Antitrust Policy

All project meetings are subject to the Linux Foundation Antitrust Policy.
The following topics must not be discussed:

- Price-sensitive information

- Actual or projected changes in production, output, capacity or inventories

- Matters relating to bids, prospective bids, or bid policies

- Matters relating to actual or potential individual suppliers that might influence the business conduct of firms toward such suppliers

- Matters relating to actual or potential customers that might have the effect of influencing the business conduct of firms toward such customers

- Current or projected costs of procurement, development or manufacture of any product

- Market shares for any product or for all products

- Confidential or otherwise sensitive business plans or strategy

If you have questions, please contact legal@finos.org

Meeting Notice

- FINOS Project leads are responsible for observing the FINOS guidelines for running project meetings. Project maintainers can find additional resources in the <u>FINOS Maintainers Cheatsheet</u>.

- All participants in FINOS project meetings are subject to the <u>LF Antitrust Policy</u>, the <u>FINOS Community Code of Conduct</u> and all other <u>FINOS policies</u>.

- FINOS meetings involve participation by industry competitors, and it is the intention of FINOS and the Linux Foundation to conduct all of its activities in accordance with applicable antitrust and competition laws. It is therefore extremely important that attendees adhere to meeting agendas, and be aware of, and not participate in, any activities that are prohibited under applicable US state, federal or foreign antitrust and competition laws. Please contact <u>legal@finos.org</u> with any questions.

- FINOS project meetings may be recorded for use solely by the FINOS team for administration purposes. In very limited instances, and with explicit approval, recordings may be made more widely available.

Zenith

Emerging Technology
Special Interest Group
July 27th, 2023

Please add your attendance to:

