

Chapter 6

Activity

Instructor: Prof. Peter Lian
Department of Electrical
Engineering & Computer Science
Lassonde School of Engineering
York University

Activity 1

In the signal-flow graph (SFG) in Fig. a, the computation time for each node is assumed to be 1 u.t.

- (1) Calculate the critical path computation time.
- (2) The critical path has been reduced to 2 u.t. by inserting 3 extra latches as shown in Fig. b. Is this a valid pipelining? If not, how to get a valid one.

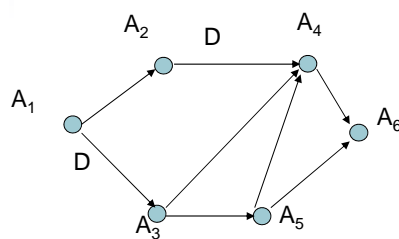


Fig. a

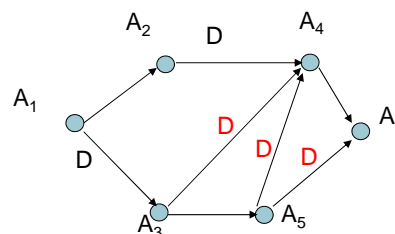
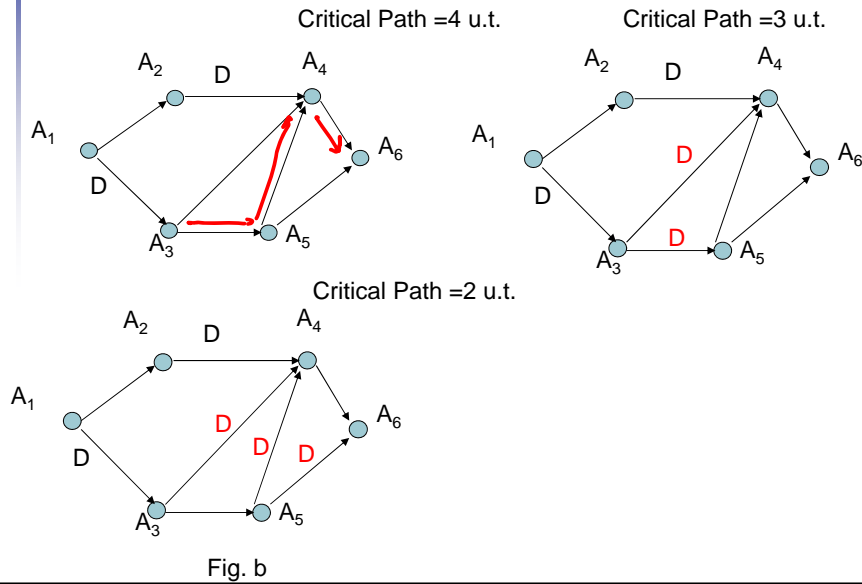


Fig. b

Solution Activity 1



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