Welcome
to the
First Annual
OpenPOWER Summit
Rethinking the Data Center

Gordon MacKean, Chair
OpenPOWER Foundation
Rethink the Data Center

The End of Moore's Law
Cost-performance benefits are diminishing

Improve Integration of CPU with I/O and Accelerator Subsystems
Maximum impact through collaboration with technology leaders

Open Processor Architecture with Scale-Out Performance
To create an open development community dedicated to transforming the approach to scale out server design based on the POWER architecture.
Rethink the Data Center

One Year. 113 Members.

Join the revolution at openpowerfoundation.org

#OPENPOWERSUMMIT
Membership Is Critical

With a diverse membership we can leverage a broad range of strengths and expertise.

With a large membership we can make rapid progress in all areas of the ecosystem.

We have a growing foundation of Systems and Software, and only 12 months later we are able to demo progress in eliminating those system performance bottlenecks.
The Origins

August '13: IBM unveils the P8 Processor

April '14: The first of the 3rd party planars showcased.
Components & Systems
New Systems & Platforms
New Systems & Platforms
Bringing It All Together

redislabs

Clustering + Open Source Redis

ALTERA

Nallatech

ubuntu®

Supported by Canonical

IBM

192 Vcores + CAPI + 40TB in 2U

OpenPOWER
Bringing It All Together

IBM POWER8

FPGA accelerator generates Full Order Book

Market data via 10Gbps Ethernet

CAPI Bus

Order Book snapshots delivered directly to processor core via coherent shared memory

Order Book: GE

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A Fast Start for OpenPOWER

August
Announced Intent to form OpenPOWER

January
First two Chinese members join

2013
December
Incorporated Foundation and elected officers
5 members

2014
April
Public launch of website, members and demonstrations (Tyan and Google planars)
26 members

July
IBM, with contributions from Google, released 420,000 lines of firmware code
45 members

October
Multiple collaborations among IBM, Nvidia, Redis Labs, Altera, Canonical and Tyan produced four products to market.

November
Department of Energy chooses OpenPOWER design for $325M supercomputing contract

March
OpenPOWER kicks off first Summit
- 110+ members
- 50+ member presentations
- 10+ product reveals

2015
November
Nallatech CAPI Developer Kit released

October
China government endorses and supports OpenPOWER ecosystem through the formation of China Power Technology Alliance

December
Seven work groups chartered with more on the way; one year since formation.
80+ members

March
SoftLayer announces world’s first OpenPOWER bare metal as a service offering
100+ members
How Open Transforms the Data Center

Brad McCredie, President
OpenPOWER Foundation
Top 10 reasons why the OpenPOWER Foundation will transform the data center

1. If you’re not open you’re not moving.
2. Bigger is better.
3. Seeing is believing.
4. Dancing with the Stars.
5. It feels good to do it.
6. You can build on your own lot.
7. Live long and prosper.
8. You don’t need a rich uncle.
9. T-shirt and shorts or suit and tie, you blend.
10. You get to make lots of new friends and meet lots of nice people.
Top 10 reasons why the OpenPOWER Foundation will transform the data center

1. If you’re not open you’re not moving. Open ecosystems drive innovation.
2. Bigger is better. OpenPOWER chip technology brings profound performance.
3. Seeing is believing. Everyone can see the source code and know what is in it.
4. Dancing with the Stars. OpenPOWER technology is basis for new innovations.
5. It feels good to do it. OpenPOWER enables customization across the stack.
6. You can build on your own lot. With OpenPOWER, control your supply chain.
7. Live long and prosper. Big open ecosystems share profits.
8. You don’t need a rich uncle. Success is a function of team skill and ideas.
9. T-shirt and shorts or suit and tie, you blend. OpenPOWER fits any data center.
10. You get to make lots of new friends and meet lots of nice people. OpenPOWER brings thought leadership in every discipline of IT.
OpenPOWER™

RETHINK THE DATA CENTER