



bits byte work

LDUR X3, [X4, #100]

 Load (unscaled) to register—retrieve a double word (64 bits) from address (X4+100)

LDURH X3, [X4, #100]

 Load halfword (16 bits) from address (X4+100) to the low 16 bits of X3—top 48 bits of X3 are set zero

LDURB X3, [X4, #100]

 Load byte (8 bits) from address (X4+100) and put in the low 8 bits of X3 zero extend the destination register X3 (top 56 bits)

What about loading words?

LDURSW X3, [X4, #100]

 retrieve a word (32 bits) from address (X4+100) and put in lower half of X3—top 32 bits of X3 are sign extended