



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

Power Systems with POWER8 Sales Skills V1

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**QUESTION 1**

A customer wants to replace their existing x86 server farm running Domino, Websphere Application Server, file serving, print serving, Cognos and DB2 database. Which Operating System offers an integrated solution to satisfy the customer's requirements?

- A. Red Hat
- B. SUSE
- C. IBM i
- D. AIX

Correct Answer: C

Explanation: IBM i operating system can support Domino, Websphere, file serving, print serving, Cognos and DB2 database. Since it is an IBM operating system, it can easily run all the required IBM products efficiently.

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**QUESTION 2**

A customer requires two local redundant VIO servers on their E870.

What should be included with an E870 to satisfy the customer's requirement?

- A. EXP24S disk drawer
- B. Dual Solid-State Drives in the nodes
- C. Split backplane
- D. Dual SAS drives in the nodes

Correct Answer: A

The EXP24S is a "simple" 24-bay SAS disk drawer. It doesn't have any local SAS controller technology or PCI adapter slots. The EXP24S is configured on Power E870/E880 servers using feature code #5887. The EXP24S is two rack units (2U) in size and has two (redundant) power supplies. The 24 disk bays utilize hot-plug, Small Form Factor-2 (SFF-2) drives. Both hard disk drives (HDD) and solid-state drives (SSD) are available. The EXP24S will be pre-configured by IBM manufacturing to operate in one of the following modes:

Mode-1 1 string of 24 disk bays Mode-2 2 strings of 12 disk bays Mode-4 4 strings of 6 disk bays

The mode is specified using a no-charge feature code when the EXP24S is ordered. The EXP24S mode is not changeable after the EXP24S has shipped. HDD and SDD drives can be intermixed within the EXP24s, but must be on separate disk strings. For the most flexibility, Mode-4 is recommended as it provides boot support for up to four VIOS. In Mode-4, each of the disk strings will have six disk bays. This allows each VIOS to have mirrored disk drives for normal operations, mirrored drives for alt\_disk\_install upgrade and two spare disk bays.

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**QUESTION 3**



A customer is running a large application on x86 Linux with an Oracle Enterprise database.

Which of the following can be used to financially justify migrating the application to POWER8 and DB2?

- A. POWER8 requires fewer cores to run the same workload.
- B. POWER8 Active Memory Expansion reduces the cost of memory.
- C. POWER8 cores exploit SMT6.
- D. POWER8 hardware and software maintenance costs are lower.

Correct Answer: A

Comparing performance, the 740D 3.6ghz 16 core is rated at 197.7 rPerf (SMT4) whereas the S822 3.89ghz 12 core is rated at 220.1 rPerf (SMT4) or 235.6 rPerf (SMT8).

So you can get 11 to 19 percent more performance, more memory, more disk bays and PCIe slots for about 40 percent less cost. Another point to note is that the memory and I/O bandwidth for the POWER8 servers (scale out and enterprise) is significantly higher than all of the previous architectures. And there are additional follow-on savings for software licensing--for our 740D versus S822, we need four fewer cores on the POWER8, which allows for additional savings on software licensing. Reference:<http://www.ibmssystemsmag.com/linuxonpower/Trends/What-s-New/power8-time-is-now/>

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#### QUESTION 4

Which POWER8 feature is available only on E870 and E880 models?

- A. Enterprise Pools
- B. Concurrent firmware updates
- C. Dual HMCs
- D. Hot Swap PCIe adapters

Correct Answer: D

Explanation: Each Power E870 or Power E880 system node provides eight half-length, half-high x16 PCIe Gen3 slots. These PCIe slots can be used for either low profile PCIe adapters or for attaching a PCIe I/O drawer.

A new form factor blind swap cassette (BSC) is used to house the low profile adapters, which go into these slots. All PCIe slots are hot swappable and support concurrent maintenance.

Reference: <http://www.redbooks.ibm.com/redpapers/pdfs/redp5137.pdf>

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#### QUESTION 5

A customer is evaluating POWER8 and competitive servers to run multiple workloads in a dynamic environment. What should be emphasized in the Executive Summary of a proposal?

- A. Energy consumption report details



- B. Faster processors reduce software licensing expenses
- C. Ability to run AIX, LINUX, and IBM i applications concurrently.
- D. Acquisition cost details

Correct Answer: A

If the customer is looking for multiple workloads being run in a dynamic environment, you can emphasize the ability of Power8 to run AIX, Linux and IBM I application concurrently.

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