

The logo features the word "fedora" in a white, lowercase, sans-serif font on a dark blue background. The background is decorated with several white-outlined circles of varying sizes, some with a light blue gradient, resembling bubbles or water droplets. A larger, stylized white 'f' inside a dark blue circle is positioned at the bottom right of the logo area.

fedora™

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Unix to Fedora Linux Migration

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Overview

Motivations to migrate

Market situation

Methods

Examples



Motivations to migrate

Motivations to migrate

- **Cost Hardware/Software**

- Commercial Unix value comes from hardware integration
e.g. Solaris+SPARC, HP-UX+PA-Risc, Irix+MIPS etc.
- Linux runs on almost every notable platform e.g. ARM, IA32, IA64, PPC, SPARC
- Most available and popular on IA32

- **Vendor lock-in**

- Linux offers more flexibility and choice of platform

- **Usage of open platforms**

- **Implementation of industry standards**

- **Future of existing technology**



Market situation

Industry Trends: Why is Linux here ?

Enterprises need to reduce costs of IT while maintaining and improving quality

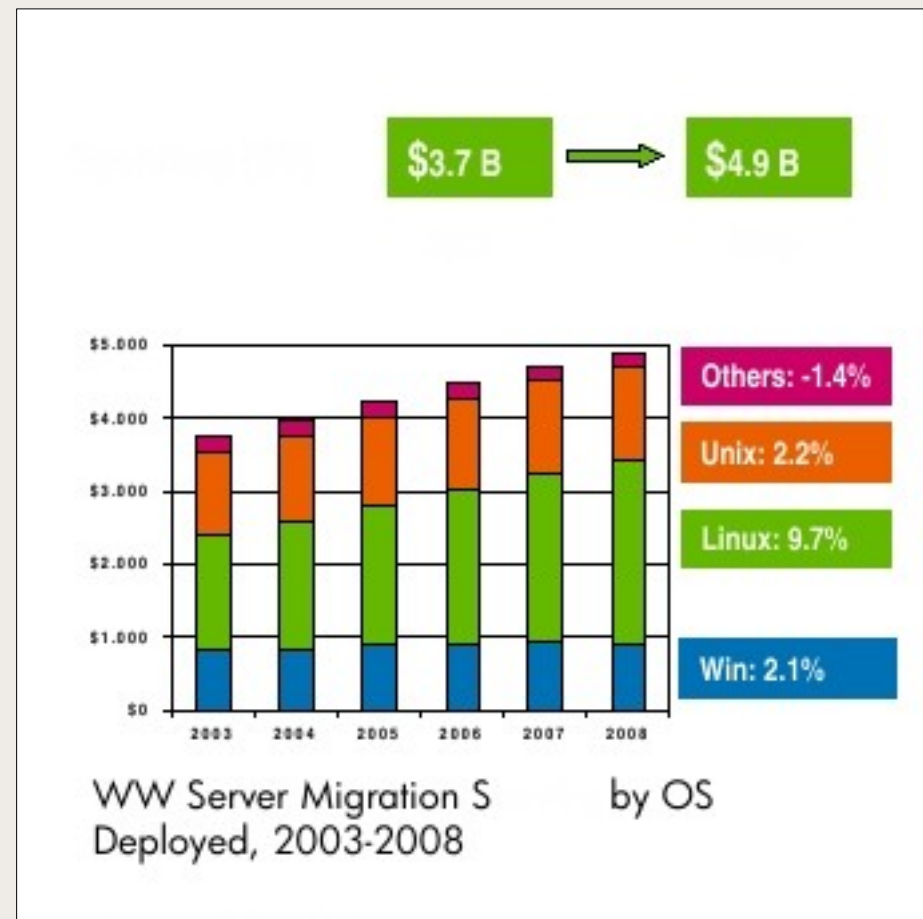
As per IDC 2004 report, Linux continues to grow in Web, infrastructure and technical markets

Linux can deliver

- Lower IT cost of ownership
- Runs on industry standard Intel architectures
- Makes the HW platform readily substitutable
- Decreases dependency on proprietary platforms

