

Distributed Systems

Lab 6

Chandy Lamport Global Snapshot Algorithm

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C:\Windows\System32\cmd.exe - rmiregistry
Microsoft Windows [Version 10.0.19044.1620]
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C:\Users\abhis\Downloads\Lab>javac *.java

C:\Users\abhis\Downloads\Lab>rmic M1
Warning: generation and use of skeletons and static stubs for JRMP
is deprecated. Skeletons are unnecessary, and static stubs have
been superseded by dynamically generated stubs. Users are
encouraged to migrate away from using rmic to generate skeletons and static
stubs. See the documentation for java.rmi.server.UnicastRemoteObject.

C:\Users\abhis\Downloads\Lab>rmic M2
Warning: generation and use of skeletons and static stubs for JRMP
is deprecated. Skeletons are unnecessary, and static stubs have
been superseded by dynamically generated stubs. Users are
encouraged to migrate away from using rmic to generate skeletons and static
stubs. See the documentation for java.rmi.server.UnicastRemoteObject.

C:\Users\abhis\Downloads\Lab>rmic M3
Warning: generation and use of skeletons and static stubs for JRMP
is deprecated. Skeletons are unnecessary, and static stubs have
been superseded by dynamically generated stubs. Users are
encouraged to migrate away from using rmic to generate skeletons and static
stubs. See the documentation for java.rmi.server.UnicastRemoteObject.

C:\Users\abhis\Downloads\Lab>rmiregistry
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C:\Windows\System32\cmd.exe

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C:\Users\abhis\Downloads\Lab>java M1

M1 started!

java RMI registry for M1 created at 1900

PeerServer bound in registry

C1 started!

C1 sent an external event at 1 to M3

C1 sent an external event at 2 to M3

M1 recieved an event at 3 from M3

C1 sent an external event at 4 to M3

C1 initiated Global Snapshot!

Local State(LS1): [[Send, 3], [Send, 3], [Reci, 2], [Send, 3]]

Channel State(SC21): {}

C1 sent an marker at 6 to M2

Local State(LS1): [[Send, 3], [Send, 3], [Reci, 2], [Send, 3]]

Channel State(SC31): {}

C1 sent an marker at 7 to M2

C1 sent an marker at 7 to M3

Channel State(SC21): []

Channel State(SC31): []

C1 sent an marker at 7 to M3

C1 sent an marker at 7 to M2

C1 sent an marker at 7 to M3

C1 sent an external event at 8 to M2

M1 recieved an event at 13 from M3

M1 recieved an event at 14 from M3

M1 recieved an event at 15 from M4

C1 sent an external event at 16 to M3

C1 sent an external event at 17 to M3

M1 recieved an event at 21 from M4

C1 sent an external event at 22 to M2

M1 recieved an event at 25 from M3

M1 recieved an event at 26 from M4

M1 recieved an event at 28 from M4

M1 recieved an event at 29 from M4

C1 sent an external event at 30 to M3

M1 recieved an event at 33 from M4

C:\Users\abhis\Downloads\Lab>_

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C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19044.1620]
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C:\Users\abhis\Downloads\Lab>java M2
M2 started!
java RMI registry for M2 created at 1901
PeerServer bound in registry
C2 started!
C2 sent an external event at 1 to M1
C2 sent an external event at 2 to M3
Local State(LS2): [[Send, 1], [Send, 3]]
Channel State(SC12): []
Channel State(SC12): []
Channel State(SC12): []
Local State(LS2): [[Send, 1], [Send, 3]]
Channel State(SC32): []
C2 sent an marker at 4 to M1
Channel State(SC32): []
C2 sent an marker at 4 to M3
C2 sent an marker at 4 to M1
C2 sent an marker at 4 to M3
M2 recieved an event at 9 from M3
M2 recieved an event at 10 from M1
M2 recieved an event at 11 from M3
C2 sent an external event at 12 to M1
C2 sent an external event at 13 to M1
M2 recieved an event at 20 from M3
M2 recieved an event at 23 from M1
C2 sent an external event at 24 to M1
C2 sent an external event at 25 to M3
C2 failed to send an external event at 26

C:\Users\abhis\Downloads\Lab>java M1
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C:\Windows\System32\cmd.exe
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C:\Users\abhis\Downloads\Lab>java M3
M3 started!
java RMI registry for M3 created at 2902
PeerServer bound in registry
C3 started!
M3 recieved an event at 2 from M1
M3 recieved an event at 3 from M1
M3 recieved an event at 4 from M2
M3 recieved an event at 5 from M1
Local State(LS3): [[Reci, 1], [Reci, 1], [Reci, 2], [Reci, 1]]
Channel State(SC13): []
Channel State(SC13): []
C3 sent an marker at 6 to M1
Local State(LS3): [[Reci, 1], [Reci, 1], [Reci, 2], [Reci, 1]]
Channel State(SC23): []
C3 sent an marker at 7 to M1
C3 sent an marker at 7 to M2
C3 sent an marker at 7 to M2
Channel State(SC23): []
Channel State(SC13): []
C3 sent an external event at 8 to M2
C3 sent an external event at 9 to M2
C3 sent an external event at 10 to M1
M3 recieved an event at 17 from M1
M3 recieved an event at 18 from M1
C3 sent an external event at 19 to M2
C3 sent an external event at 20 to M1
C3 sent an external event at 21 to M1
M3 recieved an event at 26 from M2
C3 sent an external event at 27 to M1
C3 sent an external event at 28 to M1
M3 recieved an event at 31 from M1
C3 sent an external event at 32 to M1

C:\Users\abhis\Downloads\Lab>
```

Thankyou!!