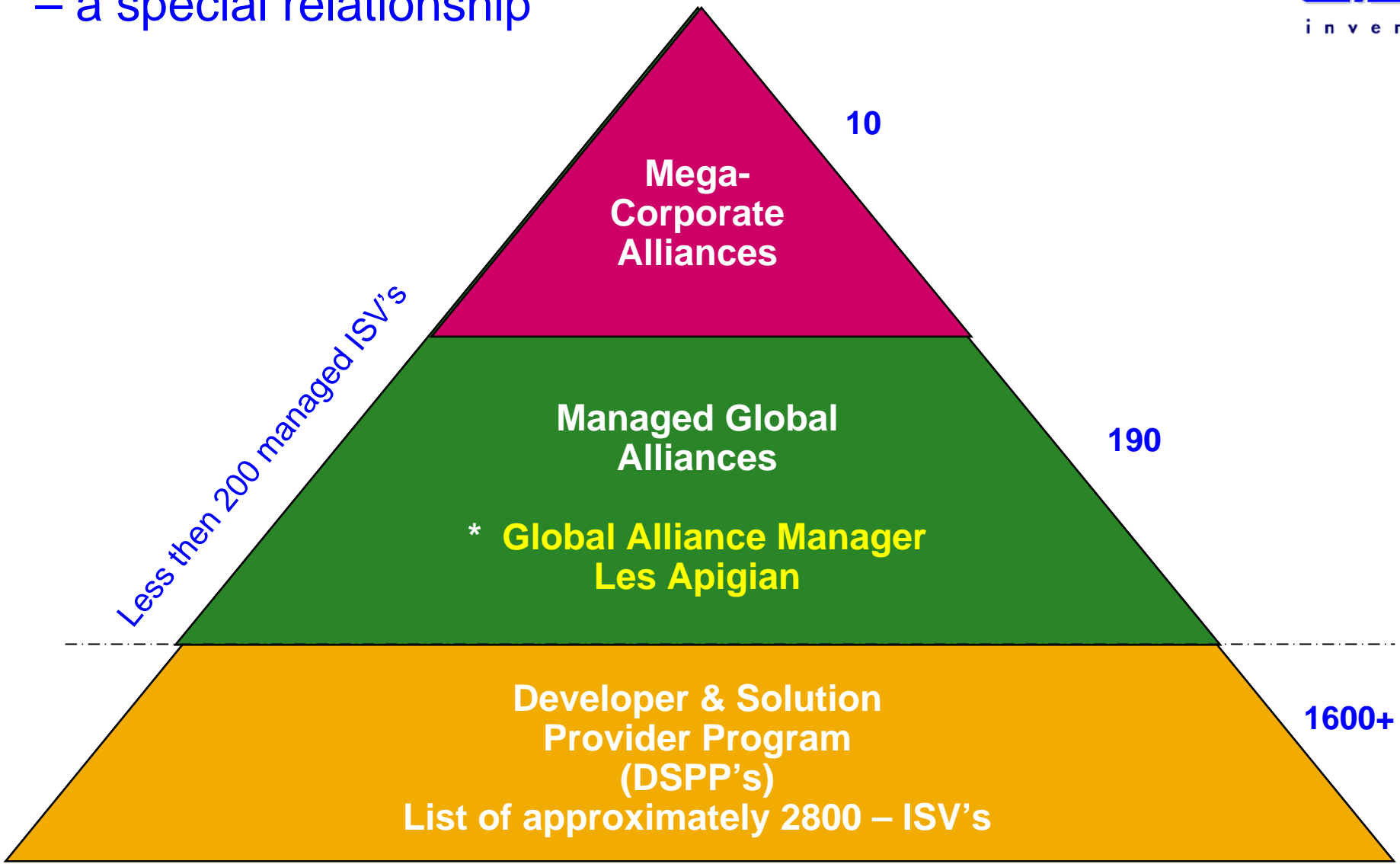


# Roadmap to Progress on HP

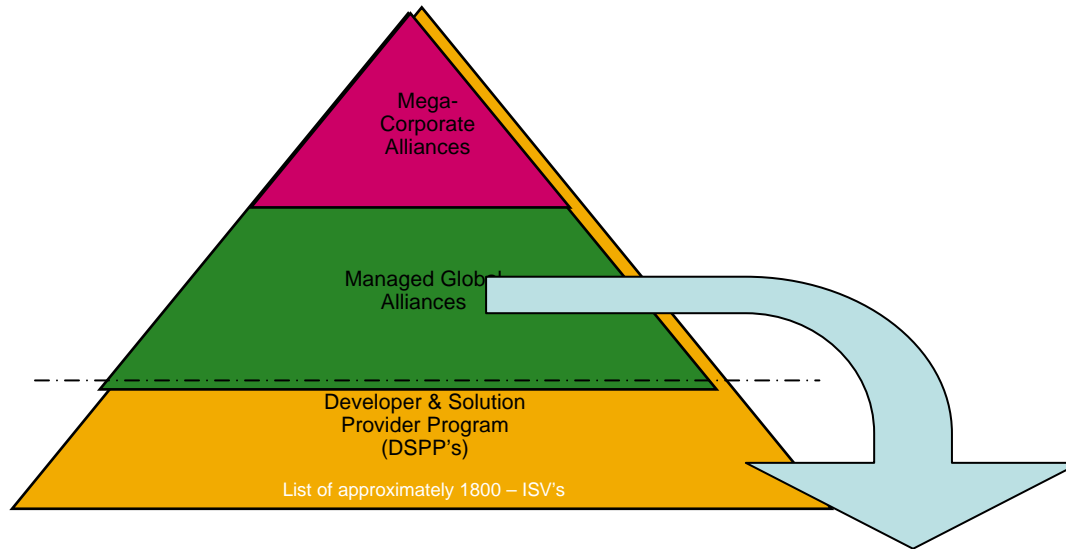
# Agenda

Progress and HP – the partnership  
HP “Branding”  
HP-UX Roadmap  
HP Itanium based Integrity Servers  
Itanium / Integrity in a Progress Implementation  
HP VSE and VM  
Progress Benchmarking  
HP’s Future  
Q&A

# Progress Software is Proactively Managed by HP – a special relationship



# Progress Software is Proactively Managed by HP – a special relationship



## HP Partner Division

**Kent Lipschultz**

(HP St.Paul Minnesota)

Technical Alliance Manager

651-982-9794 - kent.lipschultz@hp.com

DAL Lab

Direct Access to all other HP Labs

Equipment Resources

Benchmarking Centers

- Position HP as the preferred technology provider for end-to-end solutions for Progress' customers.
- Ensure tight integration of Progress® solutions with relevant HP technologies. (Servers, OS, Management, High Availability, Storage, etc...)
- Ensure that Progress solutions are optimized and benchmarked on HP hardware.
- Drive emerging technologies into Progress' market.

