

[illegible]

ZERO { <mask> }

```
if !HaveSME() then UNDEFINED;  
bits(8) mask = imm8;  
constant integer esize = 64;
```

Assembler Symbols

<mask> Is a list of up to eight 64-bit element tile names separated by commas, encoded in the "imm8" field.

Operation

```
CheckSMEAndZAAEnabled();  
constant integer SVL = CurrentSVL;  
constant integer dim = SVL DIV esize;  
bits(dim*dim*esize) result = Zeros(dim*dim*esize);  
  
if HaveTME() && TSTATE.depth > 0 then  
    FailTransaction(TMFailure\_ERR, FALSE);  
  
for i = 0 to 7  
    if mask<i> == '1' then ZAtile[i, esize, dim*dim*esize] = result;
```

Operational information

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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