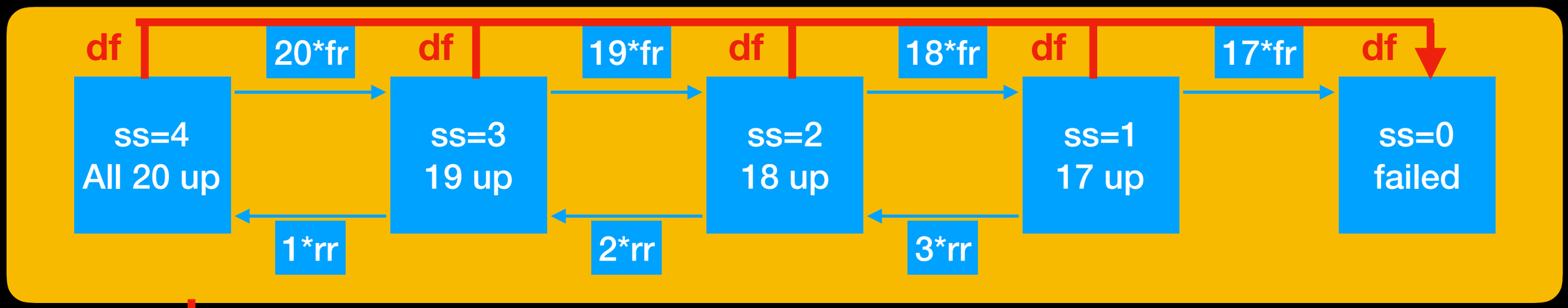
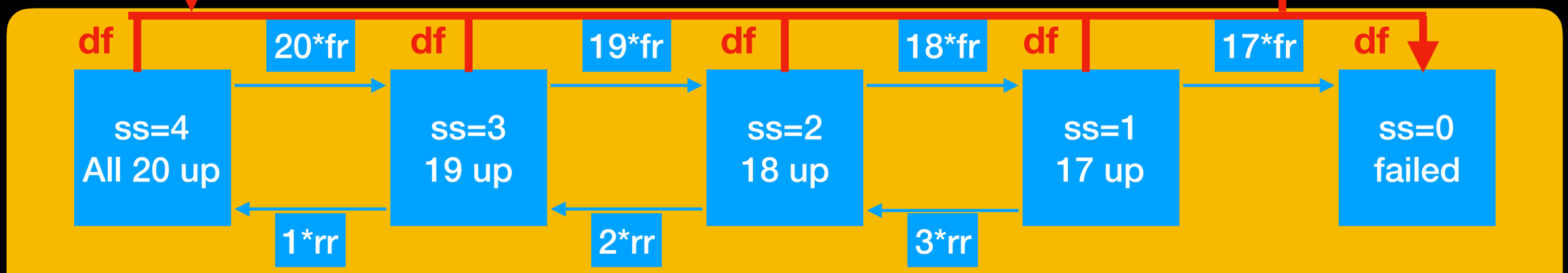
All 4 up, DC=2



4*df

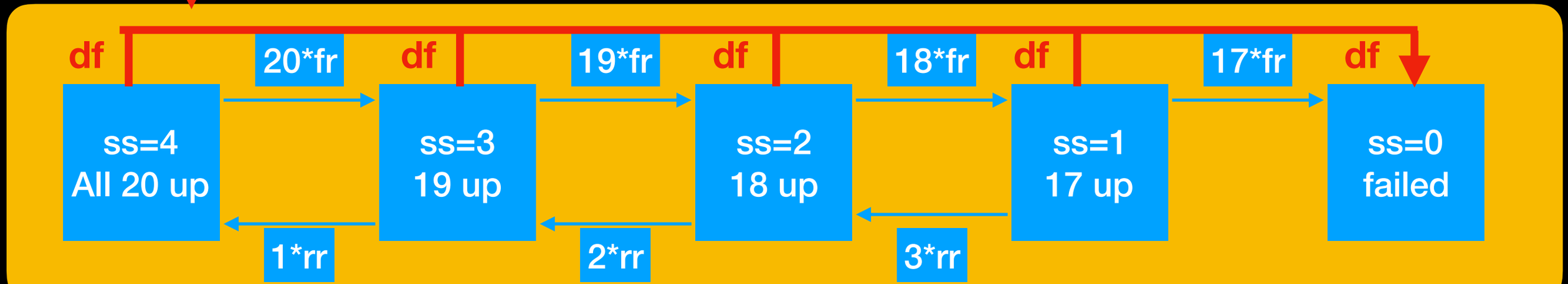
*rrdc

3 up, DC=1



3*df

Failed DC=0



Data Centre in 3/4 coding

Assumptions

- If all 4 are up , its durable hence state DC=2
- If 3 up its still durable hence state DC=1
- If below than 3 then its failed state hence DC=0
- df = Data-centre Failure Rate
- rrdc = Repair Rate Data Centre

HardDisk in 17/20

Assumptions

- If all 20 are up , its durable hence state ss=4
- If 19 up its still durable hence state ss=3
- If 18 up its still durable hence state ss=2
- If 17 up its still durable hence state ss=1
- If below than 17 then its failed state hence ss=0
- fr = Failure Rate (hard disk)
- rr = Repair Rate (hard disk)