# Branding



## Industry Standard Servers



## Traditional RISC



## Storage



# Branding



## Industry Standard Servers



## Traditional RISC



## Storage



# Branding

## - HP "ProLiant" (Windows/Linux/Standard x86)



### » HP ProLiant ML100 Servers



- Powerfully simple, affordable 1-2 processor servers
- Suited for SMB environments and single-tier architectures
- Deploy for networking, file-and-print, shared Internet access, HPC clusters
- **Starting at: \$599.00\***

### » HP ProLiant ML300 Servers



- 1 and 2 processor servers with enterprise level management (iLO)
- Max internal storage and I/O flexibility
- Industry-leading performance and scalability
- **Starting at: \$899.00\***

### » HP ProLiant ML500 Servers



- Maximum server performance with 4 processors
- High availability with advanced memory protection
- Ideal for mission-critical applications and databases
- **Starting at: \$5249.00\***

### » HP ProLiant DL100 Servers



- Powerfully simple, affordable 2-way servers
- Suited for SMB & HPC environments and single-tier architectures
- Deploy for networking, file-and-print, and shared internet access
- **Starting at: \$1299.00\***

### » HP ProLiant DL300 Servers



- Versatile, general-purpose 1-2-way servers
- Perfect for enterprise data centers and sophisticated SMB environments
- Deploy e-mail and database applications, front-end network applications
- **Starting at: \$969.00\***

### » HP ProLiant DL500 Servers



- Scalable, workhorse 4- 8-way servers
- Ideal for compute-intensive and mission-critical applications
- Deploy for large-scale messaging platforms, large databases, ERP and CRM applications
- **Starting at: \$6349.00\***

### » HP ProLiant DL700 Servers



- Scalable, workhorse 4- 8-way servers
- Ideal for compute-intensive and mission-critical applications
- Deploy for large-scale



# Branding

## - HP UNIX Servers



### “HP9000” PARISC Based

#### » High-end



- Proven High-end Server
- Scalable to 128-way
- Solid Investment Protection

#### » Mid-range



- 8 to 32-processors
- Highly available and flexible
- Superb for low cost server consolidation

#### » Entry-class



- Aggressive price/performance
- Agility and flexibility
- Unprecedented investment protection

### “Integrity” Itanium Based

#### » High-end servers



- Outstanding high-end performance
- Enhanced Scalability to 128-processors
- Continued Investment protection

#### » Mid-range servers



- 8 to 32-processor capable servers
- Highly available and flexible to address a wide range of enterprise computing needs
- Superb for low cost server consolidation

#### » Entry-class servers



- Designed for all-around ease of ownership
- Exceptional flexibility and expandability for growing businesses
- Outstanding performance for single server or cluster deployments

# Branding - HP UNIX Servers



» High-end      » Mid-range      » Entry-class

“**HP9000**”  
PARISC  
Based



» High-end servers      » Mid-range servers      » Entry-class servers

“**Integrity**”  
Itanium  
Based



# HP-UX Versions



Release Name Hardware platform	Operating System Release Identifier (HP Labs Name)	Official Release Name
HP-UX 11i version 1 HP 9000	B.11.11	HP-UX 11i v1
HP-UX 11i version 1.5 Integrity	B.11.20	HP-UX 11i V1.5
HP-UX 11i version 1.6 Integrity	B.11.22	HP-UX 11i v1.6
HP-UX 11i version 2 Integrity and HP9000	B.11.23	HP-UX 11i v2



# HP-UX Versions

HP wants all clients on both HP9000 (PARISC) and on HP Integrity (Itanium) platforms to move to UX 11i v2

## System administration

- same install, patch, and update processes for both architectures

## Performance/scalability enhancements for HP 9000

- 15-25% performance up to 2x plus
- large file system to 32 TB
- 1-128-way support

## Scalability enhancements for HP Integrity servers

- 1-128-way support

HP-UX 11i version 2  
Integrity and HP9000

B.11.23

HP-UX 11i v2

# What does this look like from an ISV's perspective?

*GREAT - a single version that will support both platforms.*



Release Name Hardware platform	Operating System Release Identifier (HP Labs Name)	Official Release Name
HP-UX 11i Version 1 HP 9000	B.11.11	HP-UX 11i v1
HP-UX 11i version 1.5 Integrity	B.11.20	HP-UX 11i V1.5
HP-UX 11i version 1.6 Integrity	B.11.22	HP-UX 11i v1.6
<b>HP-UX 11i version 2</b> <b>Integrity and HP9000</b> <b>(Itanium) (PA-RISC)</b>	<b>B.11.23</b>	<b>HP-UX 11i v2</b>

# HP-UX Versions



Public Name	Lab Name	Release Date	No Longer Sold (Discontinuance)	End of Support (Obsolescence)
HP-UX 10.20 (PA-RISC)	10.20	Aug 1996	June 2002	June 2003
HP-UX 11.00 (PA-RISC)	11.0	Nov 1997	Mar 2004	Dec 2006
HP-UX 11i v1 (PA-RISC)	11.11	Dec 2000	Dec 2008	Dec 2013
HP-UX 11i v1.5 (Itanium)	11.20	Aug 2001	Dec 2002	Mar 2003
HP-UX 11i v1.6 (Itanium)	11.22	Aug 2002	Apr 2004	Oct 2005
HP-UX 11i v2 (PA-RISC & Itanium)	11.23	Oct 2003 (Oct 2004 for PA)	2008 (estimate)	2013 (estimate)
HP-UX 11i v3 (PA-RISC & Itanium)	11.31	TARGET DATE END of 2006		



Public Name	Lab Name	Release Date	No Longer Sold (Discontinuance)	End of Support (Obsolescence)
HP-UX 10.20 (PA-RISC)	10.20	Aug 1996	June 2002	June 2003
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HP-UX 11i v1 (PA-RISC)		Dec 2000	Dec 2008	Dec 2013
HP-UX 11i v1.5 (Itanium)	11.23	Apr 2004	Dec 2002	Mar 2003
HP-UX 11i v1.6 (Itanium)	11.22	Aug 2002	Apr 2004	Oct 2005
HP-UX 11i v2 (PA-RISC & Itanium)	11.23	Oct 2003 (Oct 2004 for PA)	2008 (estimate)	2013 (estimate)
HP-UX 11i v3 (PA-RISC & Itanium)	11.31	TARGET DATE END of 2006		

