crypting

Hashes and Crypto in GAP

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Chapter 1

CryptinG Functions

1.1 Internal Types and Functions

1.1.1 IsSHA256State (for IsObject)

▷ `IsSHA256State(`*`arg`*`)` (filter)

Returns: `true` or `false`

1.1.2 CRYPTING_SHA256_State_Family

▷ `CRYPTING_SHA256_State_Family` (global variable)

1.1.3 CRYPTING_SHA256_State_Type

▷ `CRYPTING_SHA256_State_Type` (global variable)

1.1.4 CRYPTING_HexStringIntPad

▷ `CRYPTING_HexStringIntPad(`*`int, pad, length`*`)` (function)

Call **Reference: HexStringInt** on the argument *int* then pad the string on the left to *length* using padding letter *pad*

1.1.5 CRYPTING_HexStringIntPad8

▷ `CRYPTING_HexStringIntPad8(`*`int`*`)` (function)

Call **Reference: HexStringInt** on the argument *int* then pad the string on the left to length 8 using padding letter 0.

1.2 Hash functions

1.2.1 SHA256String

▷ `SHA256String(`*`string`*`)` (function)

Compute the SHA256 hash of the argument *`string`* in `IsStringRep`

1.3 HMAC

1.3.1 HMACSHA256

▷ `HMACSHA256(`*`key, string`*`)` (function)

Compute the HMAC SHA256 given a *`key`* and a *`string`* in `IsStringRep`.

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