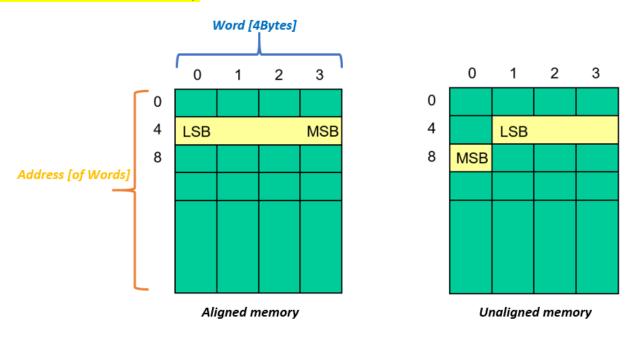
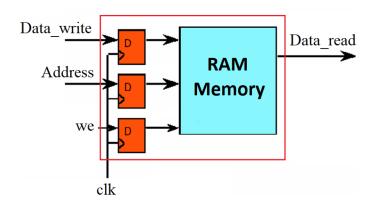
VHDL DUT after vs. VHDL DUT before

The difference between $VHDL_DUT_after$ and $VHDL_DUT_before$ designs based on the way we access to a real Alignment Memory. Our case of 32-bit Word alignment, the physical access address is to be padded with 2-bit of zero value, means that AddressValue % 4 = 0 (as in $VHDL_DUT_after$ version while the memory access in $VHDL_DUT_before$ is byte access – you can explore the results through their given STP files).

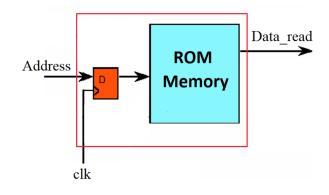
Note: the memory access with VHDL_DUT_before design in ModelSim works well (simulation case behaves that each address value associated with a Word).



The given I-Chace (ROM type) and D-Chace (RAM type) memories are 4kB wide each:



Single Port RAM with unregistered output



Single Port ROM with unregistered output