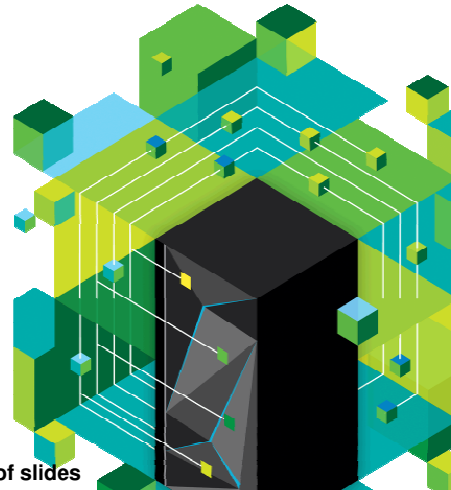




POWER7+ Quick Reminder / Refresh

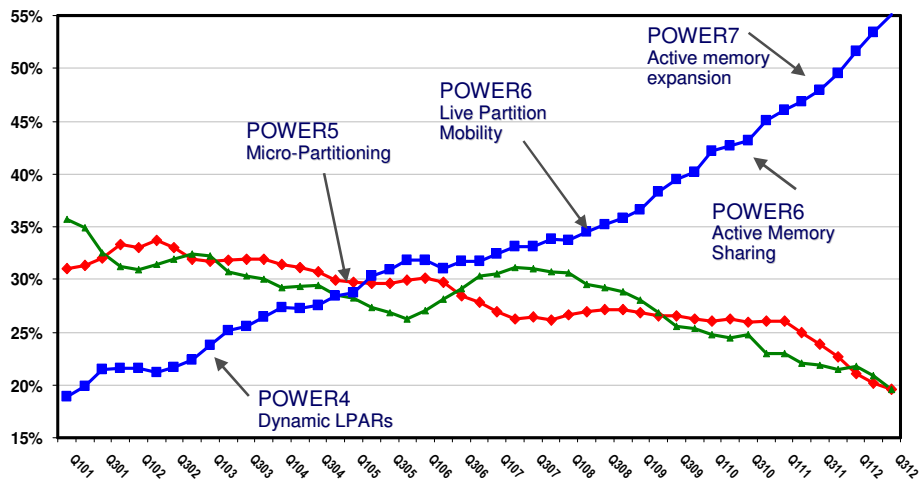


- Nigel Griffiths
- Power Systems, Europe
- Advanced Technology Support
- I do not speak for IBM
- This is my selection from 100's of slides



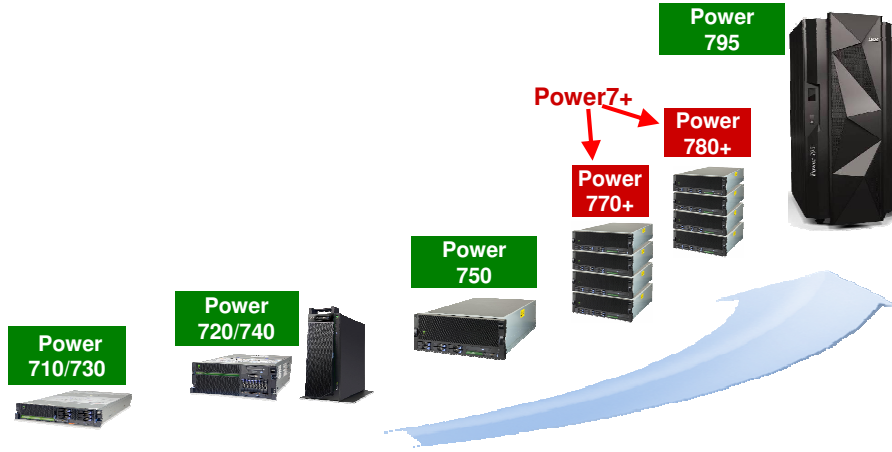
10Yr History Four Quarter Average Revenue Share UNIX Server Rolling Four Quarter Average Revenue Share

