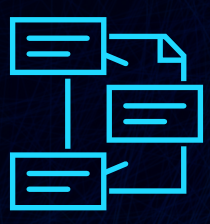
Workstations powered by Intel can play a vital role in CPU-intensive AI developer tasks

For certain AI tasks, developers can benefit from Intel processors that leverage only CPU cores. For your CPU-intensive AI tasks, consider workstations powered by Intel.

We executed ***three AI development workflows*** using only the CPU cores in tower and mobile workstations from three different vendors.



Characterizing documents

then adding them to a database and indexing them

Analyzing a portrait

by asking a local LLM to describe it

Standardizing images

and creating new images suitable for testing or training

What we learned

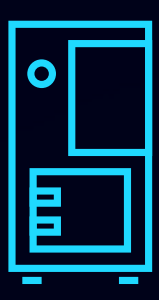
Tower and mobile workstations completed these AI workflows in ***acceptable times***.

In one workflow, using 16-bit floating point instructions ***reduced time and memory usage***.

These workstations can be ***appropriate, cost-effective choices*** for the kinds of activities we tested.

Test systems

Tower workstations



Dell™ Precision™ 7960 tower workstation

with the Intel® Xeon® w7-3455 processor, 128 GB of RAM, and a 1TB PCIe NVMe® solid-state drive (SSD)

HP Z8 Fury G5 tower workstation

with the Intel Xeon w7-3455 processor, 128 GB of RAM, and a 1TB PCIe NVMe SSD

Lenovo® ThinkStation® P7 tower workstation

with the Intel Xeon w9-3495X processor, 128 GB of RAM, and a 1TB PCIe NVMe SSD

Mobile workstations

Dell Precision 7780 mobile workstation

with the 13th Gen Intel Core™ i7-13850HX processor, 64 GB of RAM, and a 1TB PCIe NVMe SSD

HP ZBook Fury 16 G10 mobile workstation

with the 13th Gen Intel Core i7-13850HX processor, 32 GB of RAM, and a 512GB PCIe NVMe SSD

Lenovo ThinkPad® P16 G2 mobile workstation

with the 13th Gen Intel Core i9-13980HX processor, 64 GB of RAM, and a 1TB PCIe NVMe SSD

Learn more at https://facts.pt/8xoaOpQ

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