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Summary: In this article we consider NVIDIA GPU implementation aspects of an XSL block cipher over the finite field with MDS-matrix linear transformation. We compare obtained results with some other block ciphers.

MSC:
94A60 Cryptography

Keywords:
CUDA; GPU; AES; GOST; KASUMI; block cipher; fast implementation

Software:
CUDA

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References:
[1] Yamanouchi T., GPU Gems 3. Chapter 36. AES Encryption and Decryption on the GPU,
[2] CUDA Toolkit documentation,
[4] Shishkin V. A., Design principles of a prospective block cipher with 128 bit block length, Presentation at RusCrypto’2013,
[13] 5 things you should know about the new Maxwell GPU architecture,

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