— HP — SUN/Oracle — IBM



Source: IDC Server Tracker, 2Q12

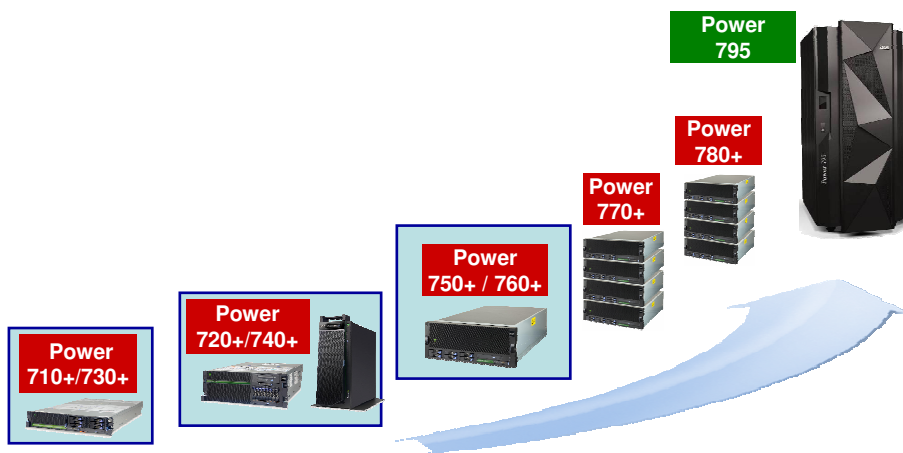
POWER7+ Portfolio before February 2013



3

© 2013 IBM Corporation

POWER7+ Portfolio Now

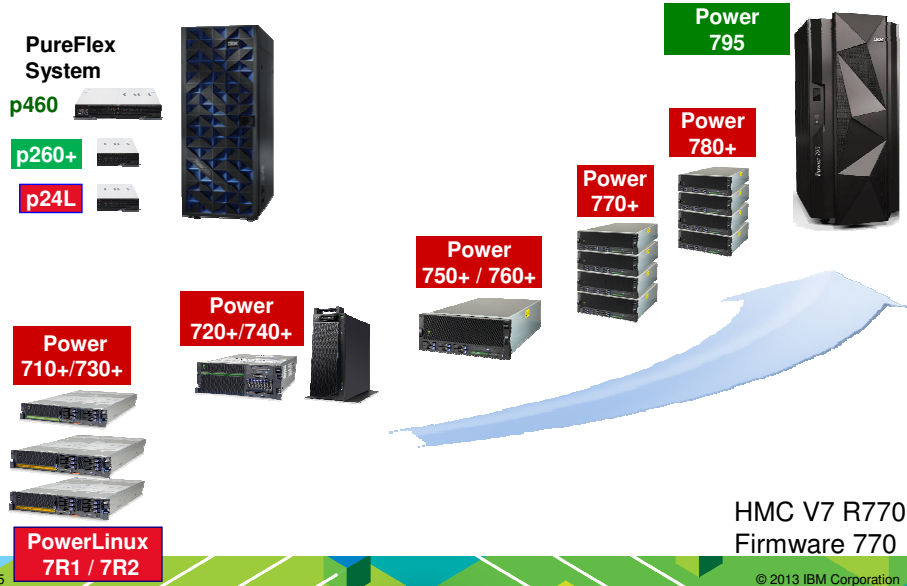


HMC V7 R770
Firmware 770

4

© 2013 IBM Corporation

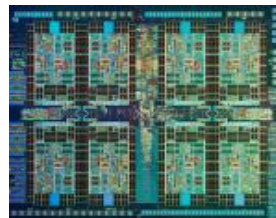
POWER7+ Portfolio Now



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POWER7+ Processor

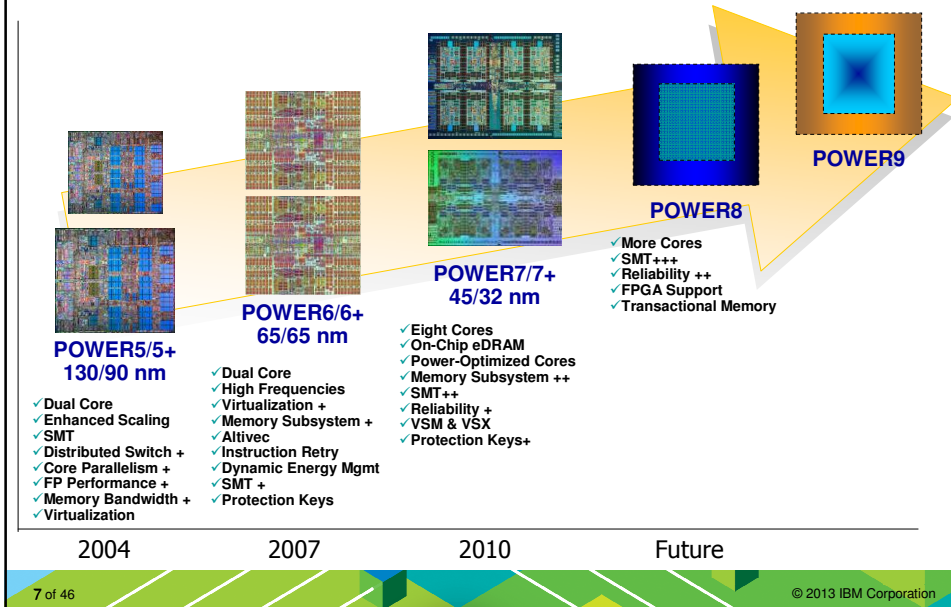
Same chips used from Power 710 to Power 780
plus PowerLinux and PureFlex Systems



6

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Power Processor Technology Roadmap



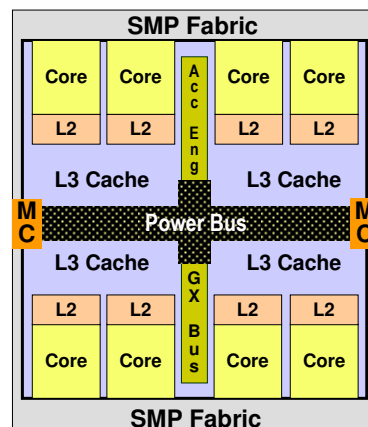
POWER7+ Processor Reminder

Physical Design:

- 32nm technology
- 4 / 6 / 8 core options

Features:

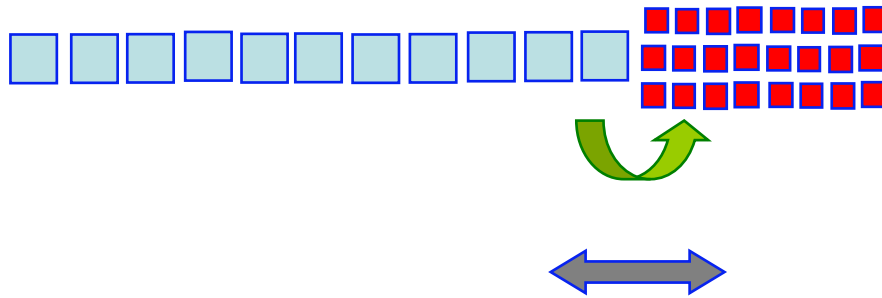
1. Higher GHz Frequencies (~20%+)
2. L3 Cache: 10 MB per core (was 4)
3. Processor Accelerators
 - Active Memory Expansion with lower CPU
 - Encryption / Cryptography Support
 - Random Number Generator
4. 1/20 core LPAR Granularity
5. 2x Single Floating Point performance
6. New RAS Features
7. Enhanced Energy / Power Gating



AME Conceptual Model

Active Memory Expansion

Memory Pages

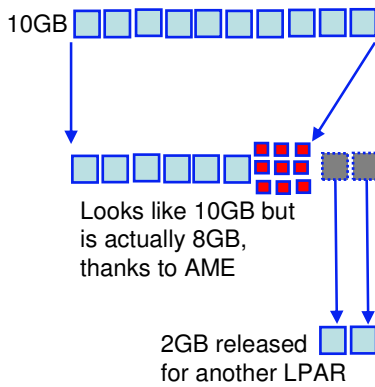


Jan 2010
AIX6 TL4+ on POWER7
Machine Activation (LPP)
- 60 day trial

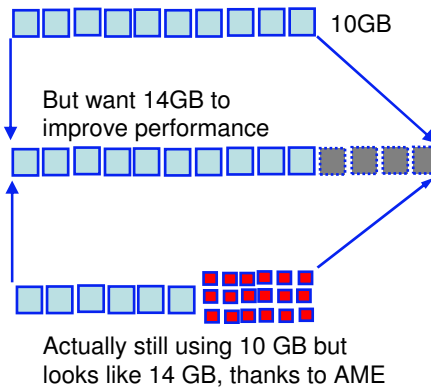
Dynamically adjusted depending on
compression ratio & target

AME - What is your Plan?

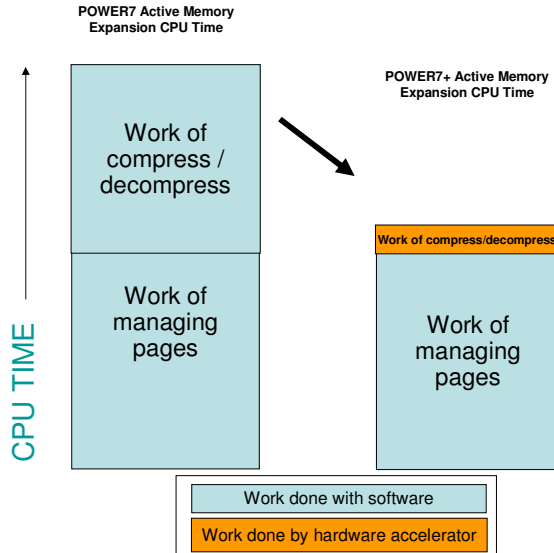
Memory Shrinking
to release RAM for other uses



Memory Growing
for RAM optimisation & performance



Active Memory Expansion with POWER7+ HW Accelerator



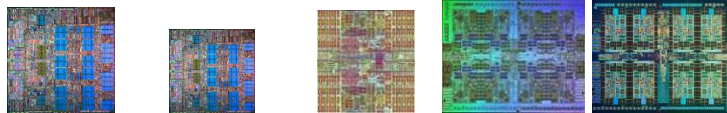
- *Less CPU for the same amount of memory expansion*

- Can then run more partitions or work per partition
- If fewer cores needed, may result in lower software licensing

- *OR more memory expansion for the same amount of processor*

- Better able to relieve memory shortages and improve performance
- May be able to do more work