**HP-UX 11i v3 will support both PA-RISC and Itanium.**

**HP-UX 11i v3 will be binary compatible with previous 11.x versions.**

**Non-kernel intrusive apps currently on HP-UX 11.x will "just work".**



# BRANDING

## HP Unix Servers

» High-end      » Mid-range      » Entry-class

“**HP9000**”  
PARISC  
Based



» High-end servers      » Mid-range servers      » Entry-class servers

“**Integrity**”  
Itanium  
Based





# BRANDING

## HP ~~Unix~~ Servers

» High-end      » Mid-range      » Entry-class

“HP9000”  
PARISC  
Based



» High-end servers      » Mid-range servers      » Entry-class servers

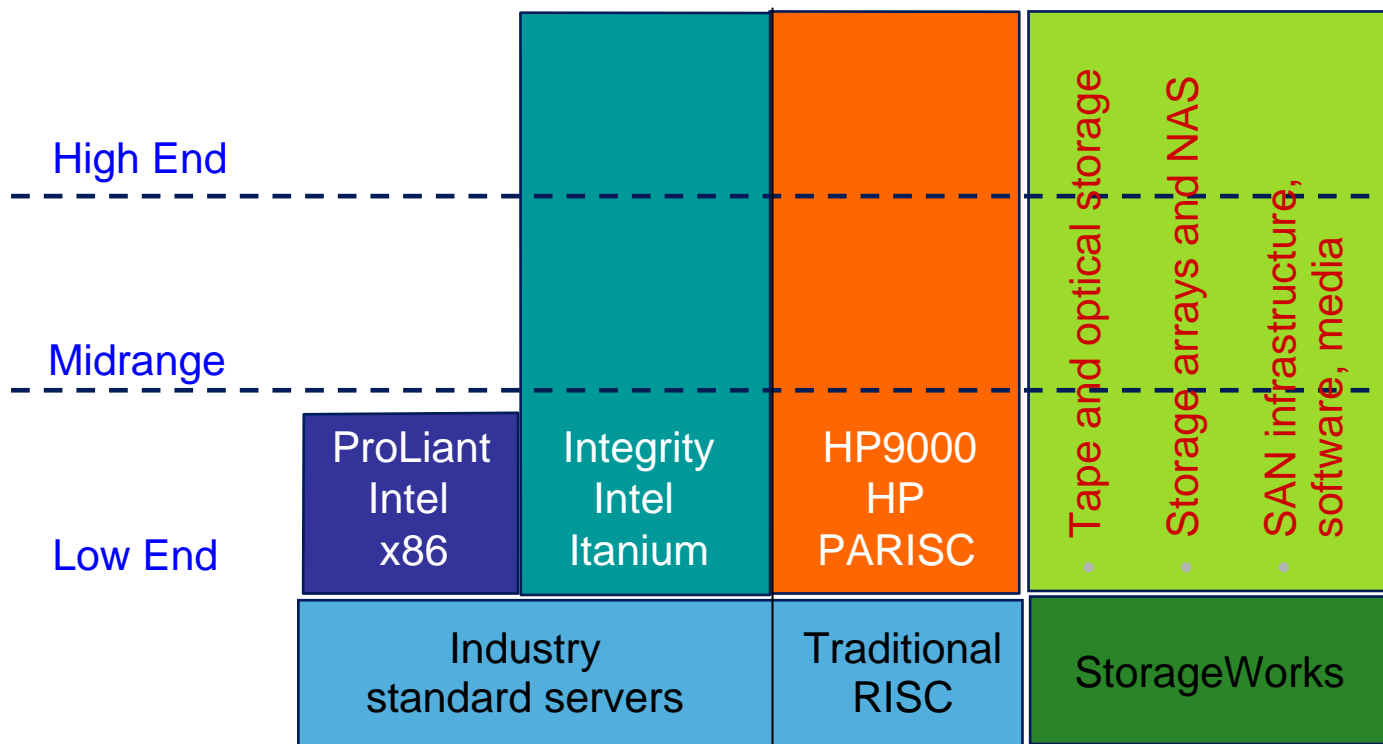
“Integrity”  
Itanium  
Based



# The Progress Landscape



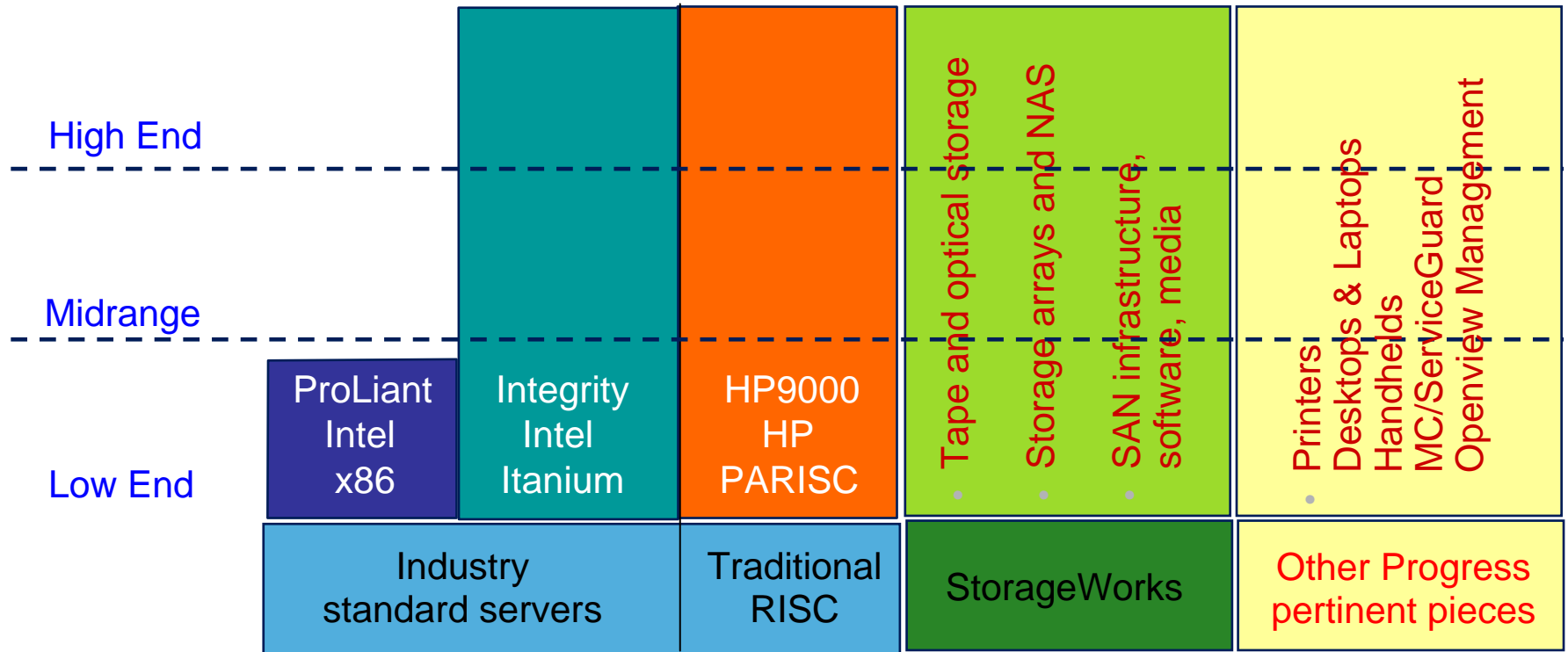
*HP is the most robust and complete hardware partner.*



