

Novas Iniciativas com S/390



Apresentação para:

Exploradores do
OS/390

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IBM The magic box is an IBM business server.

Agenda

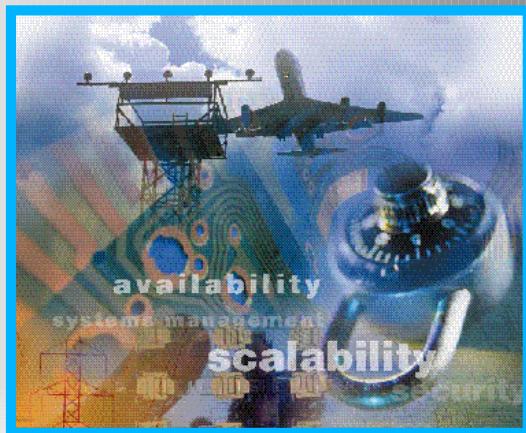


- 9:00 Abertura
- 9:15 Torne sua empresa mais competitiva usando as iniciativas S/390 - Marcelo L. Braunstein (IBM)
- 10:00 Intervalo para café
- 10:15 IBM ajudando voce a participar do mundo e-business - Eli Martins (IBM)
- 11:15 Utilizando o Unix Systems Services do OS/390 como plataforma de integração para ambientes distribuídos - Roberto M.F. de Souza e Ricardo Lanzuolo (MSA - Infor)
- 12:15 Almoço
- 13:30 Aumente os negócios de sua Empresa ao disponibilizar seu legado na Internet - André Cecíliano (ACE Informática)
- 14:45 Intervalo para café
- 15:00 Estado da arte em Java, VisulaAge e WebSphere em S/390 - Carlos Hirata (IBM)
- 16:15 S/390 também é LINUX ! - William Ventura (IBM)
- 16:40 Experiencia com Linux/390 no Banrisul - Fabio Becker (Banrisul)
- 17:30 Encerramento

Novas Aplicações para S/390 (ou Growth Initiatives)

