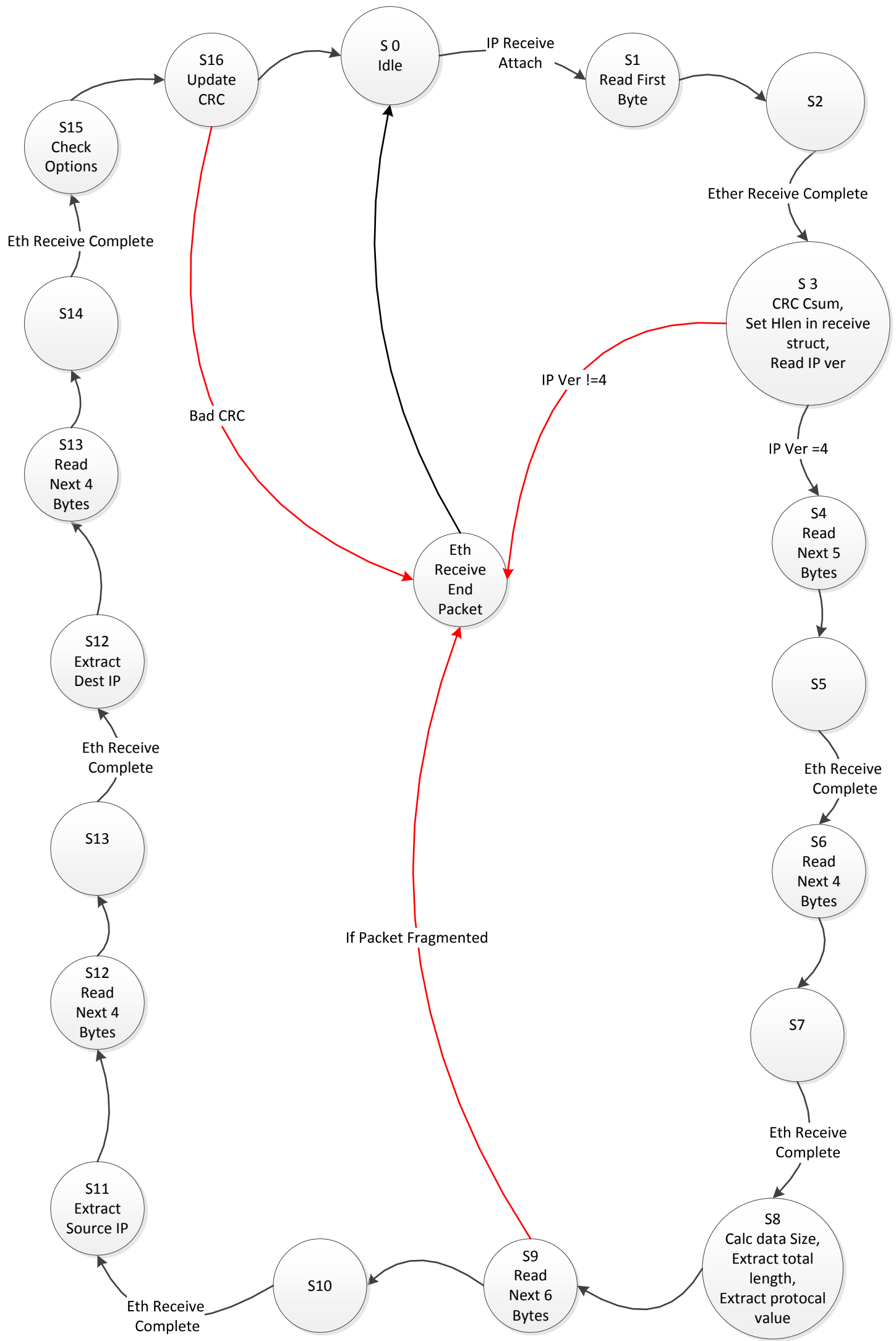


# IP Receive State Diagram



Action Table

State	Action
S0	Idle
S1	Read First Byte
S2	
S3	<ul style="list-style-type: none"><li>Update CRC checksum</li><li>Set header length in receive structure</li><li>Check IP version</li></ul>
S4	Read next 5 bytes
S5	
S6	Read next 4 bytes
S7	
S8	<ul style="list-style-type: none"><li>Calculate data size</li><li>Extract total length</li><li>Extract Protocol Value (1,6,17...)</li></ul>
S9	Read next 6 bytes
S10	
S11	Extract source IP
S12	Read next 4 bytes
S13	
S14	Extract Destination IP
S15	Read next 4 bytes
S16	
S17	Check Option (this may not be necessary)
S18	Update CRC

Copy of rough notes located here:  
<https://www.dropbox.com/s/ahtx4h4mi3myo9r/IP%20Received%20Rough%20Notes%20From%20Class.pdf?dl=0>