























## Summary

- Formal dataflow analysis framework
  - Lattices, partial orders.
  - Transfer functions, joins and splits.
  - Dataflow equations and fixed point solutions.
- Connection with program
  - Abstraction function  $AF: \mathbb{S} \to \mathbb{P}$
  - For any state s and program point n,  $AF(s) \le in_n$
  - Meet over paths solutions, distributivity.

Advanced Compiler Techniques ttp://lamp.epfl.ch/teaching/advancedCompiler/