

# Distributed Systems

## Lab 4 – RMI

### Lamport Scalar Clock

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```
C:\Windows\System32\cmd.exe

C:\Users\abhis\Downloads\DS>javac *.java

C:\Users\abhis\Downloads\DS>rmic RemoteReceive
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been superseded by dynamically generated stubs.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\DS>_
```

```
C:\Windows\System32\cmd.exe - java S1

C:\Users\abhis\Downloads\DS>java S1
Server 1 & Client 1 have Started :)
Internal Event has occurred in Process 1 with time : 1
Internal Event has occurred in Process 1 with time : 2
Internal Event has occurred in Process 1 with time : 3
Internal Event has occurred in Process 1 with time : 4
Send Event has occurred from Process 1 to Process 4 with time : 5
Send Event has occurred from Process 1 to Process 3 with time : 6
Internal Event has occurred in Process 1 with time : 7
Send Event has occurred from Process 1 to Process 3 with time : 8
Internal Event has occurred in Process 1 with time : 9
Send Event has occurred from Process 1 to Process 2 with time : 10
Send Event has occurred from Process 1 to Process 4 with time : 11
Internal Event has occurred in Process 1 with time : 12
Send Event has occurred from Process 1 to Process 3 with time : 13
Send Event has occurred from Process 1 to Process 2 with time : 14
Send Event has occurred from Process 1 to Process 4 with time : 15
```

```
C:\Windows\System32\cmd.exe - java S4
```

```
Server 4 & Client 4 have Started :)  
Send Event has occured from Process 4 to Process 1 with time : 1  
Send Event has occured from Process 4 to Process 2 with time : 2  
Internal Event has occured in Process 4 with time : 3  
Send Event has occured from Process 4 to Process 1 with time : 4  
Send Event has occured from Process 4 to Process 2 with time : 5  
Internal Event has occured in Process 4 with time : 6  
Internal Event has occured in Process 4 with time : 7  
Send Event has occured from Process 4 to Process 1 with time : 8  
Send Event has occured from Process 4 to Process 3 with time : 9  
Send Event has occured from Process 4 to Process 1 with time : 10  
Internal Event has occured in Process 4 with time : 11  
Send Event has occured from Process 4 to Process 2 with time : 12  
Send Event has occured from Process 4 to Process 1 with time : 13  
Internal Event has occured in Process 4 with time : 14  
Send Event has occured from Process 4 to Process 2 with time : 15
```

```
C:\Windows\System32\cmd.exe - java S3
```

```
C:\Users\abhis\Downloads\DS>java S3  
Server 3 & Client 3 have Started :)  
Internal Event has occured in Process 3 with time : 1  
Send Event has occured from Process 3 to Process 1 with time : 2  
Send Event has occured from Process 3 to Process 1 with time : 3  
Send Event has occured from Process 3 to Process 2 with time : 4  
Internal Event has occured in Process 3 with time : 5  
Internal Event has occured in Process 3 with time : 6  
Send Event has occured from Process 3 to Process 2 with time : 7  
Send Event has occured from Process 3 to Process 4 with time : 8  
Send Event has occured from Process 3 to Process 2 with time : 9  
Send Event has occured from Process 3 to Process 1 with time : 10  
Send Event has occured from Process 3 to Process 4 with time : 11  
Send Event has occured from Process 3 to Process 2 with time : 12  
Internal Event has occured in Process 3 with time : 13  
Send Event has occured from Process 3 to Process 1 with time : 14  
Send Event has occured from Process 3 to Process 1 with time : 15
```

C:\Windows\System32\cmd.exe - Java S2

```
C:\Users\abhis\Downloads\DS>Java S2
Server 2 & Client 2 have Started :)
Send Event has occurred from Process 2 to Process 4 with time : 1
Send Event has occurred from Process 2 to Process 4 with time : 2
Internal Event has occurred in Process 2 with time : 3
Send Event has occurred from Process 2 to Process 1 with time : 4
Send Event has occurred from Process 2 to Process 4 with time : 5
Send Event has occurred from Process 2 to Process 1 with time : 6
Send Event has occurred from Process 2 to Process 4 with time : 7
Internal Event has occurred in Process 2 with time : 8
Internal Event has occurred in Process 2 with time : 9
Send Event has occurred from Process 2 to Process 1 with time : 10
Send Event has occurred from Process 2 to Process 1 with time : 11
Send Event has occurred from Process 2 to Process 4 with time : 12
Send Event has occurred from Process 2 to Process 4 with time : 13
Internal Event has occurred in Process 2 with time : 14
Internal Event has occurred in Process 2 with time : 15
```

*Thankyou!!*