A New Generation of Computing Architecture

designed for Big Data Analytics & AI

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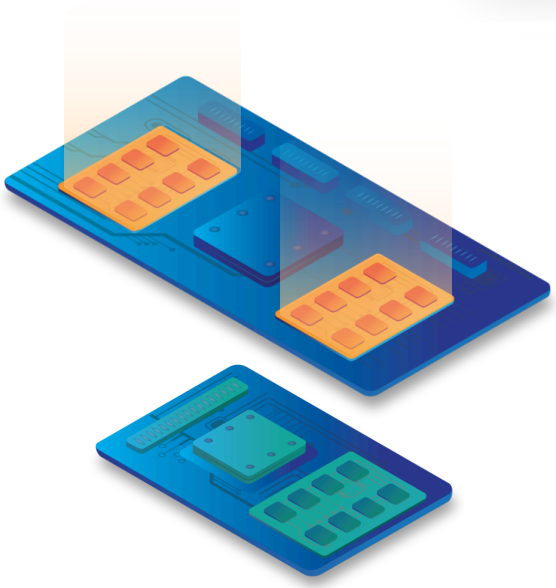

AMD 1053
Advanced Micro Devices v. Fermat Int'l
IPR2026-00360

Fermat is a high performance computation solution:

An analytic engine fully integrated with high capacity Flash-based Storage through a patent pending Data-Aware Architecture.

Fermat functions not only as a high performance computation engine but also as a mass storage device:

Data is growing faster than conventional processing speed

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Existing hardware architectures fail at addressing massive datasets

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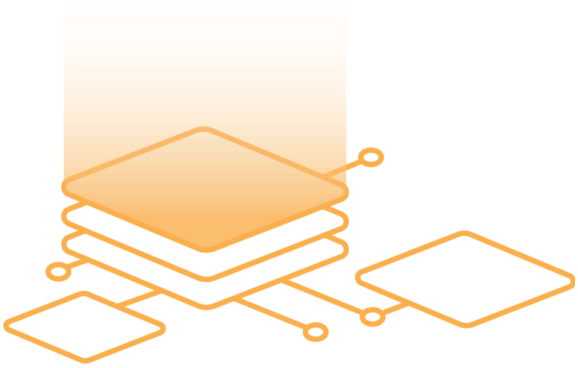


Fermat hardware goes beyond Von Neumann architecture to allow **Big Data processing without any bottleneck**

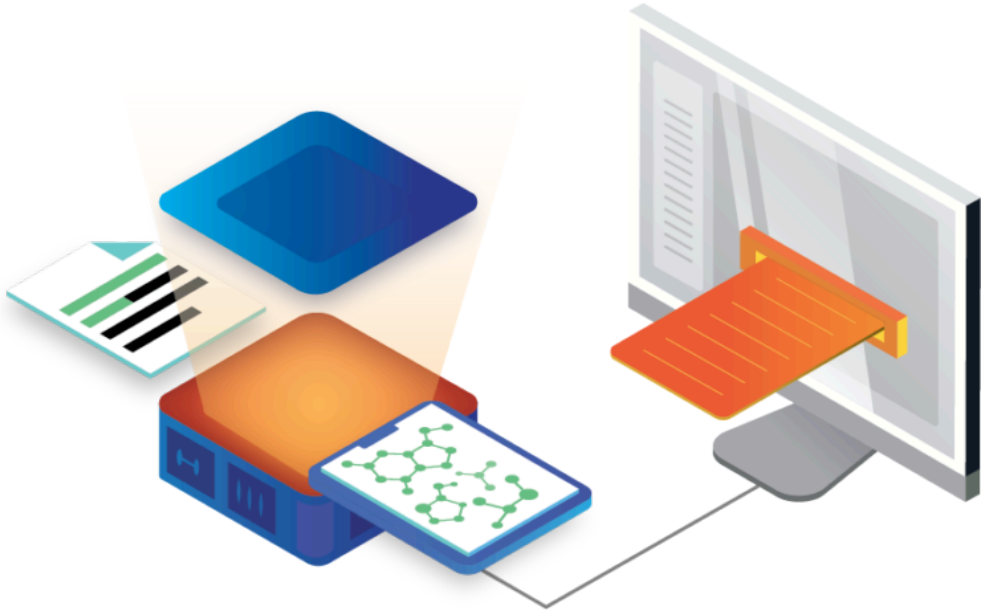
Unprecedented performance on massive amount of data

Fermat solution parallelizes analytics across data and linearly scale performance as data grows.

Up to **30x faster**
than conventional architectures

Up to **1000x cost savings**
compared to cloud computing offers

Up to **400% more energy efficient**



Flexible solution designed for Big Data Analytics & AI

Fermat hardware comes in several form factors. One Fermat module can store and process up to 32TB of raw data.

Pre-compiled library of popular algorithms
Such as basic Mathematics & Statistics, Monte Carlo, TensorFlow, etc

Software adoption with minimal friction
As simple as opening, reading/writing data, calling a C or Python function

Fermat can be implemented…

...in the Cloud

...at the Edge

...within a Datacenter

Fermat addresses the growing needs for powerful **Big Data Analytics and AI solutions** over the most-demanding industries:

Finance & Banking

Biotech & Pharmaceutical

IoT & Edge Computing

Security Agencies

Please contact us to explore your specific use case

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We are entering a new era where the speed at which you can process a vast amount of data will be of prime importance. Fermat with its

unique architecture and DataFirst processing is on the right track to be a dominant player in Big Data Analytics

Emmanuel Bacry
Head of Data Science, Ecole Polytechnique

Let’s get in touch

Who are you?

Customer

Name

Mail

Message

ERROR for site owner: Invalid site key

reCAPTCHA

SEND

27/29 Rue Raffet, 75016 Paris

Open job positions

→ Senior Algorithm Software Engineer
< http://fermatinternational.com/senior-algorithm-software-engineer/>

→ Software Engineer
< http://fermatinternational.com/fermat-software-engineer/>

→ Senior System Software Engineer
< http://fermatinternational.com/fermat-senior-system-software-engineer/>

Data protection and privacy policy

→ Download the notice
< http://fermatinternational.com/wp-content/uploads/2020/10/SAS-FERMAT-data-protection-statement-and-privacy-notice.pdf>

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