# The Progress Landscape



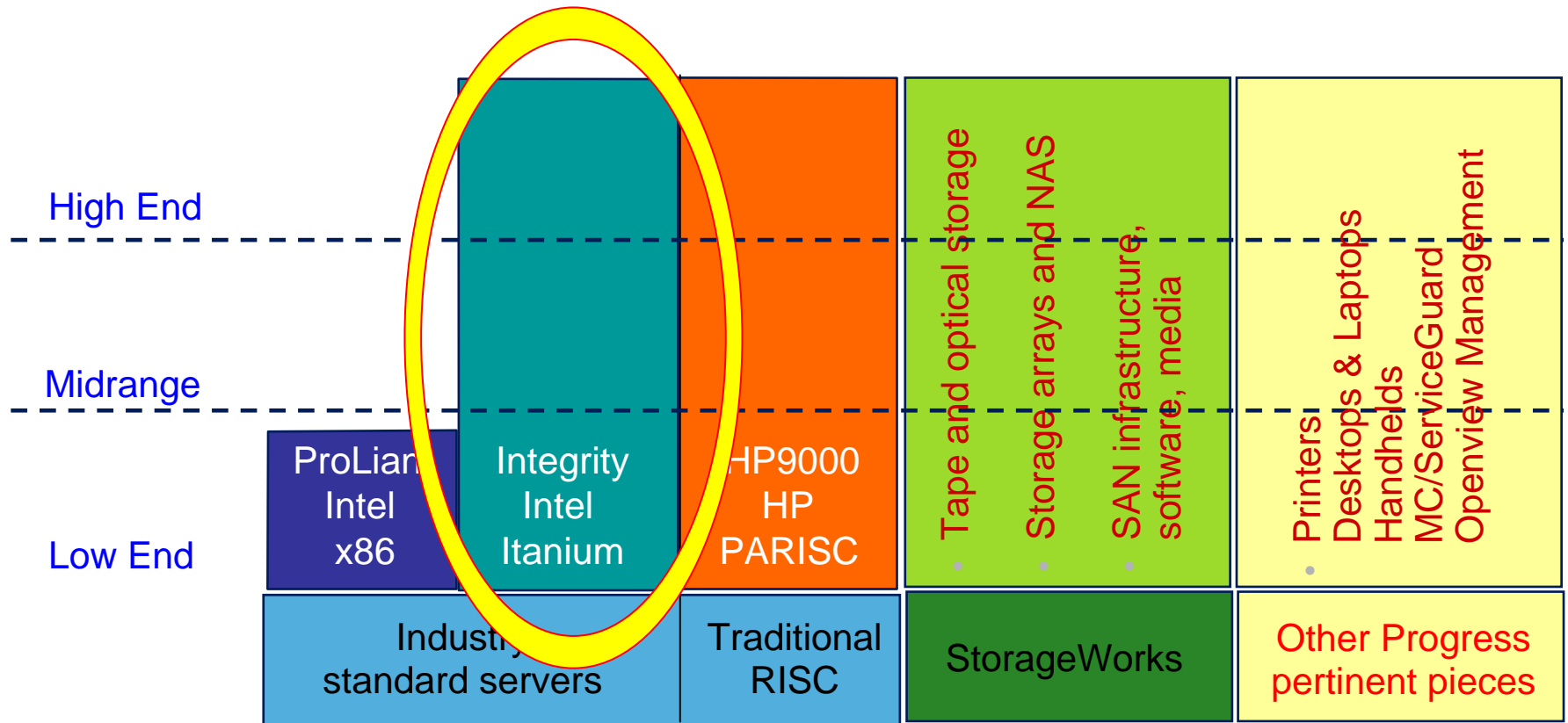
*HP is the most robust and complete ~~hardware~~ partner.*



