

Prime Factorization

The MEMCPU Platform™ has been meticulously programmed to derive congruences among integers, paving the way for efficient biprime factorization using standard sieving methods. A comprehensive set of RSA-like biprimes served as the benchmark for an in-depth performance analysis. As anticipated, existing methodologies like the General Number Field Sieve (GNFS) and commercial Integer Linear Programming (ILP) solvers exhibited super-polynomial scaling on this benchmark. Remarkably, MemComputing was put to the test up to 300 bits, displaying scaling that adheres to a 2nd-degree polynomial fit. This achievement signifies a leap towards addressing complex computational problems with enhanced efficiency and scalability, potentially unlocking new possibilities in cryptography and beyond.

[Press Release](#)

Prime Factorization Capability

See MemComputing's press release on our capability to address Prime Factorization at scale.



[Read More](#)

“With this latest achievement, MemComputing reaffirms its unwavering commitment to spearheading innovation in the computational domain,” said John Beane, CEO of MemComputing, Inc. “This latest development not only showcases the raw power and versatility of our technology but also paves the way for significant advancements in fields that rely heavily

New Paper

Implementation of Digital MemComputing...

Dr. Max Di Ventra, co-founder of MemComputing, has unveiled a paper shedding light on a novel DMM hardware design, leveraging conventional electronic components for marked improvements in speed & stability, addressing more complex problems!

Paper



Latest Presentation Prime Factorization Presentation

In case you missed it, here is our presentation to the Defense Information Systems Agency (DISA) demonstrating our approach to Prime Factorization.

Presentation

See who's talking about our achievement

Quantum Zeitgeist Articles:

- MemComputing claims Breakthrough in Large-Scale Prime Factorization, Potentially Revolutionising Cryptography.
- Quantum Inspired MemComputing says RSA 2048 can be broken in real-time.

Yahoo Flnance:

- MemComputing Releases Manuscript Addressing Prime Factorization Capability

Times of San Diego:

- Startup Achieves Quantum-Speed Math Processing

Latest Award

Will Reed Top 100

Out of 2,500+ Seed & Series A companies, Will Reed just named MemComputing a top early-stage company shaping the future of workplace culture. Congrats team!

Top 100



EVENTS

2023



EDGE 2023 Supply Chain Exchange Exhibition

October 1-4

MemComputing is exhibiting at the EDGE 2023 Supply Chain Exchange Exhibition where we will be showcasing our technology to industry leaders and clients.

MEMCPU
P L A T F O R M

The cloud-based MEMCPU™ Platform is a novel computing paradigm designed to solve complex optimization problems at unprecedented speed and scale. Whereas classical optimization algorithms iteratively search for solutions, the MEMCPU Platform naturally converges to the solution in one massively parallel transaction, enabling our clients to achieve truly optimal solutions in near real time.

Get Started

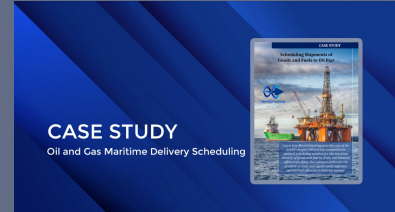
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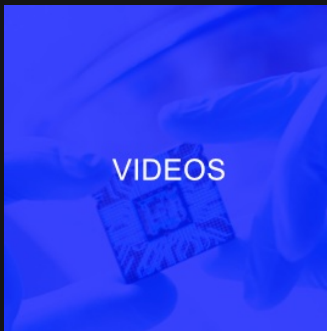
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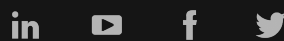


O&G Case Study
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