















Omission and Arbitrary Failures

Class of failure	Affects	Description
Fail-stop	Process	Process halts and remains halted. Other processes may
Crash	Process	Process halts and remains halted. Other processes may not be able to detect this state.
Omission	Channel	A message inserted in an outgoing message buffer neve arrives at the other end's incoming message buffer.
Send-omission	Process	A process completes a <i>send</i> , but the message is not put in its outgoing message buffer.
Receive-omission	Process	A message is put in a process's incoming message buffer, but that process does not receive it.
Arbitrary (Byzantine)	Process or channel	Process/channel exhibits arbitrary behaviour: it may send/transmit arbitrary messages at arbitrary times, commit omissions; a process may stop or take an incorrect step.

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Class of Failure	Affects	Description		
Clock	Process	Process's local clock exceeds the bounds on its rate of drift from real time.		
Performance	Process	Process exceeds the bounds on the interval between two steps.		
Performance	Channel	A message's transmission takes longer than the stated bound.		











