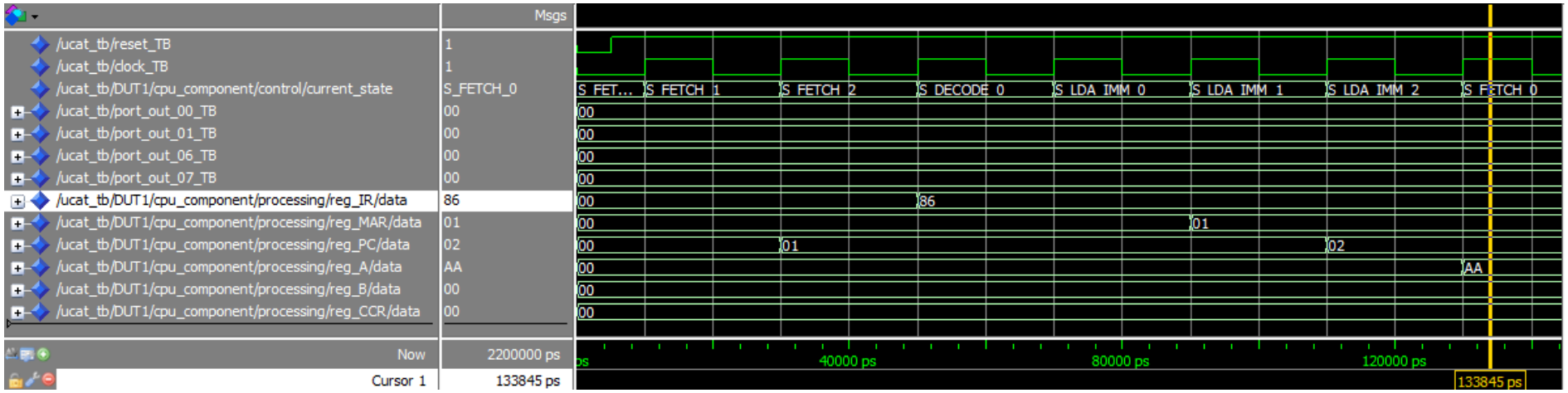

Figure 1: Fetch-Decode States and LDA_IMM Execution

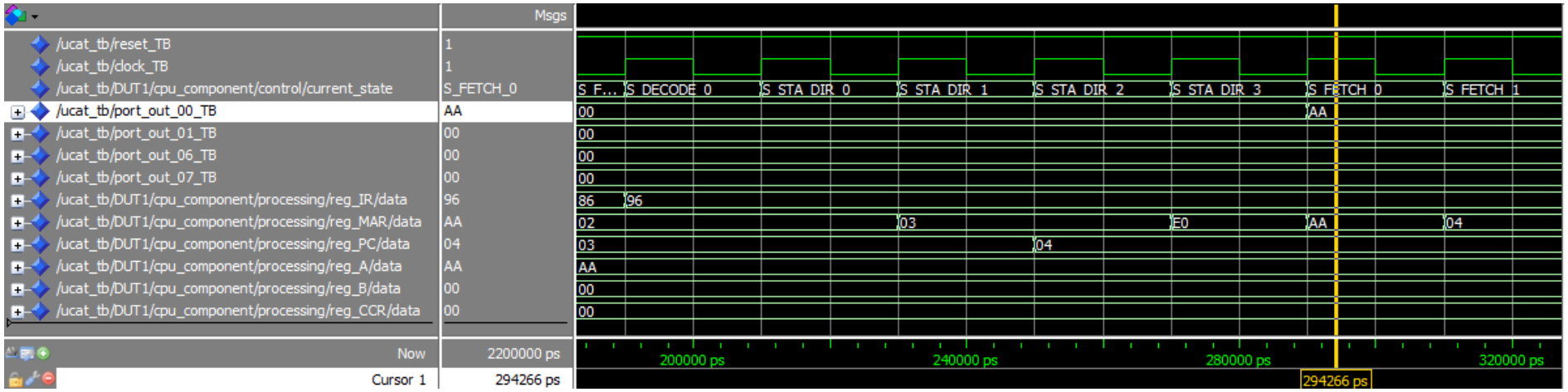

