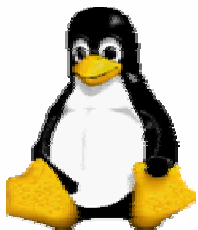


# The **i**ntegration series

Warren Duke, Platinum Blue

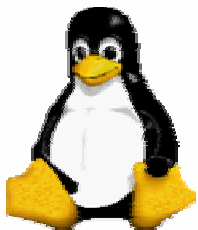
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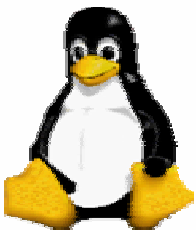
# Agenda

- The integration series
- Linux on iSeries
  - infrastructure solutions
  - business applications
- The future



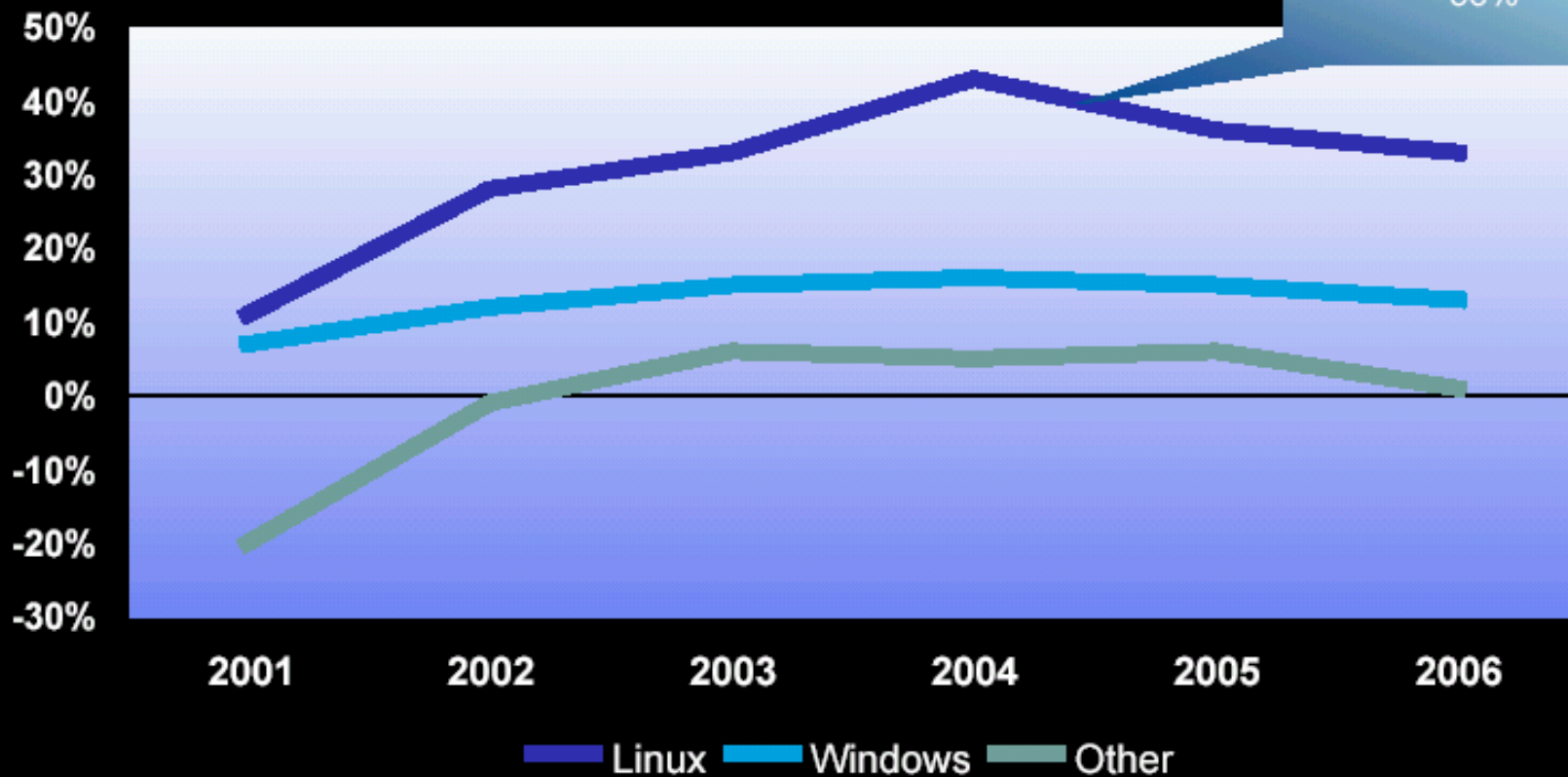
# iSeries - its about **i**ntegration

- IBM eServer brand
- iSeries is **THE** multi-environment platform
  - OS/400
  - Windows 2000
  - Domino
  - Linux
  - AIX (in 2004).....

