

## New study finds that Dell PowerEdge servers with AMD EPYC processors can provide strong Al ingestion performance

The third-party report highlights the performance of multiple server configurations to help decision-makers choose the right one for their needs

ROUND ROCK, TX, UNITED STATES, September 16, 2025 / EINPresswire.com/ -- Organizations in all sectors are implementing internal artificial intelligence (AI) platforms to enhance employee efficiency, provide more cost-effective customer support, and maintain a competitive edge. This often means ingesting large volumes of data into a vector-searchable database that a large language model (LLM) will utilize to respond to queries. When choosing the technologies that will support this process, companies must balance getting the resources they need without unnecessary overprovisioning. A disaggregated architecture, as opposed to a hyperconverged infrastructure (HCI), can enable companies to scale compute separately from storage and potentially save costs.

Third party Principled Technologies (PT) assessed Al ingestion speeds on five configurations of Dell PowerEdge servers powered by 5th Generation



Ingesting data for use with a large language model for AI: Latest-generation Dell™ PowerEdge™ servers powered by 5th Generation AMD EPYC™ processors offer a range of strong options

AMD EPYC processors, which offer the flexibility of a disaggregated infrastructure. Their study

covered the Dell PowerEdge R7715 server and the Dell PowerEdge R7725 server, and they tested all configurations at two different precision levels—float32 and bfloat16—to highlight performance in multiple contexts.

According to the report, "In our testing, latest-generation Dell PowerEdge R7725 and R7715 servers powered by 5th Generation AMD EPYC processors demonstrated strong performance for ingesting information into vector-searchable databases for use by LLMs in Al applications. Configurations leveraging bfloat16 precision significantly boosted sentence processing rates, with the dual-socket PowerEdge R7725 models delivering up to 3,907 sentences per second, highlighting their suitability for demanding Al applications. A disaggregated architecture using these servers allows organizations to independently scale compute and storage resources, optimizing infrastructure efficiency and cost-effectiveness. By carefully selecting the appropriate server model and processor configuration based on workload needs, companies can achieve a balanced solution that accelerates Al ingestion while avoiding unnecessary overprovisioning, enabling faster deployment and expansion of internal Al platforms."

To see all the results and learn more about the Principled Technologies study, read the test report at <a href="https://facts.pt/qlC8rv2">https://facts.pt/qlC8rv2</a> or see the infographic at <a href="https://facts.pt/pJK7rBf">https://facts.pt/pJK7rBf</a>.



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Principled Technologies, Inc. is located in Durham, North Carolina, USA. For more information, please visit <a href="https://www.principledtechnologies.com">www.principledtechnologies.com</a>.

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