Figure 2: STA_DIR Execution

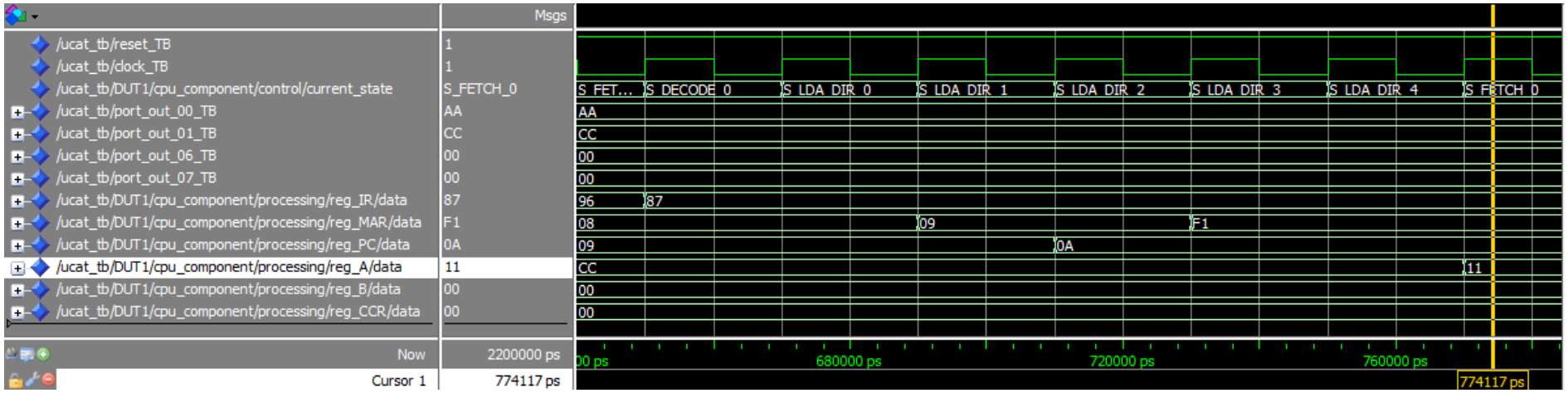

Figure 3: LDA_DIR Execution

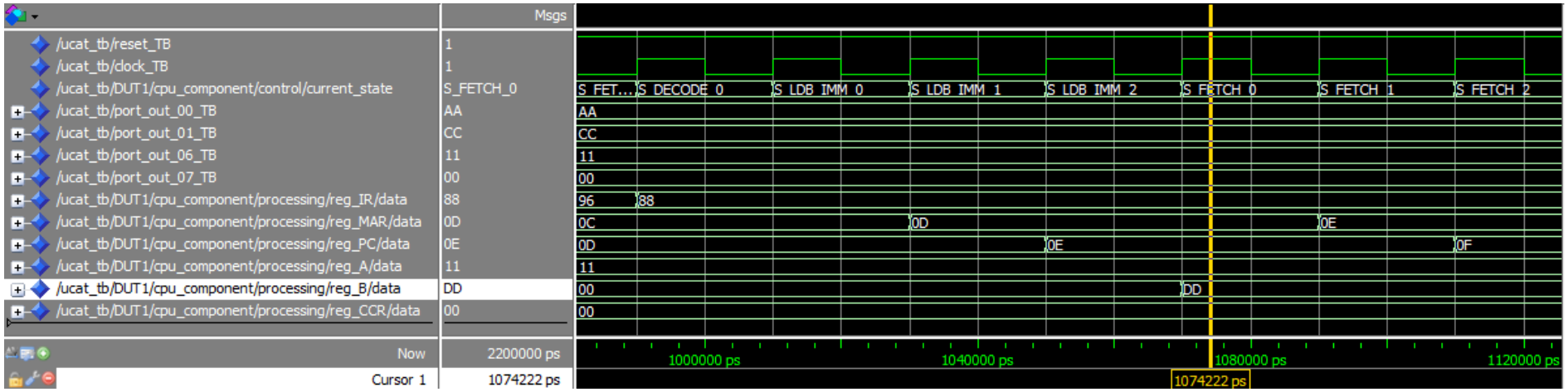

Figure 4: LDB_IMM Execution