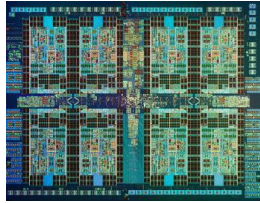
Processor Designs



	POWER5	POWER5+	POWER6	POWER7	POWER7+
Technology	130nm	90nm	65nm	45nm	32nm
Size	389 mm ²	245 mm ²	341 mm ²	567 mm ²	567 mm ²
Transistors	276 M	276 M	790 M	1.2 B	2.1 B
Cores	2	2	2	8	8
Frequencies	1.65 GHz	1.9 GHz	4 - 5 GHz	3 - 4 GHz	3.6 - 4.4+ GHz
L2 Cache	1.9MB Shared	1.9MB Shared	4MB / Core	256 KB per Core	256 KB per Core
L3 Cache	36MB	36MB	32MB	4MB / Core	10MB / Core
Memory Control	1	1	2 / 1	2 / 1	2 / 1
Architecture	Out of Order	Out of Order	In of Order	Out of Order	Out of Order
LPAR	10 / Core	10 / Core	10 / Core	10 / Core	20 / Core

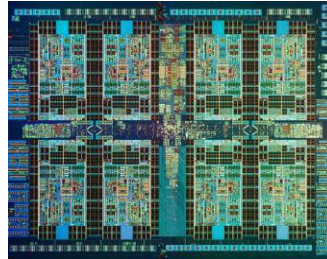
Benefits of eDRAM for POWER7+

With eDRAM



2.1B Transistors
567 mm²

Without eDRAM



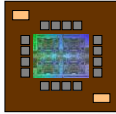
5.4B Transistors
950 mm²

IBM's eDRAM Benefits:

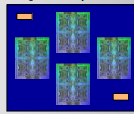
- Greater density: 1/3 the space of 6T SRAM implementation
- Less power requirements: 1/5 the standby power
- Fewer soft errors: Soft Error Rate 250x lower than SRAM
- Better Performance

POWER7 / POWER7+ Module Packaging

Power 795
Single Chip Glass Ceramic

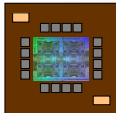


Power 775
Quad-chip MCM



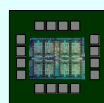
POWER7

Power 770 / 780
Single Chip Glass Ceramic

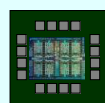


POWER7

Power 710 / 730
Single Chip Organic



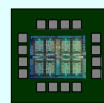
Power 720 / 740
Single Chip Organic



Power 750 / 760
Dual Chip Organic



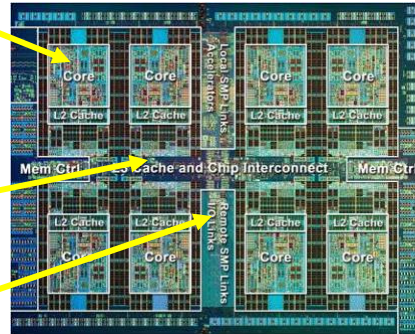
Power 770 / 780
Single Chip Organic



POWER7+

POWER7+ RAS Specific Features

- New Power On Reset Engine (PORE)
 - Enables a processor to be re-initialized while system remains up and running
 - Directly used to:
 - Allow for *Concurrent Firmware Updates*: In cases where a processor initialization register value needs to be changed
- L3 Cache dynamic column repair
 - New self-healing capability that complements cache line delete
 - Uses PORE feature to remove a substitute a failing bit-line for a spare during run-time.
- New Fabric Bus Dynamic Lane Repair
 - POWER7+ has spare bit lanes that can dynamically be repaired (using PORE)
 - For Busses that connect CEC drawers
 - Avoids any repair action or outage related to a single bit failure.



Power Systems Reliability:

Built on AIX capabilities *and* Power Systems hardware features

•AIX RAS features

- Live Application Mobility
- Journaled Filesystem
- Storage mirroring
- System Trace
- Lightweight Memory Trace
- Component Trace
- Mini-Dump
- Parallel Dump
- Kernel exploitation of Storage Protection Keys
- Functional Recovery Routines
- Dynamic tracing with *probevue*
- RAS Component Hierarchy
- Live Dump
- Firmware Assisted Dump
- Kernel no-execute enhancements
- Kernel Stack Overflow enhancements
- Run Time Error Checking
- POSIX Trace
- Netmalloc debug

•Power Hardware RAS features

- Application/Partition RAS
 - Live Partition Mobility
 - Partition Availability priority
- System RAS
 - OS independent First Failure Data Capture
 - Redundant System Interconnect
 - Electronic Service Agent
 - Concurrent Firmware Updates
 - Redundant Clocks
- Processor RAS
 - Processor Instruction Retry
 - Alternate Processor Recovery
 - Dynamic Processor Deallocation
 - Dynamic Processor Sparing
- Memory RAS
 - Chipkill™
 - Redundant Memory
- I/O RAS
 - Extended Error Handling
 - Online diagnostics

POWER7 RAS Feature Overview

- Standard
- ◻ Optional
- Not Available

RAS Item	PureFlex	Power Blades	Power 710 / 730	Power 720 / 740	Power 750
Redundant / Hot Swap Fans & Blowers	● (Chassis)	● (BC)	●	●	●
Hot Swap DASD & Media / PCI Adapters	—	—	● —	● —	● ●
Concurrent Firmware Update	●	●	●	●	●
Redundant / Hot Swap Power Supplies	● (Chassis)	● (BC)	●	●	◻
Dual disk controllers (split backplane)	—	—	—	◻	◻
Processor Instruction Retry	●	●	●	●	●
Alternate Processor Recovery	●	●	●	●	●
Storage Keys	●	●	●	●	●
PowerVM™/Live Part. Mobility/Live App Mobility	◻	◻	◻	◻	◻
Redundant Service Processors	—	—	—	—	—
Redundant System Clocks	—	—	—	—	—
Redundant / Hot Swap Power Regulators	—	—	—	—	—
Dynamic Processor Sparing	—	—	—	—	—
Memory Sparing	—	—	—	—	—
Hot GX Adapter Add and Cold Repair	—	—	—	—	—
Hot-node Add / Cold-node Repair	—	—	—	—	—
Hot-node Repair / Hot-memory Add	—	—	—	—	—
Dynamic Service Processor & System Clock Failover	—	—	—	—	—
Hot-node Repair / Hot-memory Add for all nodes**	—	—	—	—	—
Enterprise Memory	—	—	—	—	—
Hot GX Adapter Repair	—	—	—	—	—
Midplane connection for inter-nodal communication	—	—	—	—	—
Active Memory Mirroring for Hypervisor	—	—	—	—	—

POWER7+ RAS Feature Overview

- Standard
- ◻ Optional
- Not Available

RAS Item	Power 750+	Power 760+	Power 770+	Power 780+	Power 795
Redundant / Hot Swap Fans & Blowers	●	●	●	●	●
Hot Swap DASD / Media / PCI Adapters	●	●	●	●	●
Concurrent Firmware Update	●	●	●	●	●
Redundant / Hot Swap Power Supplies	●	●	●	●	●
Dual disk controllers (split backplane)	●	●	●	●	●
Processor Instruction Retry	●	●	●	●	●
Alternate Processor Recovery	●	●	●	●	●
Redundant / Hot Swap Power Regulators	●	●	●	●	●
PowerVM™/Live Part. Mobility/Live App Mobility	◻	◻	◻	◻	◻
Dynamic Processor Sparing	—	◻	◻	◻	◻
Memory Sparing	—	—	◻	◻	◻
Redundant Service Processors	—	—	●*	●*	●
Redundant System Clocks	—	—	●*	●*	●
Hot GX Adapter Add and Cold Repair	—	—	●	●	●
Hot-node Add / Cold-node Repair	—	—	●*	●*	●*
Hot-node Repair / Hot-memory Add	—	—	●*	●*	●*
Dynamic Service Processor & System Clock Failover	—	—	●*	●*	●
Hot-node Repair / Hot-memory Add for all nodes**	—	—	●*	●*	●*
Enterprise Memory	—	—	●	●	●
Hot GX Adapter Repair	—	—	●	●	●
Active Memory Mirroring for Hypervisor	—	—	◻	●	●
Power Pools	—	—	—	●	●

