Computer System Laboratory

(Staffs: Prof. Hiroaki Hirata, Assoc. Prof. Atsushi Nunome)

▶ *We keep creating novel new computer systems!*

  □ *We work in both domains of hardware and software for them.*

▶ Research themes

  ▸ Novel new microprocessor architectures for high-performance / low-power / security

  ▸ New parallel and distributed computing technologies for future generations of supercomputing or for Big Data

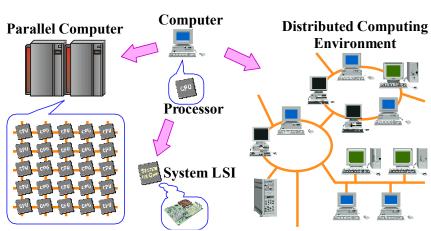 ▸ New communication/storage systems and network device architectures as an infrastructure for mobile or cloud computing

  ▸ Efficient architectural-level design methodologies for general or specialized systems (including system LSI's)

▶ https://www.ark.is.kit.ac.jp/en/

Optimize and design a system through trade-offs between hardware and software

It's important to have a birds-eye view of an entire system.

Software

Hardware

Parallel Computer · Computer · Distributed Computing Environment

Processor

System LSI

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