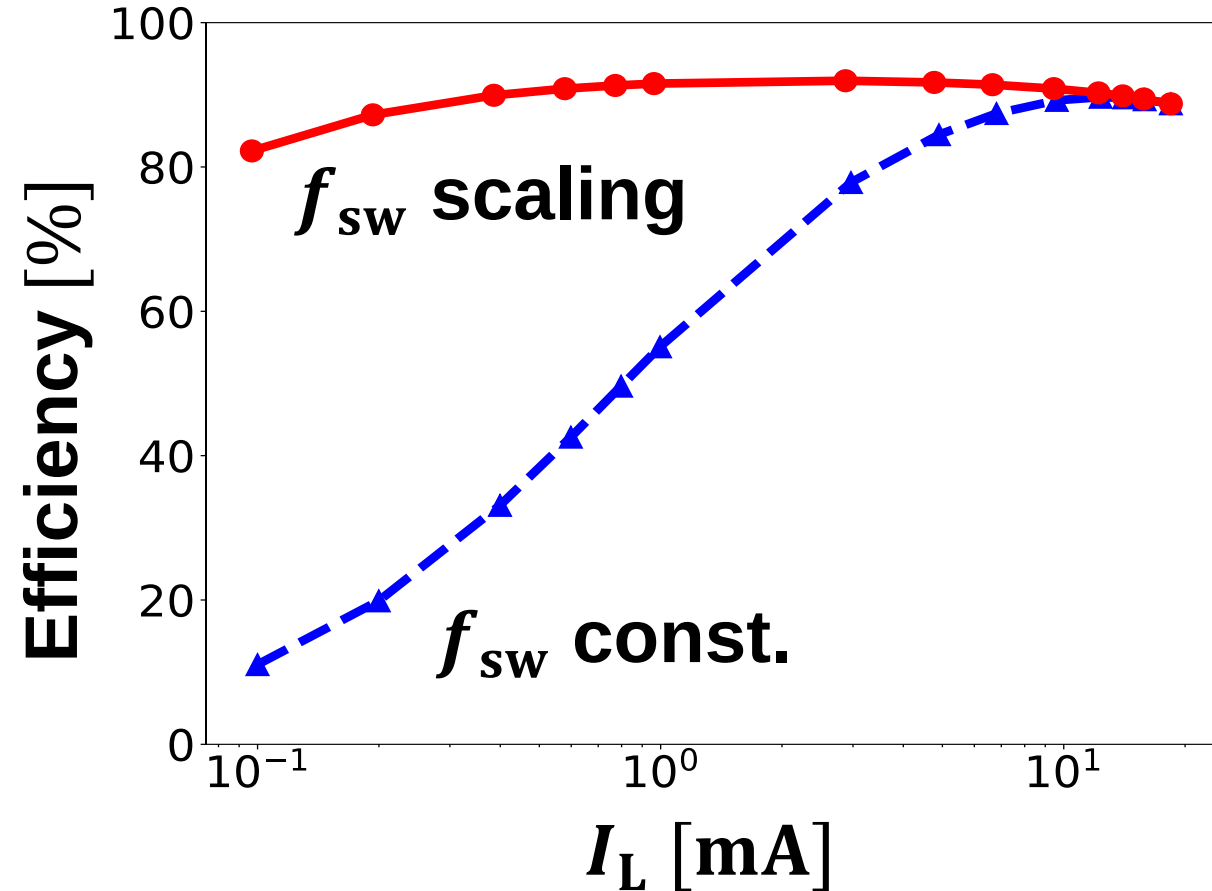
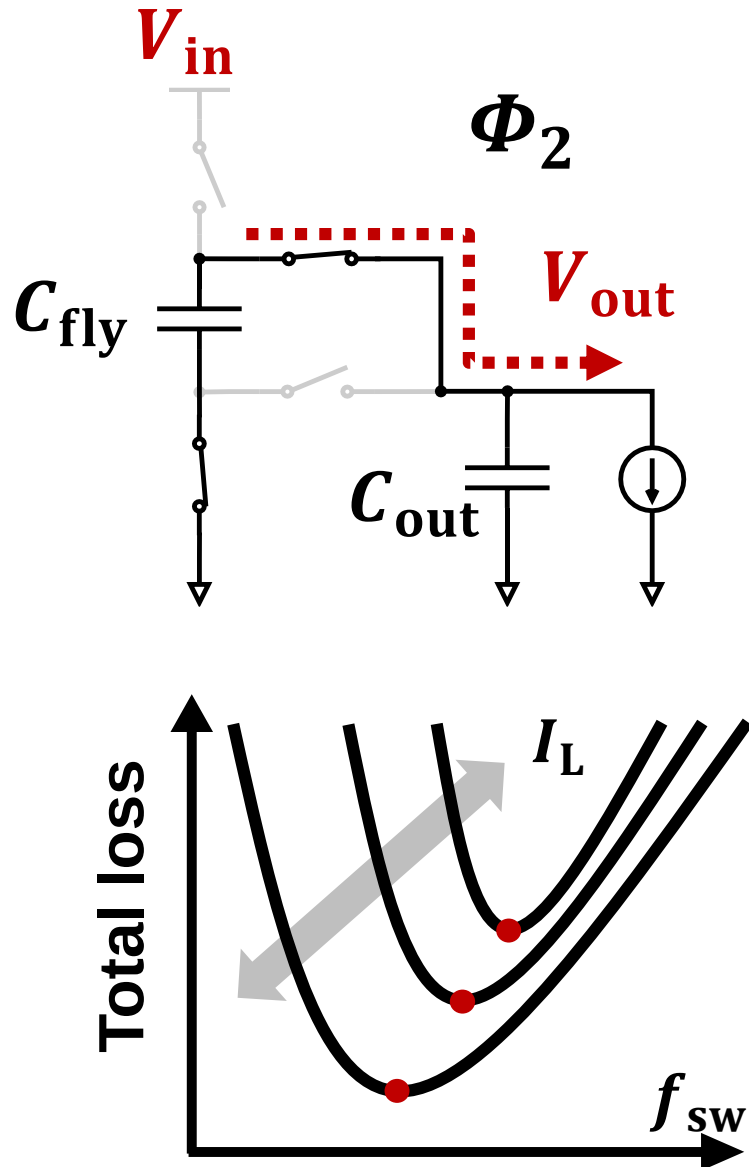
