SSUBLBT

Signed subtract long (bottom - top)

Subtract the odd-numbered signed elements of the second source vector from the even-numbered signed elements of the first source vector, and place the results in the overlapping double-width elements of the destination vector. This instruction is unpredicated.

31 30 29 28 27 26 25 2	4 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 0 0 1 0 1	l size 0 Zm	1 0 0 0 1 0 Zn	Zd
		S tb	

```
SSUBLBT <Zd>.<T>, <Zn>.<Tb>, <Zm>.<Tb>
```

```
if !HaveSVE2() && !HaveSME() then UNDEFINED;
if size == '00' then UNDEFINED;
constant integer esize = 8 << UInt(size);
integer n = UInt(Zn);
integer m = UInt(Zm);
integer d = UInt(Zd);
integer sel1 = 0;
integer sel2 = 1;
boolean unsigned = FALSE;</pre>
```

Assembler Symbols

<Zd>

Is the name of the destination scalable vector register, encoded in the "Zd" field.

<T>

Is the size specifier, encoded in "size":

size	<t></t>
0.0	RESERVED
01	Н
10	S
11	D

<Zn>

Is the name of the first source scalable vector register, encoded in the "Zn" field.

<Tb>

Is the size specifier, encoded in "size":

size	<tb></tb>
0.0	RESERVED
01	В
10	Н
11	S

<Zm>

Is the name of the second source scalable vector register, encoded in the "Zm" field.

Operation

```
CheckSVEEnabled();
constant integer VL = CurrentVL;
constant integer elements = VL DIV esize;
bits(VL) operand1 = Z[n, VL];
bits(VL) operand2 = Z[m, VL];
bits(VL) result;

for e = 0 to elements-1
   integer element1 = Int(Elem[operand1, 2*e + sel1, esize DIV 2], unsinteger element2 = Int(Elem[operand2, 2*e + sel2, esize DIV 2], unsinteger res = element1 - element2;
   Elem[result, e, esize] = res<esize-1:0>;
Z[d, VL] = result;
```

Operational information

If FEAT_SVE2 is implemented or FEAT_SME is implemented, then 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.

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