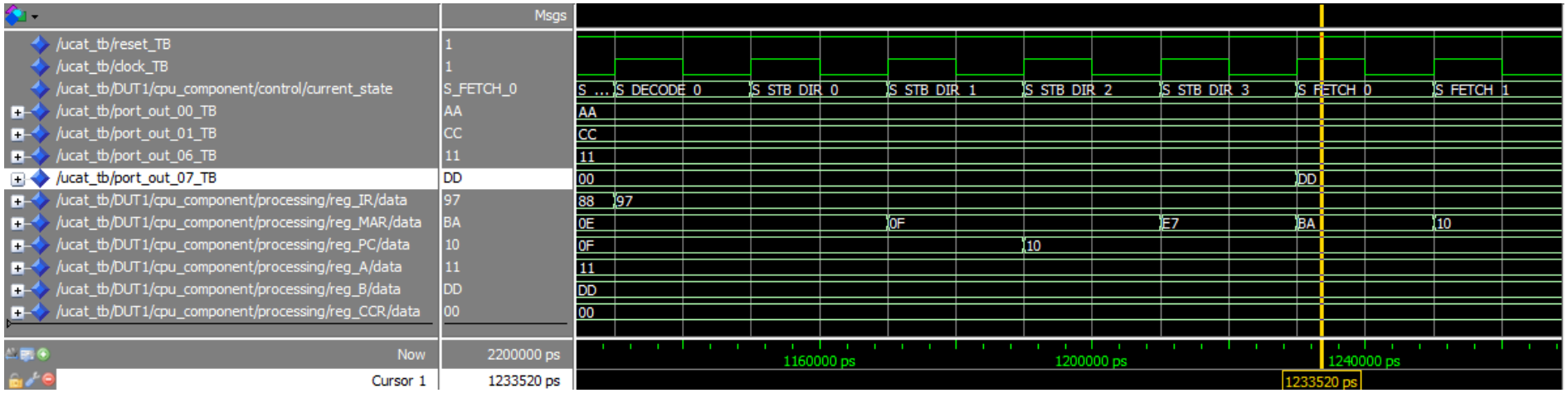

Figure 5: STB_DIR Execution

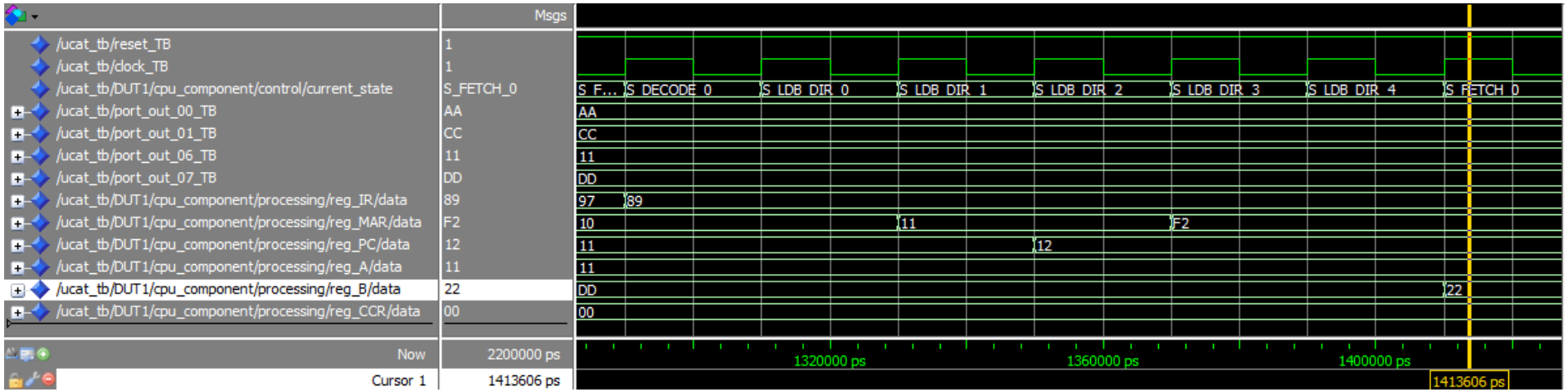

Figure 6: LDB_DIR Execution

