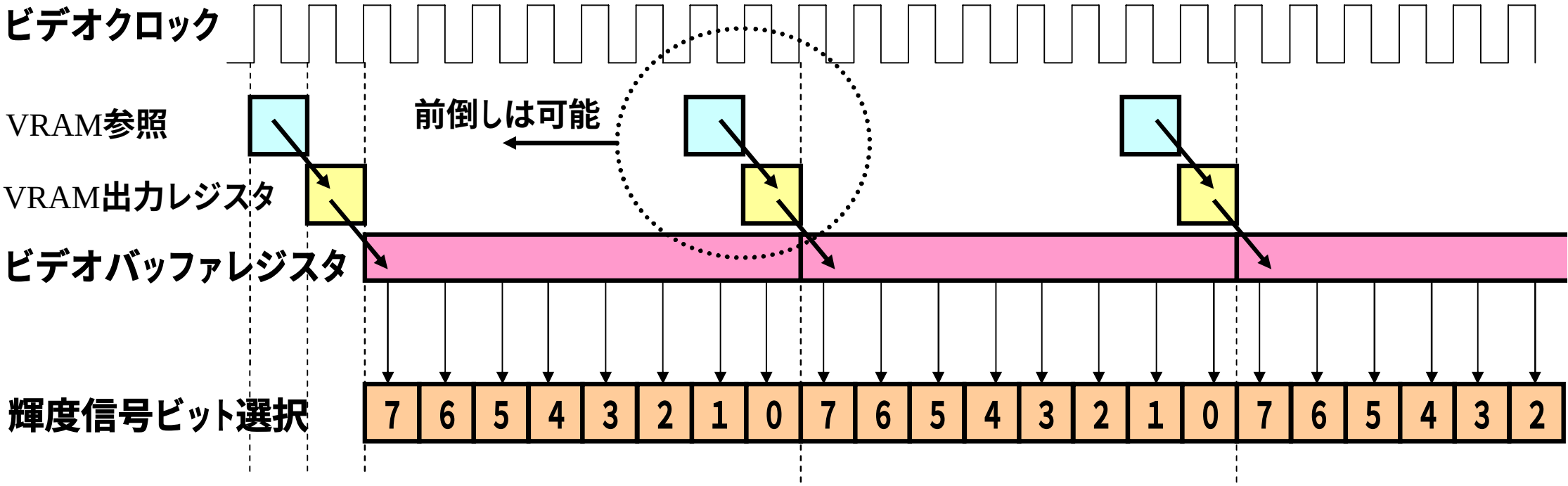
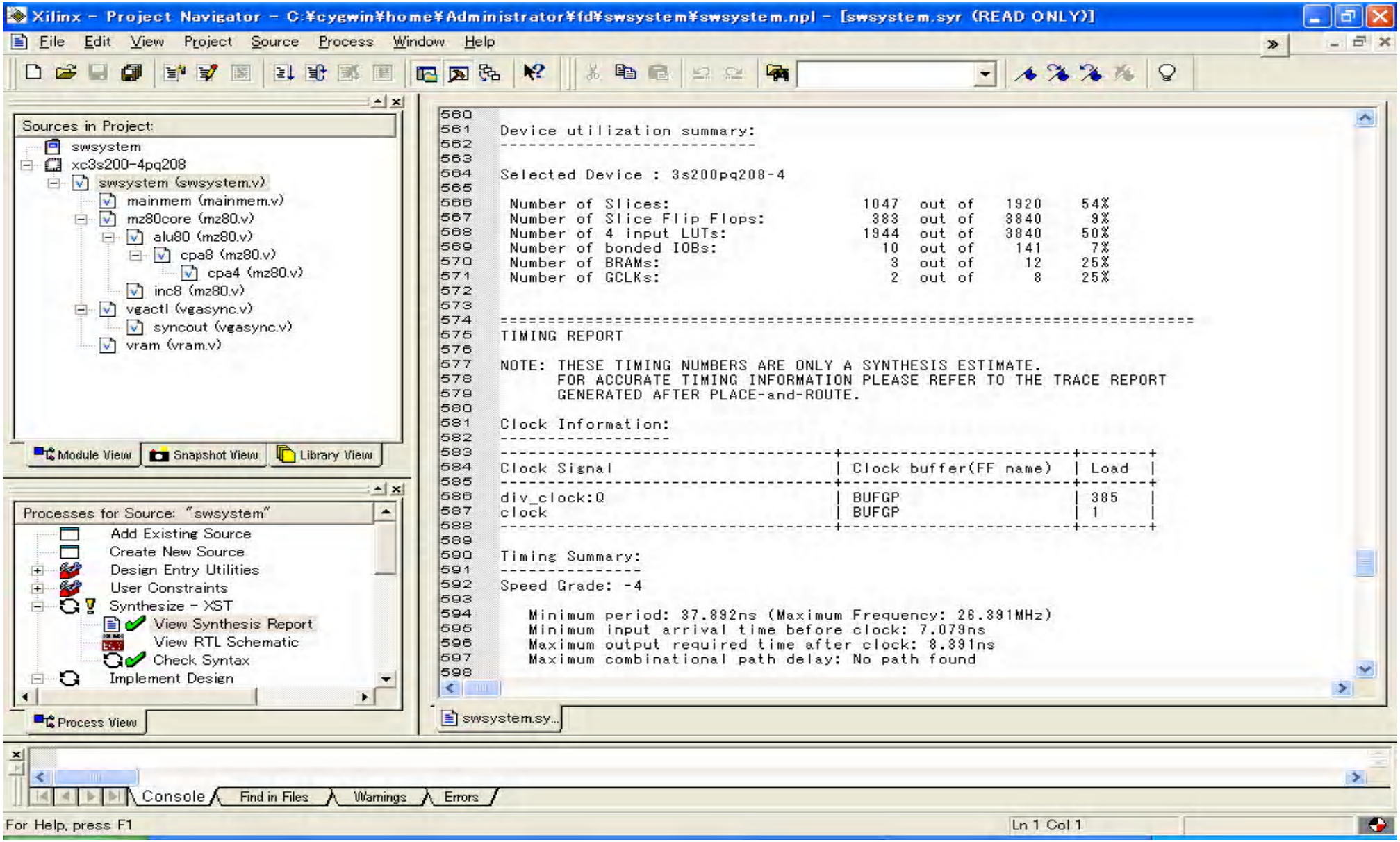
ビデオ周辺タイムチャート



