

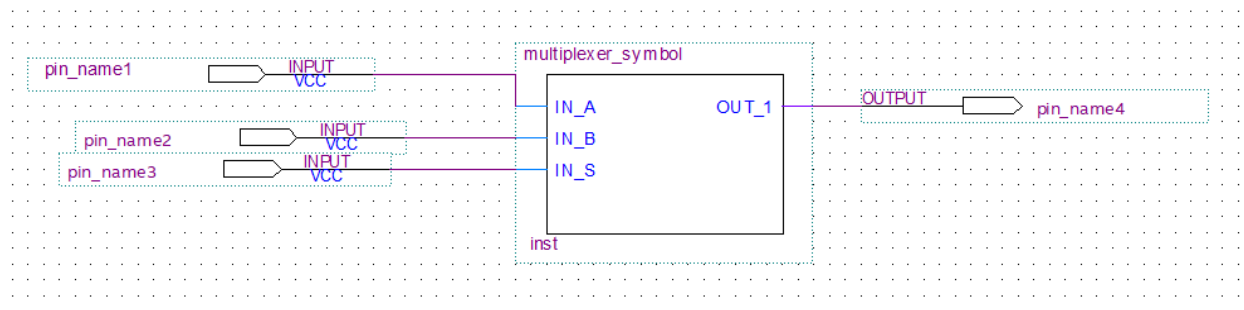
The screenshot displays the Quartus Prime IDE interface. The top menu bar includes File, Edit, View, Project, Assignments, Processing, Tools, Window, and Help. The Project Navigator on the left shows the project structure with files like multiplexer_symbol.vhd and AdditionalTask.bdf. The Table of Contents in the center lists various design steps, with the Timing Analyzer highlighted. The Flow Summary on the right provides a detailed overview of the compilation process, including flow status, version information, and resource utilization statistics. The Messages window at the bottom shows a list of messages, including warnings and a final success message from the Quartus Prime Full Compilation.

Flow Summary

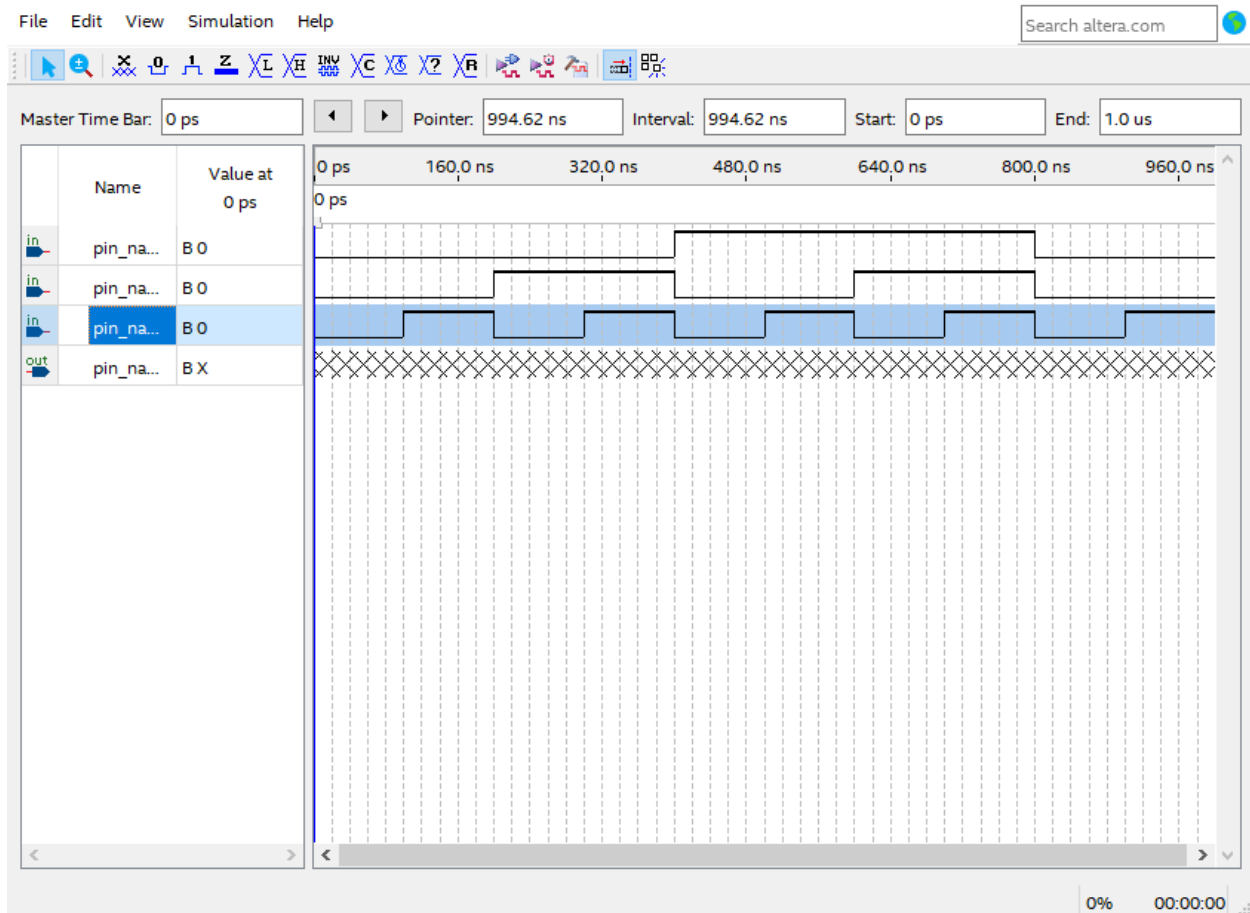
Flow Status	Successful - Mon Aug 30 17:49:36 2021
Quartus Prime Version	20.1.1 Build 720 11/11/2020 SJ Lite Edition
Revision Name	AdditionalTask
Top-level Entity Name	AdditionalTask
Family	Cyclone V
Device	5CGXFC7C7F23C8
Timing Models	Final
Logic utilization (in ALMs)	1 / 56,480 (< 1 %)
Total registers	0
Total pins	4 / 268 (1 %)
Total virtual pins	0
Total block memory bits	0 / 7,024,640 (0 %)
Total DSP blocks	0 / 156 (0 %)
Total HSSI RX PCSs	0 / 6 (0 %)
Total HSSI PHA RX Deserializers	0 / 6 (0 %)
Total HSSI TX PCSs	0 / 6 (0 %)
Total HSSI PHA TX Serializers	0 / 6 (0 %)
Total PLLs	0 / 13 (0 %)
Total DLLs	0 / 4 (0 %)