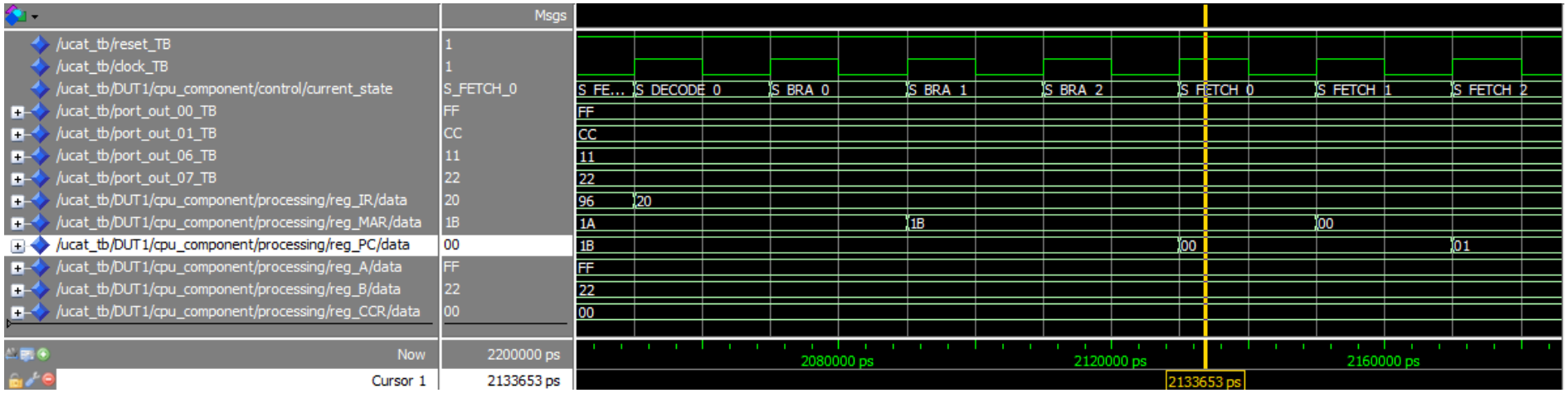

Figure 7: BRA Execution

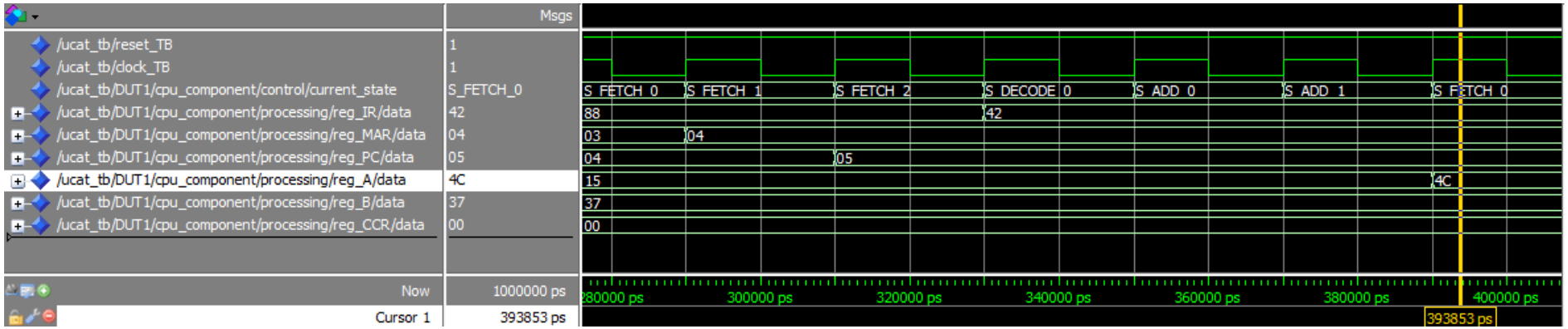

Figure 8: ADD_AB Execution