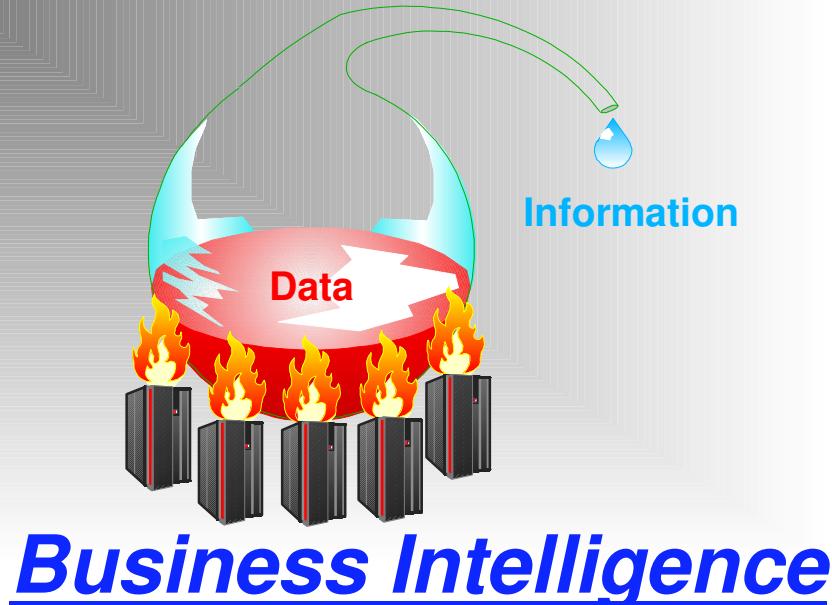
IBM

ERP



Server Consolidation

e-Business / e-Collaboration



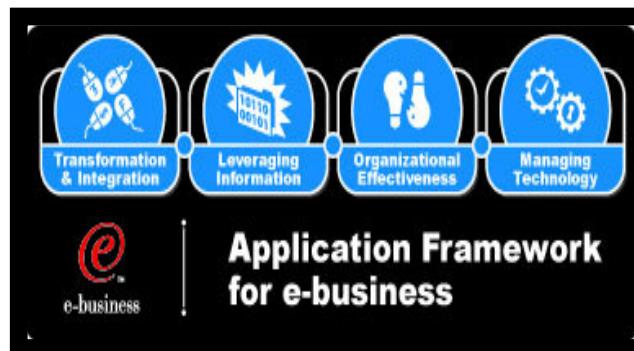
Business Intelligence

Bases para e-business avançado

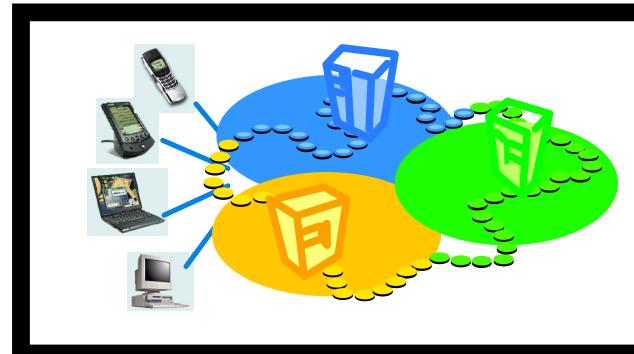
**Business Innovation
& Integration Expertise**



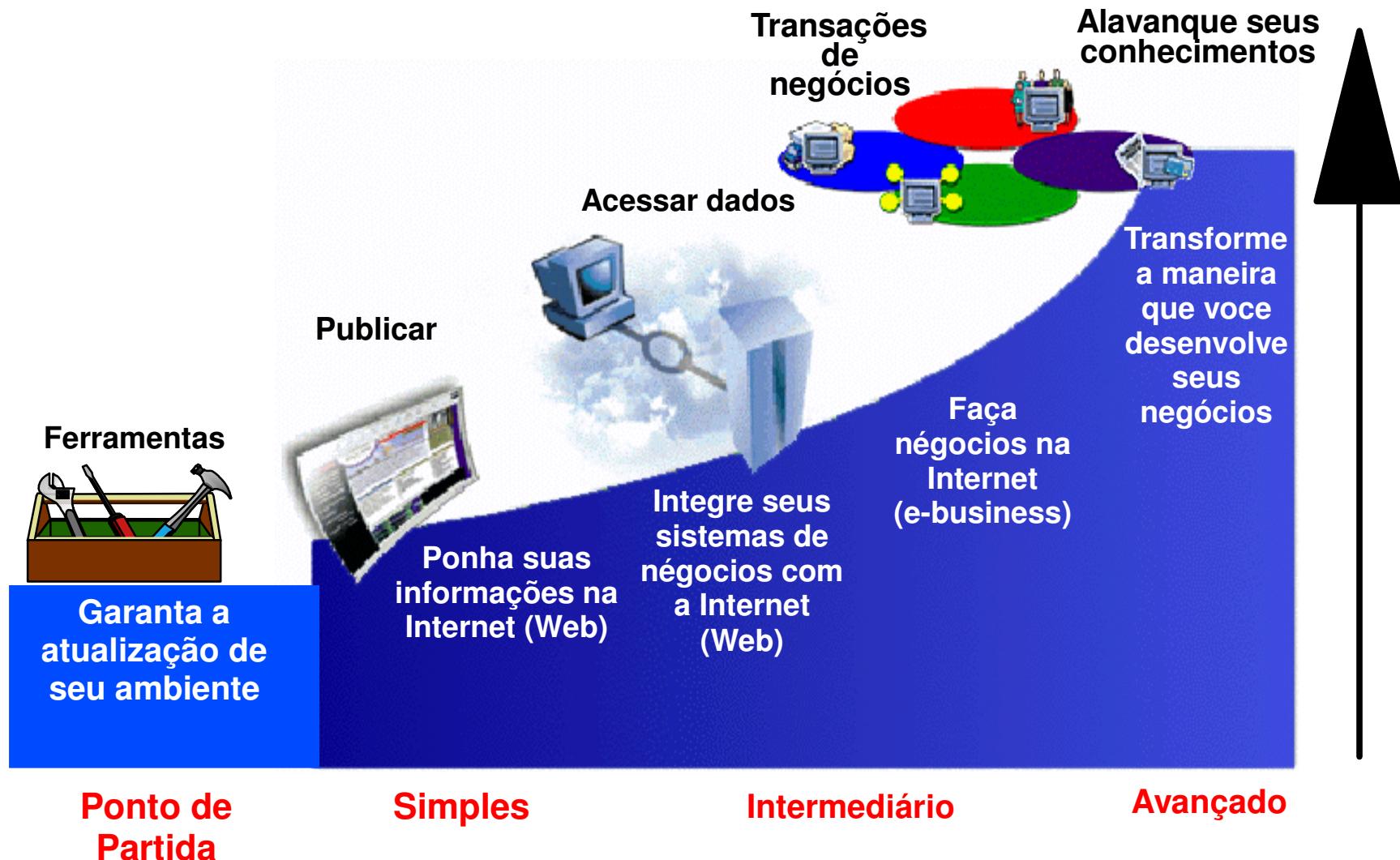
**Application Development
& Deployment**