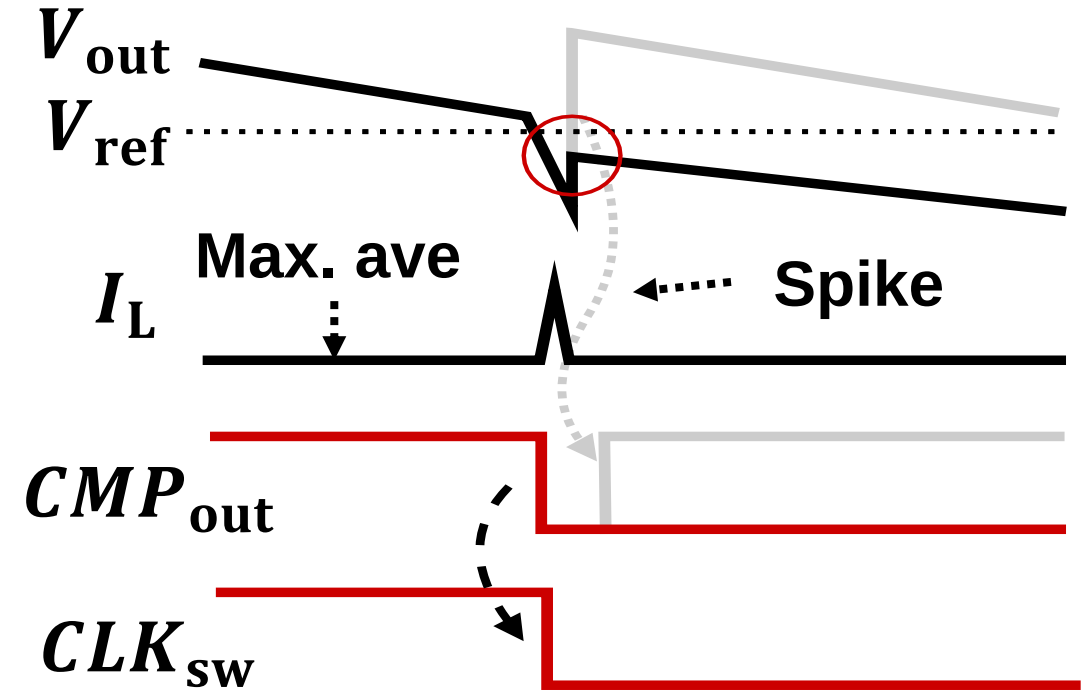
