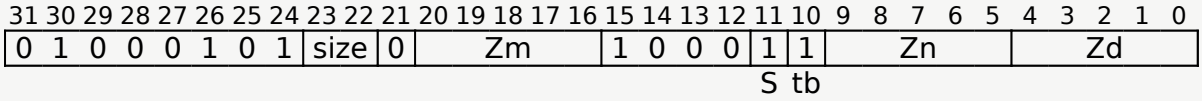
SSUBLTB

Signed subtract long (top - bottom)

Subtract the even-numbered signed elements of the second source vector from the odd-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.




```
SSUBLTB <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 = 1;
integer sel2 = 0;
boolean unsigned = FALSE;
```

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>
00	RESERVED
01	H
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>
00	RESERVED
01	B
10	H
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], uns
    integer element2 = Int(Elem[operand2, 2*e + sel2, esize DIV 2], uns
    integer 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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