

mynatix

Company Presentation

March 2025



Our Company

Mynatix is a deep tech startup based in Basel (Switzerland) and founded in 2022 as a public limited company. It's run by an experienced team comprising IT, finance, law, academia and marketing experts and owned by the management.

Our Business Strategy

Mynatix targets the following two strategic steps

- Based on LACOS, Mynatix is developing a first service product for software developers. Mynatix will be able to generate substantial revenue with modest effort in a short term.
- For additional fields (e.g. Kernel and/or Compiler development), Mynatix is seeking for cooperations, licencing agreements but also (partial) selling of IP.

Our Purpose

- High performance computing, one of mankind's key technology, aims to exploit big data in order to understand faster and decide better on a vast range of important questions (climate change, logistic supply chains etc.)
- The faster and more efficient a code is runing, the better these questions can be answered
- In this quest for progress, Mynatix is introducing a novel, automated approach for exploiting parallelism in software codes on the link between hardware and software
- The completely novel approach can save time and energy substantially and, therefore, reshape the software development market (estimated\$ 251 bn in 2023): LACOS

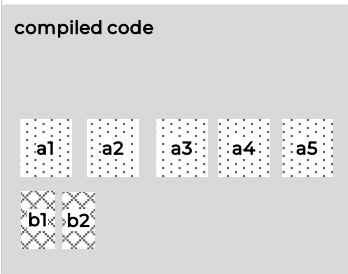
Our Principle: LACOS

- LACOS (Latency-Optimized Code Segmentation) shows in first applications hight potential for automated efficiency improvement of software on parallel hardware
- LACOS includes Read-after-read (RAR) data dependencies between instructions to auto-parallelize software codes
- Benefits of LACOS: Saving time in software development and increasing computing performance/speed
- LACOS is in the course of being proteced by international patents

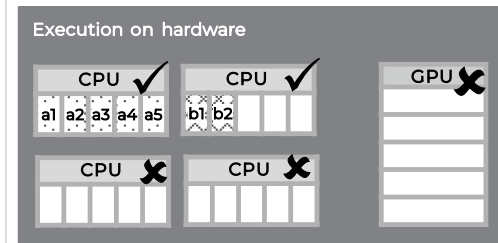
Lacos Method



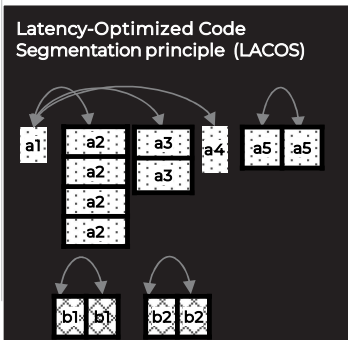
Standard compiling



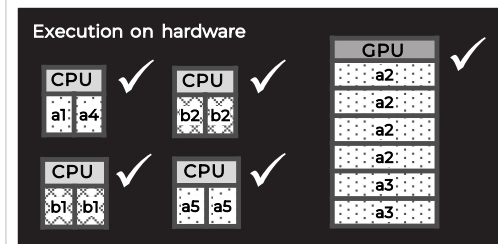
Scheduling to one core only



With LACOS



Scheduling segments by machine learning to the given parallel hardware



Our Patent Strategy

- The base patent has been filed in October 2021 through the worldwide patent application PCT, was published in April 2023 and is currently in country registrations
- A second patent with specific fields of application was filed in April 2023 and is meanwhile in Chapter 2. In addition, more patents are currently being drafted
- Therefore, we are building up a growing «patent family» to protect the full range of the method

Our Academic Strategy

- A Innosuisse pre-study was successfully conducted in 2022
- We are incorporating and linking LACOS to state-of-the-art research by writing articles in peer-review journals
- We are looking to cooperate with further research institutions (e.g. Innosuisse project)

Fields Of Application For Lacos



Programming Tools:

LACOS identifies parallel opportunities in any code and applies fully automatically well-established parallel frame-works (e.g. openMP, CUDA or MPI) to the corresponding code sections .

Automated integration of such complex frameworks leads to a significant re-duction of time and effort during software development.



Kernel (in cooperation with providers):

It is the daily business of cloud computing providers to balance a wide variety of code to run on their server infrastructures. With LACOS, this can be optimized in a new way and fully automatically. Therefore, more clients could be served and more software could be run on a cloud infrastructure.



Multi-Chip Platforms (in cooperation with manufacturers):

LACOS could extend the manufacturers' compilers to optimize any code to different chip properties on platform in a novel and generic way. Today compilers are targeted on just one specific chip type.