Flexible Infrastructure



Business Innovation



Framework de aplicações para e-business

e-business



Transformation
and Integration



Leveraging
Information



Organizational
Effectiveness



Managing
Technology

Middleware



Build

Run

Manage

OS/390 OS/400 AIX HP-UX Solaris Linux OS/2 NT

Application Framework for e-business

Rápida implementação em servidores empresariais

■ Web connectors

- First generation (1997 onwards): quick, but basic
 - e.g. CICS Web support, IMS, Net.Data,....
- Second generation (1999 onwards): Java & framework
 - e.g. JDBC, SQLJ
 - CCF (Common Connector Framework) part of IBM application framework for e-business
 - Supported by WebSphere and VisualAge for Java
- Third generation (2000 onwards): e-TP and re-use
 - e.g. Enterprise JavaBeans and Java2

■ WebSphere and Java specifics for 2000

■ Linux

■ High-end enterprise server Software Value Pricing

Objetivos principais são rapidez no desenvolvimento e na colocação em produção, e no re-uso de components

WebSphere, Java and EJB ...

- **Start now with WebSphere for S/390**

- Non-Java: use HTTP server + non-Java connectors
- Java: use VA Java, servlets, connectors via CCF or direct

- **Build Java skills base now with servlets**

- **Java Virtual Machine on S/390**

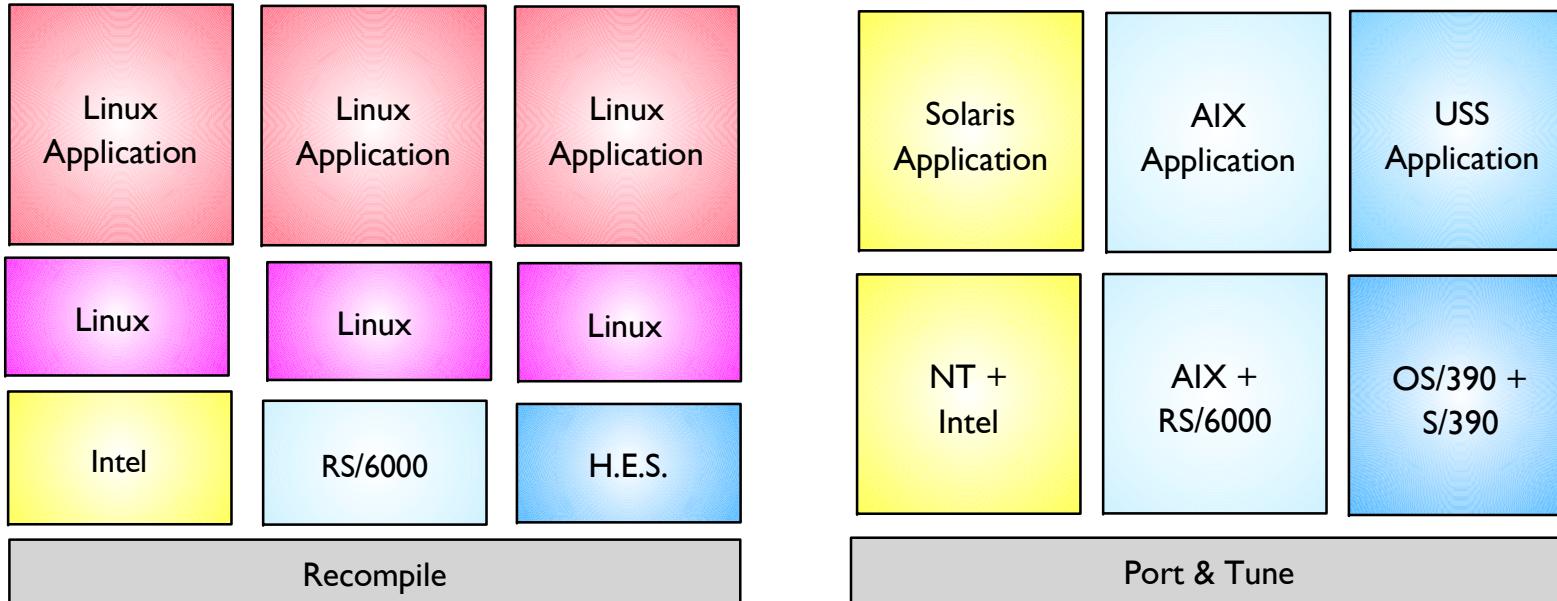
- JDK 1.1.8 (12/99) exploits multiple threads
- Performance comparable to COBOL and REXX
- Scalable JVM support 4q00

