Multiple Supply Voltage Domains on Integrated Circuit:

The method and system for multiple supply voltage domains comprises of a domain of electrical components on the integrated circuit. The domain receives current from a voltage rail and electrical current is discharged. The electrical components of the domain are divided into granules. Each granule is electrically connected to multiplexers and each granule can selectably receive supply current from the voltage rail. Each granule can be selectably switched between domains as a function of a controller circuit.

On-Chip Power Supply Regulator

The system and method provide a very efficient adaptive power supply regulator that is small and can be completely integrated on-chip.

Inventors

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