The split.c file contains functions that are used to split and analyze network packets. Here are the main functions:

- 1. ars_seems_ip: This function checks if the given packet seems to be an IP packet. It checks the version, header length, and checksum of the packet.
- 2. ars_guess_ipoff: This function tries to guess the offset of the IP header in the packet. It iterates over the packet data until it finds a sequence that seems to be an IP header.
- ars_check_ip_cksum: This function checks the checksum of an IP header. It creates a copy of the header, sets the checksum field to 0, calculates the checksum of the modified header, and compares it to the original checksum.
- 4. ars_check_icmp_cksum: This function checks the checksum of an ICMP header in a similar way to ars_check_ip_cksum.
- 5. ars_split_packet: This function splits a packet into its constituent parts (IP header, ICMP header, TCP header, etc.) and stores them in an ars_packet structure. It uses a finite state machine, with each state corresponding to a different part of the packet.
- 6. ars_split_ip, ars_split_ipopt, ars_split_icmp, ars_split_udp, ars_split_tcp, ars_split_tcpopt, ars_split_igrp, ars_split_igrpentry, ars_split_data: These functions handle the different states of the finite state machine in ars_split_packet. They each handle a different part of the packet (IP header, IP options, ICMP header, etc.), and set the next state based on the contents of the current part.