VDIC - Testbench test specification

Daniel Stankiewicz

28.10.2021

1 Remote github repository

https://github.com/TraitorablePL/VDIC

2 Test specification

In the current state testbench checks the following actions:

1. AND operation for random and extreme values

2. OR operation for random and extreme values

3. ADD operation for random and extreme values

4. SUB operation for random and extreme values

5. DATA result flag Carry for ADD and SUB operations

6. DATA result flag Overflow for ADD and SUB operations

7. DATA result flag Negative for all operations

8. DATA result flag Zero for all operations

9. Error flag invalid CRC4

10. Error flag invalid Data

11. Error flag invalid Operation for all unsupported operations

12. Repetition of transaction for each operation

13. Each operation after reset