Stack for Networked Systems	Stack for Genomics Systems
Application	Application
FTP, HTTP	Variant Calling
Presentation	API
Data to protocol	Read, Pileup
Session	Data Access
Tunneling/Forwarding	Flat File, Database
Transport	Compute Substrate
Transport TCP, UDP	Compute Substrate Hadoop, Shark, MPI
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TCP, UDP	Hadoop, Shark, MPI
TCP, UDP Network	Hadoop, Shark, MPI Data Format
TCP, UDP Network OSPF, BGP	Data Format ADAM, BAM/SAM
TCP, UDP Network OSPF, BGP Data Link	Data Format ADAM, BAM/SAM Storage