# The Progress Landscape

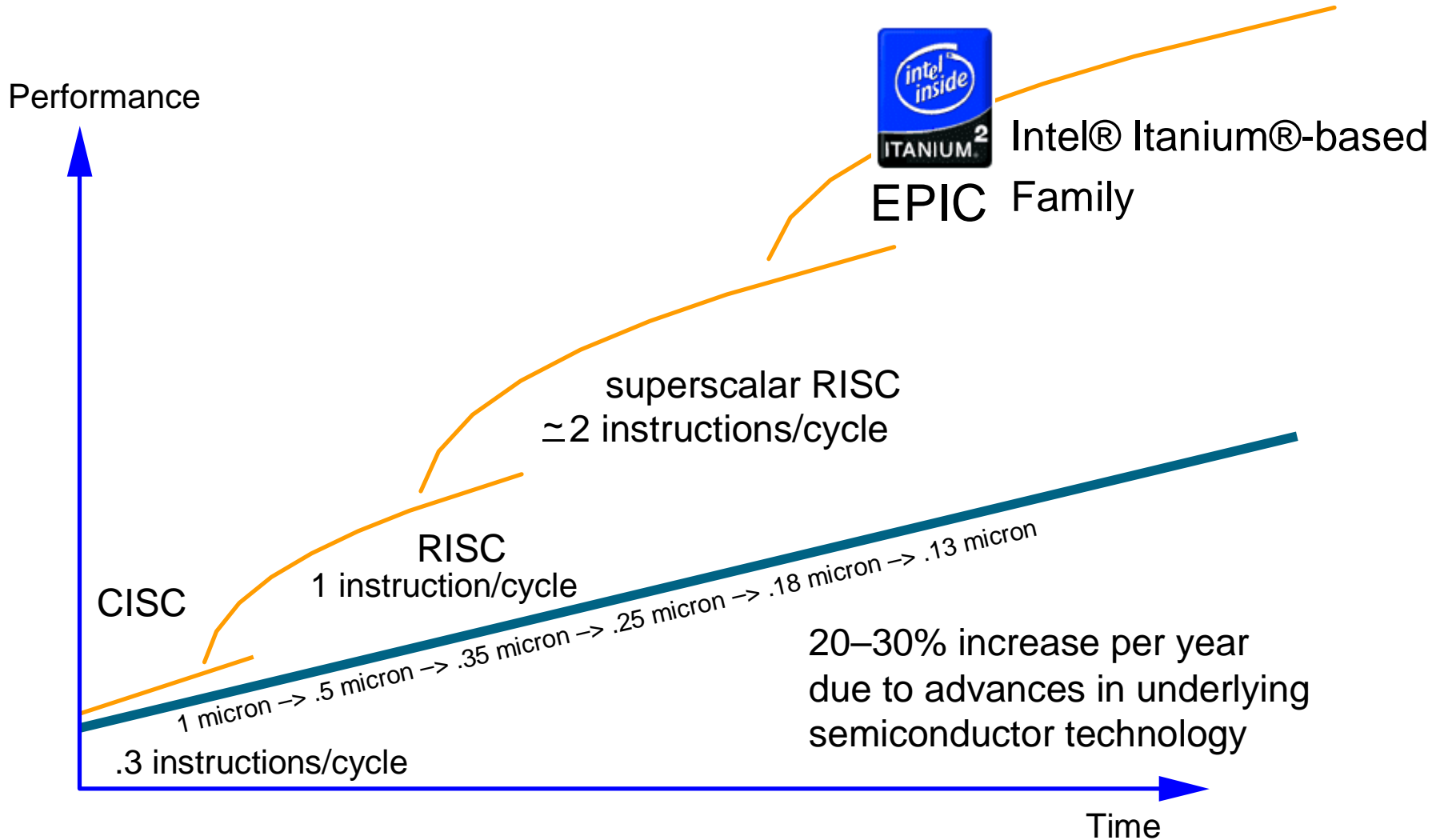


*HP is the most robust and complete ~~hardware~~ partner.*



# HP Integrity – Intel Itanium based Servers

*The FUTURE of your Progress enterprise!*



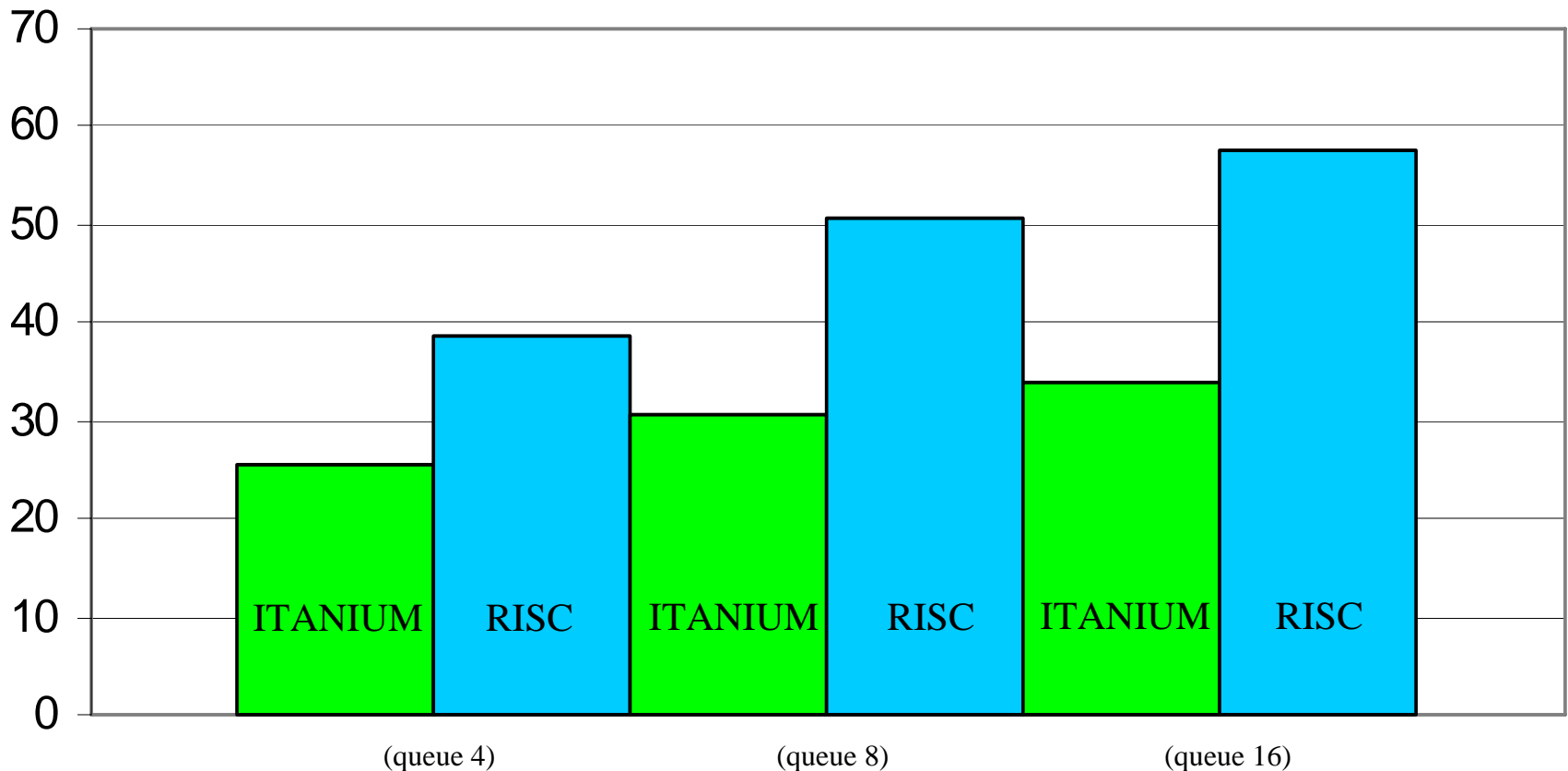
# HP Integrity – Intel Itanium based Servers

## *Single Core vs Single Core*



At lower CPU utilization:

**LOWER IS BETTER!**

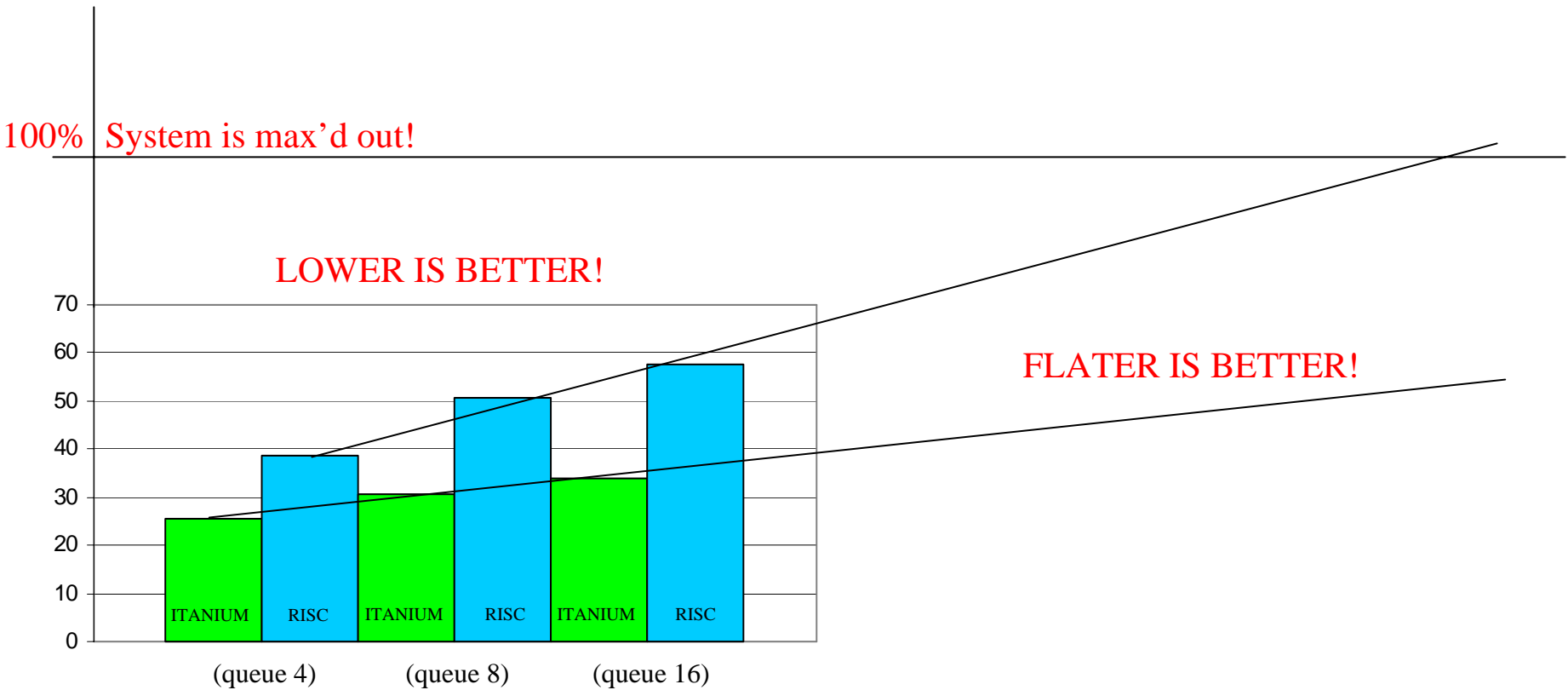


# HP Integrity – Intel Itanium based Servers

## Single Core vs Single Core



Better scaling:



