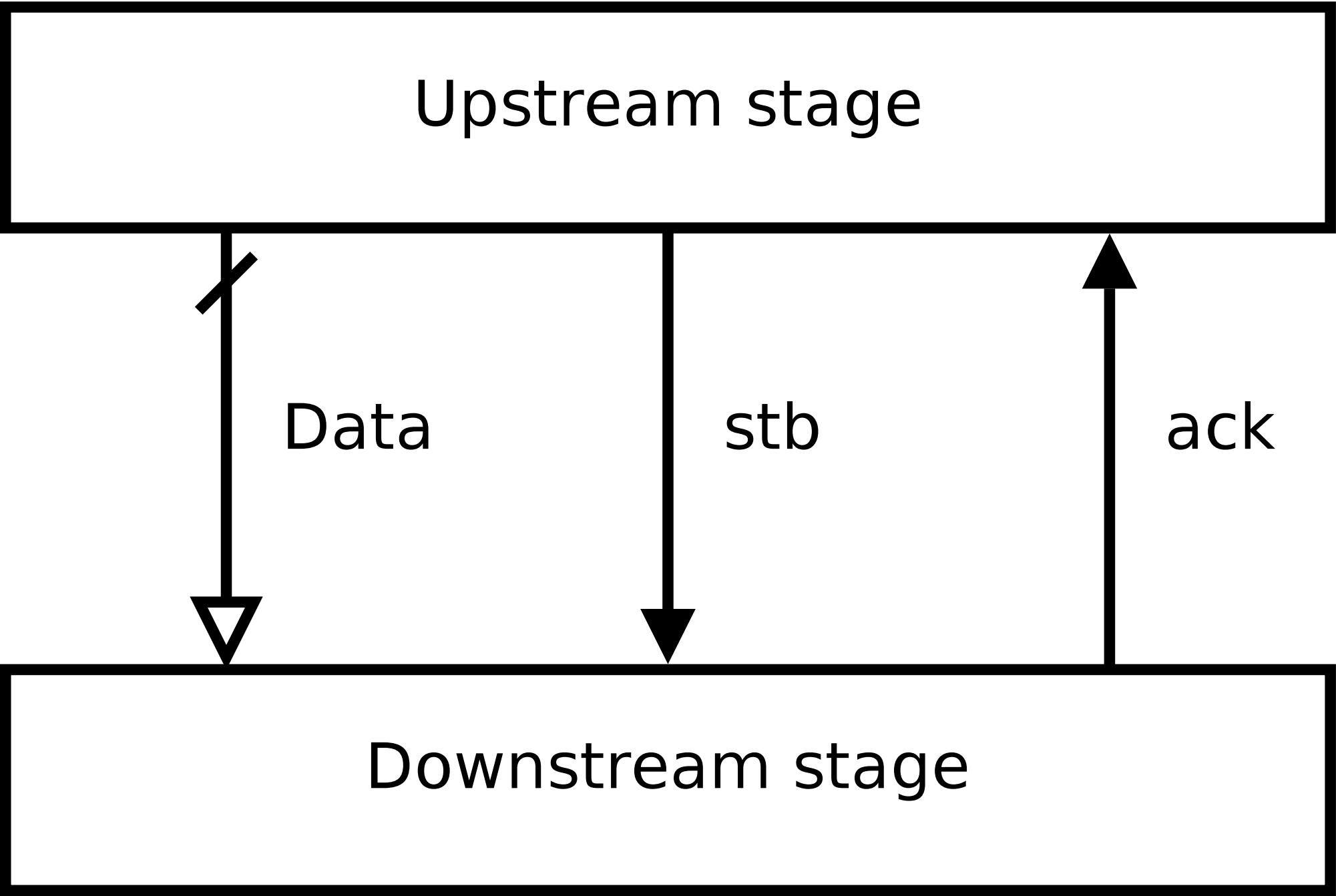
Upstream stage
Data
stb
ack
Downstream stage