

Task 1:

Processor: AMD Ryzen 7 7800X3D 8x 4.20GHz So.AM5 WOF

Graphics Card: GeForce RTX 4060 CYCLONE 8G OC

RAM: Kingston FURY Beast black DIMM Kit 32GB, DDR5-5600, CL40-40-40, on-die ECC

Storage: MSI SPATIUM M450 Gen4 NVMe M.2 1TB

Motherboard: MSI Project Zero AMD B650 So.AM5 DDR5 mATX

Power Supply Unit (PSU): MSI MAG A750BN PCIE5 750W

Case: MSI MAG PANO M100R PZ Mini Tower black

Task 2:

“Accelerating Typhoon Path Prediction Models Based on CUDA”

Typhoon prediction usually requires processing large amounts of meteorological data. CUDA's parallel computing can significantly reduce computation time, allowing meteorologists to make more accurate predictions faster. This provides real-time disaster information to governments and citizens, helping reduce typhoon damage in places like Taiwan.