

Acyclic graphs always have single appearance schedules

## **Existence of single appearance schedules**



Graphs that contain cycles may or may not have single appearance schedules, depending on the delays.

## **Tight interdependence**



## Tightly interdependent components



At least 6 delays must reside on one of the arcs for a single appearance schedule to exist.

## **Scheduling framework for memory minimization**

- Constructs a single appearance schedule whenever one exists.
- Actors outside the tightly interdependent components are scheduled with only one appearance.
- For actors inside tightly interdependent components, the number of appearances is determined entirely by the *tight scheduling algorithm*.