- **Aim to exploit Java2 EE for advanced e-TP**

- integration and performance (2q00 onwards)**

- Build EJBs when initial Java skills developed
- Based on WebSphere EE for OS/390

O Papel do Linux



- Simpler, faster deployment of UNIX applications
- Small kernel, fast execution
- Exploit dual foundation strengths of the high-end enterprise server



H.E.S. = High-end enterprise server



Applications

- Large selection and ease of deployment

Skills

- Large numbers of highly skilled programmers familiar with Linux

Vendor enthusiasm

- Major ISV / USV efforts for Linux

Implementor enthusiasm

- Emerging interest in large data centers

Reliability

- The most reliable hardware platform available.

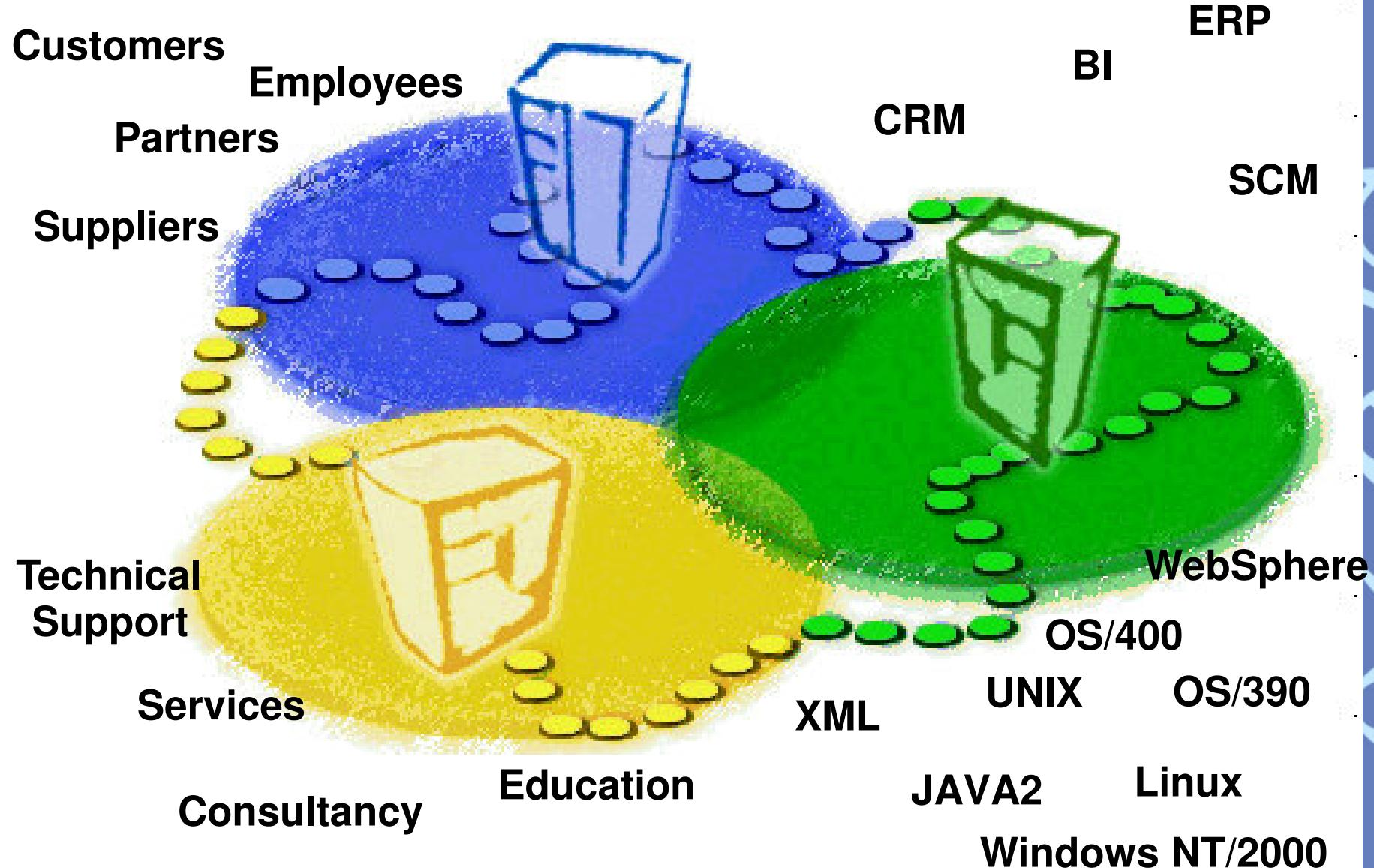
Scalability

- 15 Linux images possible on native hardware with more for VM/ESA customers

Manageability

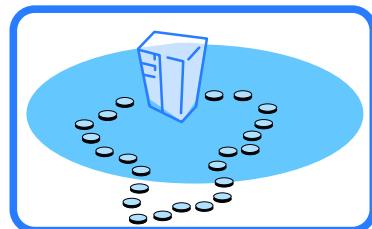
- Easier to manage, duplicate and all S/390 systems capabilities

Novas opções para servidores empresariais



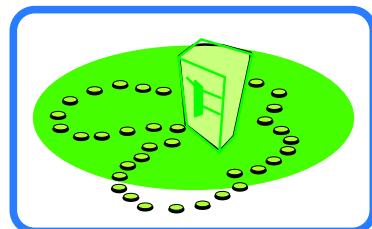
Tipo de cargas nos servidores

Data Transaction Applications



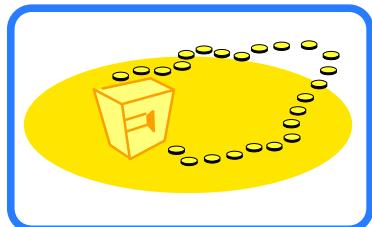
Complex transactions,
Continuous availability

Web Applications



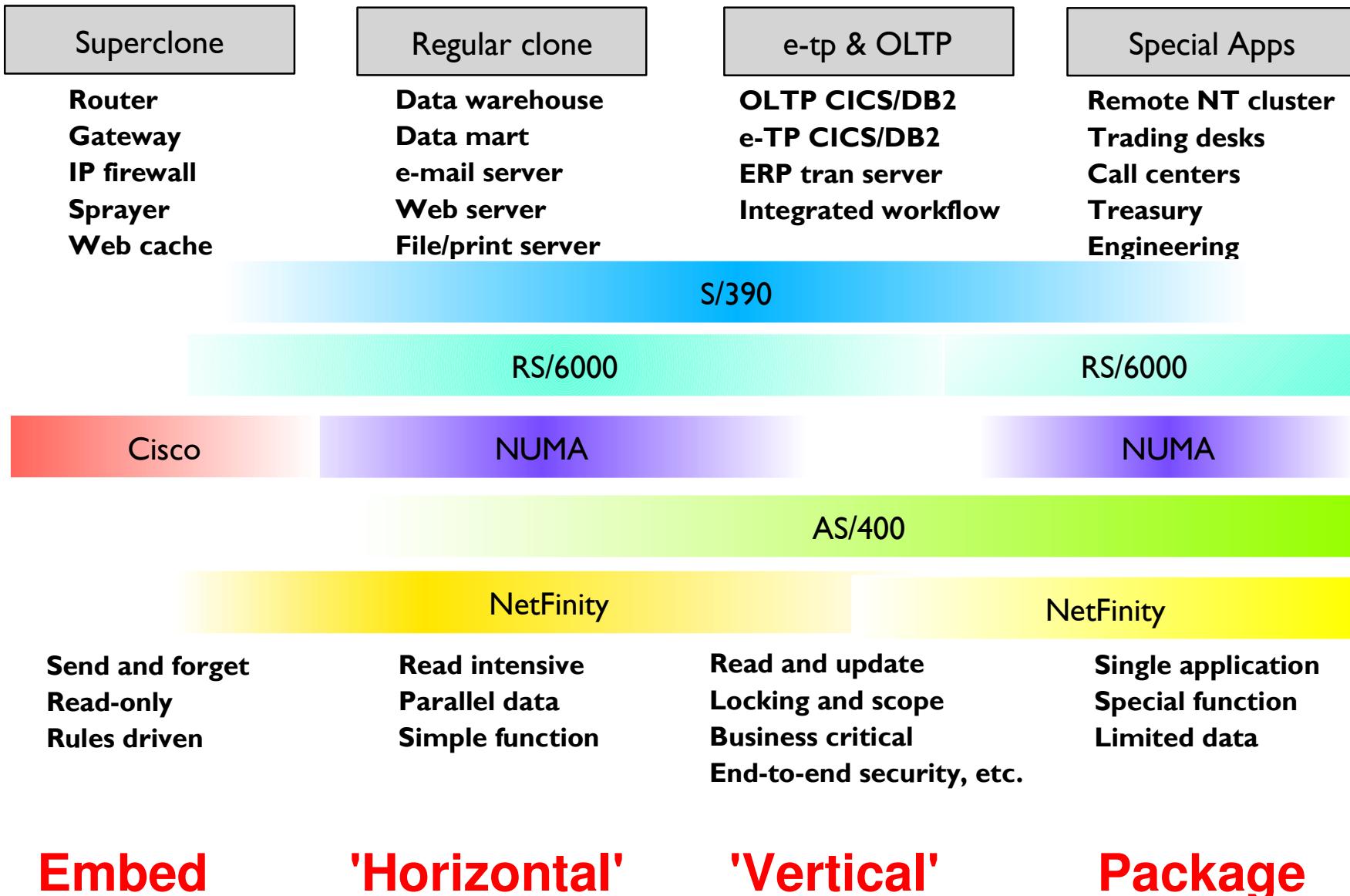
Simple transactions,
Availability through redundancy

