

## Action team PCS: HEAVEN

HEterogenous Architectures Versatile Exploitation and programmiNg



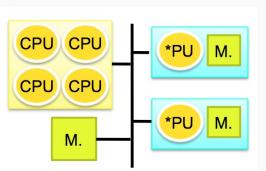


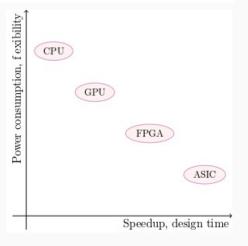
Applications:

- Efficiency (power, • ≠ tradeoffs throughput, latency)
- Ease of programmation
- Portability

**Architectures:** 

- Heterogeneity
- FPGA = must have





## **Problems:**

Framework and tools are missing!

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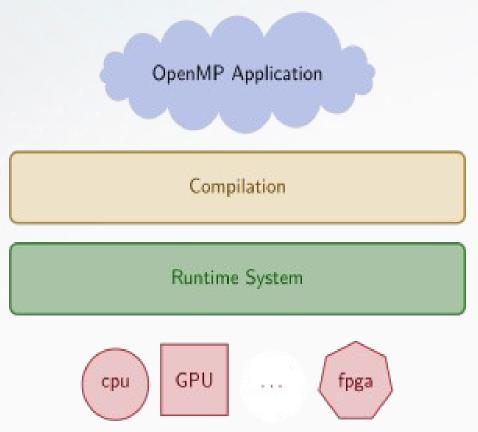








## **HEAVEN Proposition**



- Evaluation on scientifical apps: embeded image processing, financial
- Compiler-runtime cooperation (extraction of information and exploitation by runtime extensions)
- Runtime adaptation to FPGA specificities (configuration, dynamic reconfiguration, data movement)

Poster: to unveil framework details and results