Messages

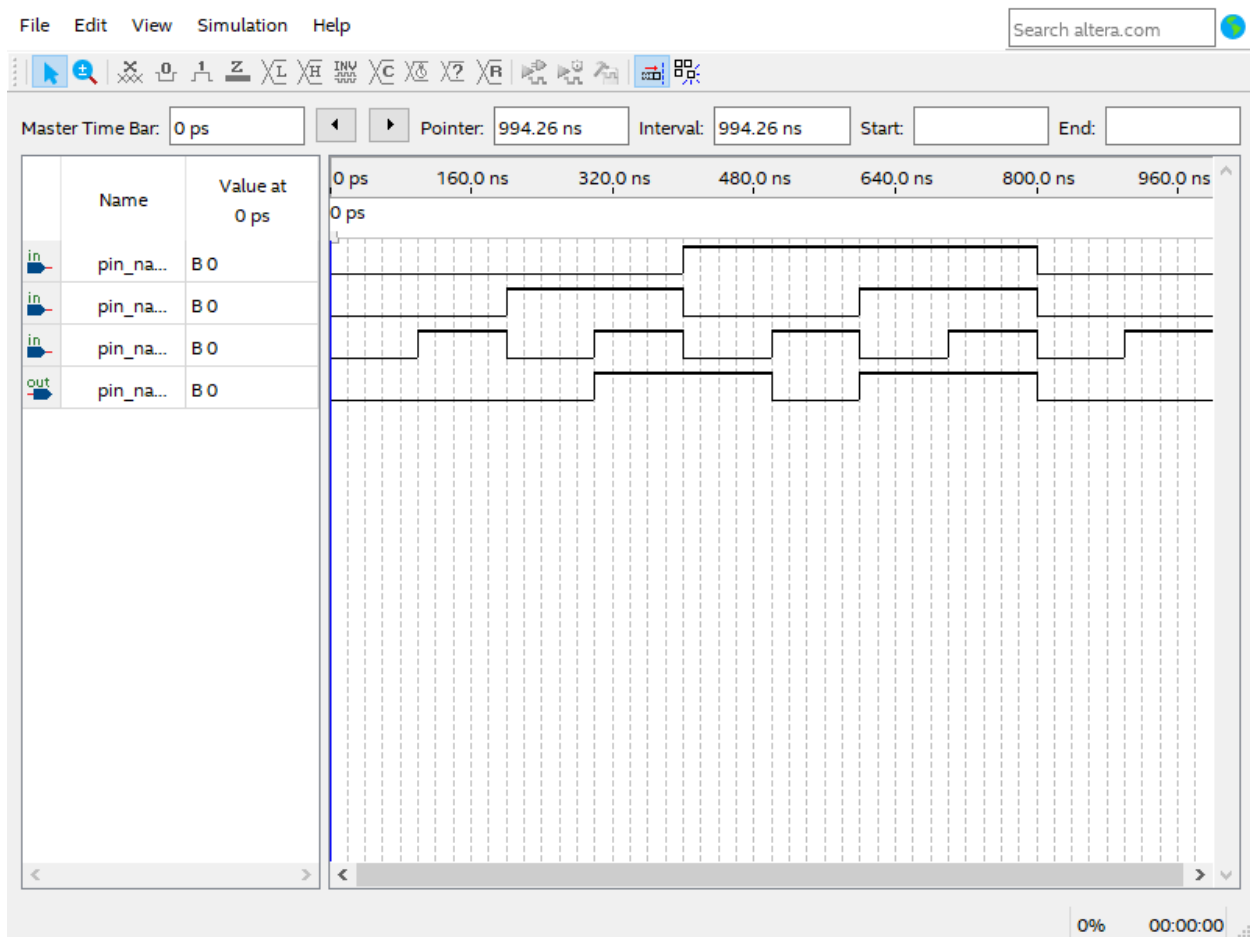
Type	ID	Message
Warning	332140	No hold paths to report
Warning	332140	No Recovery paths to report
Warning	332140	No Removal paths to report
Warning	332140	No Minimum Pulse width paths to report
Warning	332102	Design is not fully constrained for setup requirements
Warning	332102	Design is not fully constrained for hold requirements
Success	293000	Quartus Prime Timing Analyzer was successful. 0 errors, 6 warnings
Success	293000	Quartus Prime Full Compilation was successful. 0 errors, 14 warnings



The figure above showcases a successful compilation of the bdf file that includes the MUX symbol



In this screenshot, I am just setting the input values so that we can test for correctness



This is the output