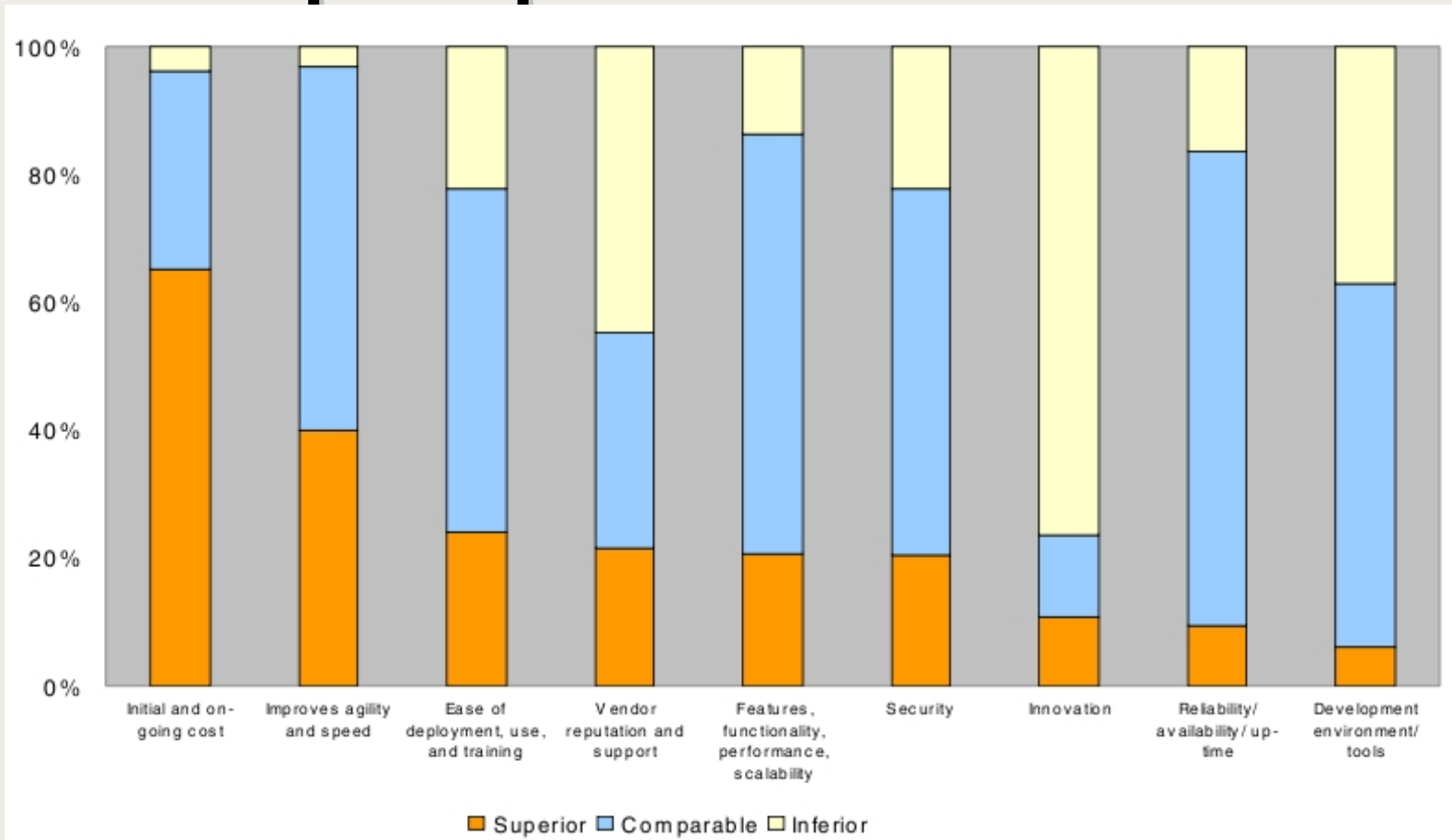
ISVs are motivated – significant business opportunity on Linux

Linux as an additional platform for ISVs



Linux versus Solaris:

Customer perception: Linux wins on cost



•Exploiting the perceived Linux advantage around “agility/speed” will require marketing communications and development to increase the business value customers place on this factor



Are you ready for OSS?

Near and long term implications of open source software

- **Near term**

- OSS runs on different operating systems and hardware platforms
- Easier to migrate
- Better support offerings (no vendor lock in)
- Regain full control over your infrastructure
- Cost control always is key

- **Long term**

- Leverage industry standard platform benefits
- Design the infrastructure you need – not the one you might get
- Become independent on HW platform

Guidelines for Using Open Source

- **Create a company policy**
 - Legal
 - Business
 - Community
- **Establish relationship with community**
- **Communicate**
 - Customers
 - Partners
 - Community

Associated cost of open source software

- Usually OSS doesn't come with a license fee
- You still need system administrators
- Through consolidation and optimization, processes can be redefined and streamlined
- Maintenance also still requires resources
 - can be done in house or external through service providers
- TCO comparison can help to determine cost savings
- Reference Architectures help mitigate the risk and also lower the cost of implementation

Linux Platform Cost of Ownership. 1/2

Hardware savings

- Intel/ AMD [vs. proprietary] servers cost less to acquire and are denser in design, requiring less racking, cabling, etc.

