

System models and timing assumptions

Model name [CGR11]	Processes	Timing abstraction	Other assumptions	System type
Fail-stop	Crash-stop	P (perfect FD)	—	Synchronous
Fail-noisy	Crash-stop	$\Diamond P$ or Ω	$N > 2 F$	Eventually synchronous
Fail-silent	Crash-stop	—	$N > 2 F$	Asynchronous
Fail-silent randomized	Crash-stop	—	Randomness, $N > 2 F$	Asynchronous randomized
Fail-recovery	Crash-recovery	(various)	Stable storage	(various)
Fail-arbitrary-noisy	Fail-arbitrary/Byzantine	Byz. leader detector	$N > 3 F$	Eventually synchronous Byzantine
Fail-arbitrary-silent	Fail-arbitrary/Byzantine	—	$N > 3 F$	Asynchronous Byzantine
Fail-silent randomized	Crash-stop	—	Randomness, $N > 3 F$	Asynchronous Byzantine randomized