

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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