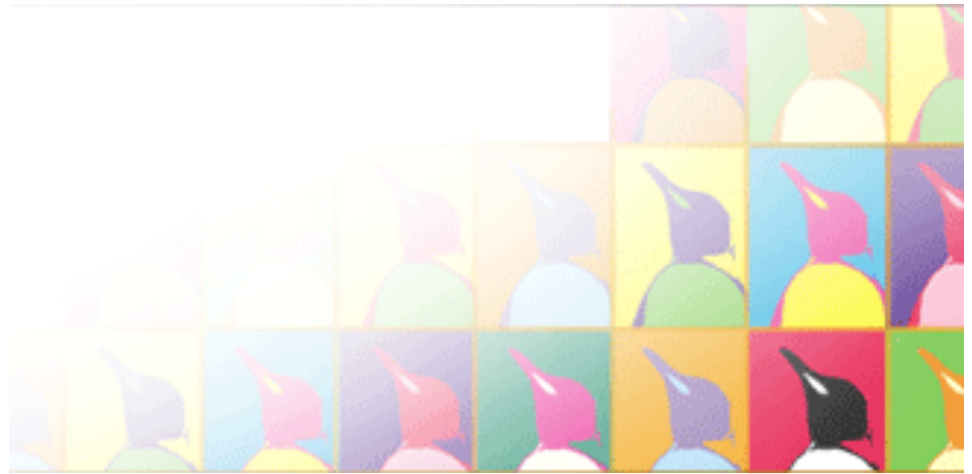


# IBM embraces Open Source in its products



## Open Source is part of Open Computing

- **Open source**

Promoting innovation by leveraging community development

Accelerating open standards adoption

- **Open standards**

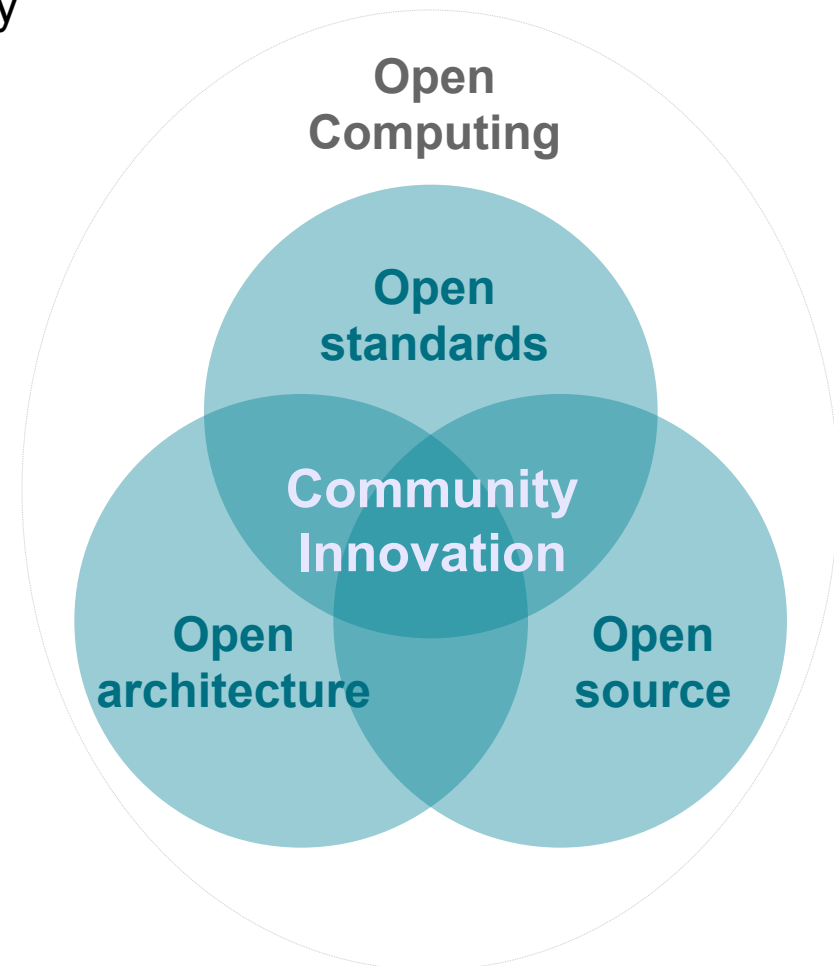
Improving information sharing by simplifying integration of disparate technologies

Promoting interoperability by using open published specifications

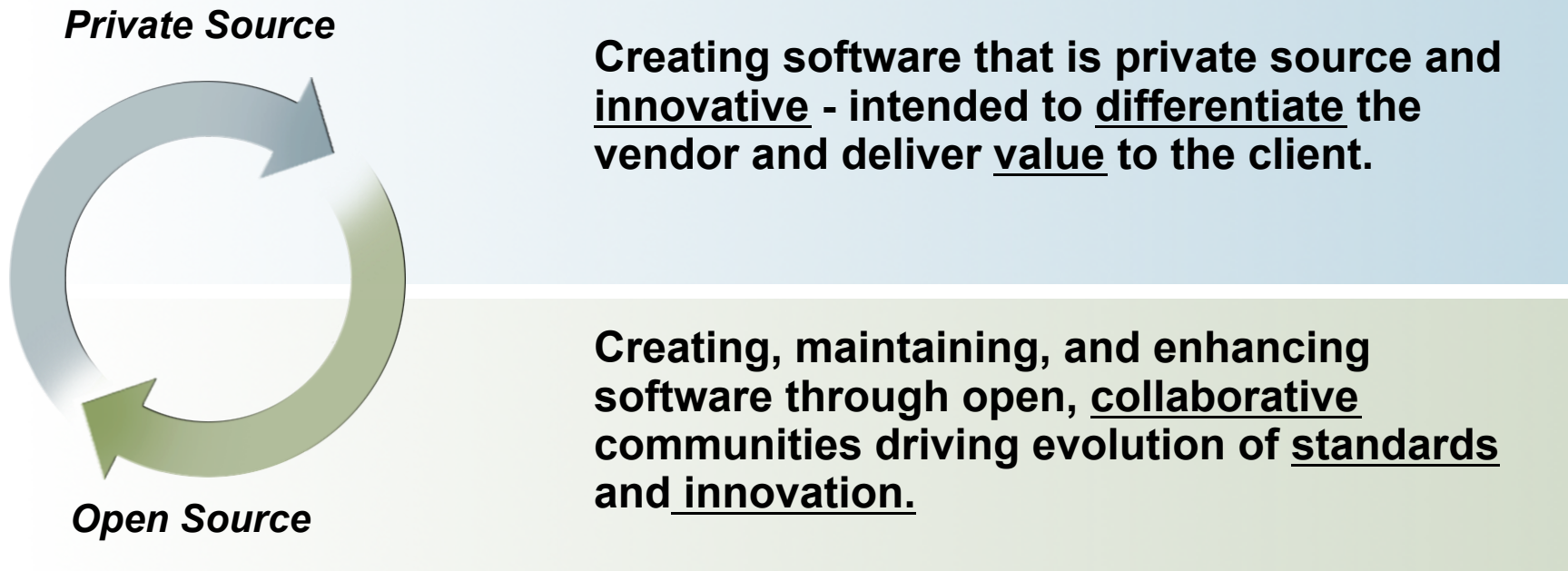
- **Open architecture**

Increasing collaboration by easily extending business processes – e.g. SOA

Innovating on top of common hardware specifications



# Customers use both Open Source and Private Source



The Industry is Seeking a New Equilibrium

# Customers see benefits and challenges in open source

## Potential Customer Benefits

- Low acquisition cost
- Frictionless access to software
  - Light weight and easy to use
  - Rapid prototyping
- Choice and Flexibility
  - Hardware portability and software flexibility
  - Modularity and extensibility
  - Range of support options
- Quality of software
  - Peer review of source code
  - Broad community testing
  - Fast cycle time of releases and bug fixes
- Community innovation
  - Opportunity for interaction with developers
  - Open user community support and features
  - Harvest commoditized components and use freed-up resources for innovation

## Potential Customer Challenges

- Support
  - Direct product contacts
  - Ensured support in emergency
- Integration
  - with other open source software
  - with commercial software
- Skills
  - Qualified Specialists for certain products/areas
- Availability of applications
  - Timeline for production ready drops
- Maturity
  - Enterprise requirements gap (Functionality / Scalability)
  - Community / Industry support
  - Sustainability of business model
- Too many choices
  - Consultancy for optimal solution

## IBM and Hardware Open Communities

Open Communities HW

# Power.org & IBM POWER-based systems

**Open  
Hardware Platforms**



2006: Freescale Semiconductor joins the Power.org Board of Directors

- Innovate: Power Architecture Technology
  - Instruction set architecture that spans applications from consumer electronics to supercomputers
  - Enhanced platform for collaborative hardware innovation
- Contribute: Power.org
  - Develop, enable and promote Power Architecture technology as preferred open standard hardware development platform
  - Qualification programs that optimize interoperability and accelerate innovation
- Enhance: IBM POWER microprocessors plus Accelerators
  - PowerPC, POWER4, POWER5, POWER5+, CELL
- Growth: multi-platform advantage
  - IBM System p, IBM System i, Intellistation, Blue Gene
- Power Architecture Advisory Council Release Newly Merged ISA
  - Power ISA™ 2.03 offering more capabilities to enhance processing capabilities and ensure more consistency and scalability across implementations
- Power Technical Working Group Releases First Open Platform Specification
  - Power Architecture Platform Reference (PAPR) Enables rapid development of standard Power Architecture platforms based on Linux® operating system
- Formed Power Brand Advisory Council and Released Independent Community-Driven Power Brand Platform
  - Introduces a community-driven brand platform to help developers and ecosystem members build awareness and preference for Power Architecture offerings and solutions.

