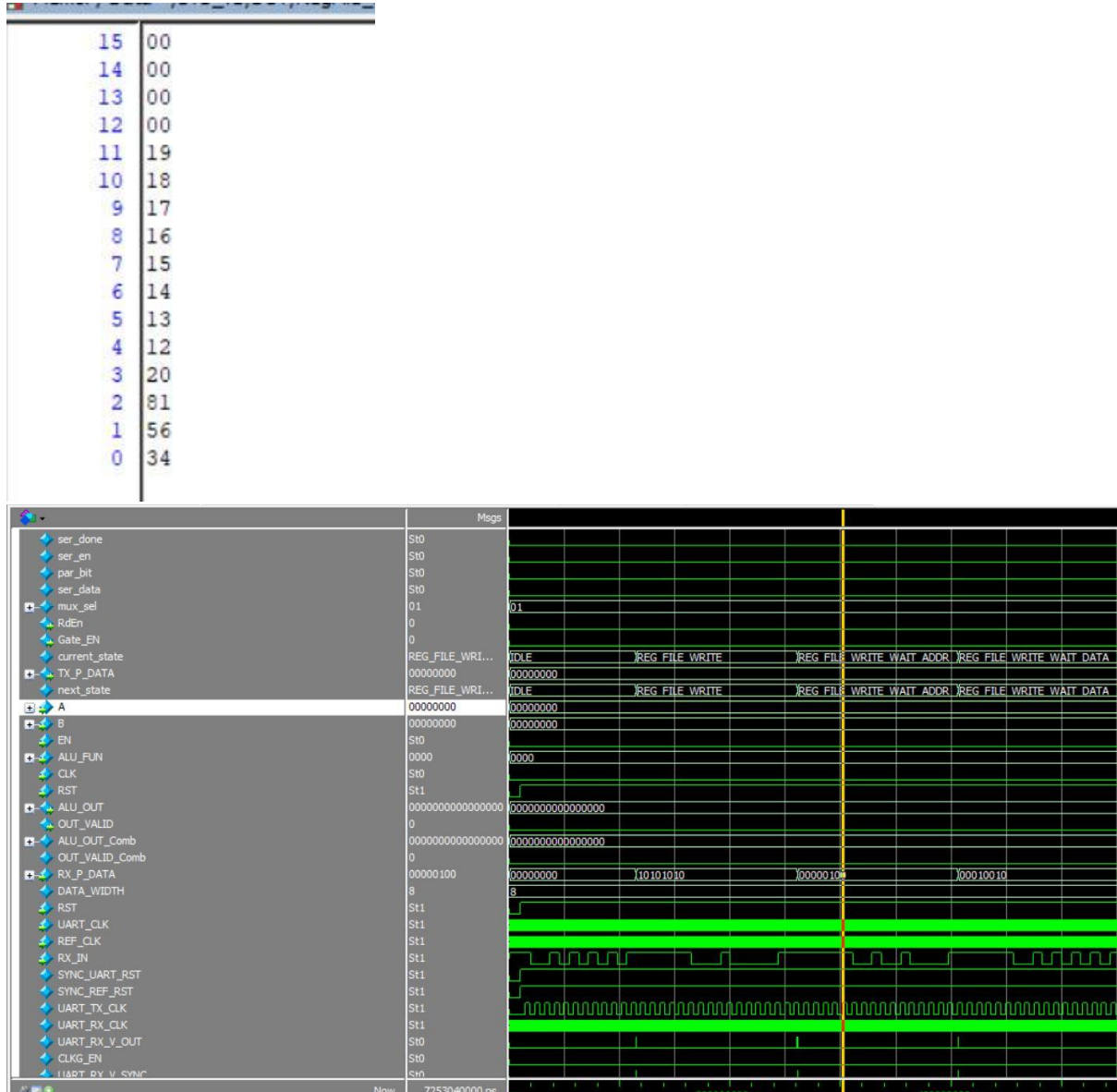


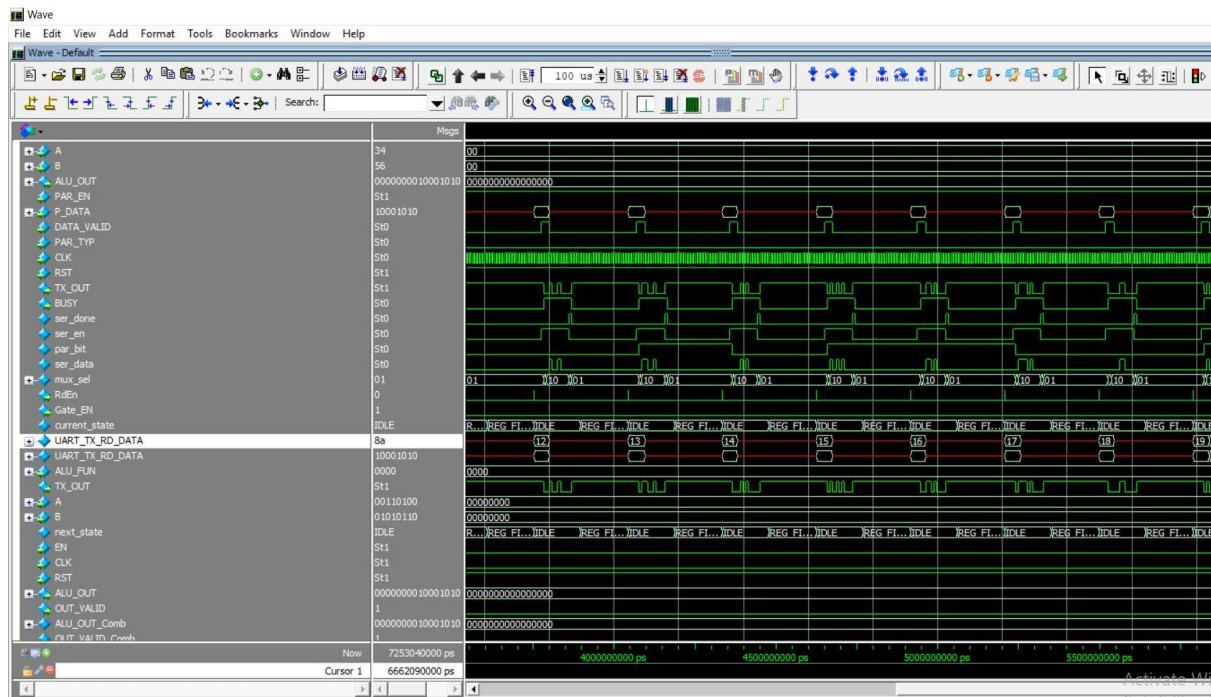
System test cases

1. Write 8 values consecutively in the register file

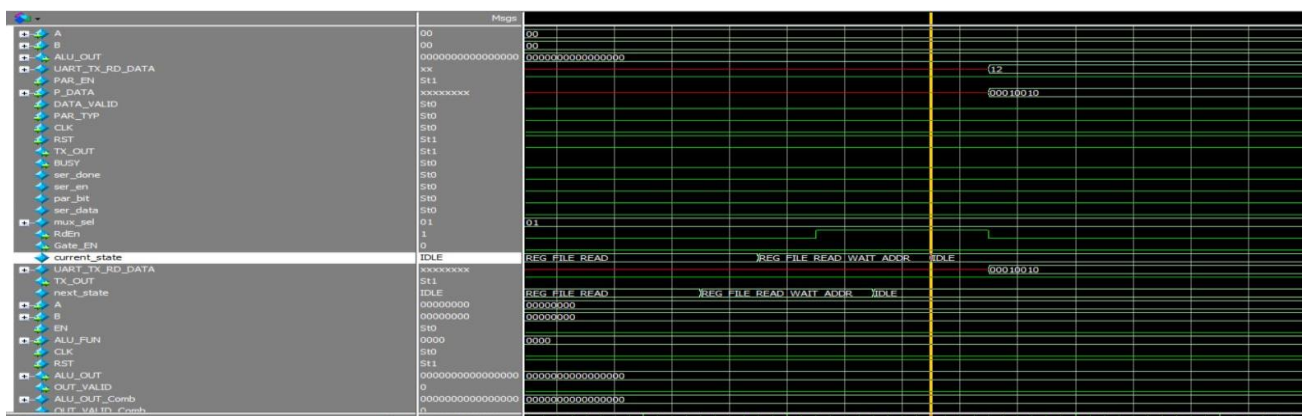
The test was to write the values from 0x12 to 0x19 consecutively into the register file, using addresses from 4 to 11. Note that the values 0x34 and 0x56 are the operands for the following ALU operation with an operand command.