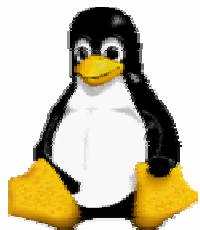


# Established and Growing

Server Shipments by OS  
% Growth

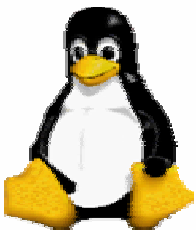


Source: IDC, Enterprise Server Fundamentals, March 2002



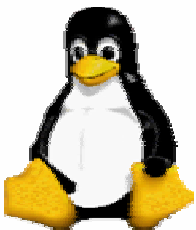
# What can Linux do for you

- Strategic **flexibility**
- application portability and hardware choice
- Licensing savings
- Infrastructure solutions
- ISVs porting to Linux - new applications



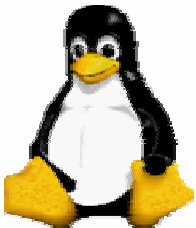
# What iSeries does for Linux

- On demand virtualisation
- Integration
- Reliability
- Scalability
- Low cost of ownership



# Basic requirements for Linux on iSeries

- OS/400 primary partition V5R1 or later
- Hosting partition at V5R1 or later
- Shared processor
  - SSTAR 270 and 8xx
  - POWER4
- Dedicated processor
  - ISTAR 8xx

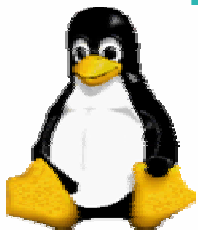


# Linux and LPAR V5R2

- Shared Processor Support\*
  - ▶ Linux shares processors with other OS/400 and Linux partitions
    - Up to 10 partitions per processor
    - Minimum 0.10 processor in a partition
- Dynamic Resource Movement
  - ▶ Shared Processor Units\*
    - Minimum processor movement: 0.01
    - Moved to/from Linux or OS/400 V5R2 partitions
    - Immediate, scheduled, or under program control
  - ▶ Virtual storage spaces
    - Added to Linux partitions
- Independent Resource Movement
  - ▶ Processor, Memory, and I/O
  - ▶ Dedicated Processors, Memory and I/O
    - Requires the Linux partition to be stopped and restarted
    - Minimum memory movement: 1 MB

# of Processors in Server	Maximum # of Linux Partitions*
1	9
2	19
3	29
4 and up	31

\* Shared processor is supported on iSeries servers with SStar and Power4 processors. Servers with IStar processors require a dedicated processor for Linux





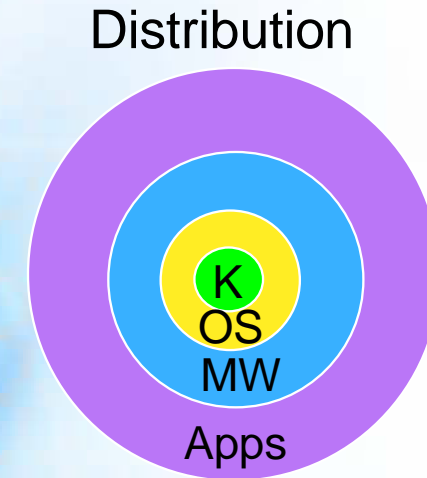
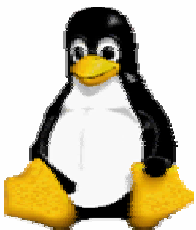
# Linux distributors



Functions included in Typical Distribution

Functions	Key Middleware and Applications
Web Serving	Apache, Tomcat
Mail Server	SMTP(postfix), POP3, IMAP, Sendmail MTA
Print Server	Samba
File Server	Samba, NFS
Proxy Server	Squid
Security	NetFilter firewall, VPN, OpenSSL
Name server	DNS, DHCP, WINS, FTP
Directory	OpenLDAP
Database	MySQL, Postgres
Languages	C, C++, PHP, Pearl
Desktop	KDE, Gnome

The things that most people are using  
Linux for come with the distribution

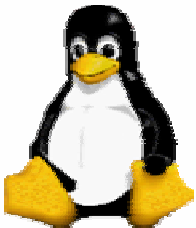


**Kernel +  
Operating System +  
Middleware +  
Applications =  
Distribution**



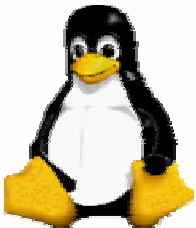
# Infrastructure Consolidation

- Banking client
  - European IT strategy review
  - strategic move to Linux
- Aims
  - consolidate infrastructure
  - reduce cost of ownership
  - improve flexibility



