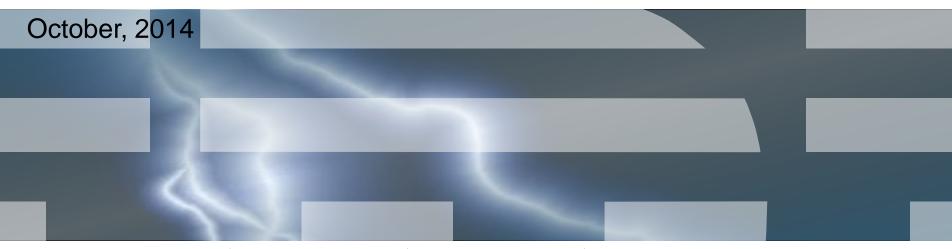


The Open Power Foundation and Opportunities in Weather/Climate Modeling

HPC Workshop Conference at ECMWF

Don Grice - IBM and Jeremy Appleyard - NVIDIA







Goal

The goal of the OpenPOWER Foundation is to **create an open ecosystem**, using the POWER Architecture to share expertise, investment, and validated and compliant server-class intellectual property to serve the evolving needs of customers.

- Opening the architecture to give the industry the ability to innovate across the full Hardware and Software stack
 - Includes SOC design, Bus Specifications, Reference Designs, FW OS and Hypervisor Open Source
- Driving an expansion of enterprise class Hardware and Software stack for the data center
- Building a vibrant and mutually beneficial ecosystem for Power

Platinum Members

















Proposed Ecosystem Enablement







Cloud

Software

Operating System / KVM

Firmware

Hardware

openstack CAT Linux

OpenPOWER Firmware

OpenPOWER Technology

Existing Open Source Software

Communities

New OSS Community

System Operating Environment Software Stack

A modern development environment based on tools and services



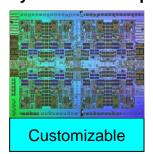
Multiple Options to Design with POWER Technology Within OpenPOWER

POWER8



"Standard POWER Products" - 2014

Framework to Integrate System IP on Chip



Industry IP License Model

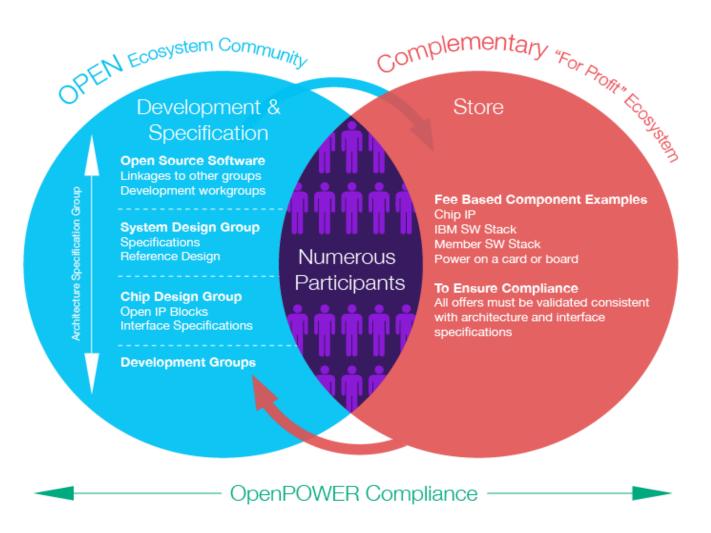


"Custom POWER SoC" - Future

Hardware

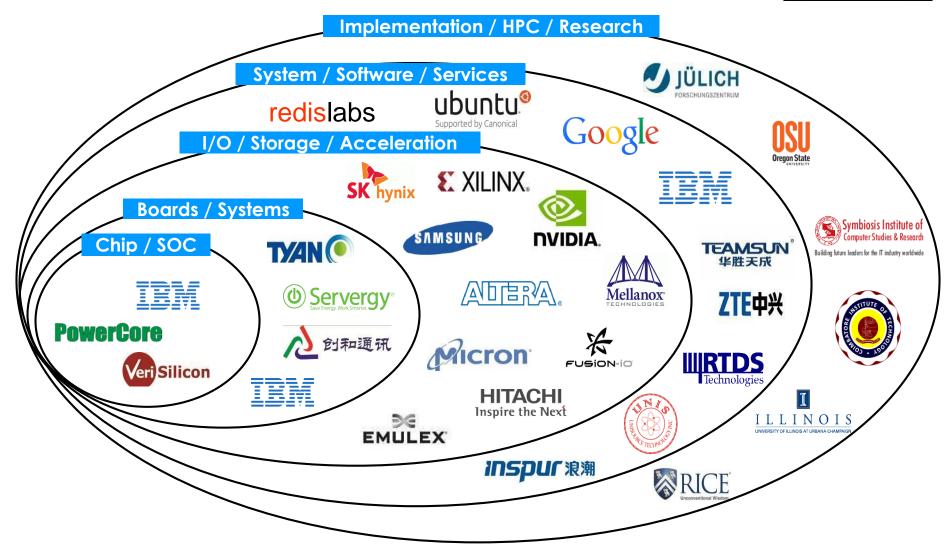


OpenPOWER Overview



Building collaboration and innovation at all levels





Welcoming new members in all areas of the ecosystem

100+ inquiries and numerous active dialogues underway



Thank you!

