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NVIDIA AI Infrastructure Sample Questions (Q259-Q264):

NEW QUESTION # 259
Which of the following are key considerations when choosing between CPU pinning and NUMA (Non-Uniform Memory Access) awareness for a distributed training job on a multi-socket AMD EPYC server with multiple GPUs?

- A. Both CPU pinning and NUMA awareness are critical for optimizing performance. They should be used in conjunction to achieve optimal performance.
- B. CPU pinning is generally more important than NIJMA awareness because it directly impacts CPU utilization.
- C. CPU pinning ensures that each process/thread runs on a specific CPU core, reducing context switching overhead. NUMA awareness ensures that the CPU cores and memory used by a process are located within the same NUMA node, minimizing memory access latency.
- D. NUMA awareness is generally more important than CPU pinning because it directly impacts memory bandwidth.
- E. Neither CPU pinning nor NUMA awareness are relevant for GPIJ-accelerated workloads, as the GPUs handle all the computation.

Answer: A,C

Explanation:
CPU pinning and NUMA awareness are both important for optimizing performance on multi-socket systems. CPU pinning reduces context switching overhead, while NIJMA awareness reduces memory access latency. Using them together provides the best performance. They ensure the CPU and memory being used are on the same node, which reduces latency. While GPUs handle intense computation, CPUs prepare and feed data to the GPUs, and are critical for performance.

NEW QUESTION # 260
You are observing that the memory bandwidth being achieved by your CUDA application on an NVIDIAAIOO GPU is significantly lower than the theoretical peak bandwidth. Which of the following could be potential causes for this, and what actions can you take to validate or mitigate them? (Select all that apply)

- A. The application is using single precision floating-point operations. Switch to double precision to increase memory bandwidth utilization.
- B. The GPU is being limited by power capping. Increase the power limit using 'nvidia-smi -pl' (if permitted) to allow the GPU to operate at higher clock speeds.
- C. The system memory is fully occupied. Deallocate some memory.
- D. The application is using a small transfer size per kernel launch. Increase the amount of data processed per kernel launch to amortize the overhead of kernel launch and data transfer.
- E. The application is using uncoalesced memory access patterns. Refactor the code to ensure contiguous memory access by threads within a warp.

Answer: B,D,E

Explanation:
Uncoalesced memory access, small transfer sizes, and power capping are all factors that can limit achieved memory bandwidth. Switching to double precision will increase memory usage not necessarily bandwidth utilization (though the impact can vary depending on the workload). Power cap can definitely limit GPU performance, so raising it could help, as could code optimization. Therefore, the answer is A, B, and C, E is not usually relevant.

NEW QUESTION # 261
You've flashed the BlueField OS to your SmartNlC, but you need to customize the kernel command line arguments (bootargs) to enable a specific feature. Where is the MOST appropriate place to modify these arguments for persistent changes that survive reboots?

- A. Directly in the kernel image file itself using a hex editor.
- B. In the bootloader configuration file (e.g., extlinux.conf or grub.cfg) on the BlueFieId's flash memory.
- C. In the '/etc/default/grub' file on the BlueField OS, followed by updating the GRUB configuration.

- D. Passing it as an argument to bfboot during deployment.
- E. In the '/proc/cmdline' file. This allows immediate changes.

Answer: B

Explanation:
The bootloader configuration file (extlinux.conf, grub.cfg, uEnv.txt depending on the system) is where boot arguments are persistently stored. Modifying the kernel image directly is highly discouraged and risky. '/etc/default/grub' is a common location on standard Linux systems, but not necessarily on the BlueField OS's boot environment. '/proc/cmdline' shows the currently used arguments, but modifying it doesn't persist changes across reboots. bfboot will only change the image during that flash, changes at the bootloader level persist after subsequent flashes.

NEW QUESTION # 262
You need to remotely monitor the GPU temperature and utilization of a server without installing any additional software on the server itself. Assuming you have network access to the server's BMC (Baseboard Management Controller), which protocol and standard data format would BEST facilitate this?

- A. SNMP (Simple Network Management Protocol) with MIB (Management Information Base)
- B. SSH with plain text output from 'nvidia-smi'
- C. Syslog with CSV (Comma-separated Values)
- D. IPMI (Intelligent Platform Management Interface) with SDR (Sensor Data Records)
- E. HTTP with JSON

Answer: D

Explanation:
IPMI is a standard interface for out-of-band server management, commonly used for monitoring hardware sensors like temperature and utilization. BMCs typically support IPMI. SDRs are the data format used by IPMI for sensor data. SNMP is also an option, but IPMI is more directly tied to hardware monitoring. The rest are less efficient or require additional software installation.

NEW QUESTION # 263
A user reports that their deep learning training job is crashing with a 'CUDA out of memory' error, even though 'nvidia-smi' shows plenty of free memory on the GPU. The job uses TensorFlow. What are the TWO most likely causes?

- A. TensorFlow is fragmenting GPU memory, making it difficult to allocate contiguous blocks.
- B. The CUDA VISIBLE DEVICES environment variable is not set correctly.
- C. TensorFlow is allocating memory on the CPU instead of the GPU.
- D. The system's swap space is full, preventing memory from being allocated.
- E. The TensorFlow version is incompatible with the installed NVIDIA driver.

Answer: A,B

Explanation:
'CUDA out of memory errors, despite seemingly available GPU memory, often indicate memory fragmentation or improper GPU assignment. TensorFlow can fragment GPU memory, leading to allocation failures even if sufficient total memory is available. The variable controls which GPUs TensorFlow can access. If it's not set or is set incorrectly, TensorFlow might be trying to allocate memory on a non-existent or unavailable GPU. While TensorFlow version incompatibilities can cause issues, they are less likely to directly manifest as 'CUDA out of memory' errors. TensorFlow typically prioritizes GPU memory allocation if configured correctly.

NEW QUESTION # 264
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