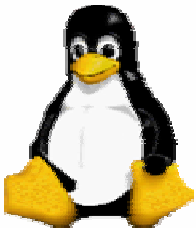
# Case study

- Core banking application
- European Domino workload
- Consolidate NT servers onto i820
  - Linux partition
  - Storage Area Network
  - integrated xSeries (IXS and IXA) servers
  - replace NT based applications with Linux based applications



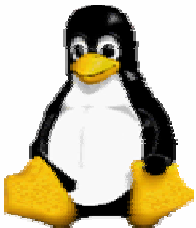
# Case study

- Linux
  - file and print : Samba
  - internet proxy : Squid
  - file server : NFS
  - web server : Apache
- Windows NT
  - fax
  - SWIFT
  - front office applications



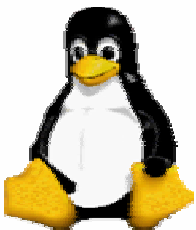
# Business benefits

- Improved service to the business
- Ease of system management
  - backups, passwords, upgrades, maintenance ...
- scalable platform with continuing conversion to Linux
- flexibility
  - add new business applications



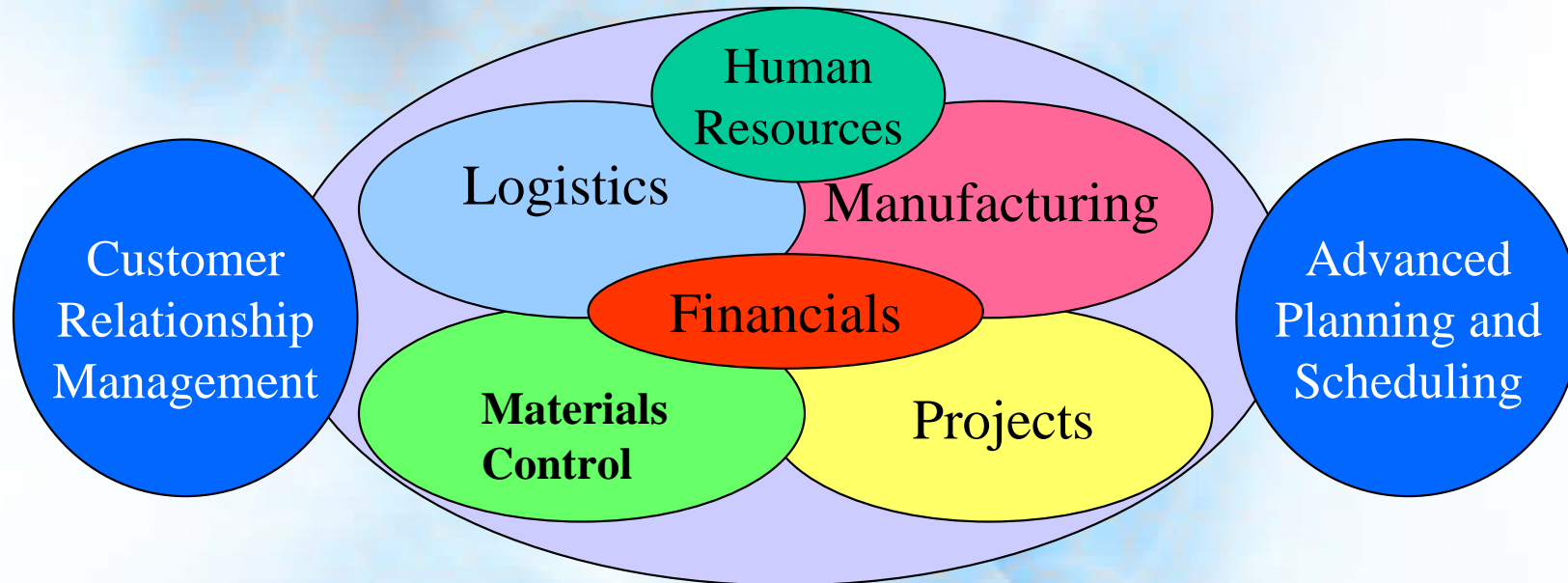
# Business applications

- ISVs porting to Linux for iSeries
- Solutions “new” to iSeries
  - ERP - e.g. Sage Line 500
  - Banking - e.g. Siena
  - Financial - e.g. Hansa Financials
  - [www-1.ibm.com/servers/eserver/series/linux](http://www-1.ibm.com/servers/eserver/series/linux)

