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## Formally Assessing Cryptographic Entropy

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**Abstract:** Cryptography relies on the secrecy of keys. Measures of information, and thus secrecy, are called entropy. Previous work does not formally assess the cryptographically appropriate entropy of secret keys. This report defines several new forms of entropy appropriate for cryptographic situations. This report defines statistical inference methods appropriate for assessing cryptographic entropy.

**Category / Keywords:** foundations / Entropy Assessment, Key Generation

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**Note:** Cited Bonneau and Boztas for a previous version of working entropy.

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