2. Read 8 values consecutively from register file



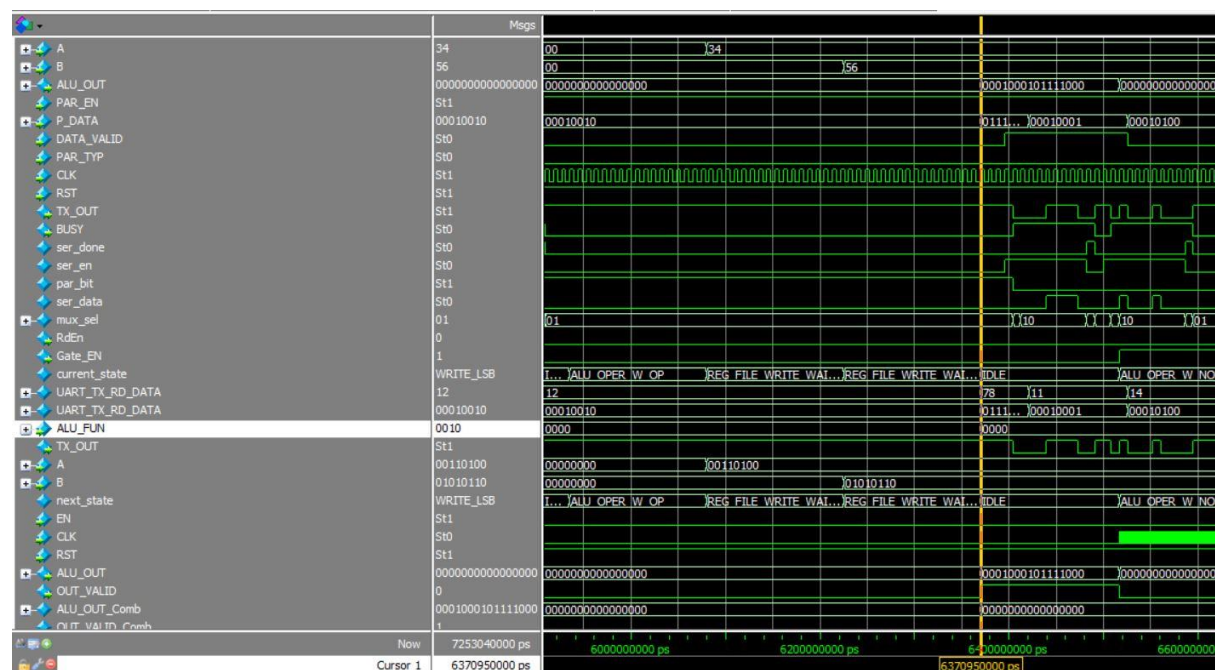
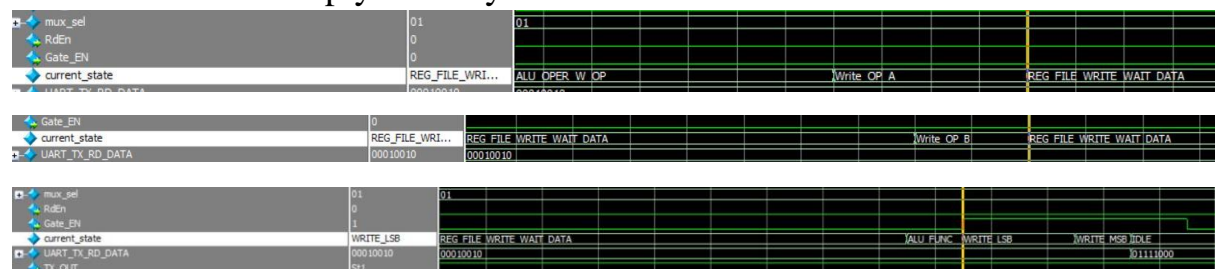
Memory Data - /SYS_TB/DUT/FIFO_	
7	19
6	18
5	17
4	16
3	15
2	14
1	13
0	12





