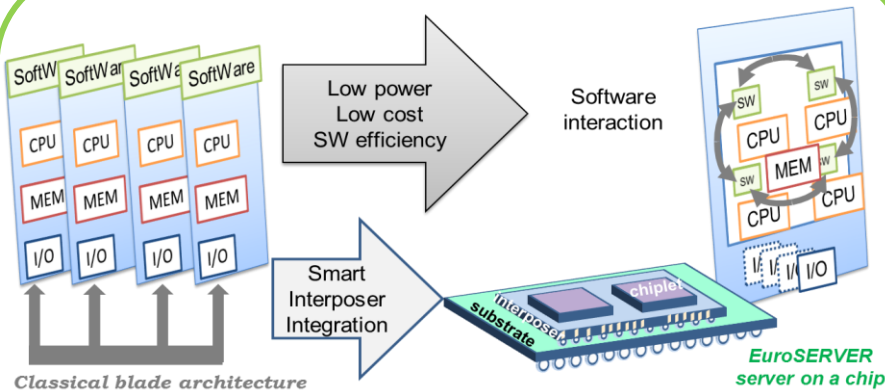




VISION



Innovative design:

64-bit ARM cores, 2.5D heterogeneous integration, FD-SOI, coherence islands

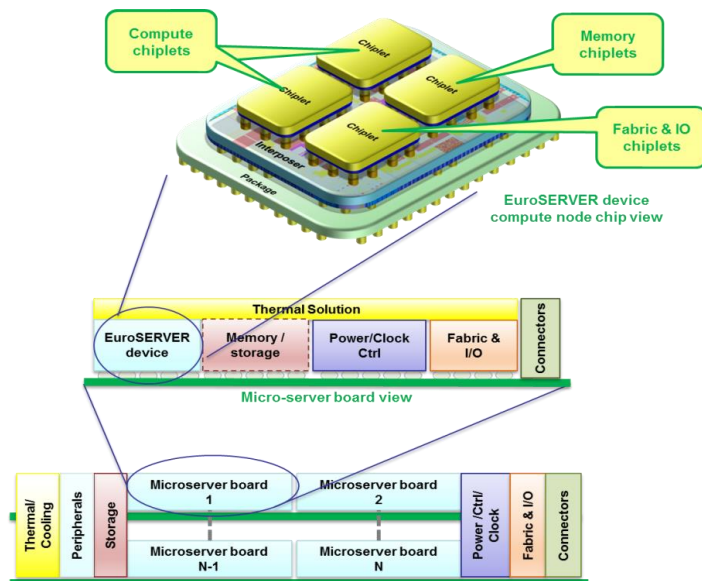
OBJECTIVES

Combine micro-server architecture, silicon implementation, system integration and software development to

- Improve Energy efficiency
- Improve Total cost of ownership
- Improve Software efficiency

To redesign "Micro-Servers" to be used in building datacenters

INTEGRATION



APPLICATIONS

- Data Centers & Cloud computing
- Telecom infrastructures
- High-end Embedded systems

Typical workloads:

- Web-server hosting (LAMP/WAMP),
- Distributed databases (HADOOP)
- OLAP, OLTP workloads
- Relational databases (MySQL)
- Network communications,
- Vehicle on-board computer,
- Automatic vehicle location tracking

FACTS

- FP7 collaborative project, 9 partners
- Started in Oct 2013, 41 months duration
- Total budget 11.4 M€, EU contr. 8.15 M€
- www.euroserver-project.eu

DISCRETE PROTOTYPE



Architecture:

- Hierarchical Interconnect
- Partitioned Global Address Space (UNIMEM)
- Shared 10 GigE NIC
- Shared NVM-based storage
- Hardware-assisted virtualization

Systems Software:

- UNIMEM support
- MicroVisor (xen-based) distributed hypervisor
- Sockets over RDMA, Mailbox notifications
- Device drivers for shared I/O

EXPLOITATION



KALEAO introduces the new generation **server** solutions.



ZeroPoint Technologies introduces ultrafast and effective compressed memory for **servers**.