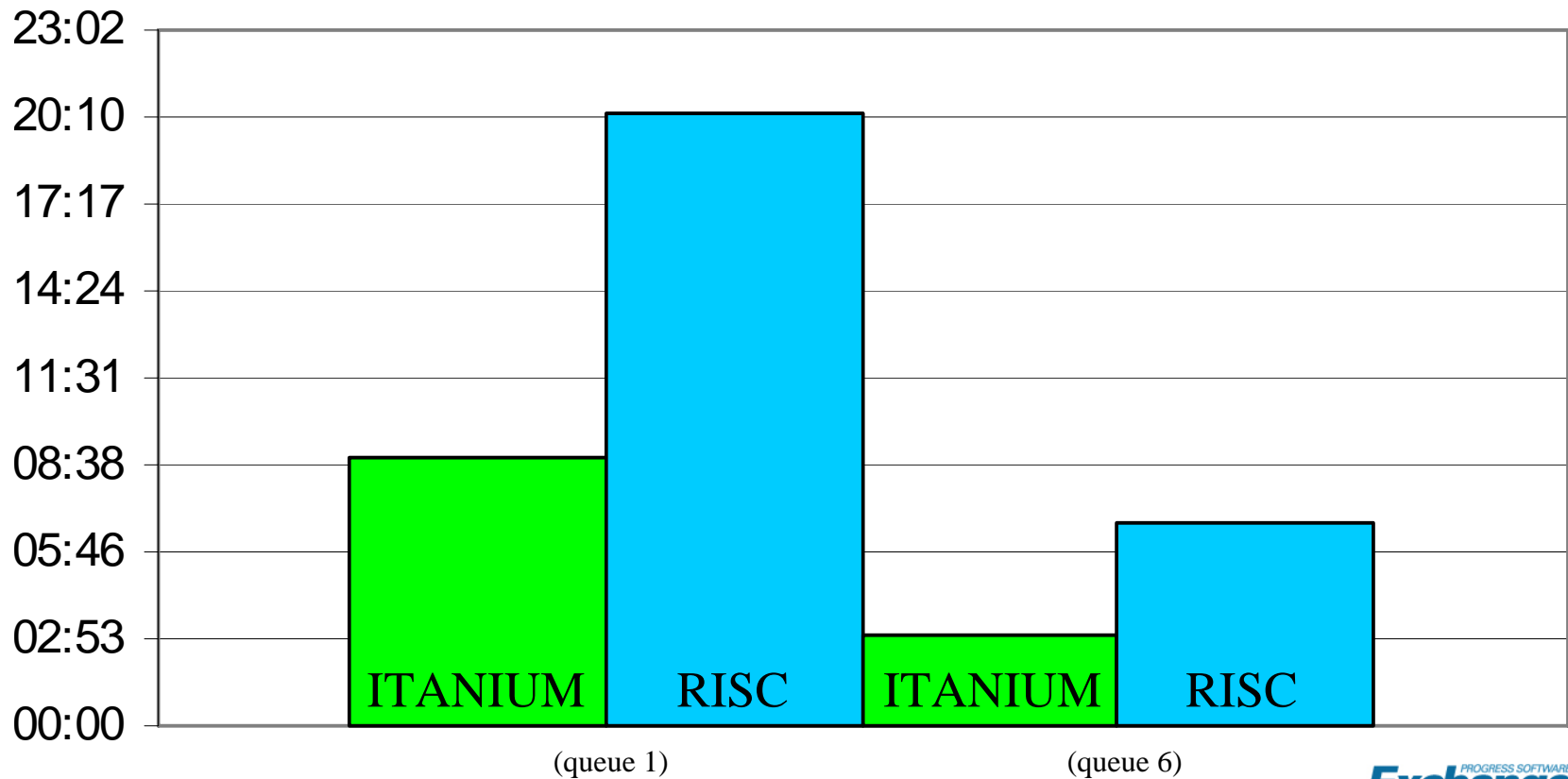
# HP Integrity – Intel Itanium based Servers

## Single Core vs Single Core



Faster transactions processing speed & smaller batch window:

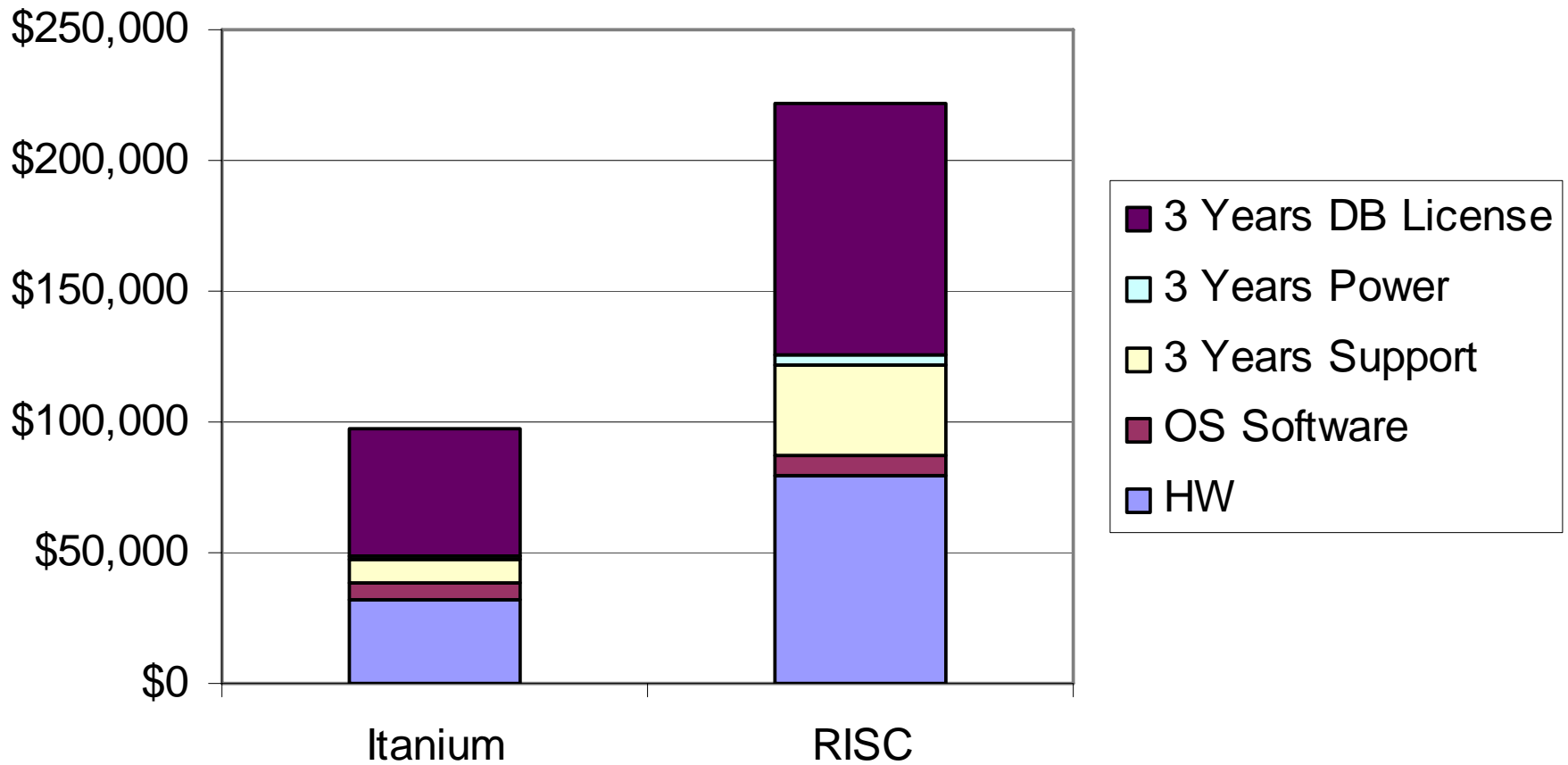
**LOWER IS BETTER!**





# HP Integrity – Intel Itanium based Servers

## Single Core vs Single Core



# Progress “Combined Configuration”

## WEB & APP & DB SERVER



INTERNET  
INTRANET  
OR  
EXTRANET



OS: **UNIX or Windows**  
DB: **Progress**  
APPS: **Progress 4GL**

# Progress “Separate Configuration”



INTERNET  
INTRANET  
OR  
EXTRANET

**WEB & APP  
SERVER**



OS: **UNIX or Windows**  
APPS: **Progress 4GL**

**DB  
SERVER**

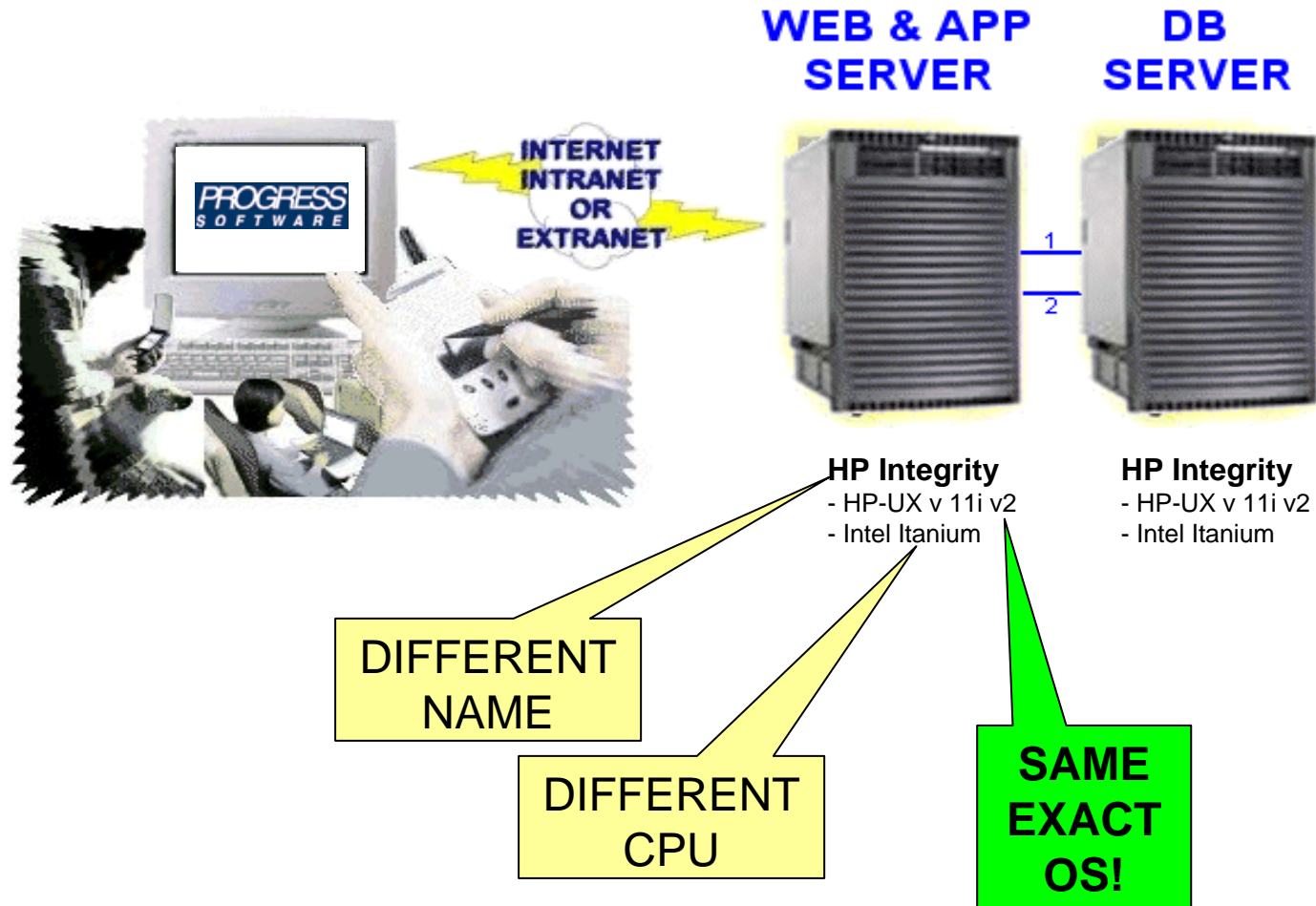


OS: **UNIX or Windows**  
DB: **Progress**

# HP9000's PA-RISC Platform



# What changes with Integrity?



# HP Servers

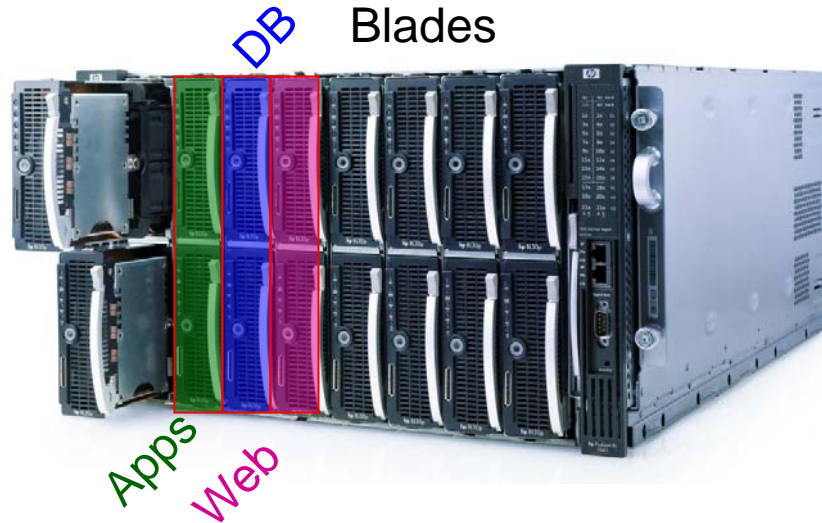
Stand Alone



Rack



Blades



# HP Servers

Stand Alone



Rack



Blades

# HP Virtual Server Environment (VSE)



## HP Virtual Server Environment (VSE)

### Control

### Availability

### Partitioning

### Utility Pricing

Existing components:	<ul style="list-style-type: none"> <li>• Workload Manager</li> <li>• Systems Insight Manager</li> </ul>	<ul style="list-style-type: none"> <li>• Serviceguard</li> <li>• SGeRAC</li> </ul>	<ul style="list-style-type: none"> <li>• nPars</li> <li>• vPars</li> <li>• Process Resource Manager / pSets</li> </ul>	<ul style="list-style-type: none"> <li>• Instant Capacity</li> <li>• Temporary Instant Capacity</li> <li>• Pay Per Use</li> </ul>
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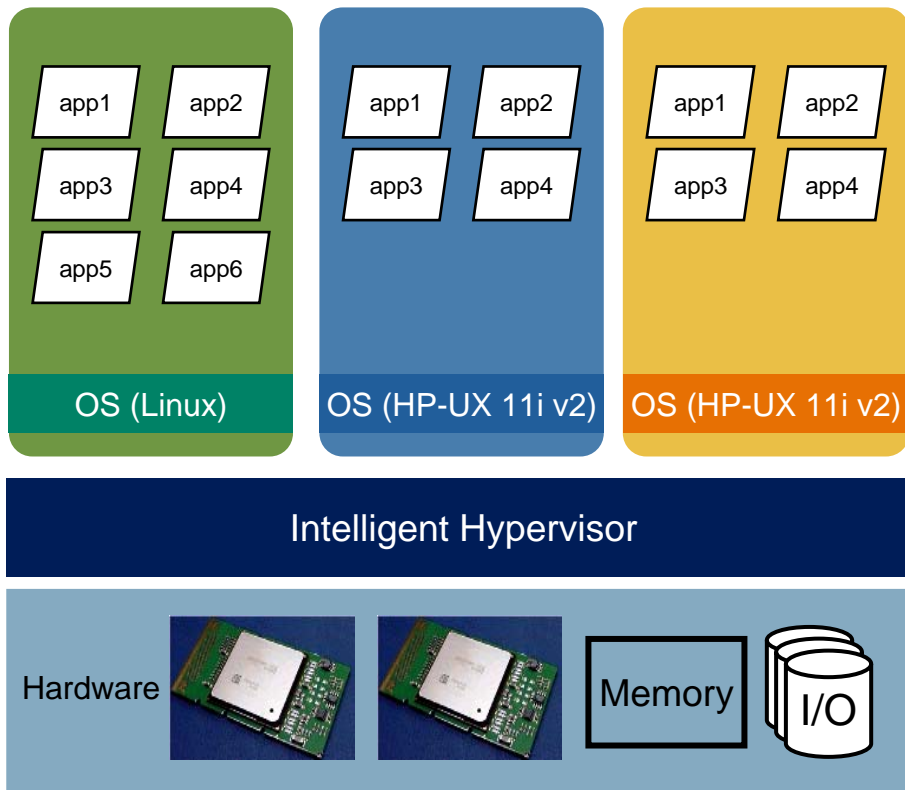
New components:	<ul style="list-style-type: none"> <li>• Global Workload Manager</li> </ul>	<ul style="list-style-type: none"> <li>• Serviceguard Fast Failover</li> <li>• Mixed clusters</li> <li>• Enhanced Serviceguard Manager</li> </ul>	<ul style="list-style-type: none"> <li>• Secure resource partitions</li> <li>• vPars on Integrity</li> <li>• HP Integrity Virtual Machines with sub-CPU and shared I/O</li> </ul>	