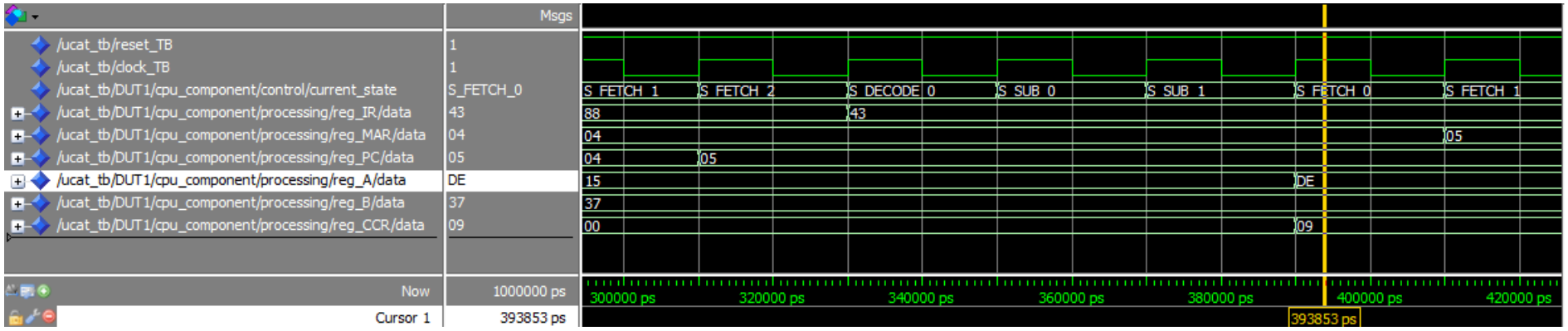

Figure 9: SUB_AB Execution

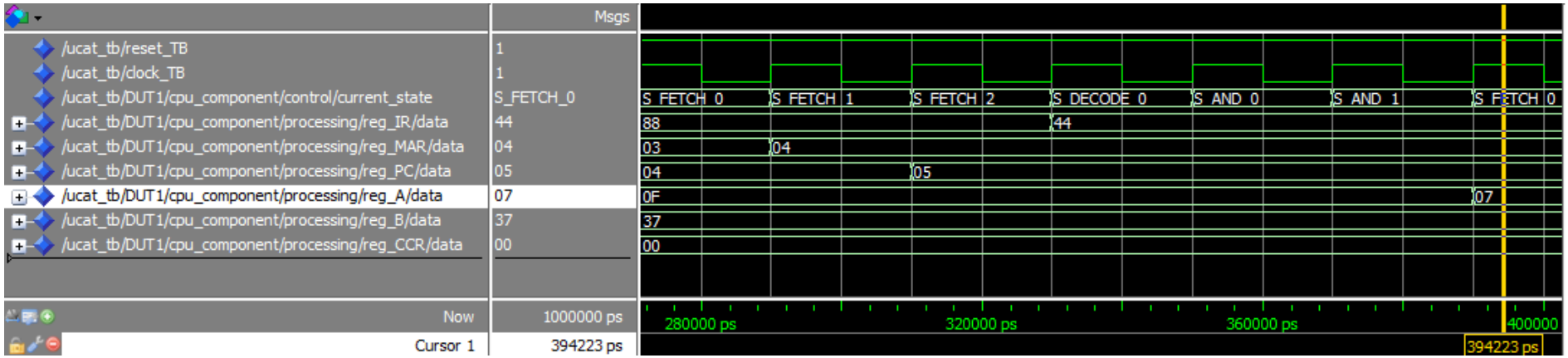

Figure 10: AND_AB Execution

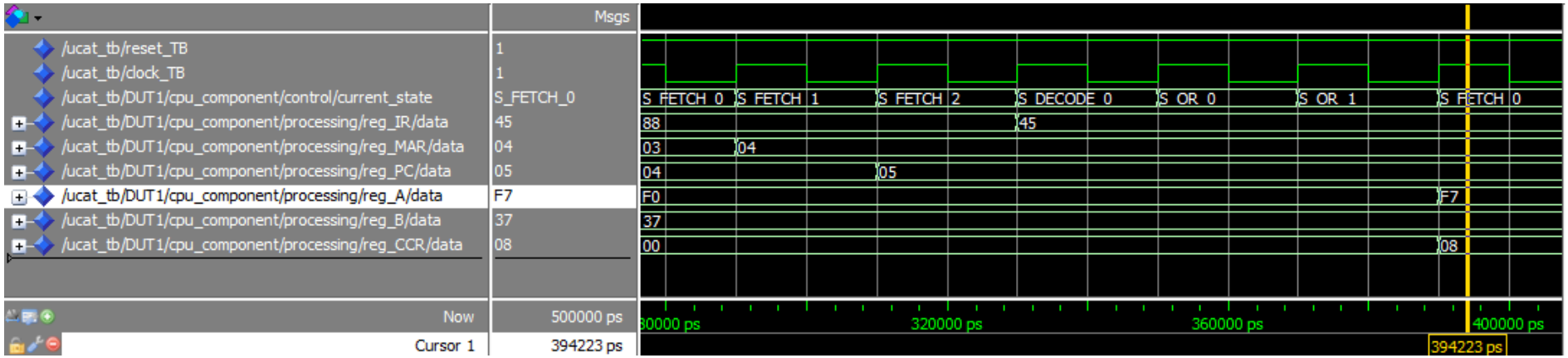

