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Pseu

UMAX (immediate)

Unsigned Maximum (immediate) determines the unsigned maximum of the source register value and immediate, and writes the result to the destination register.

Integer (FEAT_CSSC)

32-bit (sf == 0)

```
UMAX <Wd>, <Wn>, #<uimm>

64-bit (sf == 1)

UMAX <Xd>, <Xn>, #<uimm>

if !IsFeatureImplemented(FEAT_CSSC) then UNDEFINED;
constant integer datasize = 32 << UInt(sf);
integer n = UInt(Rn);
integer d = UInt(Rd);
integer imm = UInt(imm8);</pre>
```

Assembler Symbols

<wd></wd>	Is the 32-bit name of the general-purpose destination register, encoded in the "Rd" field.
<wn></wn>	Is the 32-bit name of the general-purpose source register, encoded in the "Rn" field.
<xd></xd>	Is the 64-bit name of the general-purpose destination register, encoded in the "Rd" field.
<xn></xn>	Is the 64-bit name of the general-purpose source register, encoded in the "Rn" field.
<uimm></uimm>	Is an unsigned immediate, in the range 0 to 255, encoded in the "imm8" field.

Operation

```
bits(datasize) operand1 = X[n, datasize];
integer result = Max(UInt(operand1), imm);
X[d, datasize] = result<datasize-1:0>;
```

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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