- Hot topics covered in seminars
- Heterogeneous processors
- Hybrid Systems
- Big Data



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"Heterogeneous Processors, Hybrid Systems and Big Data"  
May 24, 2012  
10:00 AM Central, 8:00 AM Pacific Time

**IBM Webinar on " BIG DATA" - 24 May 2012**

**\* [CLICK HERE FOR RESERVATION](#) \***

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**WIND RIVER**

Wind River is the global leader in Device Software Optimization (DSO). Wind River enables companies to develop, run and manage device software faster, better, at lower cost and ...

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# Globus Alliance and IBM Grid Offerings

Open  
Grid Offerings

- Innovate: Grid computing
  - Virtualization of resources across heterogeneous and dispersed environments
  - Seamless access to vast IT capabilities through single systems image
- Contribute: Open Grid Services Architecture (OGSA)
  - Open set of standards and protocols
  - Being developed by Open Grid Forum (formerly GGF)
  - Based on web services standards
- Enhance: Globus Toolkit
  - Globus toolkit – open source “grid middleware” software toolkit  
*(focus on infrastructure for security, batch job management, resource discovery etc.)*
  - Open source community developing fundamental grid infrastructure  
*(many projects, prototypes, research etc.)*
  - Partnership with Univa for Globus Toolkit on IBM platforms  
*(Globus toolkit on X, Z and P – Linux)*
- Growth: IBM Grid Offerings and Services
  - Products & services designed to develop grid solutions  
*(Grid & Grow, Analytic Infrastructure, Actuarial Grid, Grid Medical Archive etc.)*
  - DB2 and WebSphere Grid offerings
  - Grid consulting and support servers

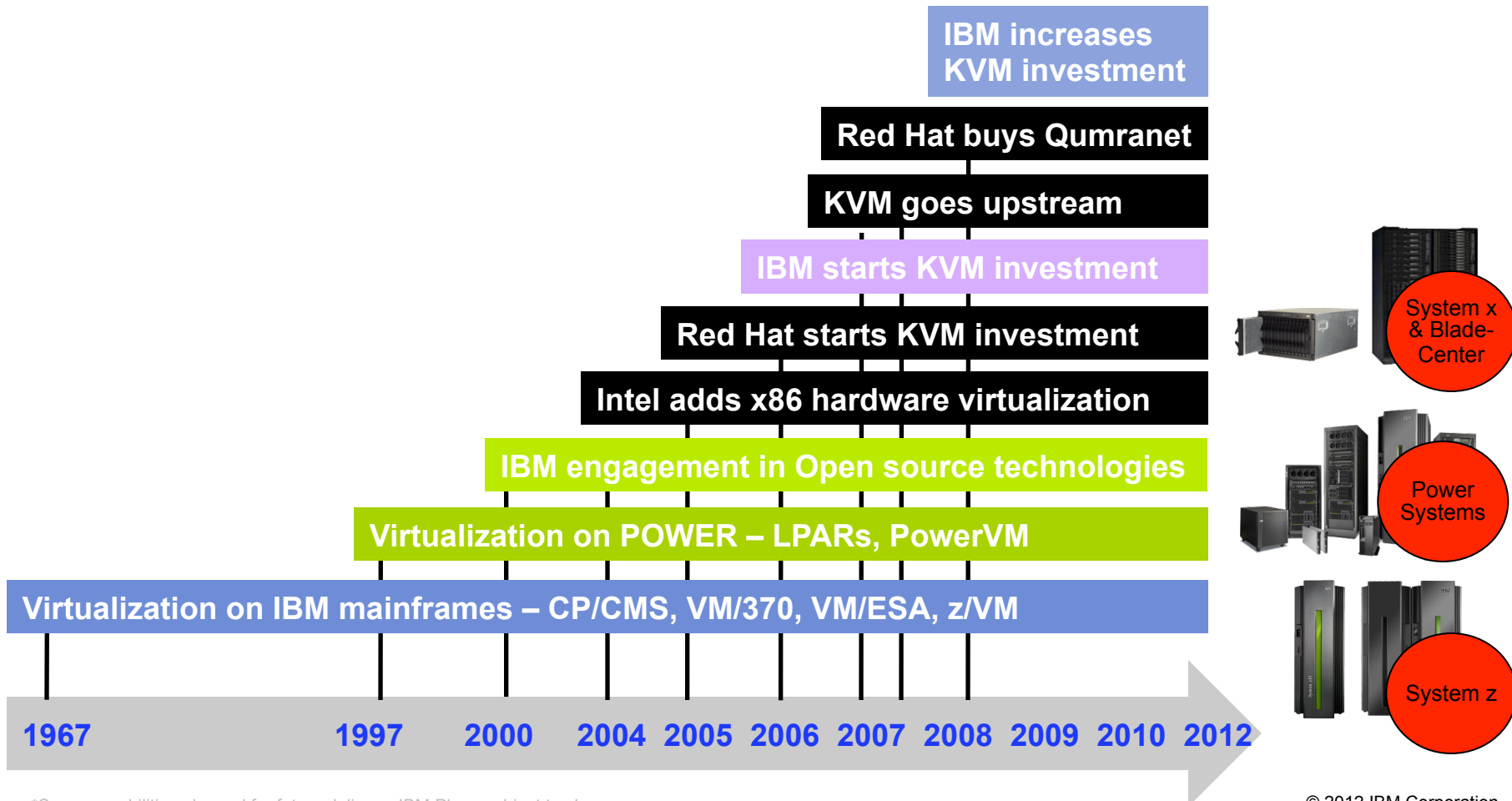


Univa



## A Brief History of IBM and Virtualization

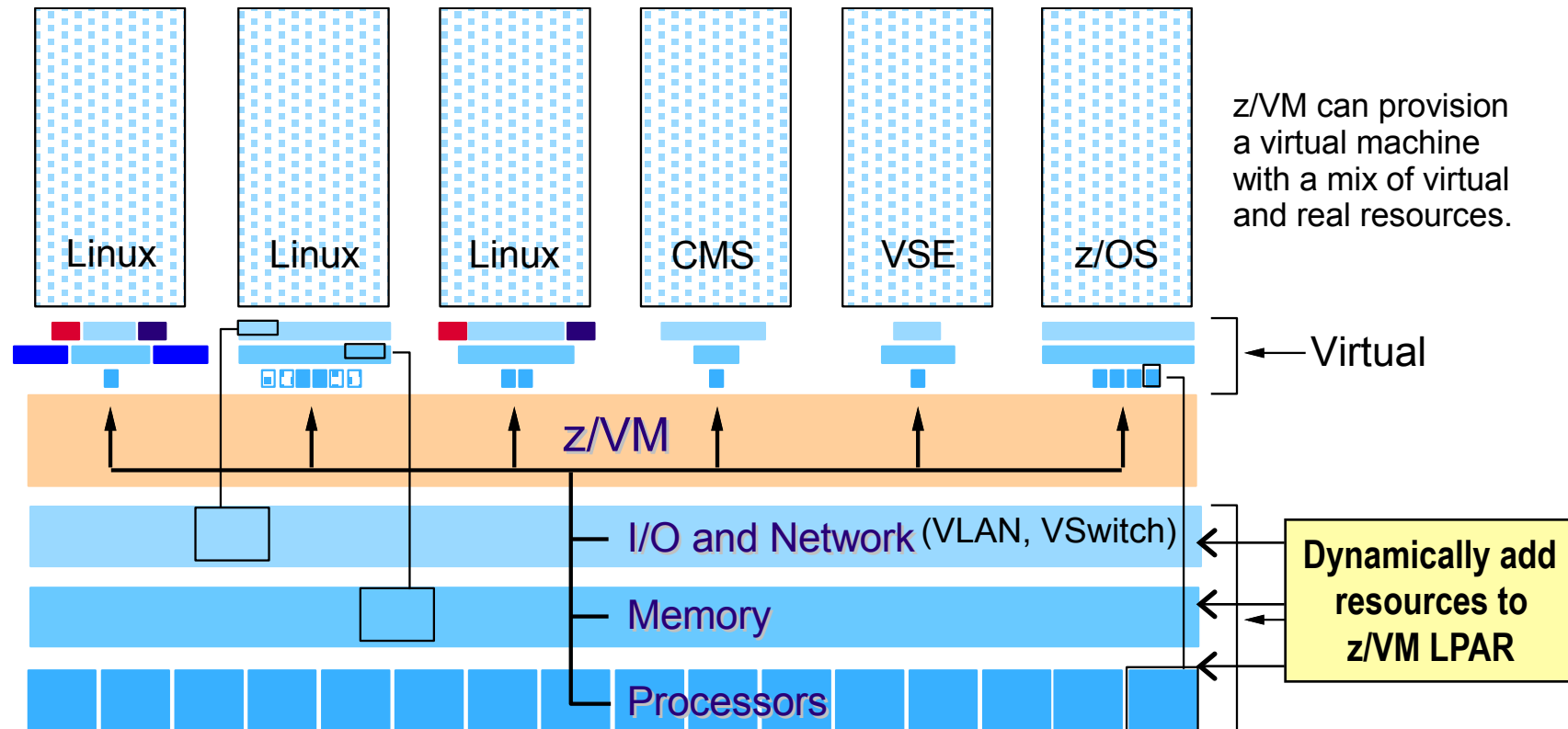
*IBM has 44 years of experience in virtualizing our servers. Virtualization was originally developed to make better use of critical hardware. Hardware support for virtualization has been critical to its adoption.*



# Virtualization in System z and zEnterprise

## z/VM Technology: Share everything

- z/VM simulates the existence of a dedicated real machine, including processor functions, storage, and input/output resources.
- z/VM includes network Virtualization, high availability and integrated security between VMs
- It supports uniquely, **over commitment on all levels**.



