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Layer	Semantics	Functionality	Implementation	0	
Application	Channels, variables	Computation	Application	7	
Presentation	End-to-end typed messages	Data formatting	Application	6	
Session	End-to-end untyped messages	Synchronization, Multiplexing	OS kernel	5	
Transport	End-to-end data streams	Packeting, Flow control, Error correction	OS kernel	4	
Network	End-to-end packets	Routing	OS kernel	3	
Link	Point-to-point logical links	Station typing, Synchronization	Driver	2t	
Stream	Point-to-point control/data streams	Multiplexing, Addressing	Driver	2t	
Media Access	Shared medium byte streams	Data slicing, Arbitration	HAL	28	
Protocol	Media (word/frame) transactions	Protocol timing	Hardware	28	
Physical	Pins, wires	Driving, sampling	Interconnect	1	

















Implemented Layers:	Granularity:
MAC	User Transaction (1) Bus Transaction (2) Bus Cycle (3) HHHHHHHHHHHHHHH time
<ul> <li>User transaction (mess</li> <li>Arbitrary length, cont</li> </ul>	sage) tiguous block of bytes
<ul> <li>No arbitration: content</li> <li>Resolution depends</li> </ul>	i <b>on avoidance by semaphore</b> on simulator
Expected to be the fast	test model ngle time wait





















