

## HP Integrity Momentum

#### 11 de Abril del 2006





## Agenda - HP Integrity Servers

- Better RoIT (Return on IT) with HP Integrity systems
- Strategy
  - HP's Server Strategy
  - HP Integrity Servers Investment Strategy
     -build value on top of standards based processors-
- ISV wave of momentum for HP Integrity (portability)
  - Multi-OS capabilities
- Growth of New Architectures from Year 1\*
- Investment
  - ISA Commitment
  - Validated HP investment protection
- HP Integrity Price/Performance → Best TCO

# IT imperatives drive requirements for HP Integrity systems





Bring our high value projects up and online quicker



## Better return on IT with HP Integrity systems

Consolidate and simplify to free up resources



Meet the high service level expectations of our customers

# IT imperatives drive requirements for HP Integrity systems



### Flexible Capacity

- The capacity to meet the workloads on demand with the ability to be flexible about that, through virtualization, the movement of resources around, and inbox upgrades.
- Making the capacity of our Systems flexible, and therefore the capacity of our Data Centers flexible.

### Secured Availability

- Availability built in from the ground up, from systems to operating systems, to integration with applications.
- The availability, the stability and the security of the IT environment should improve as a result of this capability.

### Simplified Management

- Making the management job simpler, it should be easier to maintain the systems that we deploy,
- take fewer people to maintain those stable systems and,
- be easier to setup and operate a virtualized environment.

HP is investing in SIM (Systems Insight Manager), OpenView, and VSE (Virtual Server Environment) contributing to a better ROI.

### HP's Server Strategy



Moving to 3 product lines based on 2 industry-standard architectures



Mips

HP Integrity

HP 9000 / e3000 PA RISC

HP AlphaServer <sub>Alpha</sub>

HP ProLiant

Delivering superior choice and enabling larger investment in innovation

HP NonStop (Itanium based)

HP Integrity (Itanium based)

HP ProLiant (x86 based)

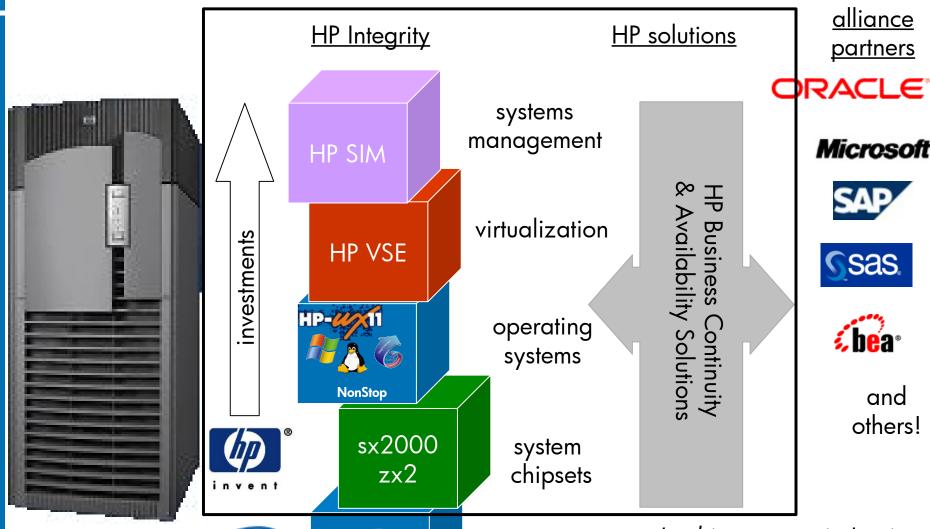
Unique innovation for a seamless IT environment

- Management
- Virtualization
- HA
- Storage
- Clustering

World class experience: collaborative approach to design and deliver an integrated IT environment

## HP Integrity Investment Strategy build value on top of standards based processor





<u>alliance</u> <u>partners</u>











and others!