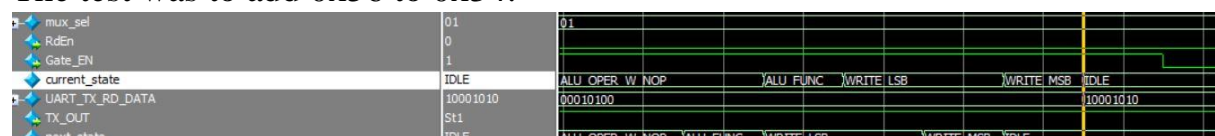
3. ALU with operands test

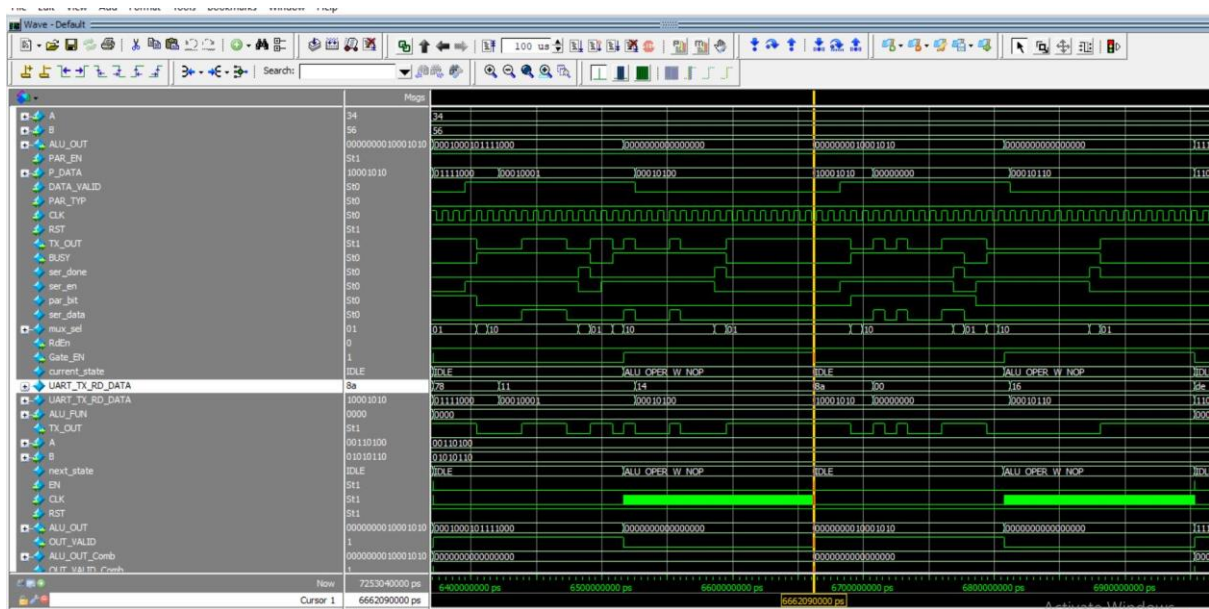
The test was to multiply 0x56 by 0x34.



4. ALU with no operands test 1

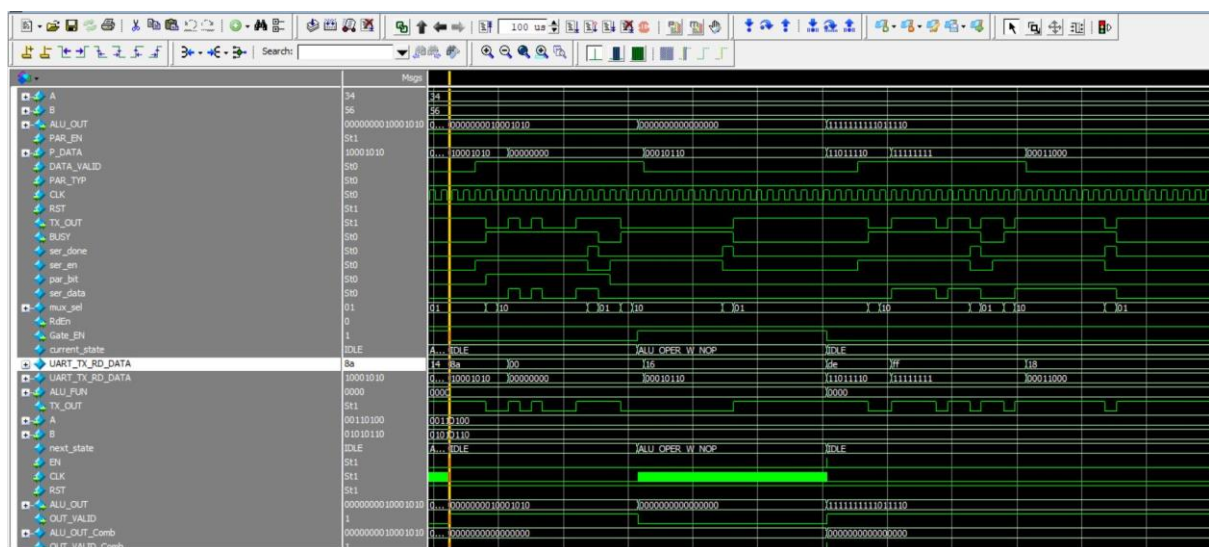
The test was to add 0x56 to 0x34.





5. ALU with operand test 2

The test was to subtract 0x34 from 0x56 .



6. Fifo after the alu operations

Memory Data - /SYS_TB/DUT	
7	19
6	18
5	ff
4	de
3	00
2	8a
1	11
0	78

7. Wave of all operations.

