Handling of User Plane IP Traffic

UE

UPF

DS-TT

User Space

iptables

Kernel Space

oaitun_ue1

NIC

User Space

NW-TT

iptables

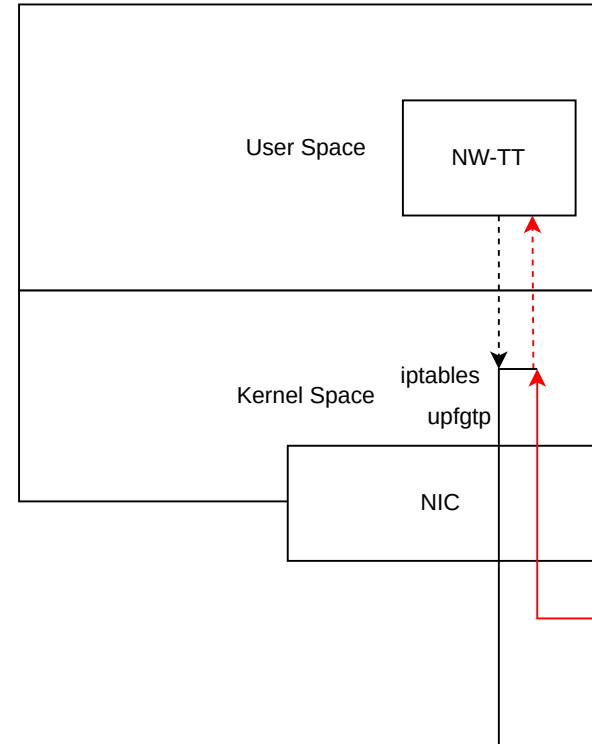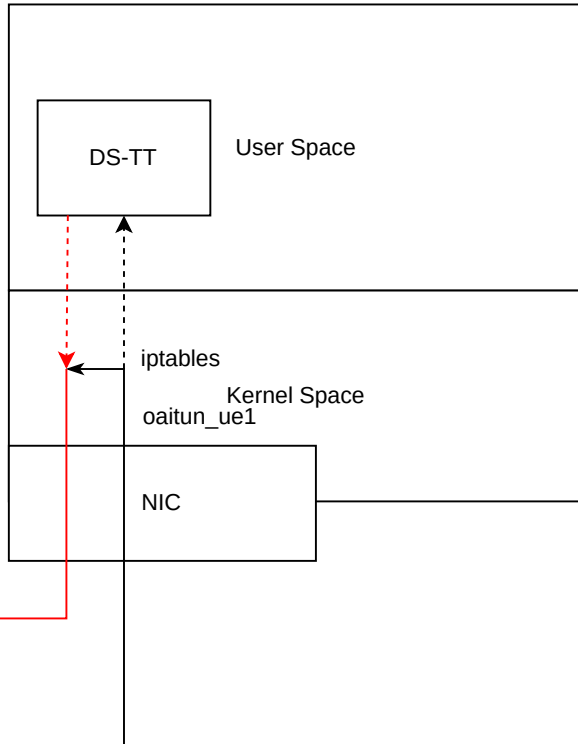Kernel Space

upfgtp

NIC

gtp

PTP Correction Factor Timestamping happens in the TT units.
Jitter in between timestamping is corrected.
However, jitter before ingress timestamp and after egress timestamp
degrades PTP performance (red arrows).
In the best case timestamping is performed in the ingress/egress NIC
instead of userspace.