

Efficiency of the RDVFS countermeasure

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Abstract—The use of Dynamic Voltage and Frequency Scaling technique (DVFS) in Systems-on-Chip is becoming more and more common. This technique, re-named RDVFS for the occasion, has recently been proposed as a countermeasure against Side Channel Attacks (SCA) through the randomization of the choices of V and F, at the expense of power consumption. In this paper, theoretical and practical assessments of the robustness of the RDVFS countermeasure against CPA is proposed.