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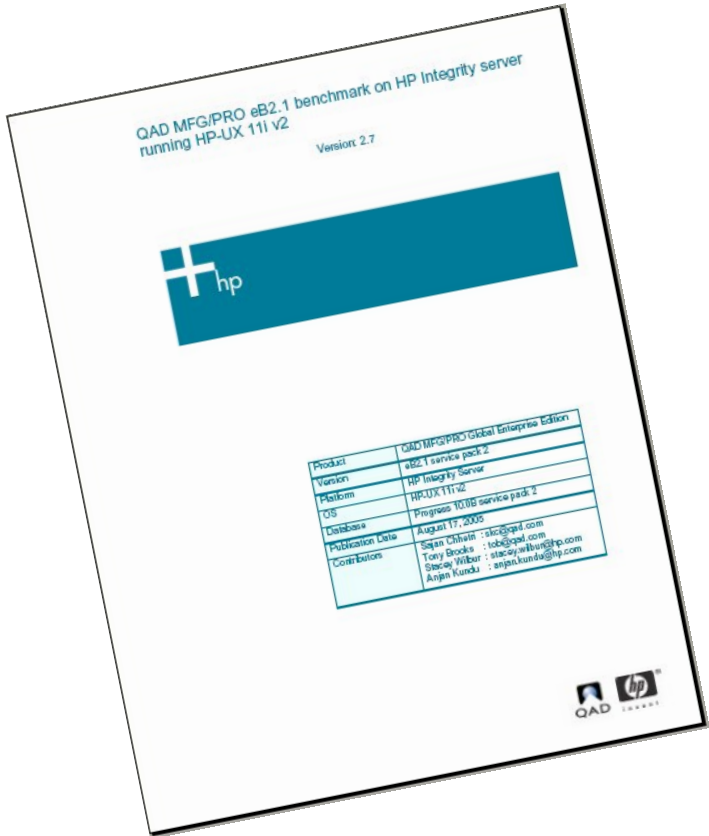
# HP Integrity Virtual Machines (VM)

## - Optimum utilization across multi-OS

**NEW**  
**INTEGRITY**  
**ONLY**



- Sub CPU virtual machines with shared I/O
- Runs on a server or within an nPar
- Dynamic resource allocation built-in
- Resource guarantees as low as 5% CPU granularity
- OS fault and security isolation
- Supports all (current and future) HP Integrity servers
- Designed for multi OS – first on HP-UX 11i
- VSE integration for high availability and utility pricing



**APPLICATION SERVERS**  
HP Integrity  
rx2600  
2 way



**BACKEND SERVER**  
HP Integrity  
rx7620  
16 way



**FC ARRAY**  
HP StorageWorks



Network Switch

2 FC connections

SAN Switch



**“LOADING” SERVERS**  
HP Proliant  
ml380  
2 way

Performance benchmark whitepaper is available!

# Integrity (Itanium) & HP-9000 (PA-RISC)



- Integrity is HP's strategic 64 bit platform
- HP-9000 is on it's last chip upgrade (PA-8900)
- HP-9000's will continue to be available for several more years
- HP-9000's will continue to be supported for at least 5 years after the last system is sold
- PA/Itanium co-existence in Superdomes AS A FIELD UPGRADE
- Applications availability on Integrity is our top priority
- Montecito coming on HP-UX 11i v2 this year
- HP-UX 11i v3 at the end of this year

***HP is continuing to deliver exciting products and excellent performance across our full product line.***

Q&A?

Contact Us!

Les Apigian, HP Nashua, Global Alliance Manager  
603-884-5324, les.apigian@hp.com

Kent Lipschultz, HP St.Paul, Technical Alliance Manager  
651-982-9794, kent.lipschultz@hp.com

*Thank you for attending!*