https://github.com/finos/zenith/issues/49

Agenda

- Announcements

- POC Program

- Deep Dives

- Any Other Admin

- Call to ~~Arms~~ Action

- Any Other Business

- Thanks & Close-Out

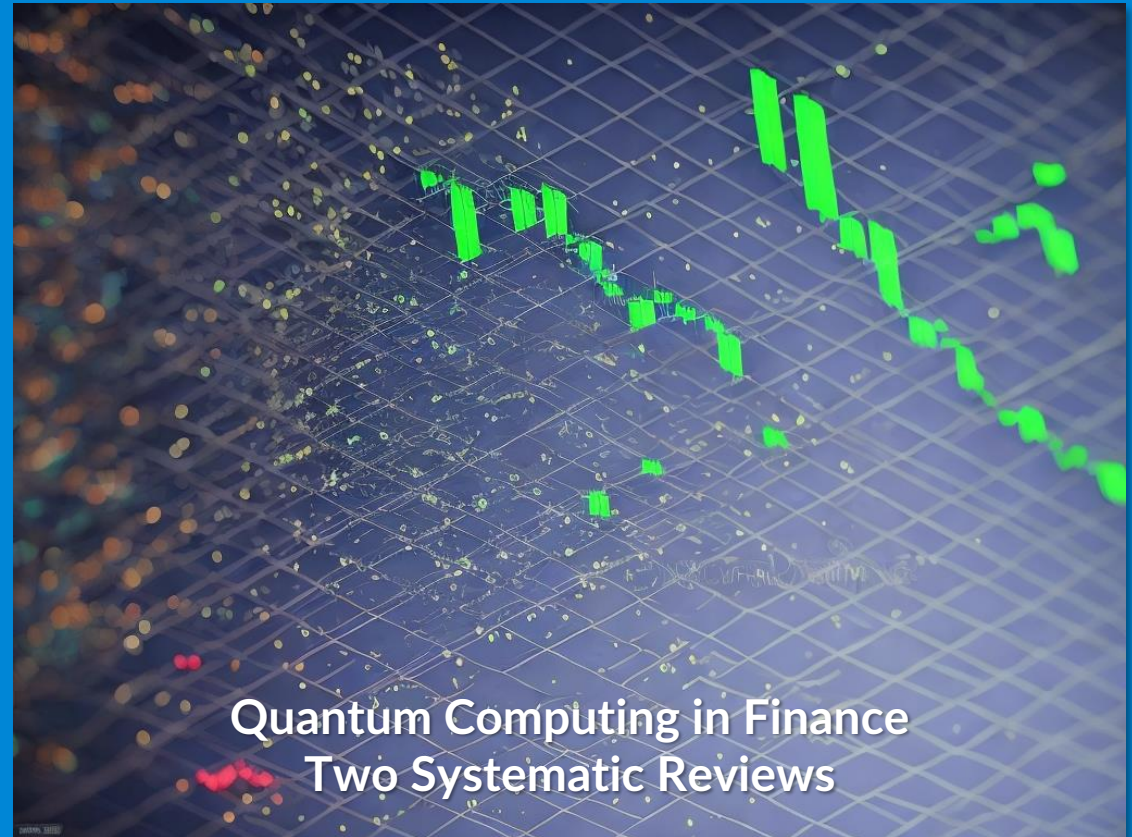# Announcements

Announcements

Blogs & Znglists

Quantum Computing in Finance
Two Systematic Reviews

Announcements

Upcoming Events

Thursday, July 27   *(Today!)*

- **11am EST / 4pm BST**

  FDC3: Web Browsers - Calendar Invite

- **11pm EST / 4pm BST**

  Morphir - Calendar Invite

https://www.finos.org/news-and-events

- **August 2 –
  Open Source London**

  Our August meetup in partnership with Scott Logic will be hosted at NatWest's Bishopsgate offices in London and will focus AI and open source, and the opportunities and challenges of harnessing AI's business potential. Register here.

- **November 1 –
  Open Source in Finance Forum - NYC**

  Registration is open for our annual Open Source in Finance Forum in the Marriott Marquis Hotel in Times Square NYC. Find information on how to sponsor or register here.

Deep Dive

📄 Primers
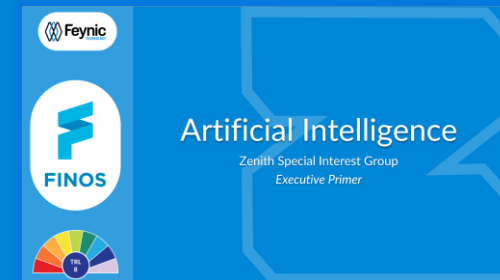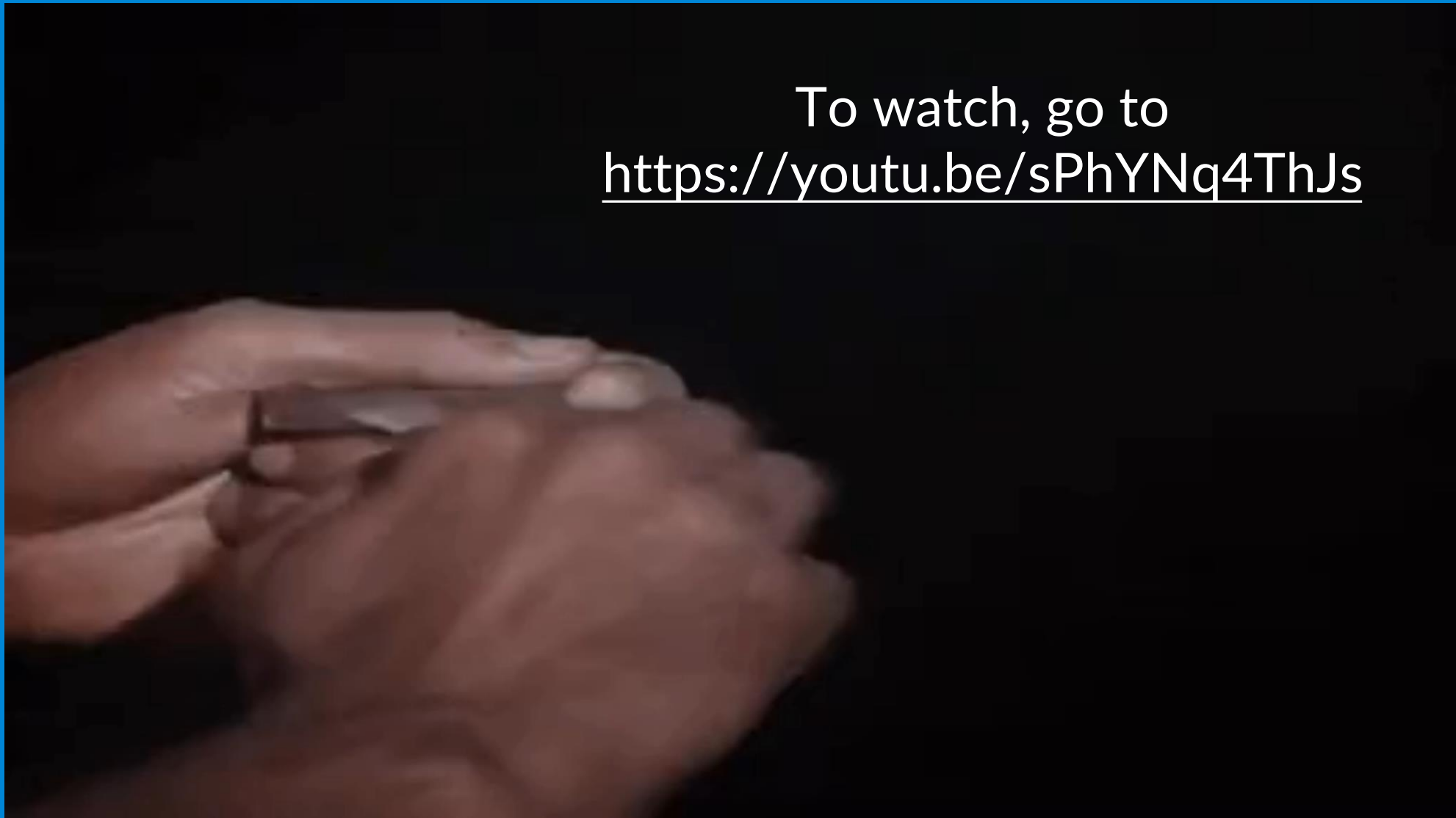bit.ly/zenith-primers

