G54SIM: Lecture 4 Worksheet

End of γ2: Clock=6; Queue=0; Wait=1; PersIn=1; PhoneIn=1; DueNow=0

Entity	Time cell	Availability	Next Activity
(1) Personal enquirer arrival machine	9	FALSE	Personal Arrival
(2) Phone call arrival machine	9	FALSE	Phone Call
(3) Clerk	9	FALSE	EndService

Random numbers left over: 3,6,4,8

End of α3: Clock=   ; Queue=   ; Wait=   ; PersIn=   ; PhoneIn=   ; DueNow=

Entity	Time cell	Availability	Next Activity
(1) Personal enquirer arrival machine			Personal Arrival
(2) Phone call arrival machine			Phone Call
(3) Clerk			

End of β3: Clock=   ; Queue=   ; Wait=   ; PersIn=   ; PhoneIn=   ; DueNow=

Entity	Time cell	Availability	Next Activity
(1) Personal enquirer arrival machine		FALSE	Personal Arrival
(2) Phone call arrival machine		FALSE	Phone Call
(3) Clerk			

End of γ3: Clock=   ; Queue=   ; Wait=   ; PersIn=   ; PhoneIn=   ; DueNow=

| Entity	Time cell	Availability	Next Activity
(1) Personal enquirer arrival machine		FALSE	Personal Arrival
(2) Phone call arrival machine		FALSE	Phone Call
(3) Clerk			

Phases

α-Phase: Find out when the next event is due, move simulation clock to that time, put all entities due to engage in a B at that time into the DueNow list

β-Phase: Execute activities of entities in the DueNow list

γ-Phase: Executive must attempt each C in turn by checking if the condition in the test heads are satisfied
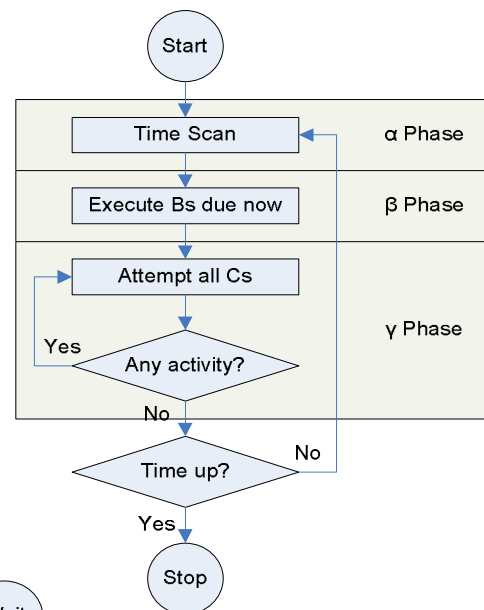
Activity Cycle Diagram
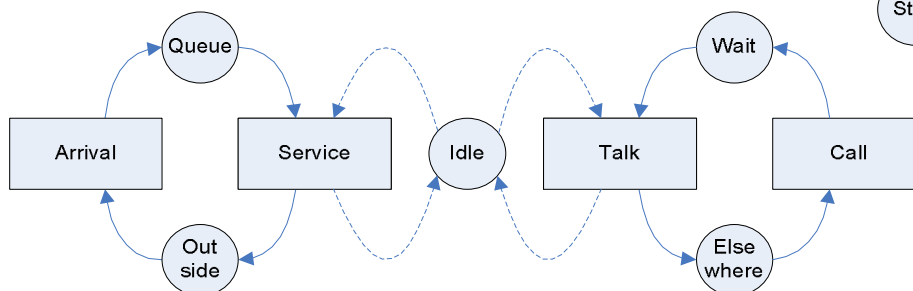
B1 = Arrival; B2 = EndOfService; B3 = Call; B4 = EndOfTalk
C1 = BeginService; C2 = BeginTalk