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Pseu

SHA1SU0

SHA1 schedule update 0.

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 0 0 0 Rm 0 0 1 1 0 0 Rn Rd
```

```
sha1su0 <vd>.4s, <vn>.4s, <vm>.4s
integer d = UInt(Rd);
integer n = UInt(Rn);
integer m = UInt(Rm);
if !IsFeatureImplemented(FEAT SHA1) then UNDEFINED;
```

Assembler Symbols

```
<Vd> Is the name of the SIMD&FP source and destination register, encoded in the "Rd" field.
<Vn> Is the 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

```
harch64.CheckFPAdvSIMDEnabled();
bits(128) operand1 = V[d, 128];
bits(128) operand2 = V[n, 128];
bits(128) operand3 = V[m, 128];
bits(128) result;

result = operand2<63:0>:operand1<127:64>;
result = result EOR operand1 EOR operand3;
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.

0	The	values	of the	NZCV	flags.
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