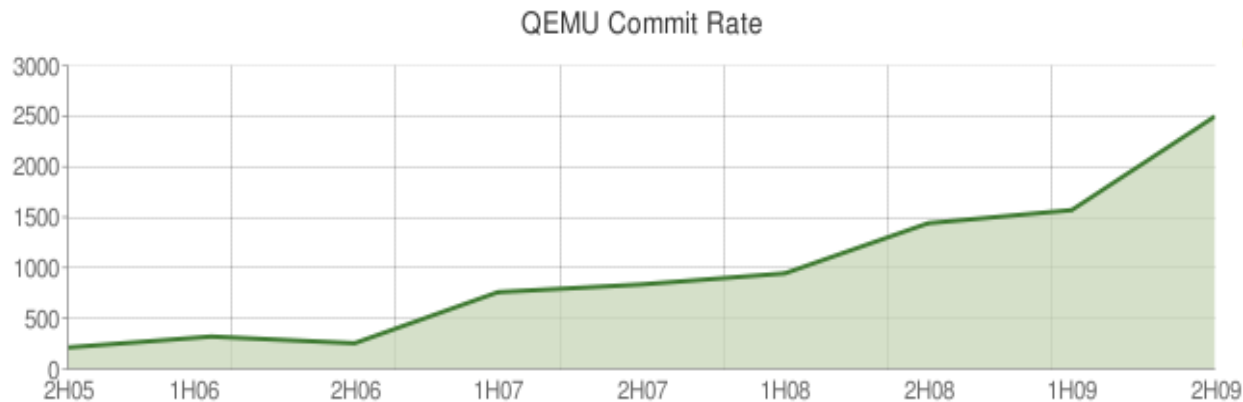
Linux on z/VM is the industry's most advanced virtual solution

# KVM Community



## Major Contributors

**KVM enjoys a vibrant and growing community**



**Many organizations are switching from Xen/VMware to KVM in their clouds**

First KVM release

IBM strategic investment

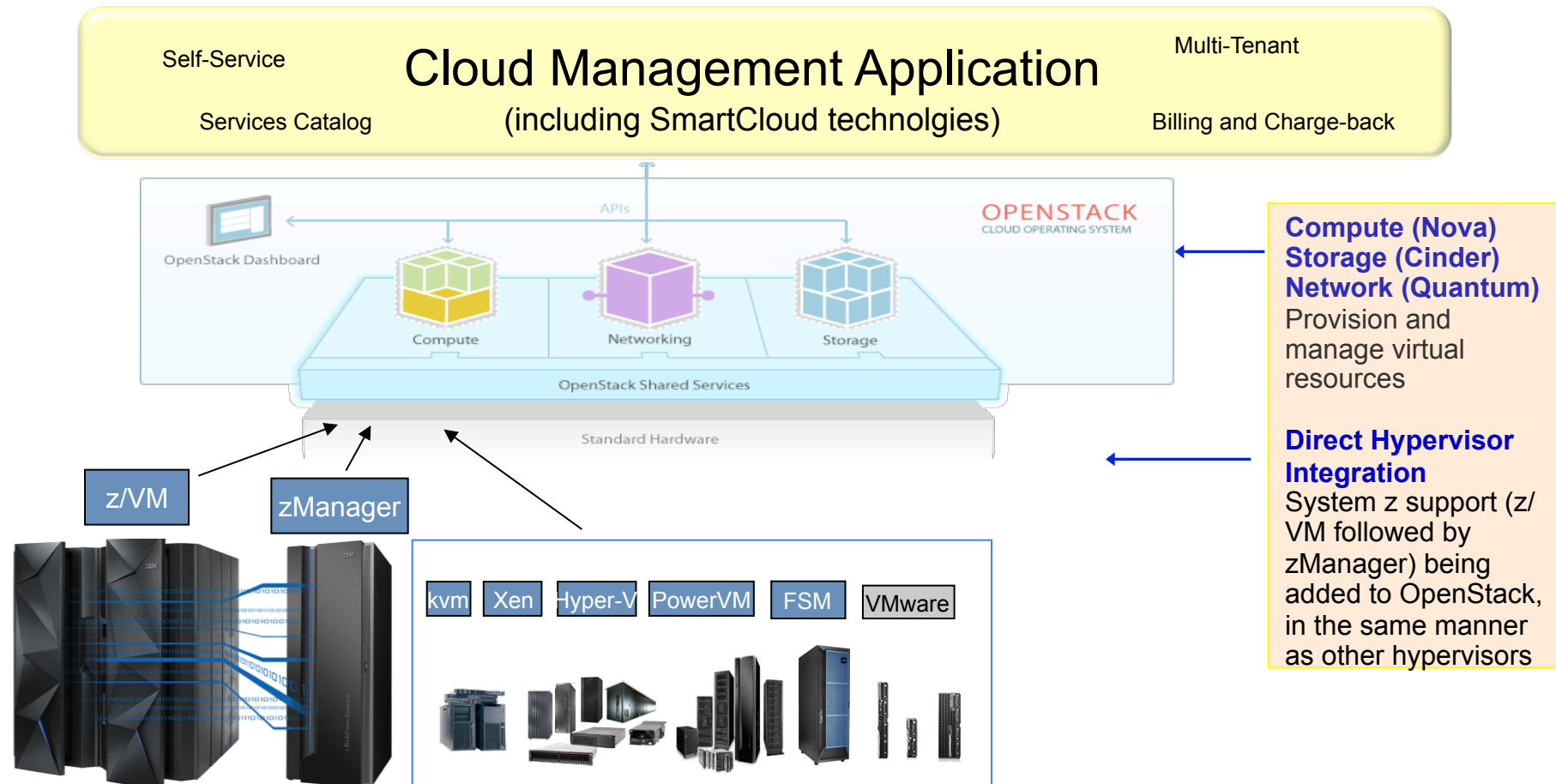


# OpenStack Strategy

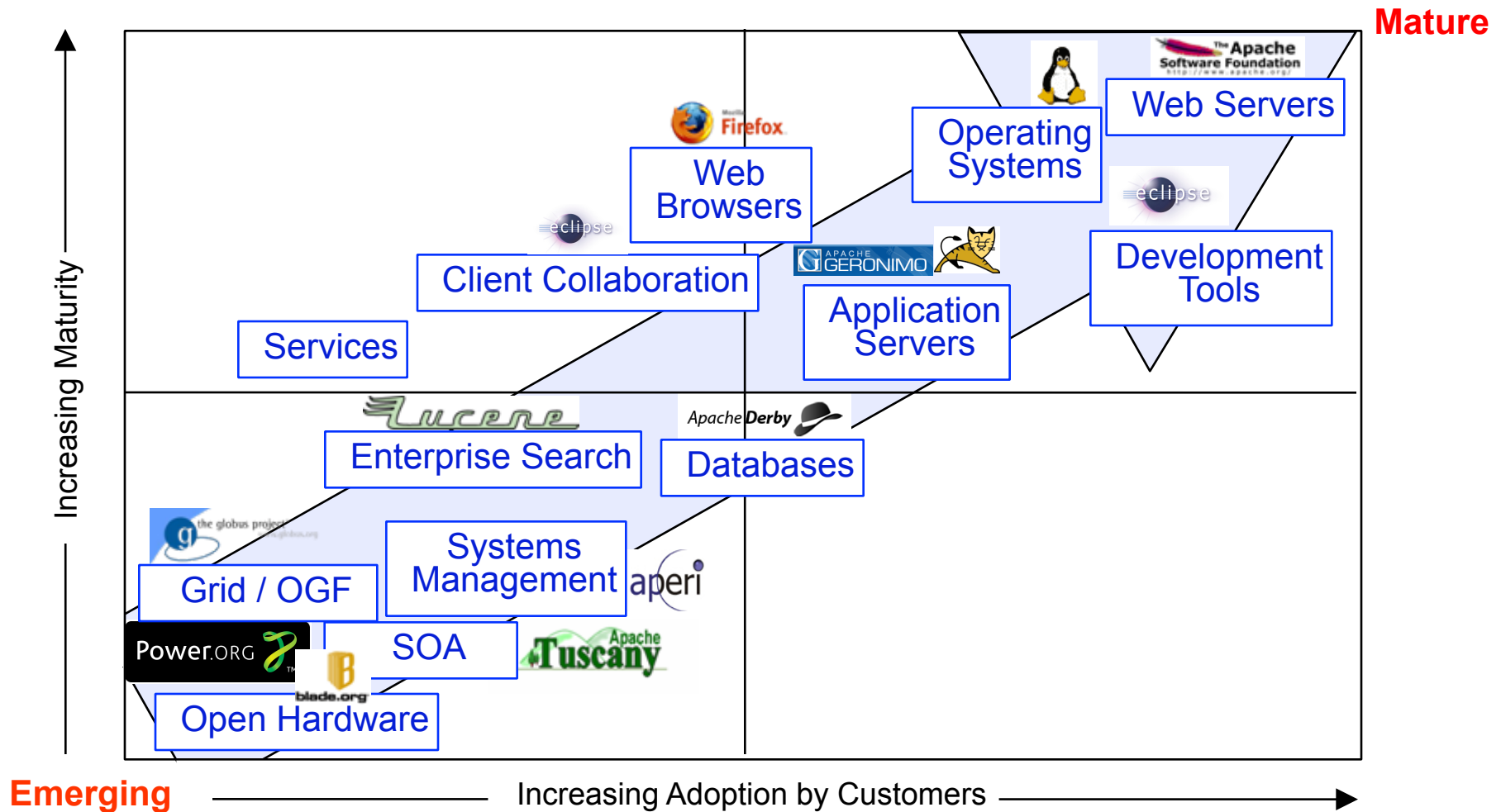


<http://openstack.org/>

**OpenStack** is a global collaboration of developers and cloud computing technologists that seek to produce a **ubiquitous Infrastructure as a Service (IaaS) open source cloud computing platform** for public and private clouds. OpenStack was founded by Rackspace Hosting and NASA jointly in July 2010.