Software savings

- Fewer servers require fewer software licenses
- Use of open source software eliminates software license fees

Services & Support savings

- Intel [vs. proprietary] servers cost less to service and support – fewer servers cost even less
- Fewer software licenses equate to reduced software maintenance fees

IT Staff savings

- Strong leverage of existing UNIX knowledge base, as Linux is a UNIX derivative
- Fewer systems yields potential to reduce # of IT staff based on extent of infrastructure consolidation

Linux Platform Cost of Ownership. 2/2

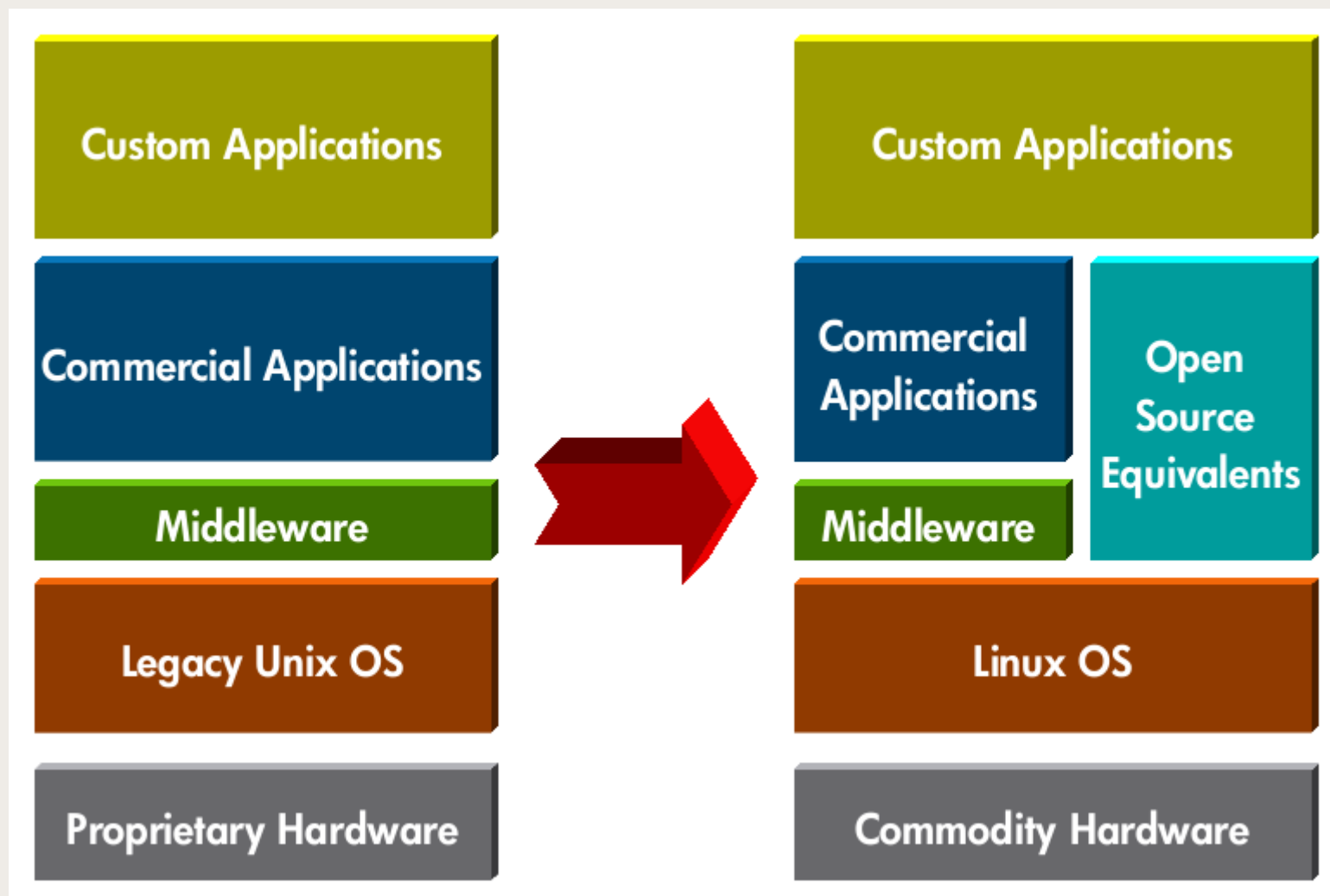
Facilities savings

- Fewer servers require less data center space, lower power consumption and reduced cooling Migration Methods

