



57:AS
$$\text{rf_reg}[(\text{DataWidth}-1 \geq 0)?0:\text{DataWidth}-1 + ((\text{NUM_WORDS}-1 \geq 0)?0:\text{NUM_WORDS}-1) * ((\text{DataWidth}-1 \geq 0)?\text{DataWidth}:2-\text{DataWidth}) : ((\text{DataWidth}-1 \geq 0)?\text{DataWidth}-1 + ((\text{NUM_WORDS}-1 \geq 0)?0:\text{NUM_WORDS}-1) * ((\text{DataWidth}-1 \geq 0)?\text{DataWidth}:2-\text{DataWidth}) + ((\text{DataWidth}-1 \geq 0)?\text{DataWidth}:2-\text{DataWidth}))] = 1'sb0;$$

58:AS
$$\text{rf_reg}[(\text{DataWidth}-1 \geq 0)?\text{DataWidth}:2-\text{DataWidth} + ((\text{NUM_WORDS}-1 \geq 1)?\text{NUM_WORDS}-1:3-\text{NUM_WORDS}) * ((\text{DataWidth}-1 \geq 0)?\text{DataWidth}:2-\text{DataWidth}) - 1 : (\text{DataWidth}-1 \geq 0)?\text{DataWidth}:2-\text{DataWidth}] = \text{rf_reg_tmp}[(\text{DataWidth}-1 \geq 0)?\text{DataWidth}:2-\text{DataWidth} + ((\text{NUM_WORDS}-1 \geq 1)?\text{NUM_WORDS}-1:3-\text{NUM_WORDS}) * ((\text{DataWidth}-1 \geq 0)?\text{DataWidth}:2-\text{DataWidth}) - 1 : (\text{DataWidth}-1 \geq 0)?\text{DataWidth}:2-\text{DataWidth}];$$

59:AS
$$\text{rdata_a_o} = \text{rf_reg}[(\text{DataWidth}-1 \geq 0)?0:\text{DataWidth}-1 + ((\text{NUM_WORDS}-1 \geq 0)?\text{raddr_a_i}:0 - (\text{raddr_a_i} - (\text{NUM_WORDS}-1))) * ((\text{DataWidth}-1 \geq 0)?\text{DataWidth}:2-\text{DataWidth}) : ((\text{DataWidth}-1 \geq 0)?0:\text{DataWidth}-1 + ((\text{NUM_WORDS}-1 \geq 0)?\text{raddr_a_i}:0 - (\text{raddr_a_i} - (\text{NUM_WORDS}-1))) * ((\text{DataWidth}-1 \geq 0)?\text{DataWidth}:2-\text{DataWidth}) + ((\text{DataWidth}-1 \geq 0)?\text{DataWidth}:2-\text{DataWidth}))];$$

60:AS
$$\text{rdata_b_o} = \text{rf_reg}[(\text{DataWidth}-1 \geq 0)?0:\text{DataWidth}-1 + ((\text{NUM_WORDS}-1 \geq 0)?\text{raddr_b_i}:0 - (\text{raddr_b_i} - (\text{NUM_WORDS}-1))) * ((\text{DataWidth}-1 \geq 0)?\text{DataWidth}:2-\text{DataWidth}) : ((\text{DataWidth}-1 \geq 0)?0:\text{DataWidth}-1 + ((\text{NUM_WORDS}-1 \geq 0)?\text{raddr_b_i}:0 - (\text{raddr_b_i} - (\text{NUM_WORDS}-1))) * ((\text{DataWidth}-1 \geq 0)?\text{DataWidth}:2-\text{DataWidth}) + ((\text{DataWidth}-1 \geq 0)?\text{DataWidth}:2-\text{DataWidth}))];$$