

Disruptive Tech: IDAA

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Author Note

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## Disruptive Tech: IDAA

The IBM Db2 Analytics Accelerator (IDAA) is a disruptive technology that significantly enhances the speed, efficiency, and performance of data analytics on IBM mainframes. By integrating advanced analytical processing capabilities directly with Db2 for z/OS, IDAA enables real-time analytics without the need to move data off the platform. This reduces latency and improves security. IDAA allows for complex queries to run where the data resides, inside the mainframe environment, as opposed to exporting large amounts of possibly sensitive data to an external analytical platform (IBM, 2021).

### **IDAA in Mainframe Environments**

IDAA is specifically important in industries that rely on analytics operations that require large amounts of data. Industries like banking, retail, and insurance for example, heavily rely on IDAA. For example, financial institutions like banking and retail, use IDAA to perform real-time fraud detection. IDAA helps to identify suspicious activity in real-time without delays (Khan, 2020). In the healthcare industry, hospitals use IDAA to analyze patient data. These industries demand high performance, low latency, and strict regulatory guidelines. IDAA performs extraordinarily in these areas (Burris, 2019).

### **IDAA's Role in Enterprise Computing**

IDAA plays a pivotal role inside of enterprise computing. By bridging operational and analytical workloads IDAA helps industries unify systems. Traditionally, companies had to choose between transactional systems (OLTP) and analytical systems (OLAP), with IDAA

companies no longer having to choose between the two. This hybrid architecture supports both real-time analytics and transaction processing, leading to an improved customer experience (IDC, 2020). IDAA's integration with high speed storage and in-memory processing capabilities make it perfect for modern enterprise applications that demand real-time analytics.

### **Neuromorphic Computing**

The development of the “brain-imitating chip” or neuromorphic computing attempts to replicate how the human brain processes information, fast and in parallel while using minimal energy. If integrated with tools like IDAA, it could disrupt how businesses handle pattern recognition, language processing, and AI applications. If integrated these applications can reliably learn and respond without human intervention (Markoff, 2014)..

### **Taking the Question to the Data**

The concept of “taking the question to the data” is a modern analytical concept. Exporting large amounts of sensitive data is costly and poses immense security risks. Taking the question to the data involves using tech like IDAA to perform analytics directly on the data rather than on another platform, this increases performance and enhances security. Technologies like IDAA have made this concept a reality (TechRepublic, 2021).

### **Conclusion**

In conclusion, IDAA presents a significant improvement in analytical systems on enterprise computing. Combining the power of real-time analytics and core mainframe capabilities enhances performance, compliance, and security.

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