Index by	Sh
Encoding	<u>Pseuc</u>

<u>Base</u>	SIMD&FP	<u>SVE</u>	<u>SME</u>
<u>Instructions</u>	<u>Instructions</u>	<u>Instructions</u>	<u>Instructions</u>

UQCVTN

Unsigned saturating extract narrow and interleave

Saturate the unsigned integer value in each element of the group of two source vectors to half the original source element width, and place the two-way interleaved results in the half-width destination elements. This instruction is unpredicated.

SVE2 (FEAT_SVE2p1)

```
UQCVTN <Zd>.H, { <Zn1>.S-<Zn2>.S }

if !HaveSME2() && !HaveSVE2p1() then UNDEFINED;
constant integer esize = 16;
integer n = UInt(Zn:'0');
integer d = UInt(Zd);
```

Assembler Symbols

<zd></zd>	Is the name of the destination scalable vector register, encoded in the "Zd" field.
<zn1></zn1>	Is the name of the first scalable vector register of a multivector sequence, encoded as "Zn" times 2.
<zn2></zn2>	Is the name of the second scalable vector register of a multi-vector sequence, encoded as "Zn" times 2 plus 1.

Operation

```
CheckSVEEnabled();
constant integer VL = CurrentVL;
constant integer PL = VL DIV 8;
constant integer elements = VL DIV (2 * esize);
bits(VL) result;

for e = 0 to elements-1
    for i = 0 to 1
        bits(VL) operand = Z[n+i, VL];
        integer element = UInt(Elem[operand, e, 2 * esize]);
        Elem[result, 2*e + i, esize] = UnsignedSat(element, esize);
Z[d, VL] = result;
```

BaseSIMD&FPSVESMEIndex byInstructionsInstructionsInstructionsInstructions

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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