

sequential memory-hard key derivation with better measurable security

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Abstract

hi — i propose *ciphart*, a sequential memory-hard key derivation function that has a security gain that's measurable more objectively and more conveniently than anything in class known to date.

to nail this goal, *ciphart*'s security gain is measured in the unit of *relative entropy bits*. relative to what? relative to the encryption algorithm that's used later on. therefore, this *relative entropy bits* measure is guaranteed to be true when the encryption algorithm that's used with *ciphart* is also the same one that's used to encrypt the data afterwards.