輝度信号を駆動するビデオバッファはビデオクロックに同期
VRAM参照はバッファレジスタへ遅延なくデータを転送

X社FPGAへの合成


Xilinx - Project Navigator - C:¥cygwin¥home¥Administrator¥fd¥swsystem¥swsystem.npl - [swsystem.syr (READ ONLY)]
File Edit View Project Source Process Window Help
Sources in Project:
swsystem
xc3s200-4pq208
swsystem (swsystem.v)
mainmem (mainmem.v)
mz80core (mz80.v)
alu80 (mz80.v)
cpa8 (mz80.v)
cpa4 (mz80.v)
inc8 (mz80.v)
vgactl (vgasync.v)
syncout (vgasync.v)
vram (vram.v)
Module View
Snapshot View
Library View
Processes for Source: "swsystem"
Add Existing Source
Create New Source
Design Entry Utilities
User Constraints
Synthesize - XST
View Synthesis Report
View RTL Schematic
Check Syntax
Implement Design
Process View
560
561 Device utilization summary:
562 ---------------------------
563
564 Selected Device : 3s200pq208-4
565
566 Number of Slices: 1047 out of 1920 54%
567 Number of Slice Flip Flops: 383 out of 3840 9%
568 Number of 4 input LUTs: 1944 out of 3840 50%
569 Number of bonded IOBs: 10 out of 141 7%
570 Number of BRAMs: 3 out of 12 25%
571 Number of GCLKs: 2 out of 8 25%
572
573
574 ===
575 TIMING REPORT
576
577 NOTE: THESE TIMING NUMBERS ARE ONLY A SYNTHESIS ESTIMATE.
578 FOR ACCURATE TIMING INFORMATION PLEASE REFER TO THE TRACE REPORT
579 GENERATED AFTER PLACE-and-ROUTE.
580
581 Clock Information:
582 ------------------
583 +-----------------------------------+-------------------------+-------+
584 Clock Signal | Clock buffer(FF name) | Load |
585 +-----------------------------------+-------------------------+-------+
586 div_clock:Q | BUFGP | 385 |
587 clock | BUFGP | 1 |
588 +-----------------------------------+-------------------------+-------+
589
590 Timing Summary:
591 ---------------
592 Speed Grade: -4
593
594 Minimum period: 37.892ns (Maximum Frequency: 26.391MHz)
595 Minimum input arrival time before clock: 7.079ns
596 Maximum output required time after clock: 8.391ns
597 Maximum combinational path delay: No path found
598
swsystem.sy...
Console
Find in Files
Warnings
Errors
For Help, press F1
Ln 1 Col 1