

# Synchronous Control Asynchronous Dataflow Architecture

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# Overview I

- 1 What is SCAD architecture ?
- 2 Instruction set architecture
- 3 Move Instruction bus
- 4 Control Unit
- 5 Data transport network - DTN
  - Bitnoic Network
  - Challenges on Bitnoic Network
  - Solution 1
    - Before Sorting : Fix invalid Address with  $N - 1 + C$
    - After Sorting : Routers to route wrong destined Data-Packet
  - Solution 2 : Bitnoic-Banyan Network
    - Bitnoic-Banyan Network implmentation
  - Bene[Pleaseinsertintopreamble] Network
- 6 Memory and Fuction Units
- 7 Challenges
- 8 Future Work











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