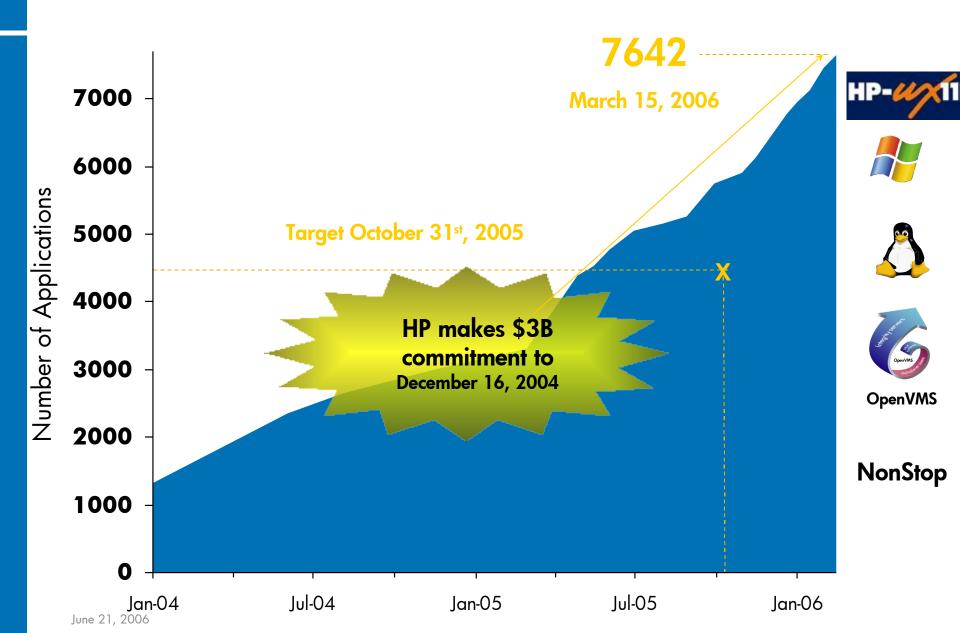


processor

Intel investment in Itanium free up HP to invest above the chip

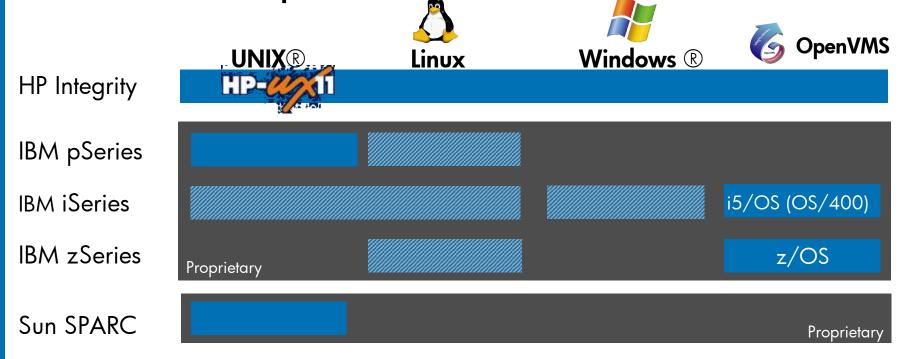
### ISV wave of momentum for HP Integrity





## HP Integrity servers Multi-OS capabilities



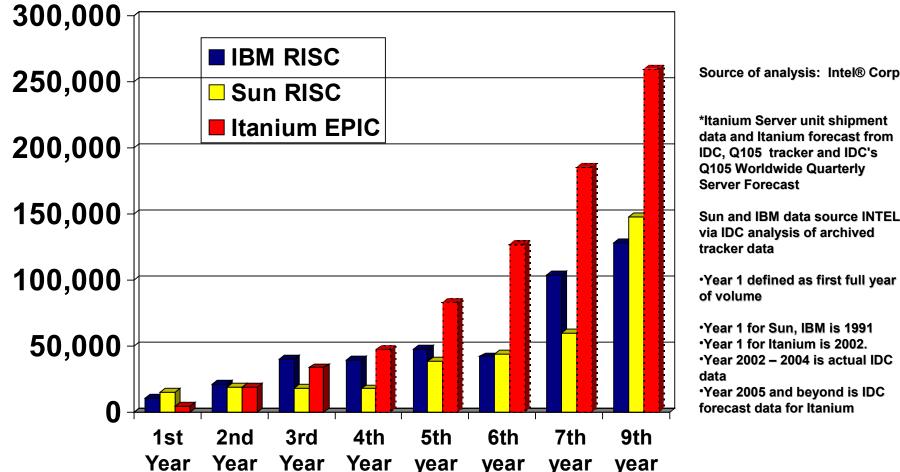


HP Integrity can run UNIX, Linux, Windows plus openVMS natively and concurrently on the same server



### Growth of New Architectures from Year 1\*





Source of analysis: Intel® Corp

data and Itanium forecast from

- ·Year 1 defined as first full year
- Year 2002 2004 is actual IDC

Itanium initial ramp on par with both Sun and IBM. Itanium future is forecasted to exceed Sun and IBM actuals.

## ITANIUM SOLUTIONS





**Systems Vendors** 

Bull

**Fujitsu** 

Fujitsu-Siemens

Hitachi

HP

Intel

NEC

SGI

Unisys

ISV's

**Oracle** 

**Microsoft** 

Novell

**BEA** 

**Red Hat** 

SAP

SAS

**Sybase** 

"IDC believes that the formation of the ISA may ultimately prove to be one of the most significant elements in driving future sales of Itanium servers"