POWER7+ Power 710 / 730 -

19 inch rack & 2U height



	Power 710 8231-E1D	Power 730 8231-E2D
POWER7+ Architecture	4 Core @ 3.6 GHz 6 Core @ 4.2 GHz 8 Core @ 4.2 GHz	8 Core @ 4.3 GHz 12 Core @ 4.2 GHz 16 Core @ 3.6 GHz 16 Core @ 4.2 GHz
Planar	Single Socket	Dual Socket
DDR3 Memory	4 / 8 / 16 / 32 GB DIMMs 8GB to 256GB	4 / 8 / 16 / 32 GB DIMMs 8GB to 512GB
SFF SAS Bays	Up to 6 HDD or SSD	
PCIe Gen2 Expansion Slots	Five x8 LP One x4 LP (Ethernet Adapter)	
Integrated SAS/SATA Controller	Standard: RAID 0, 1, & 10 Optional: RAID 5 & 6	
GX++ Slots	One	Two
Ethernet in 6 th slot	Quad 10/100/1000	
FC # 2319 Support	Yes	
Media Bays	1 Slim-line & optionally 1 Half Height	
12X PCIe Drawers *	No	Yes / Max: 2
HDD/SSD drawer *	Max 4	Max 14
Ultra SSD Drawer *	Max = 1/2	Max = 1
Virtualisation	IVM or HMC	
Maximum LPARs	160	320
Redundant Power & Cooling	Optional	Standard
EnergyScale	TPMD	
Warranty	3 Years	

Same price point as x86



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* 4-core 710 does not use these I/O drawers

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POWER7+ Power 720 / 740 -

19 inch rack & 4U height



Tower option

	Power 720 8202-E4D	Power 740 8205-E6D
POWER7+ Architecture	4-core 3.6 GHz 6-core 3.6 GHz 8 core 3.6 GHz	1 or 2 x 6-core 4.2 GHz 1 or 2 x 8-core 3.6 GHz 1 or 2 x 8-core 4.2 GHz
Planar	Single Socket	Dual Socket Single Socket option
DDR3 Memory DIMMs	4 / 8 / 16* / 32* GB 4GB to 512* GB	4 / 8 / 16 / 32 GB 4GB to 1 TB
SAS SFF Bays	Up to 6 or 8 HDD or SSD	
PCIe Gen2 Expansion Slots	Five x8 Full High (FH) (Base) One x4 FH (Base) / Ethernet Adapter Four x8 LP (Optional)	
Integrated SAS Controller	Standard: RAID 0, 1, & 10 Optional: RAID 5 & 6	
Integrated Ports	3 USB, 2 Serial, 2 HMC	
Ethernet in 6 th PCIe slot	Quad 10/100/1000	
Media Bays	1 Slim-line & 1 Half Height	
12X PCIe I/O Drawers	Max 2 **	Max 2 / 4
12X PCI-X I/O Drawers	Supported **	Supported
HDD/SSD-only drawer	Max 14**	Max 14
EXP30 Ultra SSD Drawer	Max 1 **	Max 1 or 2
Maximum LPARs	160	320
Virtualisation	IVM & HMC	
Redundant Power and Cooling	Optional	Standard
EnergyScale	TPMD	
Warranty	3 Years	



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* max of 84GB memory on 4-core Power 720
** max zero drawers on 4-core Power 720

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POWER7+ = More Performance → Less Price

*New POWER7+ Models Offer Significantly Improved
Price/Performance*



- Power 740
 - 21-42% Better
- Power 720
 - 14-21% Better
- Power 730
 - 49-60% Better
- Power 710
 - 16-39% Better

Based on rPerf and USA prices.
Prices are subject to change without notice.
Reseller prices can vary.

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POWER7+ Power 750/760



POWER7+ Power 750 up to 32 cores, 4 socket in 5U



8408-E8D	
POWER7+ Architecture	8-core DCM @ 4.0 GHz 8-core DCM @ 3.5 GHz
Up to 4 Sockets	
DDR3 Memory	Up to 1 TB
Capacity on Demand	None
SAS SFF Bays	Up to 6 HDD or SSD Split Backplane support
IO Expansion Slots in CEC	PCIe x8: 6 Slots (Hot Swap) Dual GX++ Bus (with 2 or more DCM)
Integrated I/O Controller	SAS (Dual) plus SATA Standard RAID 0, 1, & 10 Optional RAID 5 & 6
IVM / HMC Support	Yes / Yes (HMC optional)
Maximum LPARs	640 FC # 2319
Integrated Multifunction Card (IMFC)	4 Ethernet (Dual 10 Gb & Dual 1 Gb or Quad 10Gb); 2 USB, 1 serial
Integrated Ports	1 USB, 2 HMC, 2 SPCN, plus IMFC
Media Bays	1 Slim-line for DVD
12X PCIe IO Drawers	Max 4 (no PCI-X drawers)
EXP30 Ultra SSD Drawer	Max 2
HDD/SSD-only drawer	Max 51
Redundant Power/Cooling	Yes/Yes
Maintenance	3 Year with 24 x 7
Installation	Customer Install
Software Tier	Low
EnergyScale	Dynamic Energy Save & Capping



POWER7+ Power 760 up to 48 cores, 4 socket in 5U

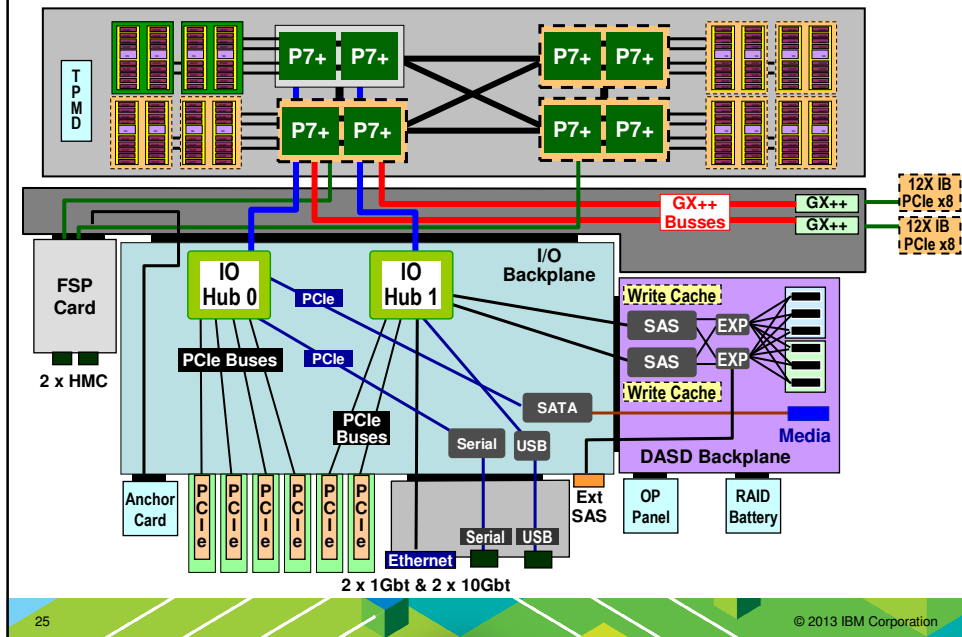


- Mid-range**
48 Core
HMC only
IBM Install
Medium Software Tier
Capacity on Demand
- Minimum 8 cores
 - Permanent CPU only
 - No temporary, trial, utility or elastic CoD
 - No memory CoD

