Start-Up Pitch

Vector Fabrics
End of Moore’s law – software cannot keep up

“The way the processor industry is going, is to add more and more cores, but nobody knows how to program those things. I mean, two yeah; four not really; eight, forget it.”
Steve Jobs, Apple

“Software design may deliver poor incremental performance or, in many cases, yield a decrease in useful work as more processors are added.”
Carl Claunch, Gartner

Computational Capacity

Existing software is not making use of the full potential of multi-core hardware

Introduction of multicore technology

Achieved performance

Performance

Time
The silicon vendor’s sales challenge

Look at the raw performance and power features of our many-core!

Make it easy **port my sequential code** to your many-core

Show me what the **performance and power** of my code will be on your many-core

I need **support**! I don’t understand how to benefit from the hardware features in my code
Sequential to parallel – Vector Fabrics

**OpenFlow Router**
- 45k lines
- sequential C

**Bullet Physics Engine**
- 90k lines
- sequential C++

**Android WebKit**
- 1M lines
- sequential C++

Vector Fabrics technology
- Interactively parallelize
- Optimize memory
- Predict performance on the target

➤ Without writing code!

Parallel design on 256 cores in 2 weeks by a novice

Parallel code on 4 cores in 2 weeks
Optimize your software

- 2013 Gartner “Cool Vendors in Embedded Systems & Technology”
- Listed in EE Times “Silicon 60” list of hot startups
- Unique, patented, multi-core optimization technology
- 15 people, VC backed

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