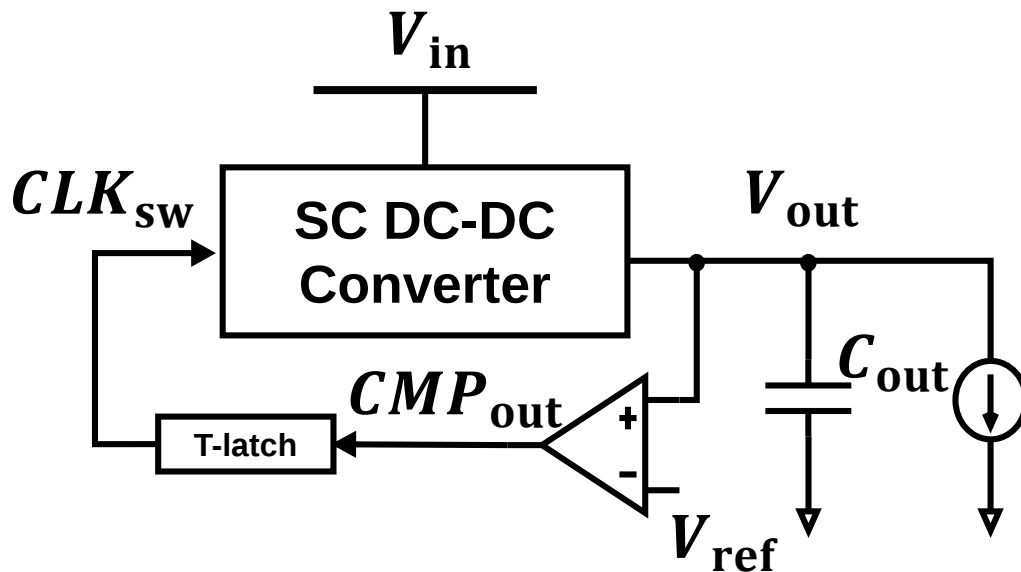
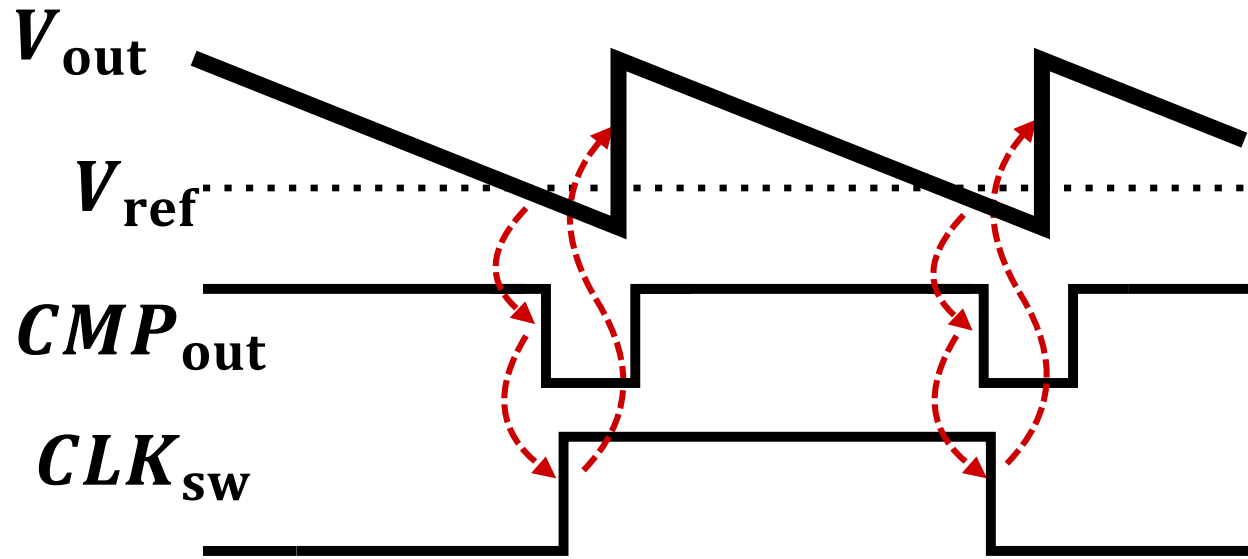