Figure 11: OR_AB Execution

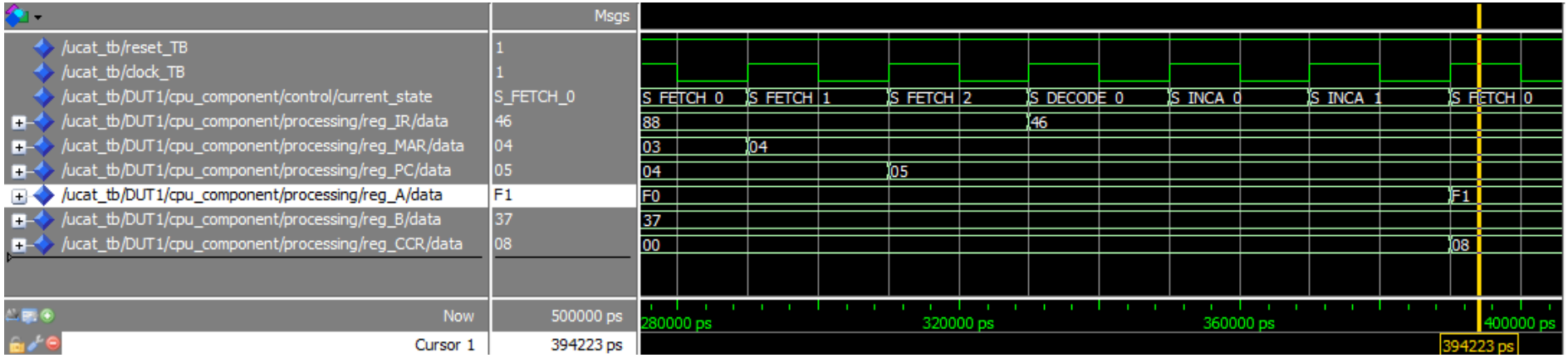

Figure 12: INCA Execution

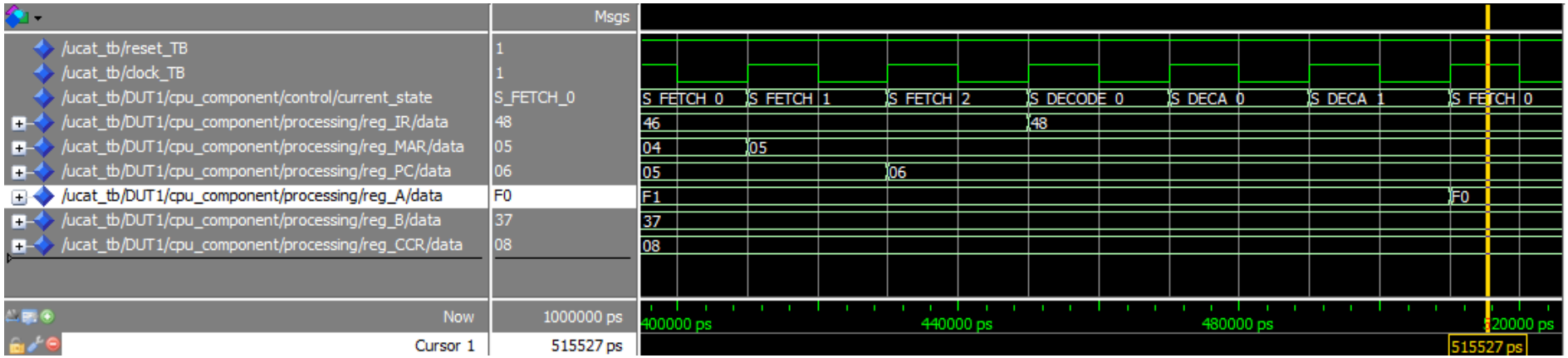

