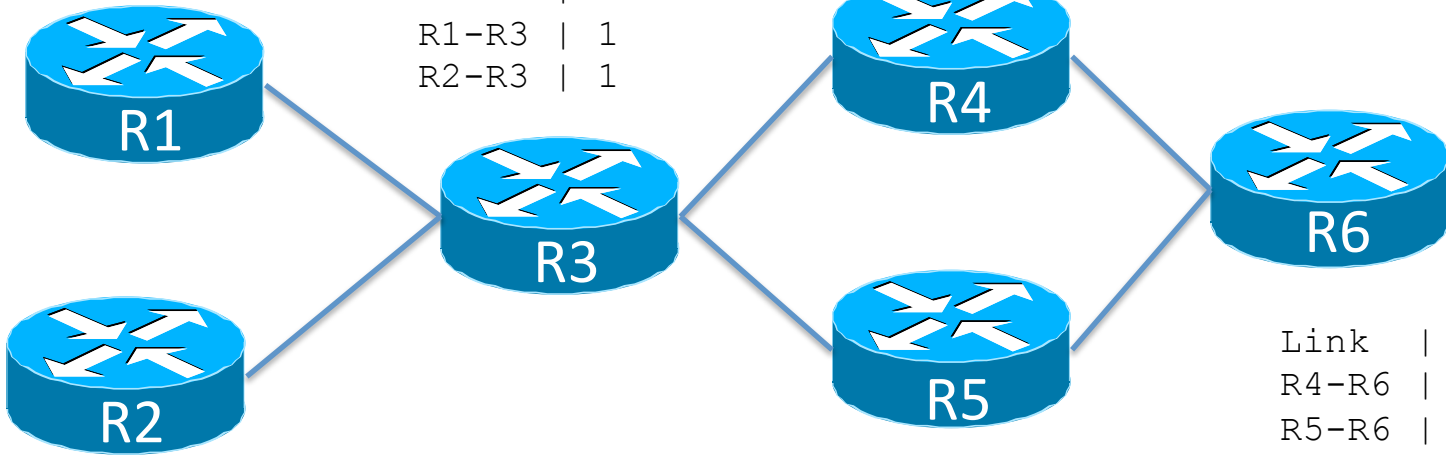


Link-state vs path-vector

	Link-state	Path-vector
Advertisements	Links and costs	Path and distance to networks
Database	Same map at all nodes	Different at each node
Pros	Fast-convergence: source of failure propagated to all nodes	Scalable: lots of information is hidden
Cons	Not scalable: routers cannot support the whole Internet topology	Slow-convergence: lots of intermediate routes are advertised
Examples	IS-IS, OSPF	RIP, EIGRP, BGP

Link-state

Link	Cost
R4-R6	1
R5-R6	1
R3-R4	1
R3-R5	1
R1-R3	1
R2-R3	1



Link	Cost
R4-R6	1
R5-R6	1
R3-R4	1
R3-R5	1
R1-R3	1
R2-R3	1

Link	Cost
R4-R6	1
R5-R6	1
R3-R4	1
R3-R5	1
R1-R3	1
R2-R3	1

Link	Cost
R4-R6	1
R5-R6	1
R3-R4	1
R3-R5	1
R1-R3	1
R2-R3	1

Link	Cost
R4-R6	1
R5-R6	1
R3-R4	1
R3-R5	1
R1-R3	1
R2-R3	1

Link	Cost
R4-R6	1
R5-R6	1
R3-R4	1
R3-R5	1
R1-R3	1
R2-R3	1

Path-vector