Special Function Applications



Dedicated purpose,
Optimized functionality

Características do Servidor



Fatores técnicos chaves para seleção do servidor



- Business criticality (e.g. high, medium, low)
- Location and bandwidth (e.g. central vs. local dept)
- Common function/cloning (e.g. mail, file/print)
- Quality of service requirements (e.g. 24x7, 99.9%)

- Tight application/database integration (e.g. SAP R/3)
- Multi-application complexity (e.g. data linkages, replication)
- 'Read-only' vs. OLTP update (e.g. web content vs. e -TP)
- Single vs. multiple application constraints
- Platform support for application package

- Current users, transactions/events, growth rate
- Current system utilization % and load growth
- Current operating system, database version

... plus skills, cost, risk, speed

Infraestrutura de e-business: principais lições

- Outages and response time highly visible to customers
- Volatile "round-the-clock" e-business workloads
 - 10:1 spikes common, 5:1 typical peak to average
 - Low average utilization, with hotspots. Intense monitoring
 - Increasing impact of spikes on back-end OLTP systems
- Systems and applications usually designed for "average workloads"
- Significant skill shortages, wide and deep technical skills needed
- Service delivery people cost dominates total systems cost
 - Lack of integrated end-to-end systems management process and tools
 - Increasingly difficult end-to-end problem determination
- Operator error continues to be the leading cause of downtime
- Hardware floor-space limits . . . need higher racks !!

e-business integration requirements

- **Real 24x7 service. No scheduled outages, end-to-end continuous access to data**
- **Load balancing of very spiky transaction rates that impact both the front and back-end server systems**
- **Highly compressed multi-transaction end-to-end response times**
- **Sustained high security of the enterprise "crown jewels"**
 - Hardware crypto, workload isolation, security manager
- **Automated systems management, backup, disaster and recovery**
- **Very rapid development and deployment**
- **Consistent standards, development tools and code compatibility across platforms**
- **Affordable end-to-end total service delivery cost**

Os próximos passos são ...

- **Build a strategic e-business IT infrastructure blueprint and migration plan, considering**
 - WebSphere, connectors, VisualAge for Java
 - OS/390, Linux, AIX, Solaris and NT applications
 - Interim 'stepping stone' infrastructure
 - TCP/IP exploitation on S/390
- **Review key next step e-business applications vs. blueprint and server component selection criteria**
- **Initiate key e-TP pilot projects**
 - WebSphere and Web application servers
- **Ensure that key systems software and hardware components are all at the appropriate current release levels**
 - OS/390, DB2, CICS, AIX
 - S/390 HW and features

- Wildfire Webcast
 - ▶ realizado em 2 de maio
 - ▶ <http://www.ibm.com/s390/webcast>
- S/390 e-business Conference
 - ▶ dia 6 de Junho no Hotel Transamerica - SP
- Eventos do ITSO
 - ▶ 29/5 a 2/6: VisualAge for Java and WebSphere/390
 - ▶ Outros no segundo semestre de 2000
- Novo RedBook: SG24-5755-00
 - ▶ Servlet and JSP Programming with IBM WebSphere Studio and VisualAge for Java
- Exploradores do OS/390
 - ▶ Brasilia (11/5), São Paulo(19/5) e Rio (22/5)