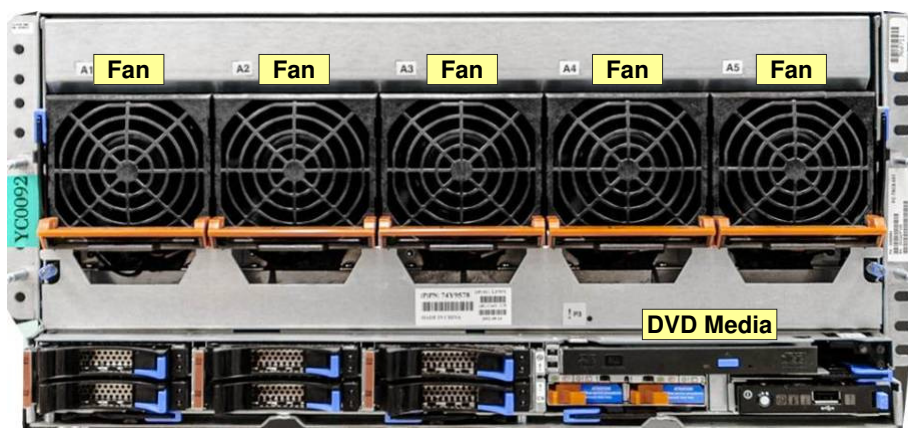
9109-RMD	
POWER7+ Architecture	12-core DCM @ 3.4 GHz 12-core DCM @ 3.1 GHz
Up to 4 Sockets	
DDR3 Memory	Up to 2 TB
Capacity on Demand	Yes for Processors (Permanent only)
SAS SFF Bays	Up to 6 HDD or SSD Split Backplane support
IO Expansion Slots in CEC	PCIe x8: 6 Slots (Hot Swap) Dual GX++ Bus (with 2 or more DCM)
Integrated I/O Controller	SAS (Dual) plus SATA Standard RAID 0, 1, & 10 Optional RAID 5 & 6
IVM / HMC Support	No / Yes (HMC required)
Maximum LPARs	960
Integrated Multifunction Card (IMFC)	4 Ethernet (Dual 10 Gb & Dual 1 Gb or Quad 10Gb); 2 USB, 1 serial
Integrated Ports	1 USB, 2 HMC, 2 SPCN, plus IMFC
Media Bays	1 Slim-line for DVD
12X PCIe IO Drawers	Max 4 (no PCI-X drawers)
EXP30 Ultra SSD Drawer	Max 2
HDD/SSD-only drawer	Max 51
Redundant Power/Cooling	Yes/Yes
Maintenance	3 Year with 24 x 7
Installation	IBM Install
Software Tier	Medium
EnergyScale	Dynamic Energy Save & Capping



POWER7+ Power 750 / 760



POWER7+ Power 750 / 760 Front View

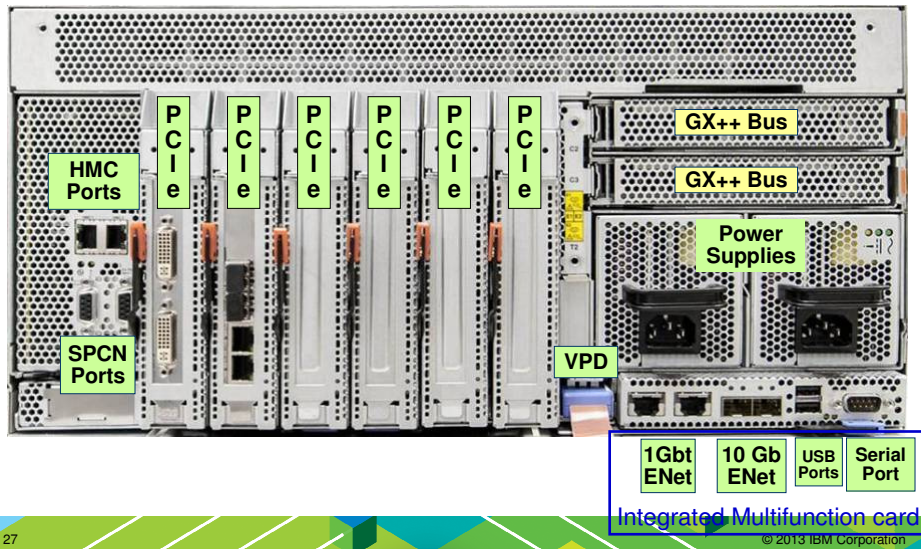


- 6 SFF DASD/SSD Bays**
- Standard split Backplane 3+3
 - Optional 2+2+2 split
 - Optional 6 (no split) w/ RAID5/6

Batteries for Opt RAID5/6 Write Cache

Op Panel

POWER7+ Power 750 / 760 Rear View

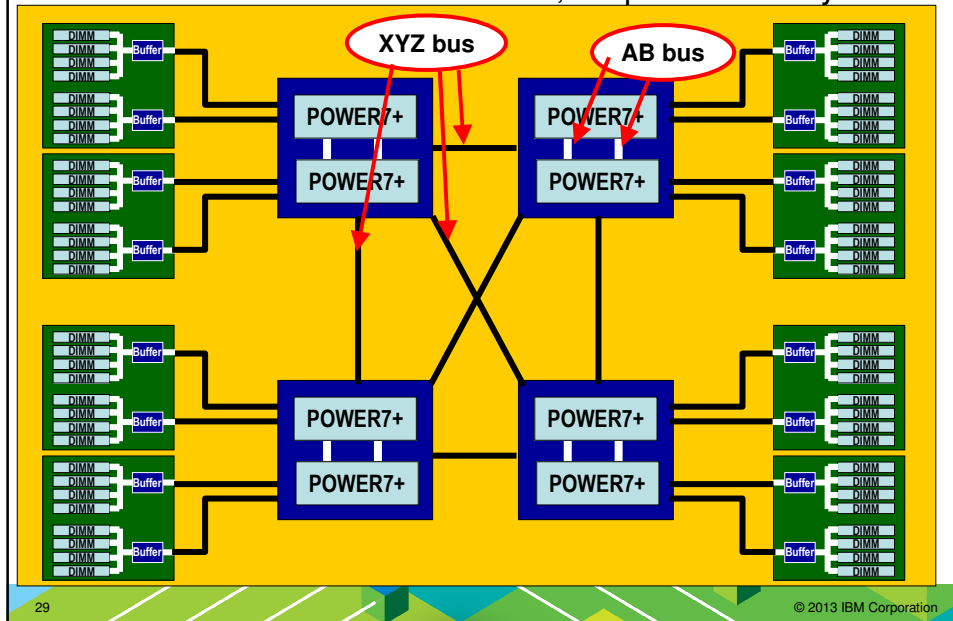


Blind Swap Cassette (BSC) are Gen 4



- Same as BSC for Power 770 and 780 system unit
- Easier, more reliable connections
 - No lever to move PCIe card downward and into PCI connections
- Different from the Gen3 BSC in the #5802/5877 12X I/O Drawers