# Open Source Maturity and Customer Adoption



Source: IBM, February 2007

# IBM Open Standards Accomplishments



## 1998-2001

### Java, XML

- Co-led XML4J, W3C DOM, XSL
- Led Apache XML projects Xalan, Xerces, SOAP
- Founder XML.org
- Co-author WSDL, SOAP 1.1
- Cofounder UDDI.org
- Author UDDI specification
- Founder Eclipse.org
- Co-author W3C XML Schema
- Chair OASIS WS-Remote Portlets TCs
- Participation in Mozilla
- Led submission of WSDL to W3C
- Led RTSJ –JSR 1

## 2002-2003

### WS-I, OMA and WS-Security

- Founder WS-I.org
- Founder OMA
- Co-author BPEL, WS-TX, WS-TC
- Co-author WS-Security
- Co-chair UDDI TC
- Linux contributions to scalability
- Co-Chair OASIS WS-Security 1.0
- Co-chair OASIS WS-DM TC
- Submitted WS-DM to OASIS
- Submitted BPEL to OASIS
- Submitted CBE to OASIS
- RTSJ 1.0 accepted by JCP

## 2004-2005

### Web Services

- Chair WS-I Basic Profile 1.1
- Co-chair OASIS WS-Notification TC
- Co-chair WS-Resource Framework TC
- OASIS ODF V1.0 Approved
- Chair OASIS DITA
- Submitted WS-Addressing to W3C
- Contributed UML2 to Eclipse
- IBM named chair IETF
- IBM commitment to RF in OASIS
- Lead OASIS standardization of WS-DM and DITA
- Pledged 500 patents to Open Source

## 2006

### Web Services Reliability

- WS-I initiated two Profiles based on IBM RAMP Profile
- OASIS ODF cmte formed
- Co-chair of WS-Policy WG
- DITA XML.org formed
- WS-Security 1.1 becomes OASIS Standard
- Co-Author WS-Policy, WS-Eventing
- OASIS ODF wins ISO approval (ISO 26300)
- WS-Notification 1.2 approved as OASIS standard
- OpenAjax launched

## 2007

### SOA / Open Standards

- WS\* stds approved: WS-BPEL, WS-Policy, WS-Trust, WS-Secure Conversation, WS-Transactions, WS-Reliable Messaging, WS-SecurityPolicy
- SCA/SDO OASIS TC's
- BPEL4People submitted to OASIS, chair
- Service Modeling Language submitted to W3C, co-chair
- W3C XQuery1.0, XSLT 2.0 and XPath2.0 become W3C Recommendations
- Co-Chair ODF TC; of SOA work group at TOG
- WS-ResourceCatalogue submitted to DMTF
- SOA Maturity Model submitted to TOG
- IBM non-assert pledge
- Joined Khronos; OpenGL, OpenCL, COLLADA WGs
- WS Federation OASIS TC formed, co-chair

## 2008-2012

### Business process / Web 2.0

- EBPMN 2.0 submission to OMG
- WS-I Profiles attain ISO Status
- Web Services Test Forum (WSTF)
- W3C HTML5 WG chair
- Joined CESI
- WS-Remote Portlet 2 approved
- W3C Service Modeling Language 1.1
- OASIS IMI and ORMS TC's formed, co-chairs
- Content Mgmt Interoperability Services submitted to OASIS
- Initiated OASIS ODF TC for Interoperability, Conformance, ODF toolkit union
- EPTS launched
- OpenAjax WGs for Secure Mashups,

**Pledged hundreds of patents to the Open Source community**

**Involved in hardware, software, services and architectural standards**

**Collaboration with major standardization organizations**

# IBM focus: Linux on all IBM Systems

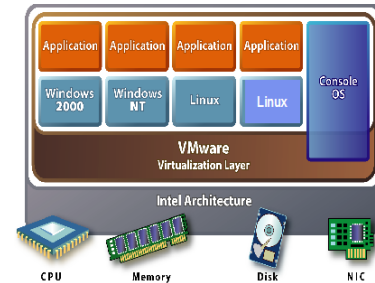
## Linux on System z

- Applications close to the data
- Applications need “Mainframe” criteria
- Vertical and horizontal scaling (hundreds of virtual servers at the same time)
- Great workload-management
- excellent virtualization



## Linux on System x

- Low-priced entry
- Simultaneous operation of Windows and Linux via virtualization
- High reliability and simple manageability by Enterprise X-Architektur
- Very good price / performance ratio via Clustering
- Big performance density by BladeCenter



## Linux everywhere

## Linux on System p

- Applications demanding high performance
- Consolidation of multiple servers / applications via LPARs
- Native Linux or AIX



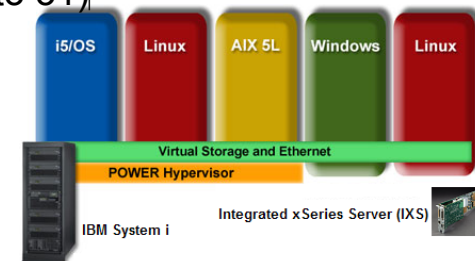
## Linux on CBE

- Applications demanding highest performance
- special purpose



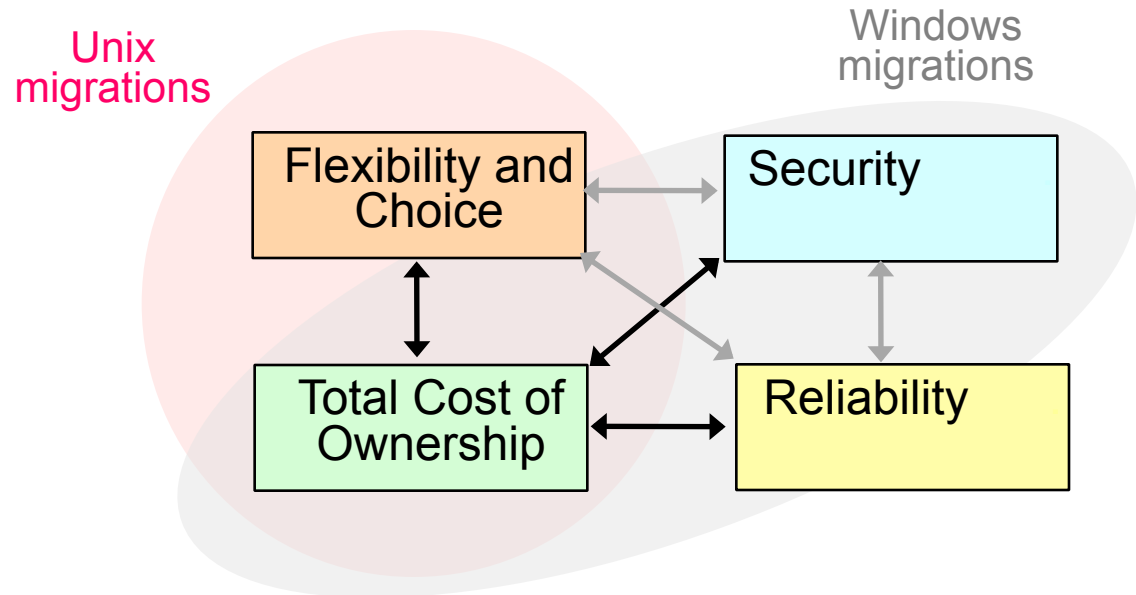
## Linux on System i

- If an integrated solution is required (hardware / software / network)
- Simple administration and operation
- If midrange system is required
- Consolidation of applications via LPARs (up to 31)
- High degree of security



## Why Linux is Important to Customers

- Linux is flexible
- Linux is secure
- Linux is reliable



- Linux can reduce Total Cost of Ownership
- Linux is an excellent path to flexible IT