Figure 13: DECA Execution

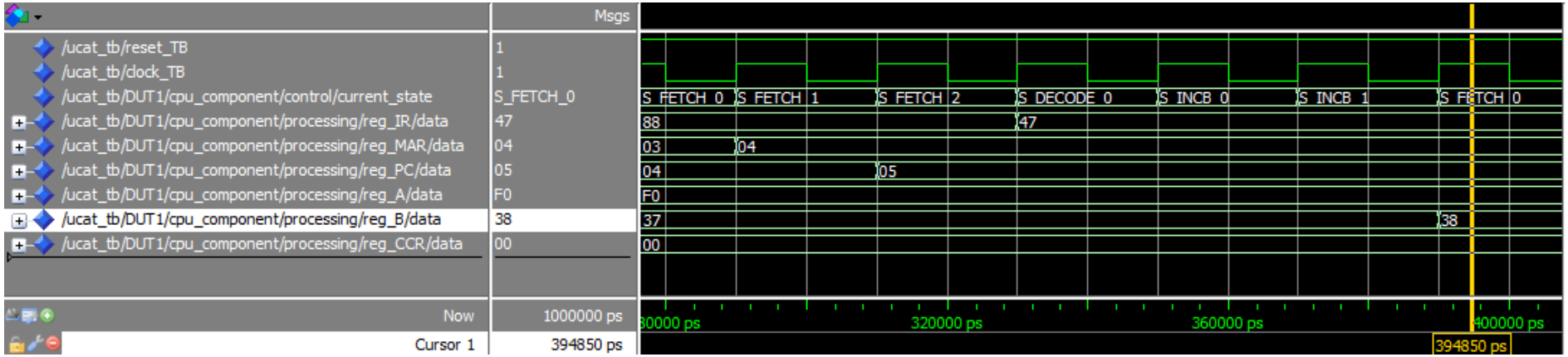

Figure 14: INCB Execution

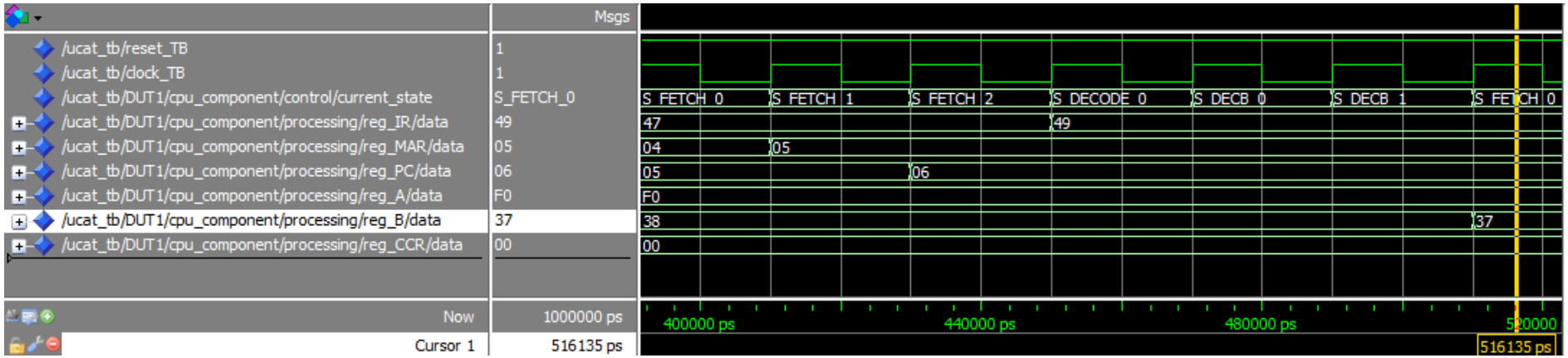

