

ALCHEMY

Architectures, Languages and Compilers to Harness the End of Moore Years

Former INRIA A3 + Micro-Architecture Univ. Paris-Sud

Joint Inria/LRI (Univ Paris-Sud, CNRS) team

People:

7 +1 Faculty (5 Inria + 2 Univ. Paris-Sud + 1 délégation from UVSQ)

(PetaQCD: Denis Barthou, Cédric Bastoul, Albert Cohen, Christine Eisenbeis)

16 PhDs (PetaQCD: Mouad Bahi)

General focus:

High-performance & embedded processors

Joint architecture/compiler/programming approach

Performance scalability

In PetaQCD: fine and coarse grain code optimization, semi automatic tools for code transformations and generation in the context of iterative optimization

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