

Operation

```

CheckSVEEnabled();
constant integer VL = CurrentVL;
constant integer PL = VL DIV 8;
constant integer elements = VL DIV esize;
bits(PL) mask = P[g, PL];
bits(VL) operand1 = if AnyActiveElement(mask, esize) then Z[n, VL] else
bits(VL) operand2 = if AnyActiveElement(mask, esize) then Z[m, VL] else
bits(VL) operand3 = Z[da, VL];
bits(VL) result;

for e = 0 to elements-1
    if ActivePredicateElement(mask, e, esize) then
        integer element1 = UInt(Elem[operand1, e, esize]);
        integer element2 = UInt(Elem[operand2, e, esize]);
        integer product = element1 * element2;
        if sub_op then
            Elem[result, e, esize] = Elem[operand3, e, esize] - product
        else
            Elem[result, e, esize] = Elem[operand3, e, esize] + product
    else
        Elem[result, e, esize] = Elem[operand3, e, esize];

Z[da, 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 operand registers when its governing predicate register contains the same value for each execution.
 - 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 operand registers when its governing predicate register contains the same value for each execution.
 - The values of the NZCV flags.

This instruction might be immediately preceded in program order by a MOVPRFX instruction. The MOVPRFX instruction must conform to all of the following requirements, otherwise the behavior of the MOVPRFX and this instruction is unpredictable:

- The MOVPRFX instruction must be unpredicated, or be predicated using the same governing predicate register and source element size as this instruction.
- The MOVPRFX instruction must specify the same destination register as this instruction.
- The destination register must not refer to architectural register state referenced by any other source operand register of this instruction.

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