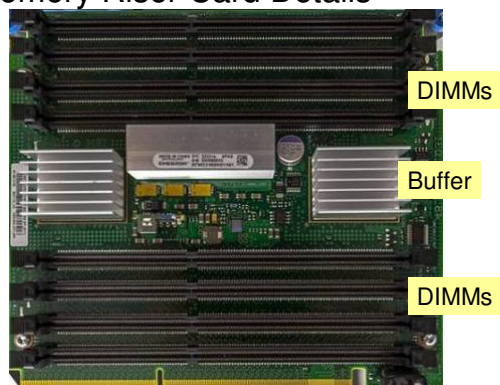
POWER7+ Power 750 / 760 Socket, Chip and Memory



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Memory Riser Card Details



Power 760

Feature Code	DIMM Size	Feature GB
#EM08	4 GB	8
#EM4B	8 GB	16
#EM4C	16 GB	32
#EM4D	32 GB	64

Power 750

Feature Code	DIMM Size	Feature GB
#EM08	4 GB	8
#EM4B	8 GB	16
#EM4C	16 GB	32

- DDR3 1066 MHz DIMMs
- Up to 64 DIMM slots for 750 / 760
- DIMMs: 4, 8, 16, or 32 GB (Two DIMMs per feature)
- DIMMs installed in pairs.
- Same size DIMMs in set of 4 DIMM slots (quads in top & bottom).
- Can Mix different size DIMMs on same riser (top / bottom)

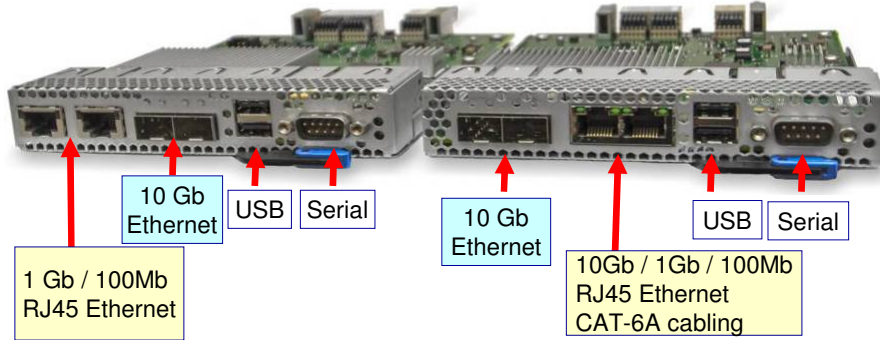
30

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Power7+ Power 750/760 - Multifunction Cards

Dual 10 Gb Optical / 1 Gb Ethernet
Dual 10 Gb Copper / 1 Gb Ethernet

Dual 10 Gb Optical / 1 or 10 Gb Ethernet
Dual 10 Gb Copper / 1 or 10 Gb Ethernet

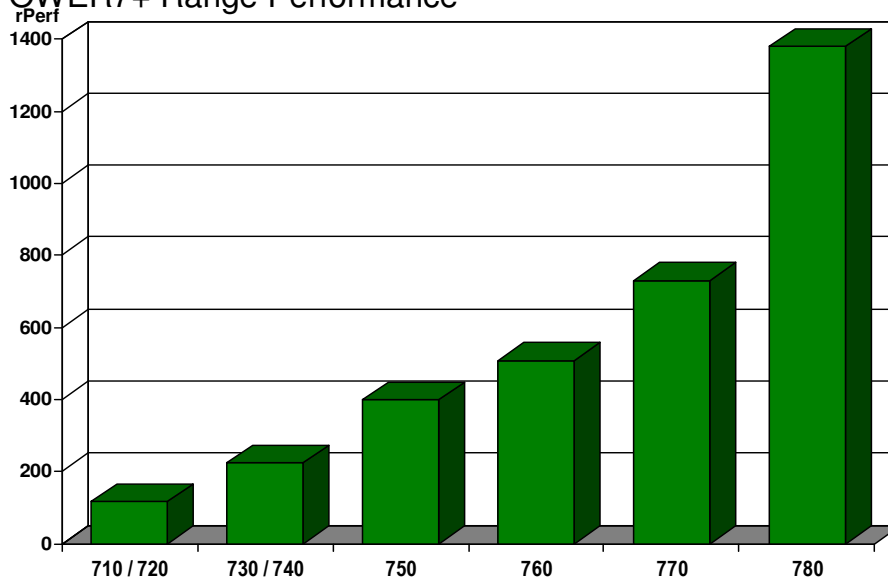


- Every 750/760 needs one can change later but server power down to replace (not hot plug)
- Does not require a PCIe slot
- Use VIOS to virtualize (no integrated virtualization without VIOS)
- IBM i requires VIOS for Ethernet ports

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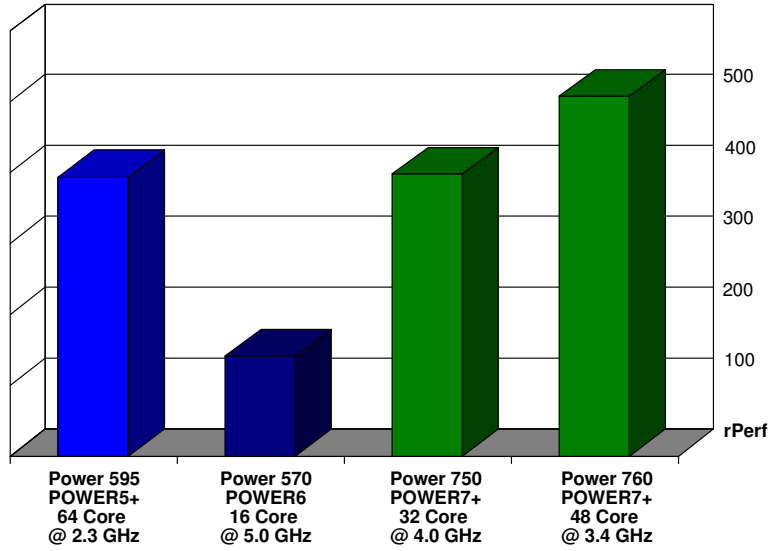
POWER7+ Range Performance



32

rPerf ratings charted. If CPW ratings charted, the bars show the same scaling.
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POWER7+ Power 750 / 760 Performance ...



