

crypting

Hashes and Crypto in GAP

0.10.7

18 August 2026

Markus Pfeiffer

Markus Pfeiffer Email: markus.pfeiffer+gap@morphism.de

Homepage: <http://www.morphism.de/~markusp/>

Contents

1	CryptinG Functions	3
1.1	Internal Types and Functions	3
1.2	Hash functions	3
1.3	HMAC	3
	Index	4

Chapter 1

CryptinG Functions

1.1 Internal Types and Functions

1.1.1 IsCryptingSHA256State (for IsObject)

▷ `IsCryptingSHA256State(arg)` (Category)
Returns: `true` or `false`

1.1.2 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`.

Index

CRYPTING_HexStringIntPad8, [3](#)

HMACSHA256, [3](#)

IsCryptingSHA256State
for IsObject, [3](#)

SHA256String, [3](#)