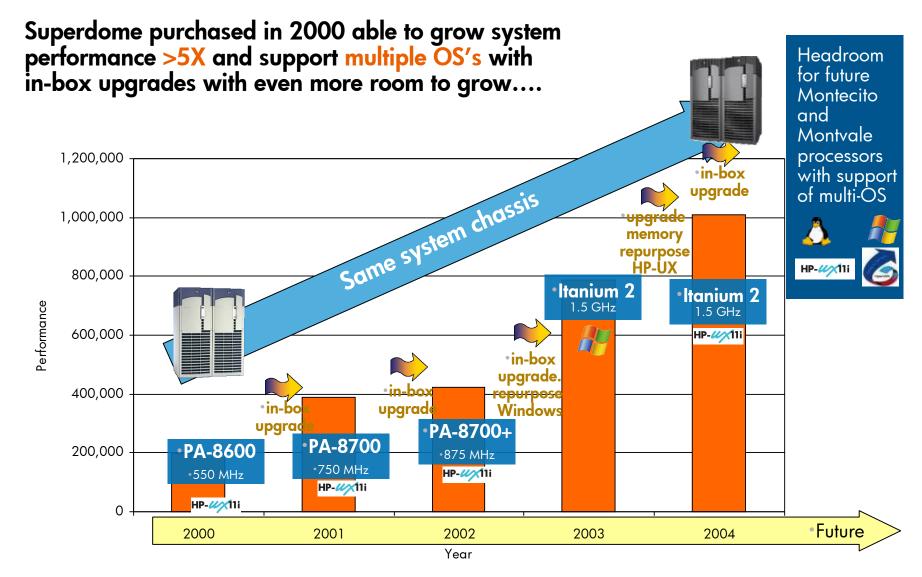
IDC: Customer Perceptions of the Future of Itanium February 2006

• No matter how you slice it \$10 Billion is a big commitment

√ customers benefit



Validated HP investment protection



### HP Integrity Oracle Advantage



Montecito gets the Oracle Intel/AMD dual core price

p5 570 TPC-C Executive Summary

2 chips/4 cores 203,440 tpmC \$3.93/tpmC Avail 10/17/05 rx4640 TPC-C Executive Summary

2 chips/4 cores 200,829 tpmC \$2.75/tpmC Avail 9/1/06

30% better price/perf

total system cost- \$799,990

	TPC-C Rev. 5.4					
I	Repo	rt Date	: October	17, 2005		
	760	26		19,760		
1	1,087	3		3,261		
	Su	ibtotal	749,439	23,021		
	50	1	50			
1	1,225	4	4,900			
1	1,958	4		7,832		
	496	4		1,984		
	675	1		675		
	236	1		236		
	515	1	515			
	103	2		206		
20	0,000	(3‡)	60,000			
- 6	6,000	<del></del>		6,000		
		1	-6,600			
	_57	_570_4	1 _Subtotal _570_4_200	-,		

total system cost- \$551,406

HP Description	Integrity rx4640				TPC-C Rev 5.6				
					Report Date: March 21, 2006				
	594.334955454-1667	9.5-25 (9.5-4.92		US List		an arrango		3Year	
	Part Number	Brand	Key	Price	Qty	Price		Main Price	
Server Hardware									
HP Integrity rx4640 Base System	AB370B		1	6,800		1	6,800		
1.6GHz/24MB dual-core processors	AD268A		1	14,663		2	29.325		
32-DIMM memory carrier board	A9739B		1	4,450		1	4,450		
73GB/15krpm hard disk drive	AB421A		1	688		1	688		
DVD-ROM slimline drive	A7163B		1	150		1	150		
16GB memory quad (4x4GB DIMMS)	AB475A		1	27,300		8	218,400		
3 Year Svc & Support Price (Hardware and Software)	HA110A3-6KT								\$8.7
PCI 1000 Base T Dual Port LAN Adapter Card	A7012A		- 1	1,800		1	1.800		100
PCI 2GB Fibre Channel Adapter (dual port)	A6826A		1	4,395		2	8,790		
HP Server Thin Client (monitor, keyboard/mouse, cable :	AB300B		1	1.250		1	1,250		
Rack Model 5642	358254-B21		1	689		1	689		
50 th				Subtotal			272,342		8,7
Server Software Oracle Database 10g Enterprise Edition, Per Processor	Runtime					_		_	
Unlimited Users, 3 years	romane	Oracle	2	20.000	(		40,000	· >	
Oracle Database Server Support Package		Oracle	2	2,000		<u>~</u>	40,000		6.0
HP-UX 11i Foundation Operating Environment	BA503AC		1	995		4	3.980		-,-
HPUX Factory Integrated	B9106AA, Opt 0D1		1	199		1	199		
			975	Subtotal		85.	44,179		6,00
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http://www.tpc.org/results/individual\_results/HP/hp\_tpcc\_rx4640\_es.pdf

### Power5 Oracle List Pricing

**0.75** x Cores

$$=.75 \times 4 \text{ cores} = 3 \times \$20,000$$

$$= $60,000 (list)$$

### <u>Itanium Oracle List Pricing</u>

**0.5** x Cores

$$=.5 \times 4 \text{ cores} = 2 \times \$20,000$$



## Year of Integrity

### Commitments:

 HP and Intel are fully committed to the success of HP Integrity Servers based on the Intel Itanium Architecture, with the support of ORACLE.

#### Trends:

- In Q4 FY05 the Integrity Server revenue grew 90% YoY, compared with 4% of IBM P Series.
- In Q1 FY06 revenue grew 94% YoY

### Business Continuity Strengths:

- More than a half of the Fortune 100 companies are running mission-critical applications on HP Integrity Servers
- The largest ORACLE/PeopleSoft implementations are running on Integrity Servers.