





	Core
□ A small set of routers	that have consistent & complete
information about all	destinations.
□ Outlying routers can h	nave partial information
provided they point de	efault routes to the core
□ Partial info allows routing changes inc	site administrators to make local dependently.
□ Initially, core routers	were under a central authority
and were synchronize backbone.	d for consistency => single
□ Internet quickly outgr	ew single backbone (ARPANET
+ NSFNET). Core arc	chitecture does not scale well.
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CIDR	
□ Supported by BGP-4	
Shortage of class Bs => give out many class Cs instead of one class B address	
□ New problem: every class C network needs a routing entry !	
Solution: Classless Inter-domain Routing (CIDR). Also called "supernetting"	
 Key: allocate addresses such that they can be summarized. 	
□ Share same higher order bits (I.e. prefix)	
□ Routing tables and protocols must be capable of	
carrying a subnet mask.	
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