



# C4040-250<sup>Q&As</sup>

Power Systems with POWER8 Sales Skills V1

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### QUESTION 1

What benefit is provided by connecting FPGA cards to POWER8 via CAPI instead of connecting FPGA cards to x86 via PCIe?

- A. There is no overhead from OS or drivers, providing improved response times and increased throughput.
- B. FPGA card attached via CAPI on POWER8 comes pre-installed with specific drivers.
- C. The offload processor in CAPI speeds up I/O transfers from the FPGA card.
- D. FPGA cards can be installed in PCIe or PCI-X slots on POWER8.

Correct Answer: A

Explanation: When you connect FPGA card to Power8 via CAPI, no overhead from OS or drivers will occur. IT provides improved response time and increased throughput.

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### QUESTION 2

An installed HP Superdome / Oracle database customer is consider migrating to POWER8. The customer has significant financial concerns because of the multiple partitions and high Oracle licensing cost of their HP solution. What features / capability of POWER8 should be discussed with this customer?

- A. Processor pooling and high performance cores
- B. PowerVP and PowerSC
- C. CUoD and CAPI
- D. Shared Storage and Processor roadmap

Correct Answer: D

Reference: [http://www-05.ibm.com/cz/events/febannouncement2012/pdf/power\\_architecture.pdf](http://www-05.ibm.com/cz/events/febannouncement2012/pdf/power_architecture.pdf)

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### QUESTION 3

What is an advantage of the POWER8 Scale-out systems compared to a competitive Oracle T5 offering?

- A. The option to run SUSE Linux.
- B. The ability to connect to a SAN.
- C. The ability to support internal drives.
- D. The option to run multiple partitions.

Correct Answer: D

Explanation: Power8 Scale-out systems support internal drives whereas Oracle T5 supports only external drives and



SAN.

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#### QUESTION 4

What is a performance monitoring product that is available on the E880?

- A. PowerSC
- B. PowerVP
- C. PowerVC
- D. PowerVM

Correct Answer: B

The dynamic pace of change that is encountered with today's virtualized environments and workloads require flexible infrastructure. This flexible infrastructure allows virtual workloads to be mobile and to dynamically contract and expand within the virtual data center as needed by the business. Performance is key to the benefit of this new flexibility introduced by server virtualization and cloud deployments which yields the benefits of consolidation, flexibility and reduction of

risk.

The ability to manage and monitor the performance of both the virtualized workloads as well as the physical hardware mapping is critical. IBM PowerVPTM provides the performance intelligence to make key decisions in the virtualized infrastructure such as VM placement and exploitation of key server resources for optimized workload performance.

Reference:

<http://www-03.ibm.com/systems/power/software/virtualization-management/>

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#### QUESTION 5

Upon meeting in an elevator, a customer's senior executive asks an IBM sales agent to explain in one sentence why POWER8 systems are superior to x86 solutions. Which statement best represents the Power Systems value proposition?

- A. IBM POWER8 servers deliver a lower TCO with unparalleled system reliability.
- B. x86 technology is reaching chip design limitations and x86 performance has not increased proportionality to the chip core count, which results in higher software costs.
- C. Regardless of the benchmark used, IBM POWER8 has proven to be the fastest performing server chip in the industry.
- D. The IBM POWER8 processor is Purpose Built resulting in premium performance over x86, which results in lower TCA and TCO.

Correct Answer: D



Ivy Ivy Sandy Bridge Haswell Bridge Bridge EP EP EX EP POWER 7+ POWER8 E5- E5-26xx E7E526xx v3 88xx 26xx v2 v2

1.8 1.7- 1.7- 1.9-3.4 Clock rates 3.1-4.4 GHz 3.0-4.15 GHz 3.6GHz 3.7GHz 3.7GHz GHz

SMT 1,2\* 1, 2\* 1, 2\* 1, 2\* 1, 2, 4 1, 2, 4, 8 options

Cores per 8 12 18 15 8 12 socket

Max Threads / 16 24 36 30 32 96 sock

Max L1 32KB 32KB\* 32KB\* 32KB\* 32KB 64KB Cache

Max L2 256 KB 256 KB 256 KB 256 KB 256 KB 512 KB Cache

Max L3 20 MB 30 MB 45 MB 37.5 MB 80 MB 96 MB Cache

Max L4 0 0 0 0 0 128 MB Cache

31.4- 42.668-85\*\* Memory 51.2-68.3 100 180

51.2 59.7 230 - 410 GB/sec Bandwidth GB/s GB/sec GB/s GB/s GB/s

Reference: <http://thestgmarketplace.com/pdfs/COMP%20P8%20vs%20X86.ppt>

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