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最新的 NVIDIA-Certified Associate NCA-AIIO 免費考試真題 (Q34-Q39):

問題 #34
When virtualizing a GPU-accelerated infrastructure, which of the following is a critical consideration to ensure optimal performance for AI workloads?

- A. Using software-based GPU virtualization instead of hardware passthrough
- B. Allocating more virtual CPUs (vCPUs) than physical CPUs
- C. Maximizing the number of VMs per GPU
- D. Ensuring proper NUMA (Non-Uniform Memory Access) alignment

答案：D

解題說明：
In a virtualized GPU-accelerated infrastructure, such as those using NVIDIA vGPU or GPU passthrough with hypervisors like VMware or KVM, performance hinges on efficient memory access. Ensuring proper NUMA (Non-Uniform Memory Access) alignment is critical because it minimizes latency by aligning GPU, CPU, and memory resources within the same NUMA node. Misalignment can lead to increased memory access times across nodes, degrading AI workload performance, especially for memory-intensive tasks like deep learning training or inference. NVIDIA's documentation for virtualized environments (e.g., NVIDIA GRID, vGPU) emphasizes NUMA awareness to maximize throughput and reduce bottlenecks.
Maximizing VMs per GPU (Option B) risks oversubscription, reducing performance per VM. Over-allocating vCPUs (Option C) causes contention, not optimization, as physical CPU resources are finite. Software-based virtualization (Option D) lacks the direct hardware access of passthrough, lowering efficiency for AI workloads. NUMA alignment is a cornerstone of NVIDIA's virtualization best practices.

問題 #35
Which of the following statements correctly highlights a key difference between GPU and CPU architectures?

- A. GPUs typically have higher clock speeds than CPUs, allowing them to process individual tasks faster
- B. CPUs are optimized for parallel processing, making them better for AI workloads, while GPUs are designed for sequential tasks
- C. GPUs are optimized for parallel processing, with thousands of smaller cores, while CPUs have fewer, more powerful cores for sequential tasks
- D. CPUs are specialized for graphical computations, whereas GPUs handle general-purpose computing

答案：C

解題說明：
GPUs are optimized for parallel processing, with thousands of smaller cores, while CPUs have fewer, more powerful cores for sequential tasks, correctly highlighting a key architectural difference. NVIDIA GPUs (e.g., A100) excel at parallel computations (e.g., matrix operations for AI), leveraging thousands of cores, whereas CPUs focus on latency-sensitive, single-threaded tasks. This is detailed in NVIDIA's "GPU Architecture Overview" and "AI Infrastructure for Enterprise." Option (A) reverses the roles. GPUs don't have higher clock speeds (B); CPUs do. CPUs aren't for graphics (C); GPUs are. NVIDIA's documentation confirms (D) as the accurate distinction.

問題 #36
A healthcare company is training a large convolutional neural network (CNN) for medical image analysis.
The dataset is enormous, and training is taking longer than expected. The team needs to speed up the training process by distributing the workload across multiple GPUs and nodes. Which of the following NVIDIA solutions will help them achieve optimal performance?

- A. NVIDIA DeepStream SDK
- B. NVIDIA cuDNN
- C. NVIDIA NCCL and NVIDIA DALI
- D. NVIDIA TensorRT

答案：C

解題說明：
Training a large CNN on an enormous dataset across multiple GPUs and nodes requires efficient communication and data handling. NVIDIA NCCL (NVIDIA Collective Communications Library) optimizes inter-GPU and inter-node communication, enabling

scalable data and model parallelism, while NVIDIA DALI (Data Loading Library) accelerates data loading and preprocessing on GPUs, reducing I/O bottlenecks.
Together, they speed up training by ensuring GPUs are fully utilized, a strategy central to NVIDIA's DGX systems and multi-node AI workloads.
cuDNN (Option A) accelerates CNN operations but focuses on single-GPU performance, not multi-node distribution. DeepStream SDK (Option C) is tailored for real-time video analytics, not training. TensorRT (Option D) optimizes inference, not training. NCCL and DALI are the optimal NVIDIA solutions for this distributed training scenario.

問題 #37
What is the importance of a job scheduler in an AI resource-constrained cluster?

- A. It allocates resources based on which job requests came first.
- B. It ensures that all jobs in the cluster are executed simultaneously.
- C. It allocates resources efficiently and optimizes job execution.
- D. It increases the number of resources available in the cluster.

答案：C

解題說明：
In a resource-constrained AI cluster, a job scheduler (e.g., Slurm) efficiently allocates limited resources (GPUs, CPUs) to workloads, optimizing utilization and job execution time. It prioritizes based on policies, not just first-come-first-served, and doesn't add resources or run all jobs simultaneously, focusing instead on resource optimization.
(Reference: NVIDIA AI Infrastructure and Operations Study Guide, Section on Job Scheduling Importance)

問題 #38
You are managing an AI-driven autonomous vehicle project that requires real-time decision-making and rapid processing of large data volumes from sensors like LiDAR, cameras, and radar. The AI models must run on the vehicle's onboard hardware to ensure low latency and high reliability. Which NVIDIA solutions would be most appropriate to use in this scenario? (Select two)

- A. NVIDIA GeForce RTX 3080
- B. NVIDIA DRIVE AGX Pegasus
- C. NVIDIA Tesla T4
- D. NVIDIA Jetson AGX Xavier
- E. NVIDIA DGX A100

答案：B,D

解題說明：
For an autonomous vehicle requiring onboard, low-latency AI processing:
* NVIDIA Jetson AGX Xavier(B) is a compact, power-efficient edge AI platform designed for real-time processing in embedded systems like vehicles. It supports sensor fusion (LiDAR, cameras) and deep learning inference with high reliability.
* NVIDIA DRIVE AGX Pegasus(D) is a purpose-built automotive AI platform for Level 4/5 autonomy, delivering high-performance computing for sensor data processing and decision-making with automotive-grade reliability.
* NVIDIA DGX A100(A) is a data center system, unsuitable for onboard vehicle use due to size and power requirements.
* NVIDIA GeForce RTX 3080(C) is a consumer GPU for gaming, lacking automotive certification or edge optimization.
* NVIDIA Tesla T4(E) is a data center GPU for inference, not designed for vehicle onboard processing.
NVIDIA's DRIVE and Jetson platforms are tailored for autonomous vehicles (B and D).

問題 #39
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