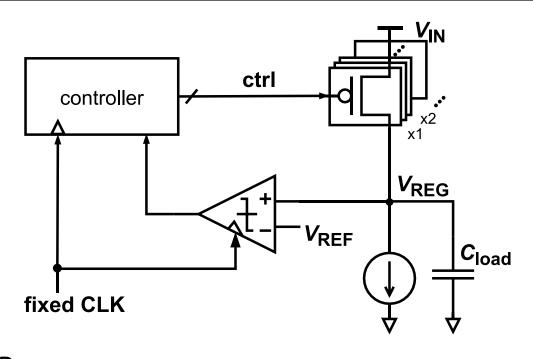
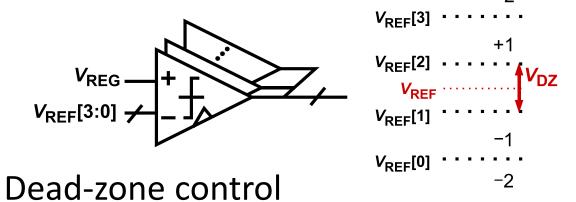
A fully synchronous digital LDO with built-in adaptive frequency modulation and implicit dead-zone control

Shun Yamaguchi, Mahfuzul Islam, Takashi Hisakado, and Osami Wada

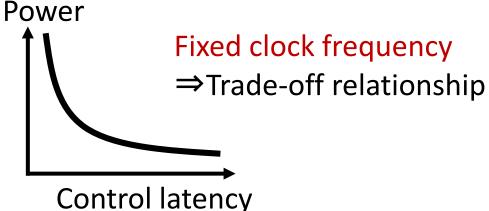
Kyoto University





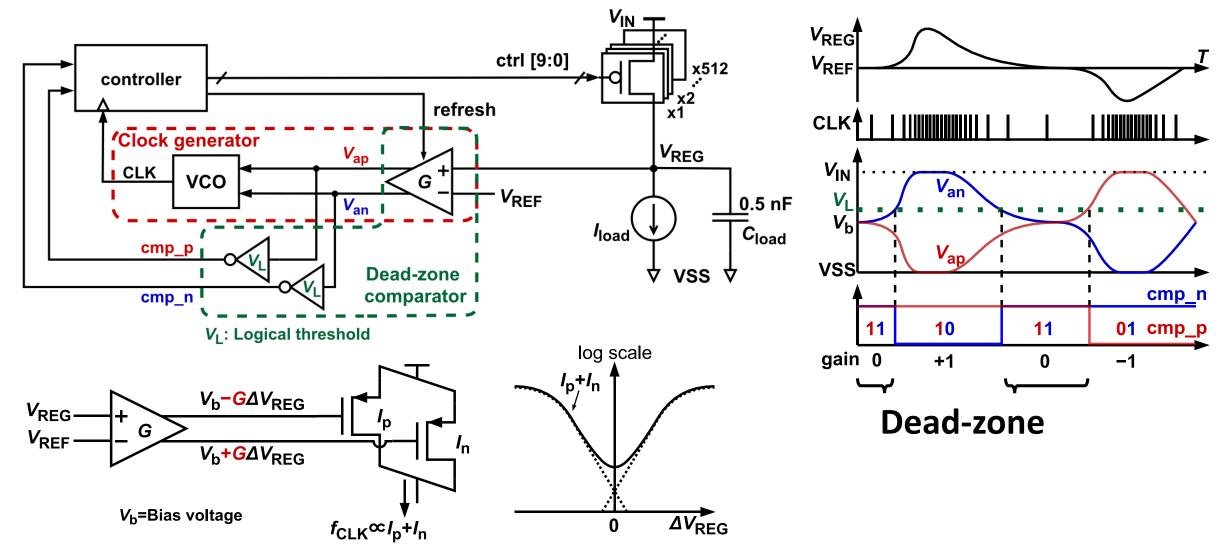






- Wide frequency modulation
- Dead-zone control using only V_{REF}

Proposed LDO design



Wide modulation using MOSFETs' current

Measurement results