Systems
Enterprise
Systems

Power 770+



Power 780: 2S4U



9117-MMD		
Processor Packaging Max Cores: 64 Cores Max Cores: 48 Cores	@ 3.78 GHz @ 4.2 GHz	
L3 Cache	10 MB	
Redundant Resources:	<ul style="list-style-type: none"> ▪ Power & Cooling ▪ Service Processor ▪ Redundant Clock 	
Hot Add & Service Support	Yes	
Active Memory Mirroring	Standard	
	Single Enclosure	4 Enclosures
Processors	4 Sockets	16 Sockets
DDR3 Memory (Buffered)	Up to 1 TB	Up to 4 TB
SAS / SSD SFF Bays	6	24
Media Bays	1 Slim-line	4 Slim-line
SAS / SATA Controller	2 / 1	8 / 4
PCIe Gen2 (Internal)	6	24
GX++ Bus Slots	2	8
Ethernet Support: Dual 10 Gbt & Dual 1 Gbt	Standard	Nodes 1 & 2: Standard Nodes 3 & 4: Optional
USB	3	12
Max IO Drawers	PCIe: 4 PCI-X: 8	PCIe: 16 PCI-X: 32

Power 780+



Power 780: 2S4U

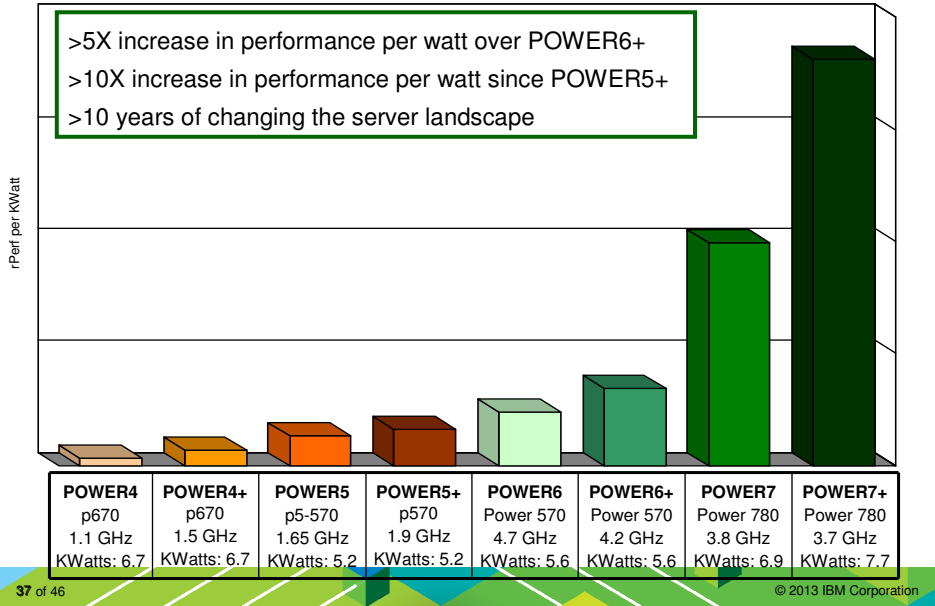


Power Pools
Maint: 24 X 7
RAS
PowerCare Support



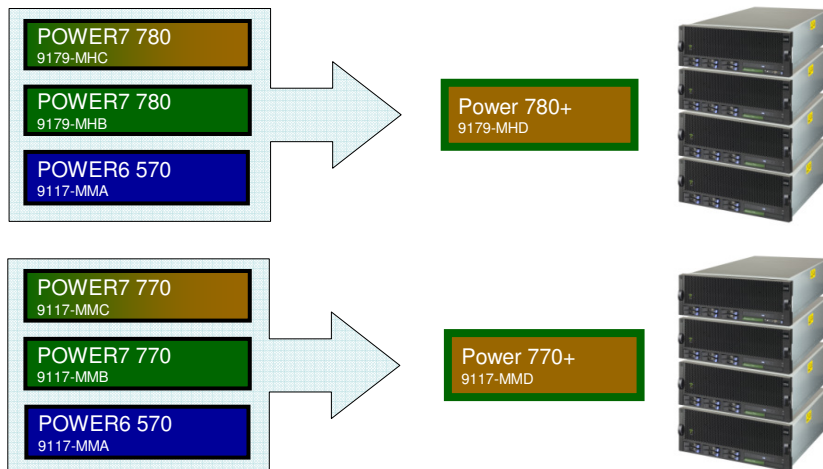
9117-MHD		
Processor Packaging Max Cores: 128 Cores Max Cores: 64 Cores	@ 3.7 GHz @ 4.4 GHz	
L3 Cache	10 MB	
Redundant Resources:	<ul style="list-style-type: none"> ▪ Power & Cooling ▪ Service Processor ▪ Redundant Clock 	
Hot Add & Service Support	Yes	
Power Pools	Yes	
Active Memory Mirroring	Standard	
	Single Enclosure	4 Enclosures
Processors	4 Sockets	16 Sockets
DDR3 Memory (Buffered)	Up to 1 TB	Up to 4 TB
SAS / SSD SFF Bays	6	24
Media Bays	1 Slim-line	4 Slim-line
SAS / SATA Controller	2 / 1	8 / 4
PCIe Gen2 (Internal)	6	24
GX++ Bus Slots	2	8
Ethernet Support: Dual 10 Gbt & Dual 1 Gbt	Standard	Nodes 1 & 2: Standard Nodes 3 & 4: Optional
USB	3	12
Max IO Drawers	PCIe: 4 PCI-X: 8	PCIe: 16 PCI-X: 32

POWER7+ Deliver more *Performance per Watt*



POWER7+ System Upgrades....

Power 570 & 770 systems can upgrade to POWER7+



Power 795



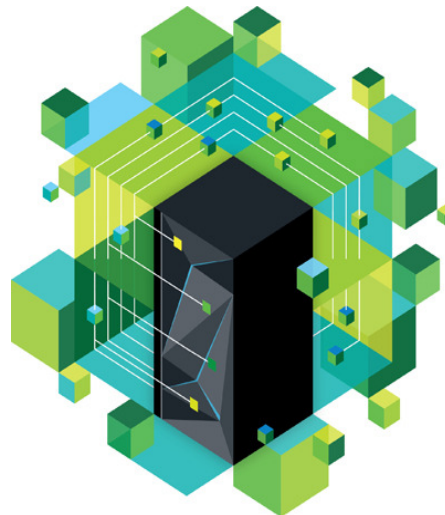
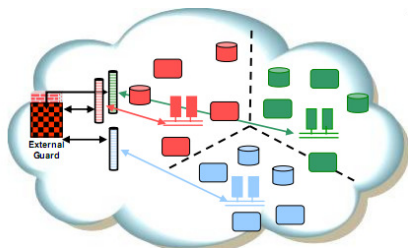
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Power 795 POWER7

MTM 9119-FHB

Architecture	Up to 32 Sockets (Max 256 Cores) 4 TurboCore / 8 Max Core & 6 Core
L2 & L3 Cache	On Chip
DDR3 Memory	Up to 16 TB
DASD / Bays	Remote I/O Drawer (SAS / SSD)
Capacity on Demand	Yes
GX++ Bus	4 per System Book Max: 32 (8 Nodes)
Media Bays	Media drawer
Remote IO Drawers	1 – 32 drawers
PCIe Gen 2 Support	Yes
LPARs	Up to 1000
Redundant Power & Cooling	Yes
Hot Maintenance	Yes
Cooling	Air
Redundant Clock	Yes
Power / Thermal (TPMD)	Advanced Energy Scale Optional DC power