Next Primers

- Finish the AI Deep Dives
- Quantum Tech
- Spatial Computing

The First Primer is Launched!
Artificial Intelligence

To watch, go to
https://youtu.be/sPhYNq4ThJs

AI Primer

Artificial Intelligence Primer: Introduction to the Subject

Introduction to AI

Definition and Overview
Importance and Application
Ethical Considerations
Accessibility
Security
Emerging Current Trends
What comes next?

A Brief History of

Early Developments
Key Milestones
Current State & Future Directions

AI Primer: Glossary

General AI

Algorithm: A set of instructions

AlphaGo: A computer program made in AI in recent years.

Artificial Intelligence: The simul

Autonomous: Able to operate i

Bayesian network: A probabilist applications, including medical

Bias: A tendency to favour one of the real world.

Bias-Variance Trade-off: The bal while variance refers to errors ca

Big Data: Large and complex da

Chatbot: A computer program o

Feynic TECHNOLOGY

3 Types of Artificial Intelligence:

Weak AI

- Limited by programming – won't develop new skills
- Analyses preferences and improves over time

Strong AI

- Learns new skills through contextualisation
- Applies knowledge to plan ahead
- Can adapt as changes occur

Superintelligence

- Self-aware
- Surpasses human intelligence
- Only exists in science fiction

Artificial Intelligence

Artificia
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opportu
branch
human
breakth
propelli

For fint
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innovati
opportu
careful a

**In this e
potentia
adoptio**

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adoptio
industry

In the
opportu
potentia
technolo

Feynic TECHNOLOGY

AI Chipsets

Specialized processors designed to accelerate AI computations, enabling faster and more efficient AI model training and inference.

In fintech, AI chipsets drive groundbreaking advancements, powering complex algorithms for fraud detection, risk assessment, and personalized financial recommendations.

The high-performance computing capabilities of AI chipsets empower fintech companies to deliver real-time, data-intensive services, transforming the way financial institutions operate and serve their customers.

You can find out more about this subject in our AI Chipset Primer on the Zenith GitHub.

8

OPPORTUNITY	IMPACT		TECHNICAL FEASIBILITY
	Macro	Micro	

SUMMA

AI chipset
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AI Chipsets

AI chipsets, also known as AI accelerators or AI processors, are specialized hardware components designed to accelerate AI workloads. Traditional central processing units (CPUs) and graphics processing units (GPUs) have limitations in terms of computational power and efficiency when it comes to AI tasks. AI chipsets are purpose-built to optimize the processing of AI algorithms, enabling faster and more efficient AI computations.

AI chipsets leverage parallel processing and specialized architectures to handle the complex mathematical computations required for tasks such as deep learning, computer vision, and natural language processing. They can significantly enhance the performance of AI applications, allowing for real-time inference and training on large datasets.

Overview of AI-specific Hardware

AI-specific hardware, also known as AI accelerators or AI processors, is a category of specialized hardware designed to optimize the performance of AI workloads. These hardware solutions are developed to address the unique computational requirements of artificial intelligence, providing faster and more efficient processing of AI algorithms compared to traditional central processing units (CPUs) and graphics processing units (GPUs).

AI-specific hardware leverages various architectural optimizations and parallel processing techniques to accelerate AI computations. Here are some key points to understand about AI-specific hardware:

- **Purpose-built Design:** AI-specific hardware is designed from the ground up with AI workloads in mind. The hardware architecture is optimized to perform the specific mathematical operations involved in AI algorithms, such as matrix multiplications, convolutions, and tensor operations.

Deep Dive

Layla White
CEO, Tech Passport
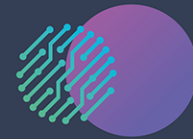
TECHPASSPORT

Any Other Admin

Please add your attendance to this call!

https://github.com/fin os/zenith/issues/49

Join our mailing list for future updates

(You don't need to put anything in the message)

Do we still want fortnightly calls?

Call to Action

Get in touch with us
through the mail group

Go an add your
comments and additions
to the **AI Primers!**

Let us know if you'd like
a spotlight!

Any Other Business?

Thank you

Join the discussion at
zenith.finos.org

Thank you

Next time:
**Live from the Metaverse
& The POC Program Launch**

FINOS