# Project 2(Final): SPI Wrapper

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| RTL code | RAM: GPR:  RAM  GPR  Counter: SPI wrapper:  Counter  SPI_Wrapper_Code |
| SPI Slave:  SPI_Slave_1  SPI_Slave_2SPI_Slave_3 |
| Testbench | RAM testbech:  RAM_tb  SPI\_Wrapper testbench:  SPI_Wrapper_tb_1  SPI_Wrapper_tb_2  SPI_Wrapper_tb_2 |
| Waveform | Write address command:  WF_W_ADD  Write data command:  WF_W_Data  Read address command:  WF_R_ADD |
|  | Read data command:  WF_R_Data |
| **DO** | Do_file |
| **Elaboration** | Schematic:  ED_SCH  Message window  ED_Mess |
| **Synthesis** | SYN_SCH  SYN_Mess  Critical Path:  SYN_SCH_CRC_PATH  Gray encoding:  SYN_REPSYN_TimeSYN_UTI  One-Hot:  SYN_REPSYN_TimeSYN_UTI  Sequential:SYN_REPSYN_TimeSYN_UTI  ***From the given information we can decide that “gray” encoding is the best encoding for the SPI.*** |
| **Implement** | Imp_Device  Imp_Mess  Imp_Time  Imp_UTI |
| **Constraint**  **file** | Constraint |