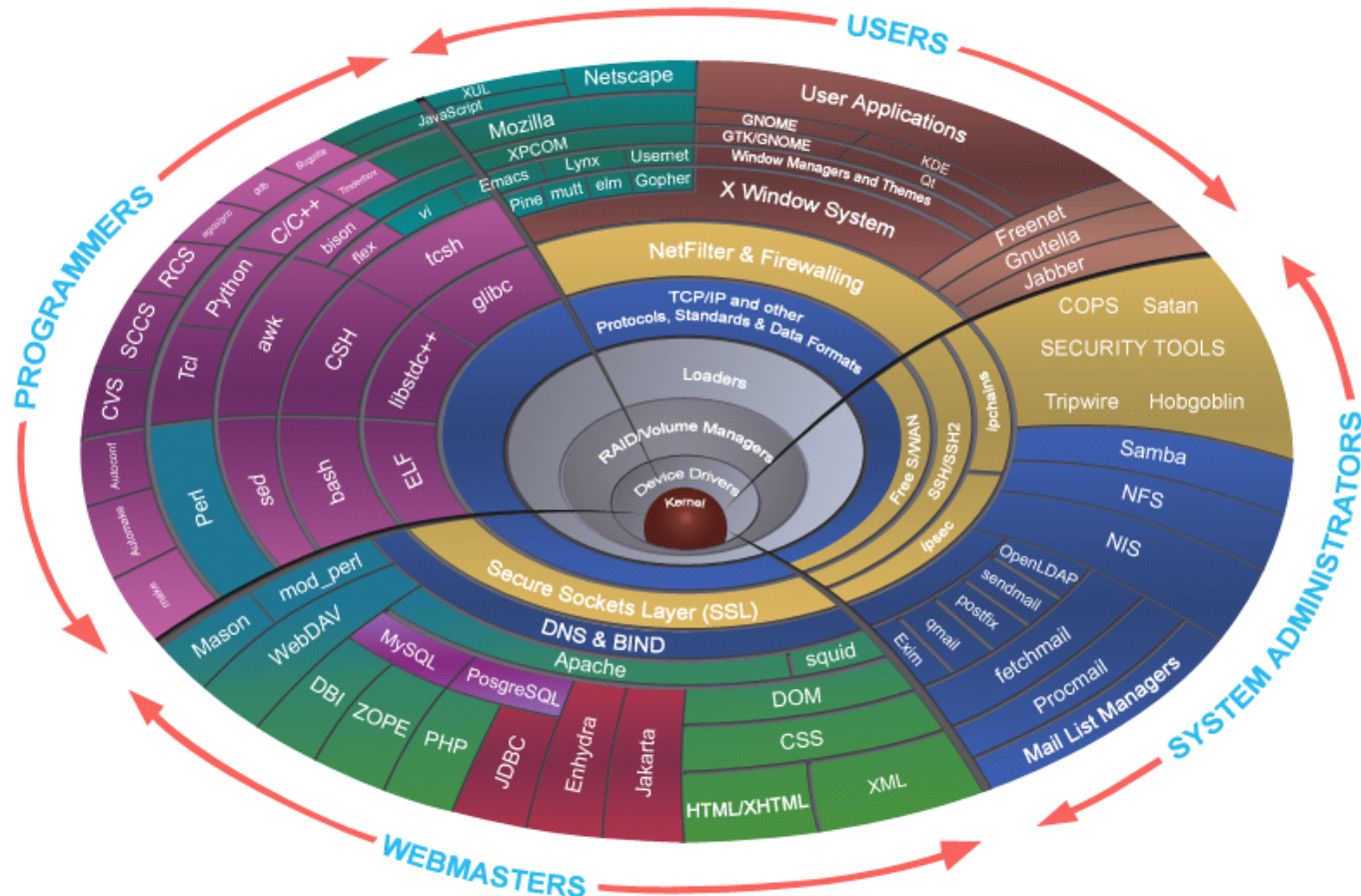
## Facts on Linux

- Last year, **75%** of the Linux code was developed by **programmers working for corporations.**
- **\$7.37 billion:** projected cost to produce the 283 million lines of code which are contained in Linux Distribution **in a commercial environment.**
- IDC forecasts show that **Linux server revenue will grow by 85.5%** between 2008 and 2012 **in the non-x86 server space** equalling a four year compound annual growth rate of 16.7%.
- **Linux is Linux**, but ...features, properties and quality differ dependent on your platform

Source: Intelligence Slideshow: 40 Fast Facts on Linux <http://www.baselinemag.com/c/a/Intelligence/40-Fast-Facts-on-Linux-727574/>  
<http://www.internetnews.com/dev-news/article.php/3659961>  
[http://public.dhe.ibm.com/software/au/downloads/IBM\\_zLinux\\_DAG\\_FINAL.pdf](http://public.dhe.ibm.com/software/au/downloads/IBM_zLinux_DAG_FINAL.pdf)

## What is a Linux Distribution ?

Linux is packaged in a format known as a Linux distribution, e.g. for desktop and server or other use.



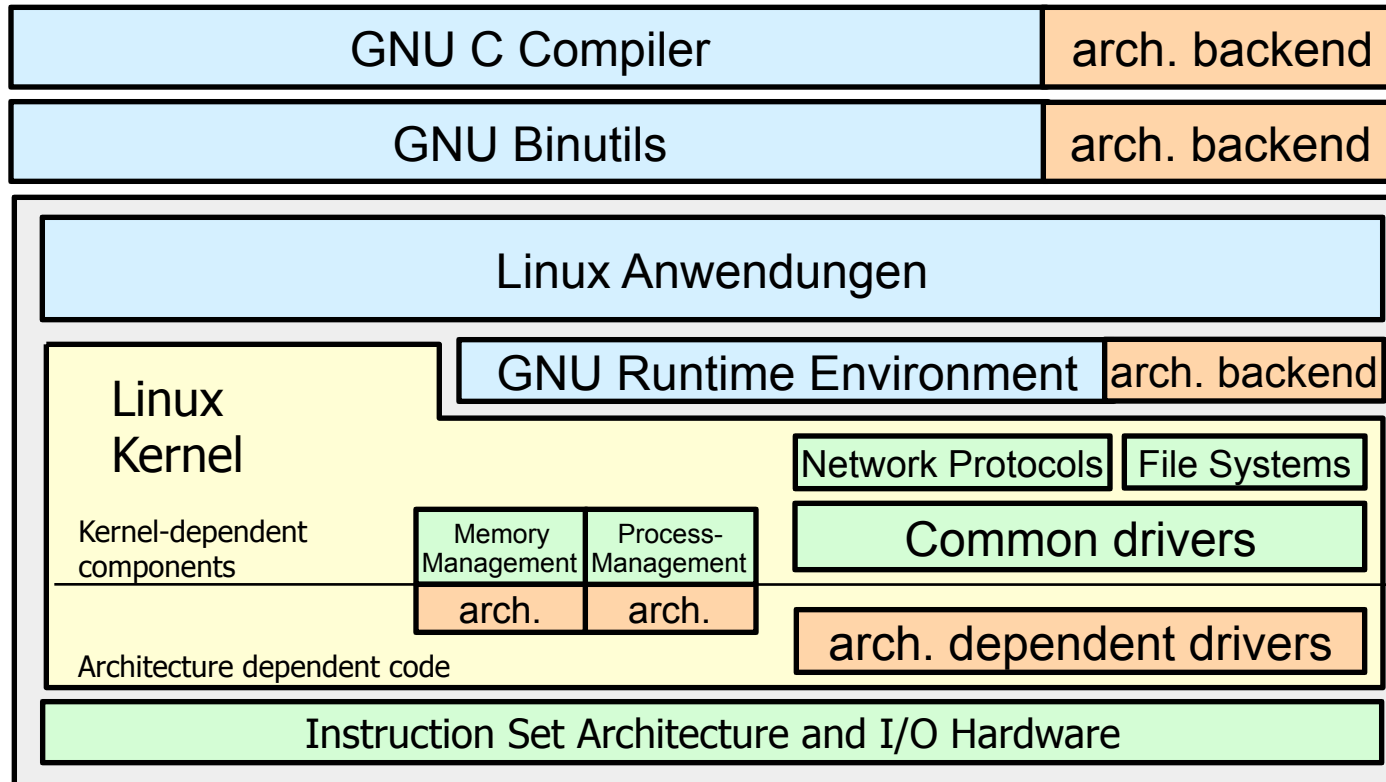
O'Reilly, Charting the Linux Anatomy by Ed Stephenson  
[http://www.oreillynet.com/pub/a/oreilly/linux/news/linuxanatomy\\_0101.html](http://www.oreillynet.com/pub/a/oreilly/linux/news/linuxanatomy_0101.html)