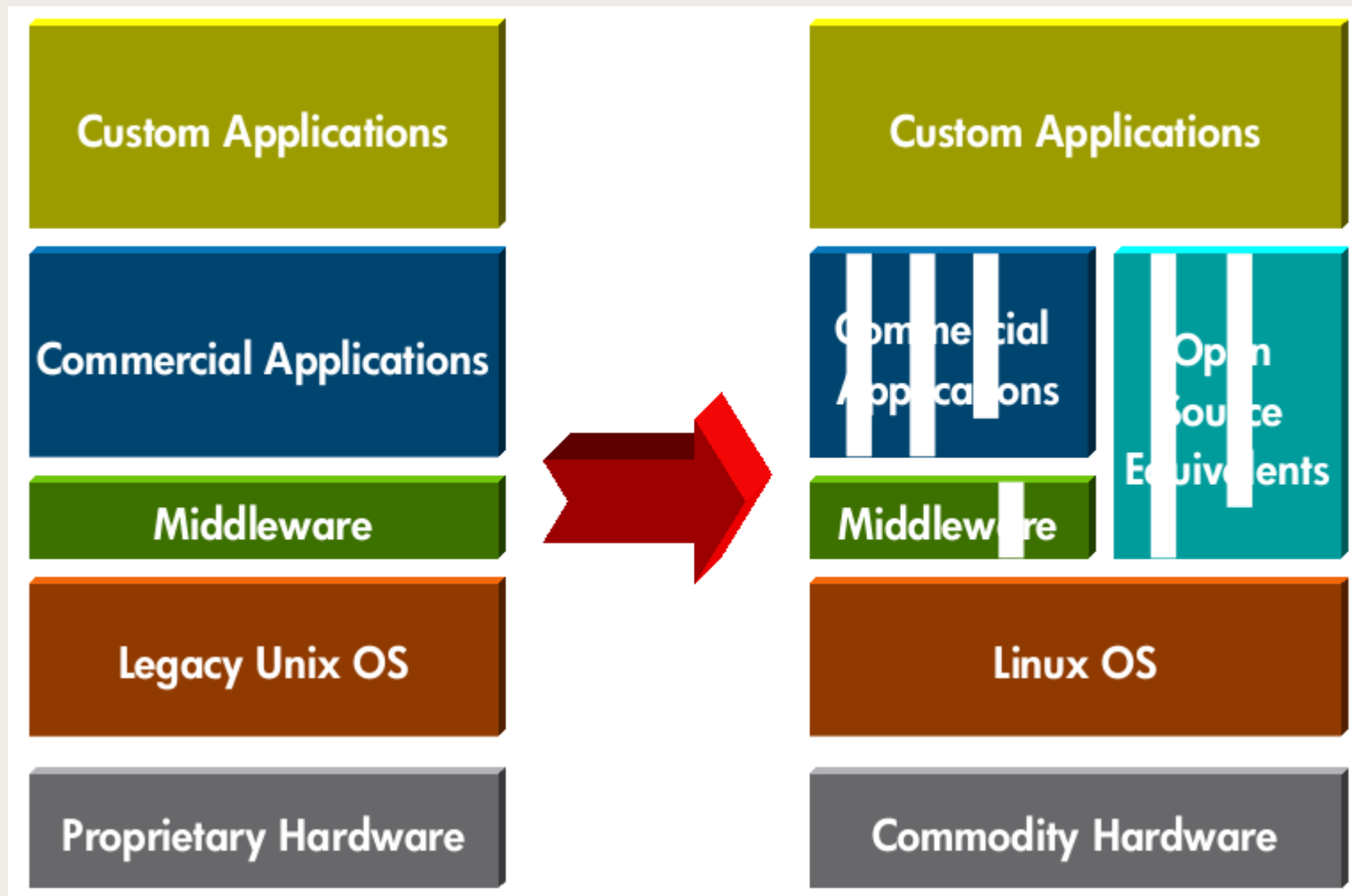


Migration Methods

Ideal Migration – Mirror Universes



More complex – Finding and filling gaps



Gap analysis

- Not every commercial application is available on Linux
- Find and fill gaps either with other applications.
- Chance for new projects, new applications.
- Work with ISV to port.



Migration Toolkits

Toolkits help port applications

- sctl library
 - <http://sctl.sourceforge.net>
- Tru64 Affinity toolkit
- SLPK – Solaris to Linux Porting Kit



Examples



Questions ?

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