Pipeline (4A)

•

Copyright (c) 2010, 2011, 2012 Young W. Lim.

Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.2 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled "GNU Free Documentation License".

Please send corrections (or suggestions) to youngwlim@hotmail.com.

This document was produced by using OpenOffice and Octave.

Tasks and Subtasks





Task vs Time View (1)



Pipeline (4A)

Task vs Time View (2)



Compact Task vs Time View



Pipeline (4A)

The Subtask Snapshot At time t₄



The subtask snapshot A B C D space (HW) at time t₄ Task 4 a B C D space (HW)

The Subtask Snapshot At time t₅



Pipeline (4A)

b

Task 4

Task 3

С

The Subtask Snapshot At time t₆



The subtask snapshot at time t_6



Pipeline (4A)

Young Won Lim 06/22/2013

space (HW)

The Subtask Snapshot At time t₇



The subtask snapshot at time t_7



Time vs Subtask View (1)



Time vs Subtask View (2)



FlipFlop Based Pipeline (1)



FlipFlop Based Pipeline (2)



The FlipFlop Timing



FlipFlops and Latches

D Type Master-Slave Flipflop





D Type Latches in series



Pipeline (4A)

Latch Based Pipeline (1)



Latch Based Pipeline (2)



Pipeline (4A)

18

The Latch Timing



Pipeline (4A)

19

References

[1] http://en.wikipedia.org/