# What is Linux ?

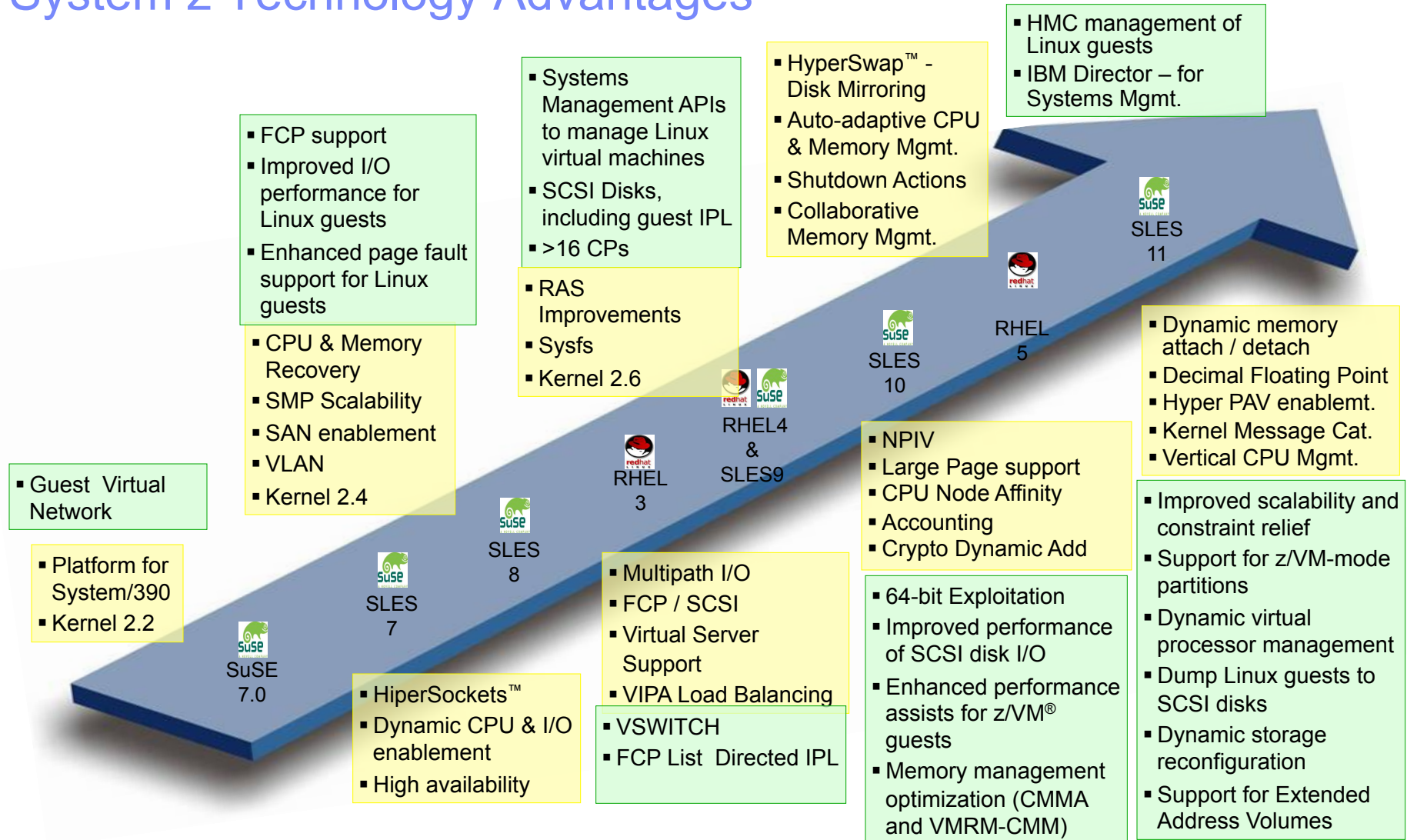
## System Overview

Linux is Unix-style operating system that uses the Linux kernel and a set of GNU tools and applications (like the GNU C compiler)

**arch. ...** - Hardware architecture specific code



# Unique Linux Extensions to Leverage Powerful IBM System z Technology Advantages



## Linux Strategic Alliance Partners

Red Hat and Novell SUSE provide the Linux platform support for IBM Hardware, Software & Services



### SUSE

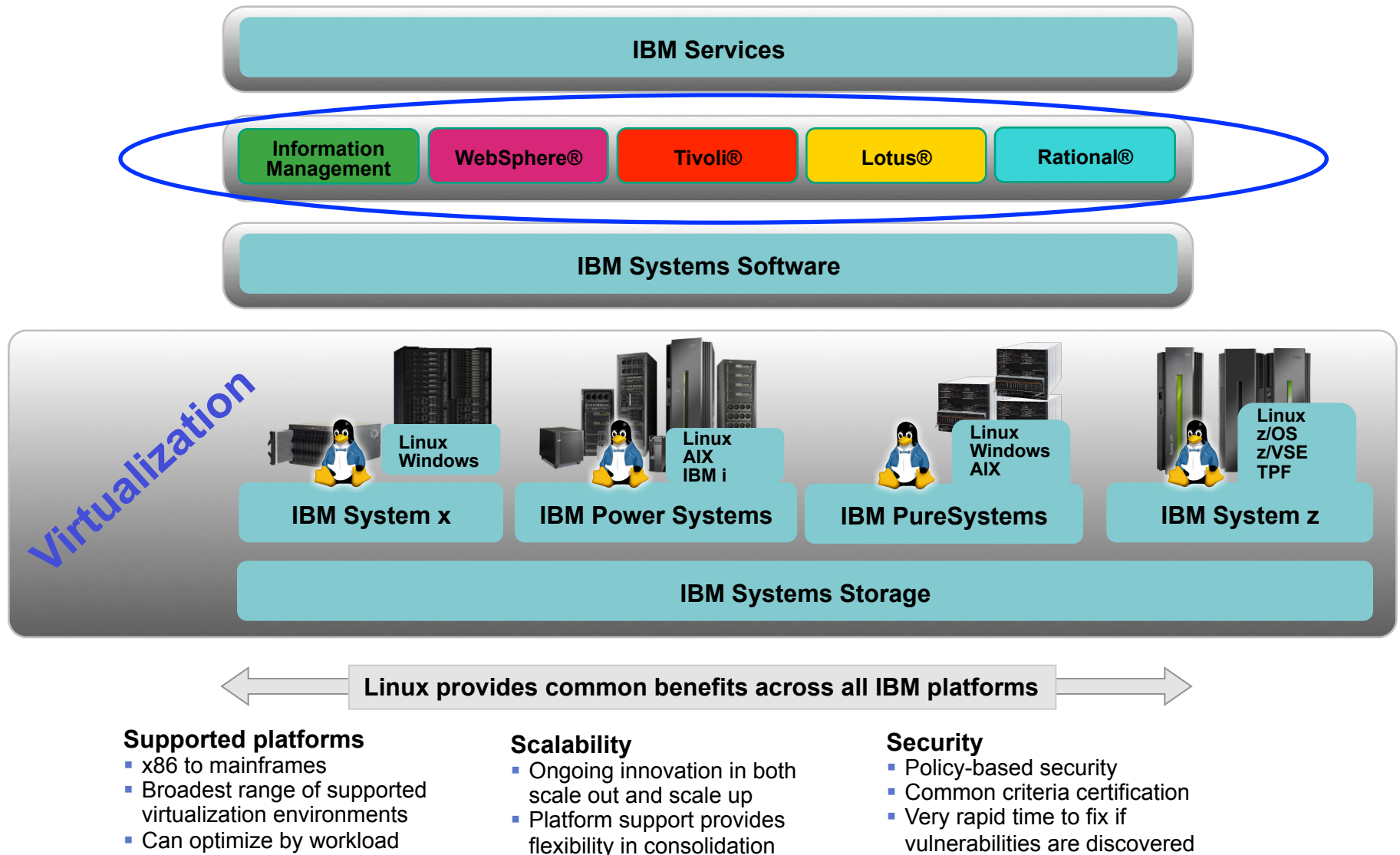
- ▶ IBM Global Strategic Alliance Partner & PartnerWorld Premier Partner
- ▶ SUSE closely aligned with IBM's Strategic Linux Growth Strategies
- ▶ SUSE Enterprise Linux supports all major IBM HW and SW platforms
- ▶ SUSE Linux was first to support IBM System z platform. Currently most prevalent Linux OS on IBM mainframes Worldwide.
- ▶ SUSE Linux is the only Global Strategic Linux Provider to include WAS Community Edition.



### Red Hat

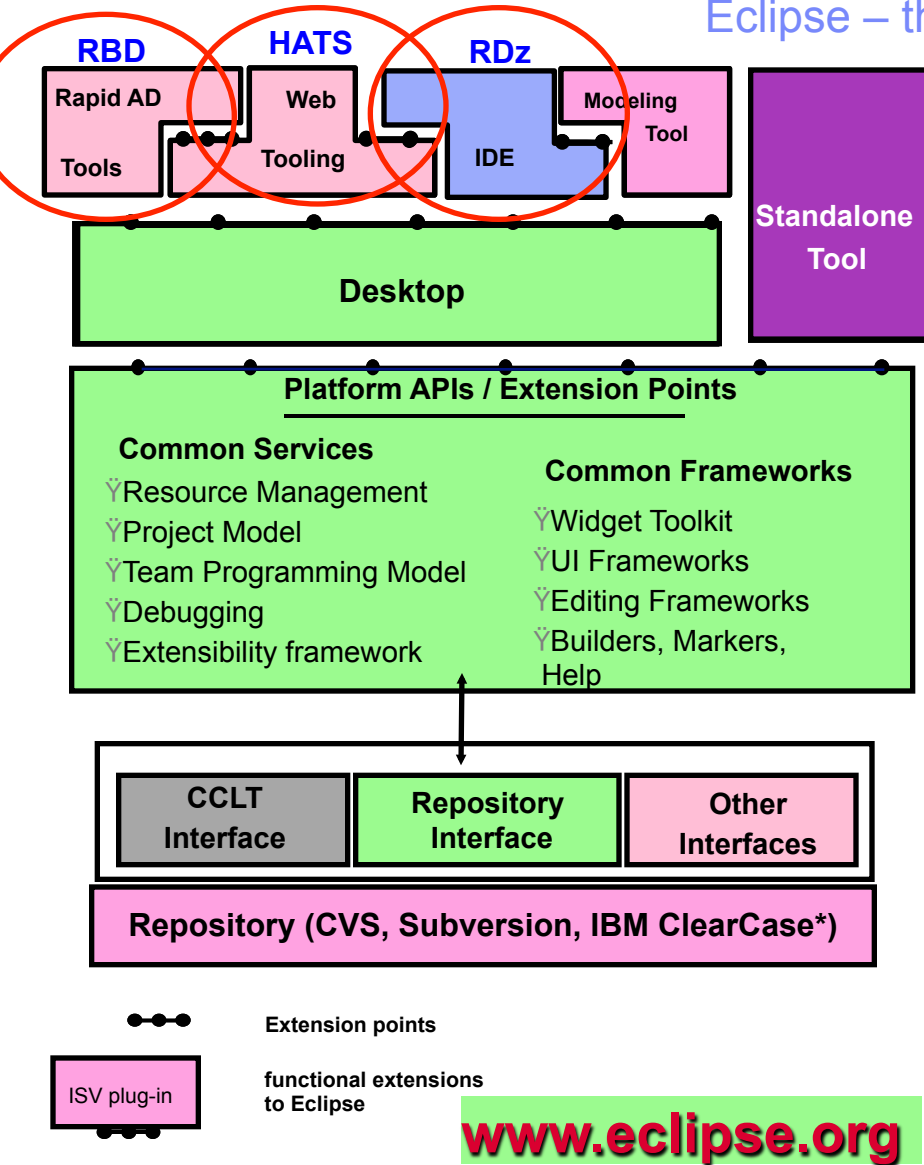
- ▶ Red Hat is a Strategic Alliance Partner for IBM
- ▶ Red Hat has sales resources dedicated to IBM in all geographies and they welcome the opportunity to partner with IBM
- ▶ Enterprise Linux supports all major IBM HW and SW platforms
- ▶ IBM supports Red Hat Enterprise Linux on all major IBM hardware and software platforms