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Step I/Programming Tools: Application Development with LACOS

- Mynatix makes the value of LACOS available to software developers as an AI core technology in a novel cloud based expert system
- Mynatix' first product IXpert will analyse code free-of-charge
- Code sections containing parallelism which can be exploited on a multicore platform are parallelised by applying established frameworks correctly by the expert system
- There is no need of any interaction with the software developer
- The automatic optimization of the code itself is charged either by subscription or for cooperation on a flat rate basis
- The fee for an average code optimization by IXpert will be much less compared to the time needed to adapt the code by hand
- The expert system will be accessible by plugins for code editors, via Web application or embedded in application

Founders and Management



Andres Gartmann
Co-CEO, CTO
Msc. ETH computational sciences, PhD



Christian C. Moesch
Co-CEO, CFO
Certified fiduciary, audit expert

Board Of Directors



Florian Schmid
Investor Relations
MD, orthopaedic surgeon



Christian Hochstrasser
Legal
PhD, Attorney at Law



Mathias Müller
Science
PhD, Award Winning meteorologist



Hans-Peter Wessels
Academic Relations
PhD in biochemistry

Advisory Board



Lukas Haas
Hardware
MSc. ETH electrical engineering, hardware specialist



Baschi Dürr
Communication
Economist, PR specialist

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Appendix

Team



Dr. Andres Gartmann, Founder

President of the Board of Directors, Co-CEO, CTO

After studying mechanical engineering at the Swiss Federal Institute of Technology in Zurich, Andres received his PhD in meteorology from the University of Basel in the field of numerical simulations of fluid dynamics. His interests lie in challenging computational environments, and he is fascinated by the ability of numerical methods to make the inherent dynamics of complex systems comprehensible.



Christian C. Moesch, Founder

Member of the Board of Directors, Co-CEO, CFO

Christian is a business and finance expert with many years of experience in classical management consulting on the one hand and as an entrepreneur on the other. He is a partner in a fiduciary and consulting company based in Basel/ Switzerland and focuses on financial management and consulting for SMEs, but also for listed companies, where he also frequently acts as interim manager. Christian has already founded several companies and serves as a board member for various companies, foundations and organizations.



Florian Schmid

Member of the Board of Directors

Florian is an orthopaedic surgeon, CEO and partner of LEONARDO AG, a group practice specialising in orthopaedics. He graduated from the University of Basel in 2010 and obtained his MD there in 2017. Following his specialist training in Switzerland, Florian completed several fellowships in Perth, Australia, specialising in sports surgery, trauma and joint replacement. His current focus lies in knee surgery. He is responsible for our investor-relations.



Dr. Christian Hochstrasser

Member of the Board of Directors

Christian is an Attorney at Law and partner of ThomannFischer in a medium-sized business law firm. He advises and represents companies and entrepreneurs in matters of contract and corporate law and is a member of various boards of directors and boards of trustees. Born in Basel in 1983, he graduated in 2001 with a degree in natural sciences and subsequently studied law at the University of Basel. After obtaining his license to practice law in Basel (2011), he joined ThomannFischer as an attorney-at-law and received his doctorate in corporate law (Corporate Governance) from the University of Zurich in 2015/16.

Team



PD Dr. Mathias Müller

Member of the Board of Directors

Mathias holds a PhD and habilitation from the Institute of Meteorology, Climatology and Remote Sensing at the University of Basel, Switzerland, where he lectures. He is president of meteoblue and responsible for research and development. Mathias developed the meteoblue weather forecasting system, and his work has been recognized with several awards, including the Swiss Switch Award in 2005, the European Meteorological Society Young Scientist Award in 2006, and a grant from the Swiss de Vigier Foundation in 2007.



Lukas Haas

Member of the Advisory Board

Lukas holds a Master of Science in Information Technology and Electrical Engineering from ETH Zurich and worked for 6 years as a technical consultant in telematics and system design. In 2014 he founded a startup that develops innovative hardware and software solutions. Lukas has knowledge in programming languages and technologies such as C++, Javascript, Python and VHDL as well as hardware platforms such as microcontrollers, embedded systems and networked devices (IoT). He is the founder and organizer of the Meetup group IoT-Basel.



Dr. Hans-Peter Wessels

Member of the Board of Directors

Hans-Peter holds a PhD in biochemistry and has held a number of leadership positions in academia. From 1998 to 2000 he was interim head of the Swiss National Supercomputing Center CSCS at ETH Zurich. Before being elected to the government of the Canton of Basel-Stadt, he headed the economic development agency BaselArea. From 2009 to 2021, as head of the Department of Construction and Transport, he was responsible for the policies of the Canton of Basel-Stadt in the areas of urban development, mobility and infrastructure. Since 2021, he has been active in strategy and policy consulting. Among other things, he is a member of the University Council of the University of Basel.



Baschi Dürr

Member of the Advisory Board

Baschi is an economist, CEO of a real estate company and member in various boards of directors. Prior to that, he was a member of the government of the Canton of Basel-Stadt and headed the Department of Justice and Security with around 2,000 employees. Before joining the government, he gained broad leadership and implementation skills in all aspects of communications – from branding to reputation management, from corporate communications to investor relations – among others at Farnert Consulting and F. Hoffmann-La Roche.

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About

Mynatix is a deep tech startup based in Basel (Switzerland) that focuses on compiler technologies for parallel computing. Its «Latency-Optimized Code Segmentation» principle (LACOS; patent application published and country registrations in process) has shown in proof-of-concepts a high potential for optimizing code to multicore hardware. Basically, LACOS includes Read-after-read (RAR) data dependencies between instructions what enables a novel approach to auto-parallelize software codes. Mynatix aims to learn more about the specific added value of LACOS by developing a first service product for software developers. For additional business opportunities such as Kernel, compiler or chip development, Mynatix is seeking for cooperations, licencing agreements but also (partial) selling of IP.

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Management:

Dr. Andres Gartmann Co-CEO & CTO
Christian C. Moesch Co-CEO & CFO