DUT specification

General test specification:

- completely test MULT functionality
- execute all lines of MULT code.

Detailed test specification:

- A. Operations and sequences:
 - 1. Check the result when data and parity values are valid for both inputs.
 - 2. Check the result when input parity value is valid for A input and invalid for B input.
 - 3. Check the result when input parity value is valid for B input and invalid for A input.
 - 4. Check the result when input parity is invalid for both inputs.
 - 5. Check if ack signal is returned after inputs and req signals are set.
 - 6. Check if result_ready is set when MULT data is returned.
 - 7. Check if MULT data is ready for one clock cycle.
- B. Specific data corners:
 - 1. Simulate all zeros on an input.
 - 2. Simulate all ones on an input.