Self-recovery hysteresis control based on-chip SC DC-DC converter robust to load fluctuation



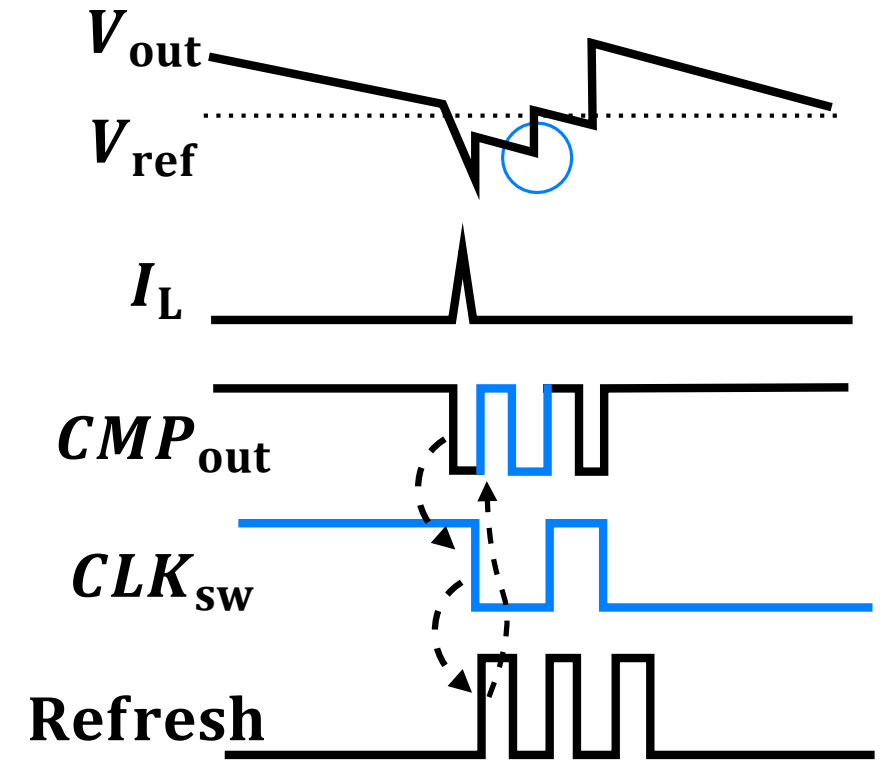
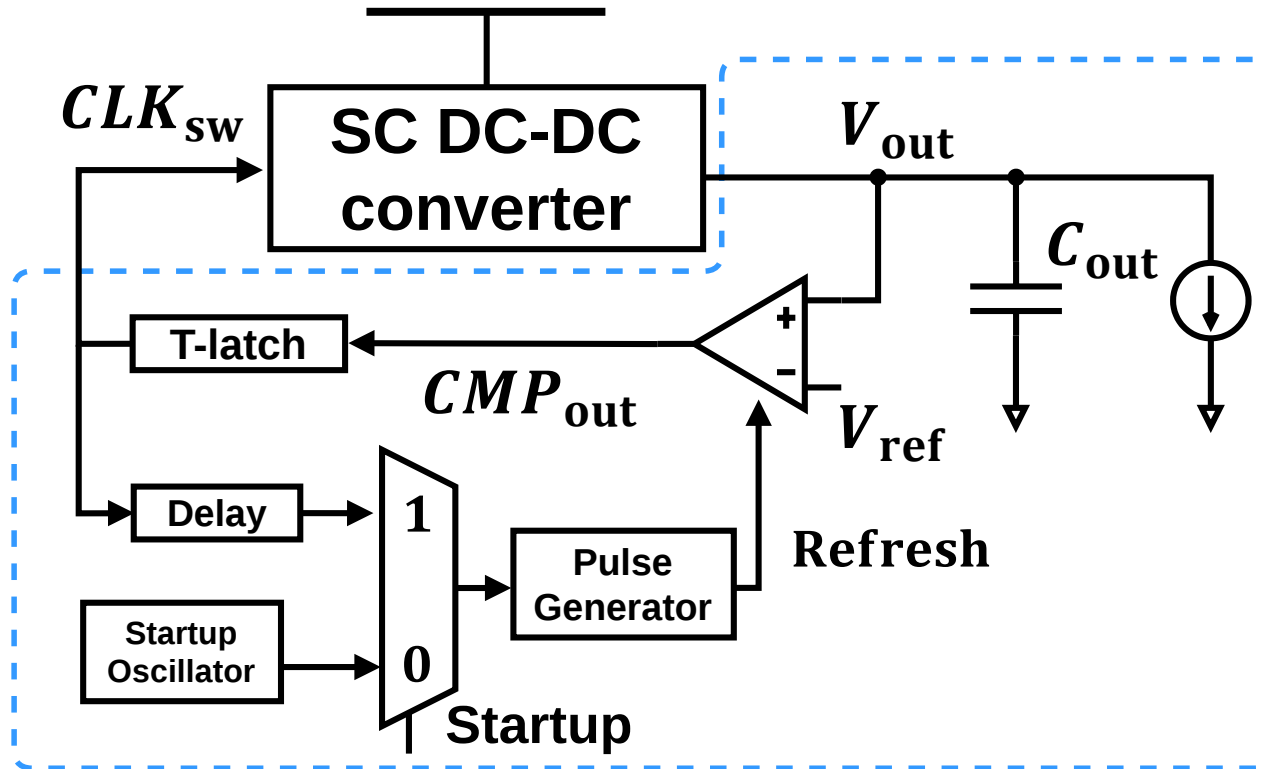
- Adaptive frequency scaling
→ Minimize power loss

Conventional Single Boundary Hysteresis Control



- Fast response, Simple architecture
- Stuck problem to load current spike

Proposed control system



- Refresh signal makes CMP_{out} high state
- Keep switching below the boundary

Measurement results