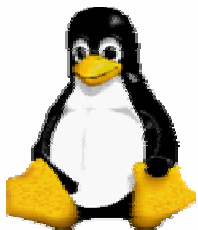


# Sage Line 500 reaches all parts of a business operation

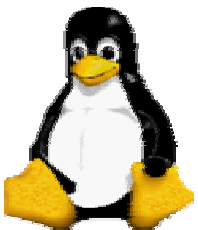
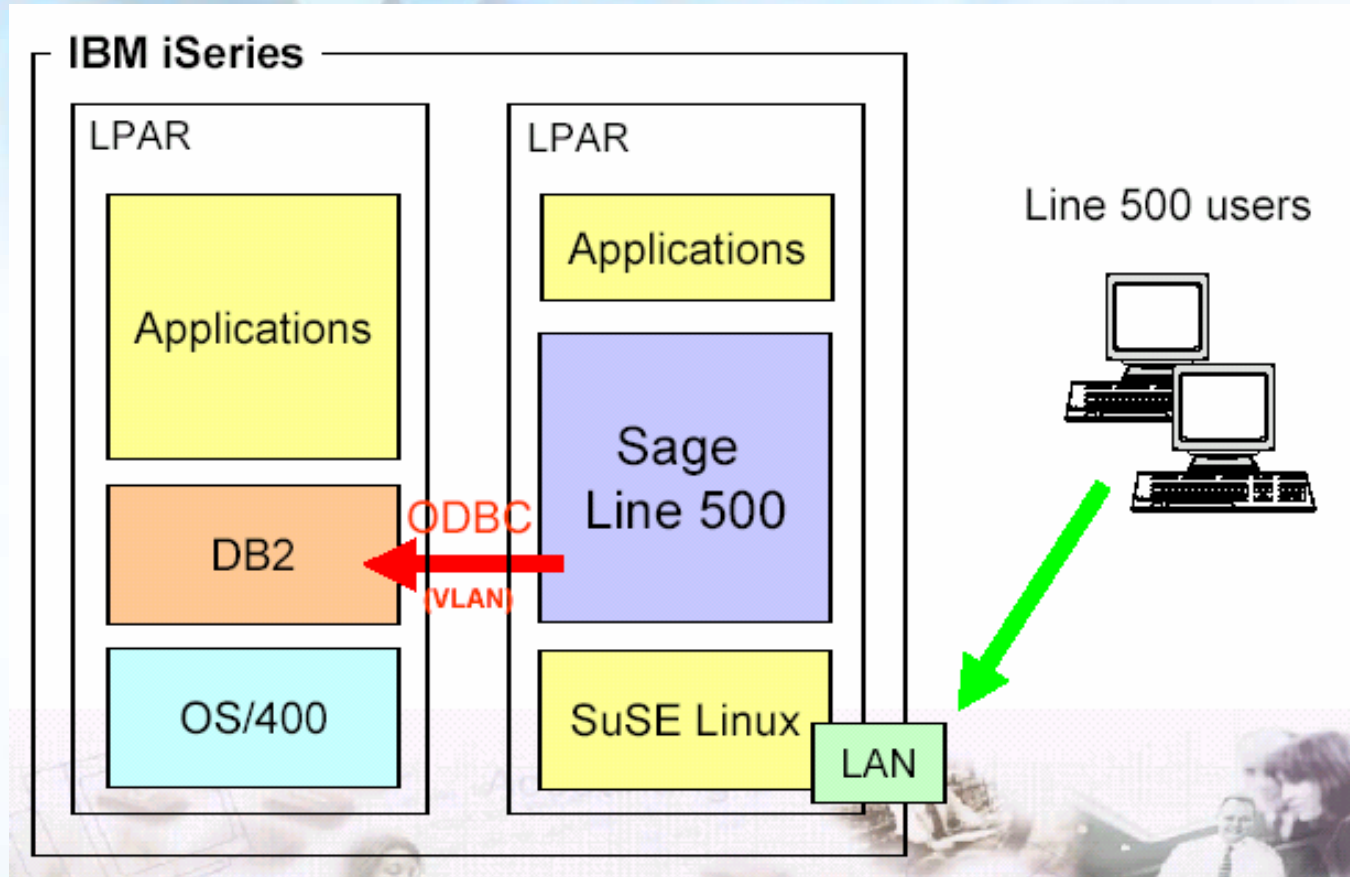
**Management Information Systems and Desktop Integration  
GUI or Web Client**



**Hardware and Networking Infrastructure  
Operating Environment ...Windows, UNIX or LINUX  
Supported Databases..... Informix,Oracle, SQL server or DB2**



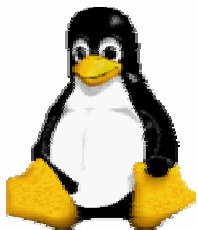
# Typical Line 500 iSeries config





# Siena

- Front and middle office banking application from Eurobase
  - treasury management and trading system
  - written in Java
  - run in Linux partition on iSeries



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