- Static scheduling
 - Done in compiler
- Loop unrolling
 - Reduces loop overhead
 - Produces straight line code without control dependencies
 - Improves scheduling possibilities

- Static Branch Prediction
 - Predict taken
 - Predict based on branch direction
 - Profile-based
- VLIW
 - Very Long Instruction Word
 - Static scheduling, in-order-execution
 - All parallelism and hazards detected by compiler

- Loop-Level Parallelism
- Loop-carried dependencies
 - GCD test
 - Dependence analysis to detect dependencies
 - We then saw examples of code transformations to remove loop carried dependencies

- Algebraic and arithmetic compiler optimizations
 - Back substitution
 - Tree height reduction

- Software pipelining
 - Reorganize loops to interleave instructions from different iterations

- Hardware support
 - conditional instructions
 - Execute an instruction conditionally on the result of a test
 - Can be used to replace branches, replacing a control dependence with a data dependence
 - Conditional moves very common
- Hardware support for compiler speculation
 - Need support for correct exception behavior
 - Need support to be able to speculatively reorder loads and stores
- Example of a VLIW machine
 - Transmeta Crusoe