux; Tivoli Storage Manager.





Grohe excels with DB2 and Linux for their SAP solutions

Application	Enterprisewide ERP and CRM mobile sales solutions for global faucets and fittings manufacturer
Business Benefits	Substantial savings due to economies of scale and elimination of costly resource duplication; more effective business decisions through unified enterprisewide business view; heightened productivity and efficiency for sales force; increased customer satisfaction
Solution	DB2 Universal Database



Founded in 1936, Grohe has grown into the leading brand for high-quality water fittings and holds 10 percent of the global market in sanitary products and systems.

"The choice of Linux for Grohe's IBM and SAP CRM solution was a key strategic decision. Linux offers far-reaching advantages in cost and performance, and we are impressed with IBM's clear commitment to maximize those advantages for its customers. The combination of DB2 with xSeries on Linux offers the best performance, reliability and manageability available for our CRM environment."

-- Bernd Morlock, Computer Scientist for SAP System Platforms, Grohe AG & Co. KG

