Sh

Pseu

SHA1P

SHA1 hash update (parity).

Advanced SIMD (FEAT_SHA1)

```
31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 0 1 0 1 1 1 1 1 0 0 0 0 0 Rm 0 0 0 1 0 0 Rn Rd
```

```
shalp <Qd>, <sn>, <Vm>.4s

integer d = UInt(Rd);
integer n = UInt(Rn);
integer m = UInt(Rm);
if !IsFeatureImplemented(FEAT_SHA1) then UNDEFINED;
```

Assembler Symbols

<Qd> Is the 128-bit name of the SIMD&FP source and destination, encoded in the "Rd" field.

<Sn> Is the 32-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

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.

<u>Base SIMD&FP SVE SME Index by Instructions Instructions Instructions Encoding</u>

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

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