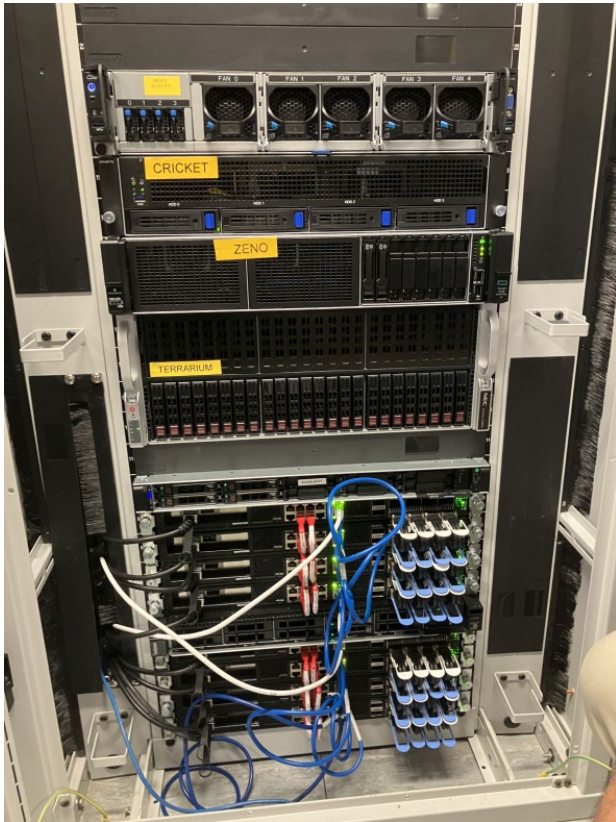# Advanced Architecture "Playgrounds" @ UCL

Ben Thomas
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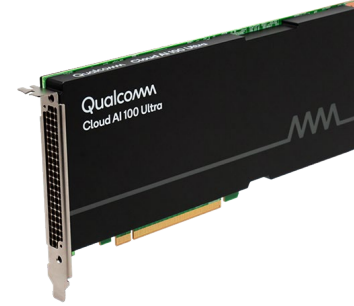# UCL Research Computing and Networking Innovation Centre (RCNIC)

- RCNIC launched in April 2020.

- RCNIC runs projects to evaluate, prove and incubate new technologies, which may become future IT services for researchers.

- Collaboration between UCL Advanced Research Computing (ARC), UCL Information Services Division (ISD), digital research professionals and researchers based in other departments.

1. To develop and share knowledge and insight into leading edge research computing technologies.

2. To accelerate their reliable deployment into UCL's production environment.

Project Contender

- Various one-off systems, with new, or currently esoteric accelerator cards
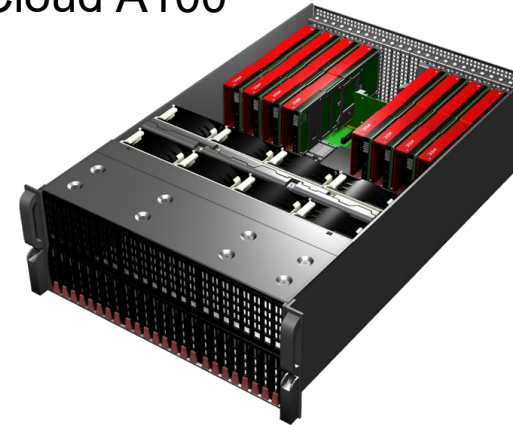

Graphcore POD16
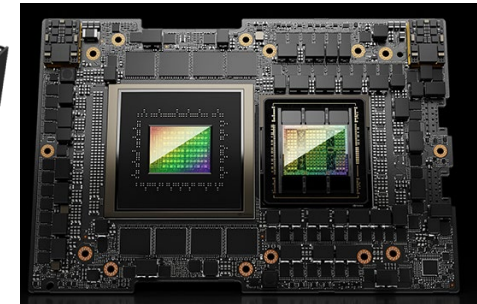

Qualcomm |Cloud A100

ARM + NVIDIA A100s

IBM LinuxONE

NEC SX Aurora TSUBASA B300-8

Grace Hopper

Benchmarking

- NVIDIA A10g, A100 (PCIe and SXM), GH200
- AMD MI210, MI250, MI300x
- Intel Gaudi 2

- Stable Diffusion
- MedMNIST