# IBM Software focus: Open Standards and Management



# Eclipse based Development Environments

Eclipse – the open Standard for application development



What is Eclipse about:

- Open source development framework
  - with modern Editors
  - syntax help & check
  - semantic check
- Centralized source code maintenance
  - entire source code in central Repository
  - cross platform project administration
- Versioning software interface
  - CVS, Subversion, or IBM ClearCase
  - automatic Workgroup-control
- Open for ISVs development Plug-Ins
  - 1) **Integrated Development Environment (IDE)**
    - Rational Developer for System z (RDz)
    - for Java, COBOL, PL/I, ASM,C
  - 2) **IBM HATS Development Plug-In**
    - develop new front-ends to 3270 applications
  - 3) **IBM EGL-Enterprise Generation Language**
    - Rational Business Developer (RBD)
    - follow-on to Visual Age Generator



# Apache Community and Web Application Server Projects

**Web Application  
Servers**

- Apache.org
  - Open Source not-for-profit Foundation
  - Home of the market-leading Apache HTTP server
  - Now multiple Apache projects, characterized by:
    - Collaborative, consensus based development process
    - Open and pragmatic software license
    - Desire to create high quality software that leads the way in its field.
- Apache Tomcat
  - Servlet container for Java Servlets and JavaServer Pages
  - Widespread adoption
- Apache Geronimo
  - Server runtime for J2EE
  - Rapid increase in adoption
- Apache Tuscany
  - Implementation of SOA programming model
  - SCA and SDO
  - Apache Synapse – ESB for SOA



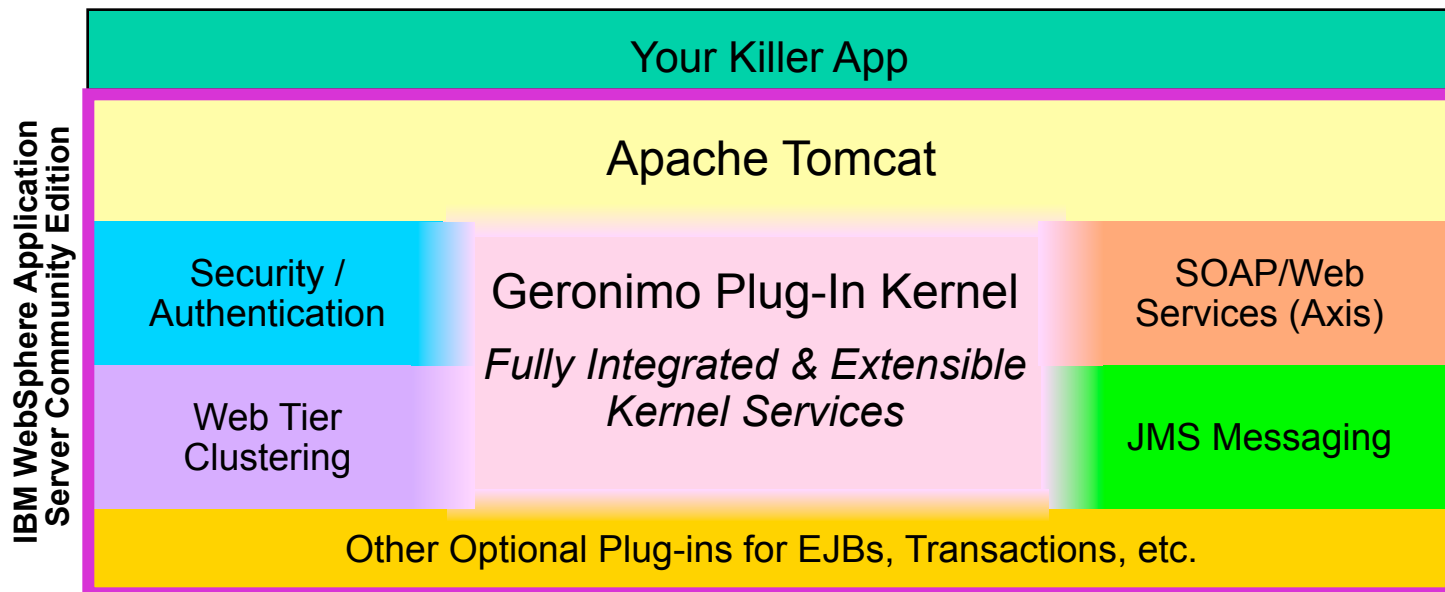


# IBM WAS Community Edition

**Web Application  
Servers**

**WebSphere** software

- WebSphere Application Server Community Edition
  - Lightweight J2EE application server built on Apache Geronimo technology
  - Integrates Apache Tomcat
  - Includes Apache Derby
  - No up-front costs
  - World-class support (optional, fee-based)
  - Winner – Open Source Tool of the year, Developer.com



**WebSphere Application Server Feature Pack for Web 2.0 and Mobile**[Features and benefits](#)[System requirements](#)[Trials and Downloads](#)[Support](#)**IBM Software products**[Find products](#)

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IBM® WebSphere® Application Server Feature Pack for Web 2.0 and Mobile extends the reach of enterprise applications, from the desktop to mobile devices.

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**Download Now**

The WebSphere Application Server Web 2.0 and Mobile Feature Pack uses standards-based technologies to help developers create more connected, interactive desktop and mobile applications.



- Standards-based technologies, including Ajax, REST Web services, and Dojo, are used to simplify and speed the addition of rich desktop and mobile user interfaces to WebSphere Application Server applications.
- Enterprise infrastructure can be leveraged, with straightforward connectivity between existing server-side components and new mobile clients.
- A large collection of core services are also included, including new skins for a variety of mobile platforms, and innovative user interface widgets to improve the user experience
- Feature Packs are optionally installable, no-charge product extensions that offer targeted, incremental new features and capabilities.
- The Feature Pack for Web 2.0 and Mobile is available for IBM WebSphere Application Server V6.1, V7.0, and V8.0, WebSphere Application Server Community Edition V2.1 and V3.0 and WebSphere Application Server Hypervisor Edition

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**Web 2.0 and Mobile Development Community**

Learn, share and connect with developers

[→ Join the community](#)

**Listen to Chris Mitchell, IBM Architect, introduce the new Feature Pack!**



The New WebSphere Web 2.0 and Mobile Feature Pack

# DB2 Express-C

**Information  
Management**

Information Management software



## DB2 Express-C

Production ready, Innovative Technology and Developer Community

### Production Ready

- Free to develop, deploy and redistribute\*
- No limits – just data
  - **No database size limit**
  - **No limit on number of instances per server**
  - **No user limit**

\* Free registration required

### Innovative Technology

- Leading edge, highly resilient and proven technology.
- First hybrid relational and XML data server
- Same superior technology and programming support as DB2 Express Edition in a smaller package

### Developer Community

- Application development made easy
- Dedicated team for DB2 community participation
- Comprehensive forum support available
- Skills and applications apply to all DB2 editions

# Eclipse Community and Projects

## –Application Development

- Eclipse.org
  - Open Source Community
  - Home of the market-leading Eclipse Java IDE
  - Started with IBM code contribution in 2001
  - Now multiple Eclipse projects, focused on building an open integration platform comprised of extensible frameworks, tools and runtimes for building, deploying and managing software across the lifecycle
  - Eclipse also hosts modelling, test, and web tools projects
- Eclipse Platform
  - Universal integration platform of extensible frameworks and exemplary tools
  - Integrated Development Environment
  - Eclipse base language IDEs for most of the popular languages, including
    - Java
    - C/C++
    - PHP



