Linux Server Usage

The Specialists in IT

Outsourcing

Technical Consultancy

Outsourcing services

Application Consultancy

AS/400 cent

Application Management

AS/400

IBM Systems and Services

Automated Operations System

New Workloads 39.0%

Both 39.0%

Consolidation 22.0%

UNIX   NT
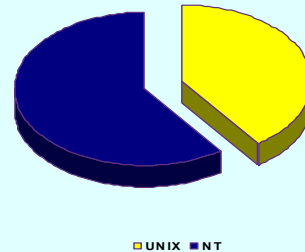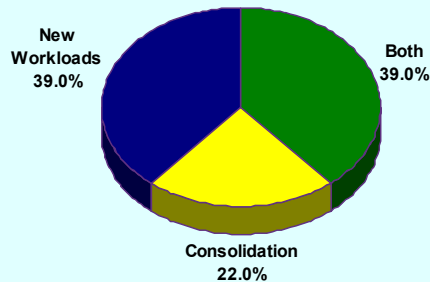
Multiple workloads on a single server
Workload migration
Virtualisation capabilities

Source: IBM IT Trends Survey

Linux on iSeries

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AS/400

IBM Systems and Services

Automated Operations System

LPAR1 OS/400 V5R1	LPAR2 OS/400 V4R5	LPAR 3	LPAR 4

Primary Partition

- **Consolidate up to 31 Linux servers on one iSeries Server**
  - Linux runs in iSeries logical partition
  - Move processor, memory and I/O resources between partitions
  - Supported with V5R1 on iSeries Model 270, 820,830 and 840
- **I/O Flexibility**
  - Virtual – Linux shares OS/400 managed disk, tape, CD-Rom and LAN resources
  - Direct – Linux owns I/O resources
- **Standard Linux from Leading Distributors: SuSE, Turbolinux and Red Hat**
  - Based on a 2.4, 64 and 32-bit PowerPC Kernel

Linux on iSeries Advantages

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- **Server Consolidation**
  - OS/400, Linux and Windows 2000 Server
  - Support for up to 31 Linux partitions

- **Resource Sharing**
  - Partitioning
  - Shared Processors
  - Virtual I/O: Disk, LAN, Tape, CD-Rom

- **Minimal Hardware Requirements for a Linux Environment**
  - Part of a processor, memory
  - Virtual I/O: Disk, LAN, Tape, CD-ROM

- **Reliable Server**
  - Leading single server availability
  - Unique virtual disk support provides excellent test/development environment

- **Storage Area Network Facilities**
  - Full OS/400 system backup provides disaster recovery for Linux virtual disks
  - Linux backup saves daily Linux files changes direct to iSeries tape device

- **OS/400 Integration**

WebSphere

- **Virtual Environment**
- **Allows applications to be available to users over the Internet**
- **Allows e-commerce transactions**

The Need for Availability

- **Shrinking Back-Up Windows**
  - Shrinking by 66% per year (Gartner Group)
- **Expanded Internet Dependence**
  - e-commerce/Web Enabled Information
- **Global Computing/Mobile/Remote Workers**
  - New Classes of Users/Driving 24x7 Requirements
- **Integrated Applications for Efficiency**
  - ERP/CRM/EAS – Exposes Entire Enterprise
- **Server Consolidation**
  - All Your Eggs in One Basket!