

# Boot Time Power Supply Calibration

- In a traditional or even variable voltage binning scheme, an offset is applied between ATE speed binning and final system level testing. This compensates for the power delivery differences between the 2 environments.
- Additionally, guardbands are added for:
  - Voltage regulator tolerance
  - Aging to compensate for transistors slowing down over time
- BTC compensates for all 3 of these items allowing for a safe, but more aggressive voltage for each p-state resulting in reduced power.