

TCP/IP PROGRAMMING IN C

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KEYWORDS

TCP/IP: network protocols. Protocols are layered

(Berkeley) Socket: API for network programming

Client/Server model



SOCKET API

```
sfd = socket(domain, type, prot)
```

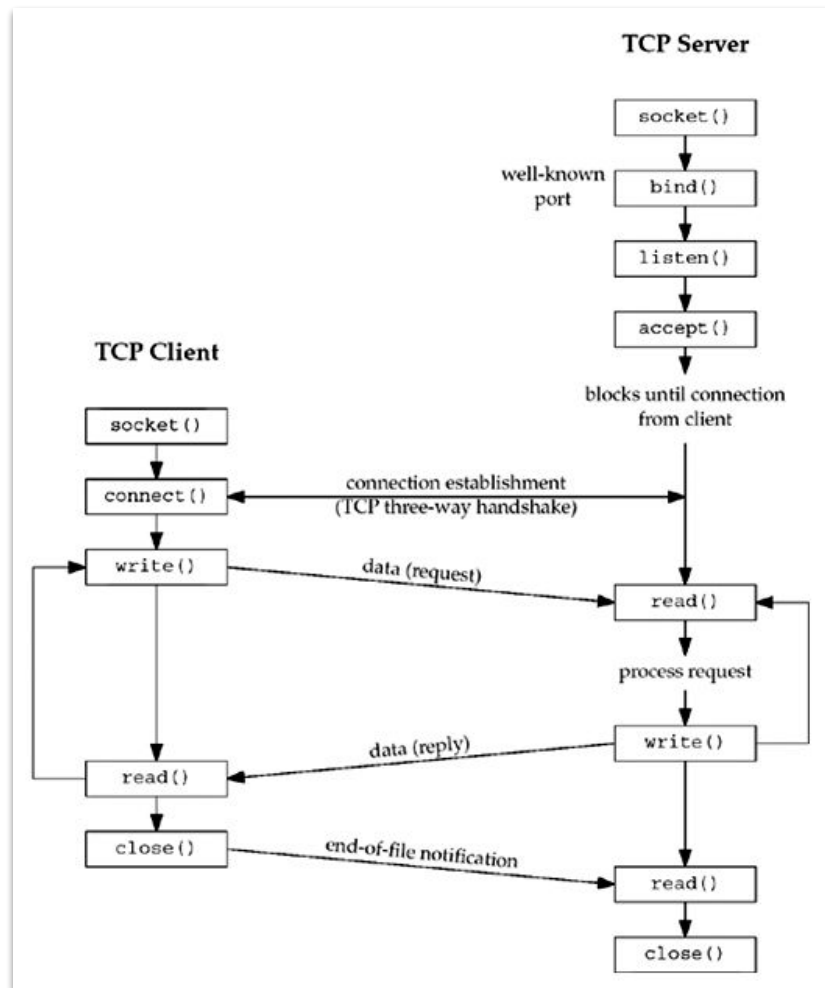
```
bind(sfd, addr, addr_len)
```

```
listen(sfd, backlog)
```

```
fd = accept(sfd, addr, addr_len)
```

```
connect(sfd, addr, addr_len)
```

```
read/write/close()
```



NETWORK LAYERS

TCP(Transmission Control Protocol) - Connection-oriented

UDP(User Datagram Protocol) - Connectionless

IP (Internet Protocol)

Application	HTTP	SSH	RTCP	RTP	DNS	
Transport	TCP			UDP		port
Network	IP (v4, v6)					ip addr
Data-link	Ethernet	WiFi		LTE		MAC