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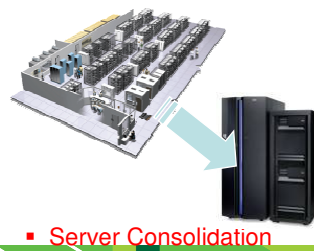
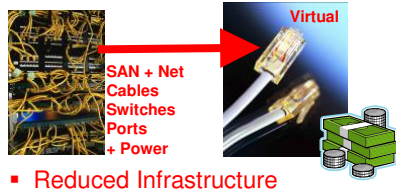
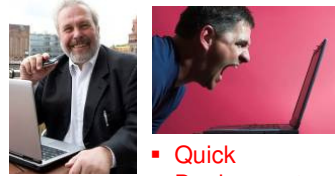
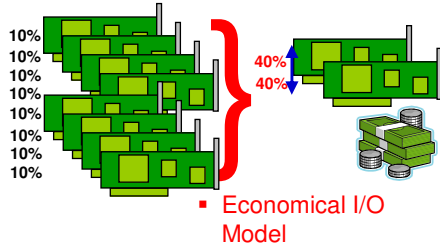
Soft Factors

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Virtualisation - Value Proposition

- "Your new system will be ready in ..."
- "20 Minutes" or "20 Days"



PowerVM Editions are tailored to client needs

- **PowerVM Express Edition**
 - Evaluations, pilots, PoCs
 - Single-server projects
- **PowerVM Standard Edition**
 - Production deployments
 - Server consolidation
- **PowerVM Enterprise Edition**
 - Multi-server deployments
 - Cloud infrastructure

<i>PowerVM Editions</i>	Express	Standard	Enterprise
Concurrent VMs	2 per server	20 per core** (up to 1000)	20 per core** (up to 1000)
Virtual I/O Server	✓	✓	✓
NPIV	✓	✓	✓
Suspend/Resume		✓	✓
Shared Processor Pools		✓	✓
Active Memory Sharing			✓
Shared Storage Pools (SSP) Enhancements (16 nodes)		✓	✓
Thin Provisioning		✓	✓
SSP Linked Clones with ISD			✓
VIOS Performance Advisor	✓	✓	✓
Live Partition Mobility Encryption automation			✓
**Live Partition Mobility Performance Improvements			✓

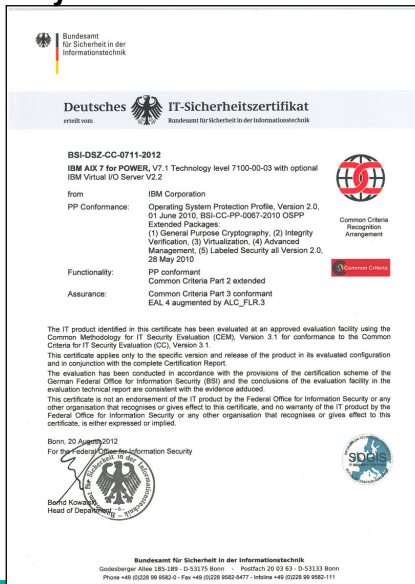


Q4 2012 Features

**FW760 Prereq

OSPP Common Criteria Security Certification

- Operating System Protection Profile (OSPP) standard replaces the old CAPP/EAL4+ certification
- Evaluation included AIX 7 and the VIOS 2.2



PowerSC Offerings: Security and Compliance Options

- PowerSC Express**
 - Basic compliance automation for AIX (formerly IBM Compliance Expert)
- PowerSC Standard**
 - Security and compliance for virtual & cloud environments
- PowerSC Trusted Surveyor**
 - Virtual network segregation compliance monitoring
 - Separate product

PowerSC Editions	Express	Standard
Security and Compliance Automation New HIPAA Profile	✓	✓
Real time Compliance Monitoring	✓	✓
Trusted Logging		✓
Trusted Boot ** ** Requires Firmware 7.4 +		✓
Trusted Network Connect and Patch Management		✓
Trusted Firewall		✓

AIX / VIOS Software Support

	PS700 PS701 PS702	Power 710 / 730 720 / 740 795	PS703 PS704	Power 710 ¹ / 730 ¹ 720 ¹ / 740 ¹ 770 ¹ / 780 ¹	PureFlex p260 p460	Power 770+ / 780+	Power 710+ / 730+ 720+ / 740+ 750+ / 760
AIX.5.3 TL10	SP 5	SP 5	N / A	N / A	N / A	N / A	N / A
AIX.5.3 TL11	SP 5	SP 5	SP 7	N / A	N / A	N / A	N / A
AIX.5.3 TL12	New	SP 1	SP 4	SP 5	SP 6	SP 7	SoD
AIX 6.1 TL4	SP 7	SP 7	SP 10	N / A	N / A	N / A	N / A
AIX 6.1 TL5	New	SP 3	SP 6	SP 7	N / A	N / A	N / A
AIX 6.1 TL6	New	New	SP 5	SP 6	SP 8	SP 10	SP 11
AIX 6.1 TL7	New	New	New	New	SP 3	SP 6	SP 7
AIX 6.1 TL8	New	New	New	New	New	New	SP 2
AIX 7.1 TL0	New	New	SP 3	SP 4	SP 6	SP 8	SoD
AIX 7.1 TL1	New	New	New	New	SP 3	SP 6	SoD
AIX 7.1 TL2	New	New	New	New	New	New	SP 2
VIOS	2.1.3	2.2	2.2.0.12 FP24 + SP2	2.2.1	2.2.1	2.2.1.5 2.2.2	2.2.2.2 2.2.1.5=SoD

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"C" Models

POWER7+ Models

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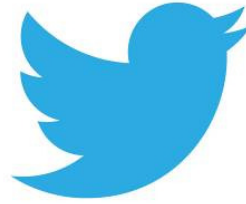
Skills – is this you?

- Swamped with work !!!
- Little time for Courses / Education !
- Lots of new features from IBM but which can
 - save me time,
 - save money or
 - increase flexibility and response to demand?
- Worried you could be missing a trick or not up to date on computer trends?

Are you keeping up to date?

mr_nmon on twitter

- Only used for POWER / AIX technical content, hints, tips and links



You Tube™ 125 techie hands-on videos on **YouTube** at <http://www.youtube.com/user/nigelgriffiths>

AIXpert Blog

- Lots of mini articles & thoughts
- <http://tinyurl.com/AIXpert>
- Also Q & A for Performance
- <http://tinyurl.com/PerfToolsForum>



Virtual User Groups

■ PowerVM Virtual User Group (AIX and IBM i)

- <http://tinyurl.com/PowerVMVirtualUserGroup>
- Roughly once a month Webinar
- 24 Replays available

PowerVM technical webinar series on Power Systems virtualization from IBM

As an IT professional, you may have heard of IBM PowerVM or Power Systems based around the IBM POWER processor. This may even have been a presentation on it, but have you wondered:

- What is it like to actually use?
- What are the key features for POWER and AIX, Linux for Power and IBM i?
- How will it save me system administration time and reduce weekend working?
- What do I need to run it and how do I get started?

What are we doing?

- We'll... need to let the product talk for itself via a series of live lectures and hands-on demos of these features.
- The sessions aim to be about an hour long and roughly once every 3 to 4 weeks.

Who should attend?

- These webinars are aimed at a technical audience (operators, systems administrators and technical specialists) - people using or planning to use IBM's Power based systems.
- Primarily IBM i customers, but also available to IBMers and IBM Business Partners.

■ AIX Virtual User Group

- <http://tinyurl.com/newAIXVirtualUserGroup>
- Roughly once a month Webinar
- ~100 Replays available since 2007

AIX Virtual User Group - USA

Updated 4/30/13 by jdarmstr@us.ibm.com | Tags:

- aix
- group
- aixpt
- virtual

Page Actions

There are two sections to the Wiki (in this order) - Next Session and Past Sessions.

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Thank You



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