# IBM Rational Elite Support for Eclipse

**Software  
Development**

**Rational.** software

Support-Only Offerings	IBM Elite Support
Electronic Problem Submission	Yes
Voice Problem Submission	Yes
Number of technical support incidents	Unlimited
Basic configuration assistance	Yes
General usage questions	Yes
Compatibility and interoperability questions	Yes
Language in which support is provided *	English + Japanese
Support Hours **	8am -5pm Mon-Fri (24x7x365 for sev1)
Response target ***	2 business hours
Technical Contacts ****	# of subscriptions
Availability	Worldwide
Defect Submissions Tracked Online	Yes
Defect Patch Fixes Available Online	Yes
Critical Defect Workaround Development	Yes
Defect Fixes Submitted to Applicable Community Projects	Yes

✓ **Same world-class support customers are used to for all other Rational tools!**

✓ **Support for the Eclipse Platform, including the Java Development Toolkit (JDT) and its Plug-in Development Environment (PDE)**

- Test and Performance Tools Platform (TPTP)
- Graphical Editing Framework (GEF)
- Eclipse Modeling Framework (EMF)

✓ **Full IBM support – using the same tools & processes used to support other IBM products**

✓ **Benefits:**

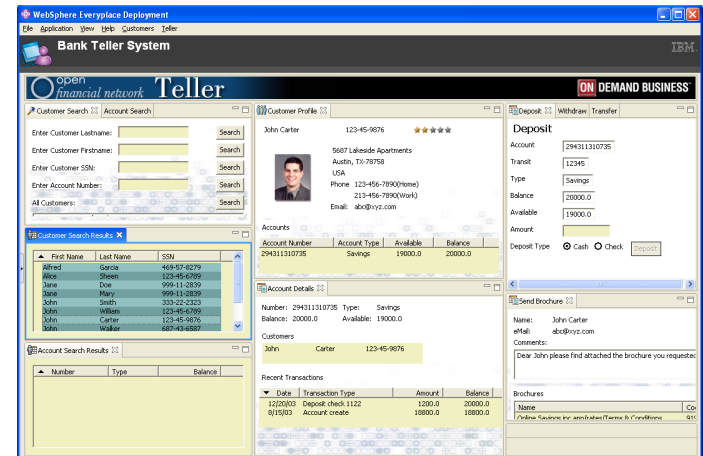
- Existing IBM customers expect this level of support
- Business requires 24/7 support for severity 1 issues
- Easy to transfer cases to other IBM product groups
- Easy to transition to support of Rational offerings that install into Eclipse base
- Low cost & risk to implement because it uses existing processes and systems

# Lotus Expeditor

## Client Collaboration

Lotus software

- **Composite Desktop built on Eclipse RCP**
- **Platform for Client Computing**
  - Compelling / Responsive User Interface
  - Local U/I logic does not need web connection
  - Aggregates Information from existing applications
    - Web, Java, Rich Client, Forms and Portal\*
  - An open alternative to Microsoft .NET
- **Semi-connected clients (Mobile Apps / Portal / Forms / WebSphere)**
  - Work productively while offline
  - Use where bandwidth unreliable / expensive
- **Server Managed Client Software**
  - Centrally deploy and manage software on remote client systems
- **Preserves programming model**
  - Familiar APIs enable developers to reuse skills / extend existing applications
  - Toolkit plugs into Eclipse 3.2 workbench



...



United States [ change ]

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## Lotus Expeditor

Features and benefits

System requirements

Library

How to buy

Support

## Related links

- developerWorks: Lotus Expeditor
- Lotus Expeditor Sales Kit on PartnerWorld
- Lotus Application Development
- Warranties and licenses

Software &gt; Lotus &gt;

## Lotus Expeditor enables client integration

Desktop integration framework to accelerate customer care



### Why IBM for client integration and transaction integration

The client integration framework provided by IBM® Lotus® Expeditor software assists developers in integrating a wide variety of client and server applications in composite applications. Client integration can be used to optimize the information that your employees need to accelerate your business processes. Lotus Expeditor software is used in production by bank tellers, call centers, government employees, insurance adjusters and in other customer care applications, worldwide. Use it to extend your IBM Lotus, IBM WebSphere®, Eclipse™ or legacy applications, such as Microsoft .NET applications. Lotus Expeditor software supports client integration on laptops, desktops, kiosks and mobile device clients. It also provides an integration hub for transactional messaging for satellite locations of an enterprise such as retail outlets or remote offices. Lotus Expeditor software provides the flexibility of service oriented architecture (SOA) and a standards-based programming model from the OSGi™ alliance and the Eclipse Foundation.

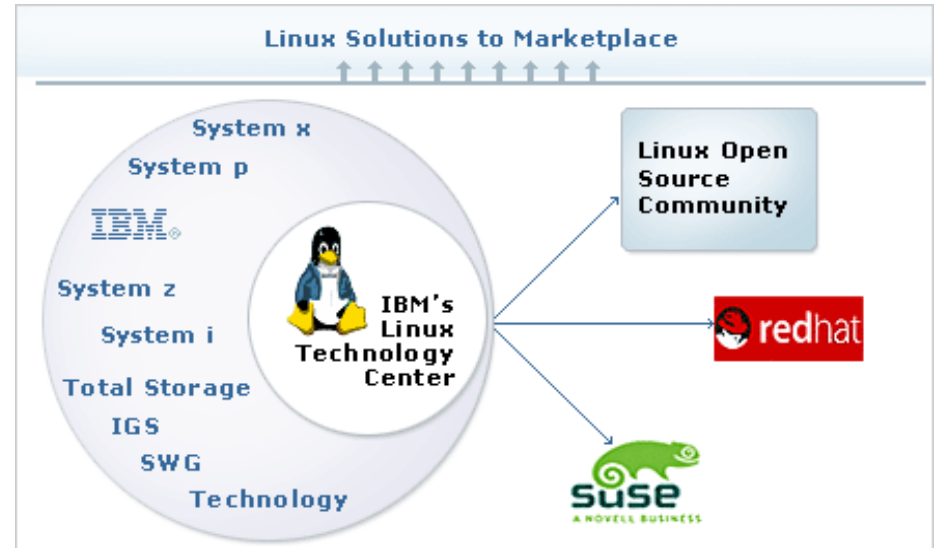


# IBM Linux Technology Center, LTC

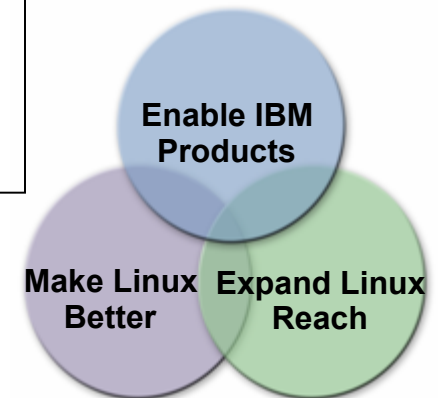
**IBM Linux Technology Center (LTC)**  
**Development team for all server and software platforms and other key initiatives, such as:**

- Real Time Linux
- Security: EAL certifications, Trusted Computing, SELinux, sHype
- Linux on POWER, Linux on Cell, Linux for System z and z/VM
- Virtualization: Xen/KVM, APV support
- Systems Management: kdump, SystemTap

**Technical liaison to IBM's customers and Linux Distribution Partners**

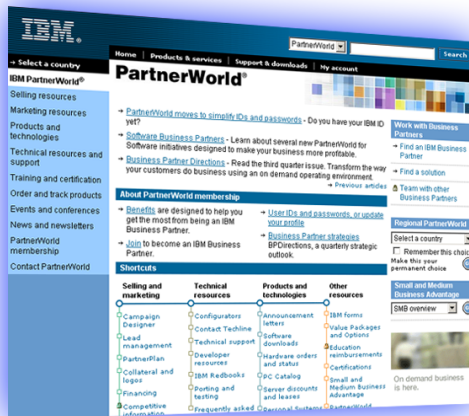


**LTC:**  
 Over 600 developers  
 40+ locations  
 100+ projects





# IBM Continues to Support the Open Source and Linux Partner Ecosystem



- 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

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

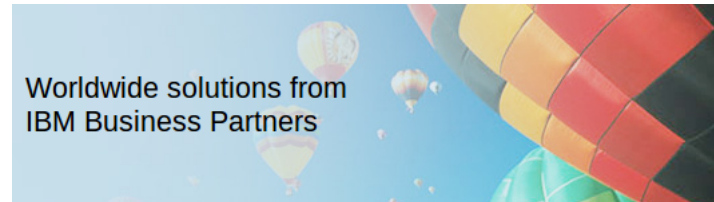


## You are welcome to participate on ISV Products and Solutions !

- IBM PartnerWorld -> Global Solutions Directory

<http://www-304.ibm.com/partnerworld/gsd/homepage.do>

<http://www-304.ibm.com/partnerworld/gsd/search.do>



- IBM PartnerWorld -> Business Partner Application Showcase

<http://www-304.ibm.com/partnerworld/gsd/showcase.do>

- (W3) STG ISV Central

<http://w3.ibm.com/ibm/resource/isv.html>

- Red Hat ISV Partner Program

<http://www.redhat.com/partners/isv/>

<https://www.redhat.com/wapps/partnerlocator/web/home.html>



- Novell SUSE Linux Enterprise Software Catalog

<http://www.novell.com/partner/isv/isvcatalog>



Obrigado

Portuguese

Merci

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Thank You !

English

Gracias

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