

**Table I.** A Comparison Between Various Flavors of Rollback-Recovery Protocols

	Uncoordinated Checkpointing	Coordinated Checkpointing	Comm. Induced Checkpointing	Pessimistic Logging	Optimistic Logging	Causal Logging
PWD assumed?	No	No	No	Yes	Yes	Yes
Checkpoint/ process	Several	1	Several	1	Several	1
Domino effect	Possible	No	No	No	No	No
Orphan processes	Possible	No	Possible	No	Possible	No
Rollback extent	Unbounded	Last global checkpoint	Possibly several checkpoints	Last checkpoint	Possibly several checkpoints	Last checkpoint
Recovery data	Distributed	Distributed	Distributed	Distributed or local	Distributed or local	Distributed
Recovery protocol	Distributed	Distributed	Distributed	Local	Distributed	Distributed
Output commit	Not possible	Global coordination required	Global coordination required	Local decision	Global coordination required	Local decision