

The machine language version of `lui $t0, 255` # `$t0` is register 8:

001111	00000	01000	0000 0000 1111 1111
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Contents of register `$t0` after executing `lui $t0, 255`:

0000 0000 1111 1111	0000 0000 0000 0000
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FIGURE 2.17 The effect of the `lui` instruction. The instruction `lui` transfers the 16-bit immediate constant field value into the leftmost 16 bits of the register, filling the lower 16 bits with 0s.