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## **MOVPRFX** (unpredicated)

Move prefix (unpredicated)

The unpredicated MOVPRFX instruction is a hint to hardware that the instruction may be combined with the destructive instruction which follows it in program order to create a single constructive operation. Since it is a hint it is also permitted to be implemented as a discrete vector copy, and the result of executing the pair of instructions with or without combining is identical. The choice of combined versus discrete operation may vary dynamically.

```
MOVPRFX <Zd>, <Zn>
```

```
if !HaveSVE() && !HaveSME() then UNDEFINED;
integer n = UInt(Zn);
integer d = UInt(Zd);
```

## **Assembler Symbols**

<Zd> Is the name of the destination scalable vector register,

encoded in the "Zd" field.

<Zn> Is the name of the source scalable vector register, encoded

in the "Zn" field.

## **Operation**

```
CheckSVEEnabled();
constant integer VL = CurrentVL;
constant integer PL = VL DIV 8;
bits(VL) result = Z[n, VL];
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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