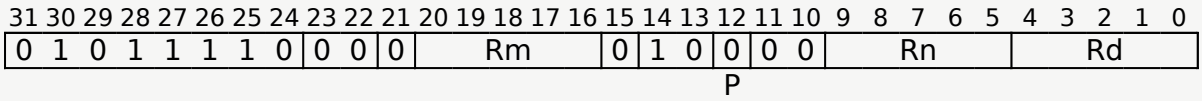
SHA256H

SHA256 hash update (part 1).

Advanced SIMD
(FEAT_SHA256)



SHA256H <Qd>, <Qn>, <Vm>.4S

```
integer d = UInt(Rd);
integer n = UInt(Rn);
integer m = UInt(Rm);
if !IsFeatureImplemented(FEAT_SHA256) then UNDEFINED;
```

Assembler Symbols

<Qd>	Is the 128-bit name of the SIMD&FP source and destination, encoded in the "Rd" field.
<Qn>	Is the 128-bit name of the second SIMD&FP source register, encoded in the "Rn" field.
<Vm>	Is the name of the third SIMD&FP source register, encoded in the "Rm" field.

Operation

```
AArch64.CheckFPAdvSIMDEnabled();

bits(128) result;
result = SHA256hash(V[d, 128], V[n, 128], V[m, 128], TRUE);
V[d, 128] = result;
```

Operational information

If PSTATE.DIT is 1:

- The execution time of this instruction is independent of:
  - The values of the data supplied in any of its registers.
  - The values of the NZCV flags.
- The response of this instruction to asynchronous exceptions does not vary based on:
  - The values of the data supplied in any of its registers.
  - The values of the NZCV flags.

Internal version only: isa v33.64, AdvSIMD v29.12, pseudocode no_diffs_2023_09_RC2, sve v2023-06_rel ; Build timestamp: 2023-09-18T17:56