



Socket Send

Socket Buffer [A]

Calculate Ready Data to Send

Socket Buffer [R]

Prepare metadata structures pointing to message data

Connection Hashtable [A]

Look Up Connection

Connection [A]

Connection Hashtable [R]

return value

Connection [R]

TCP Send

for(packet-sized segments in message)

Socket Buffer [A]

Prepare TCP header for one packet

Socket Buffer [R]

Route Hashtable [A]

Allocate new route structure

Route [A]

Fill in route

Route [R]

Route Hashtable [R]

Prepare IP header

Ensure ARP entry isn't expired

Route [A]

Validate route

Route [R]

TCP Output

return value

Route [R]

Destroy route structure

Route [A]

IP Output

Ensure ARP entry isn't expired

Route [A]

Validate route

Route [R]

Ethernet Output

TX Interface Queue [A]

Insert packet

TX Interface Queue [R]

Interface Queue

Driver