Some Definitions

• Design – The introduction of architectural decisions that move you closer to an implementation.
• Verification – Determining that design decisions conform to the specification.
• Validation – Determine that the specification is correct.
Historical Focus

• The automation of the design process.
  – How do you make decisions faster
  – How do you ensure that the ‘right’ decisions were made
  – How do you reduce the chance of making mistakes

• This consumes about 30% of the time
  – Amdahl’s law shows it is not worth improving this process.
  – Must speed up the other parts of the process.
Future Focus

• Verification Automation
  – The specification IS the verification environment
  – Must automate the verification process based on that specification.
    • Coverage models derived from spec
    • Best scenarios extracted from spec
    • Ability to focus the verification process based on spec
    • Ability to verify implementation within context of spec
    • Equivalence checking between design and spec
    • Functional verification based on spec
  – Requires a different way of thinking about the tools market and how a project is structured.

Transform EDA into EVA
DAC into VAC
and DesignCon to VerificationCon