Figure 15: DECB Execution

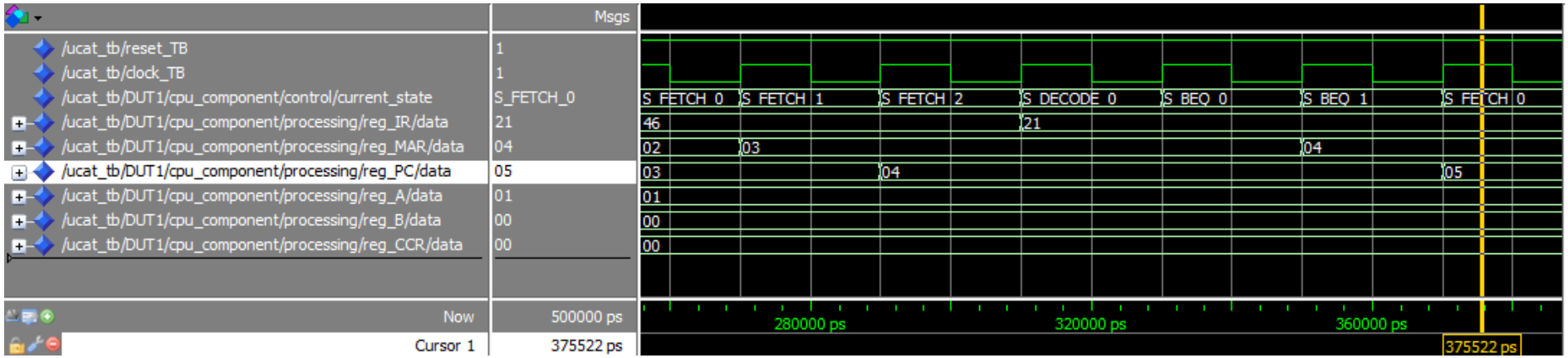

Figure 16: BEQ Execution 1

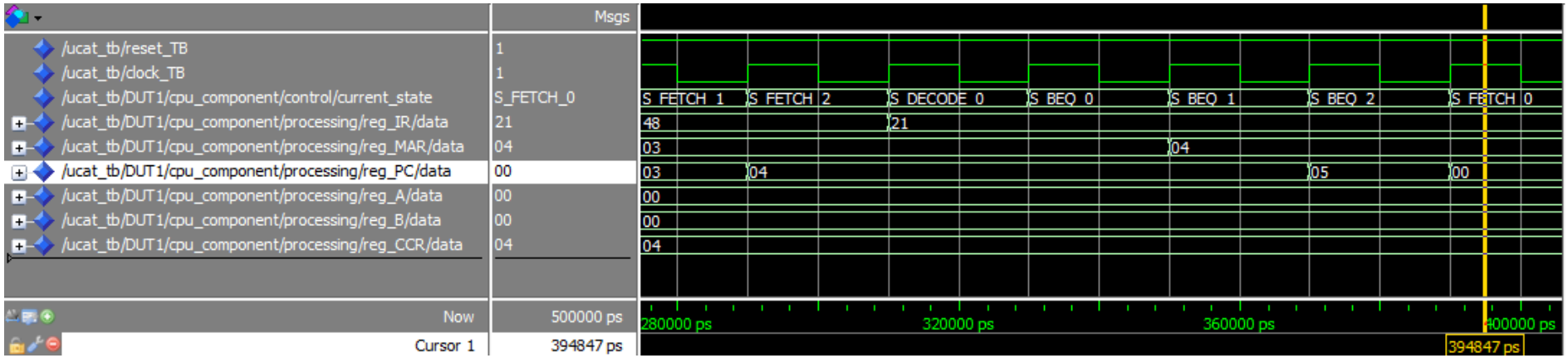

Figure 17: BEQ Execution 2