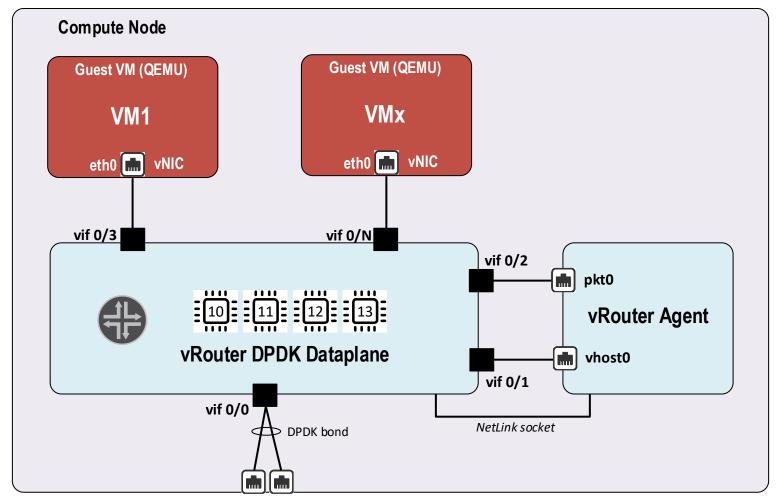


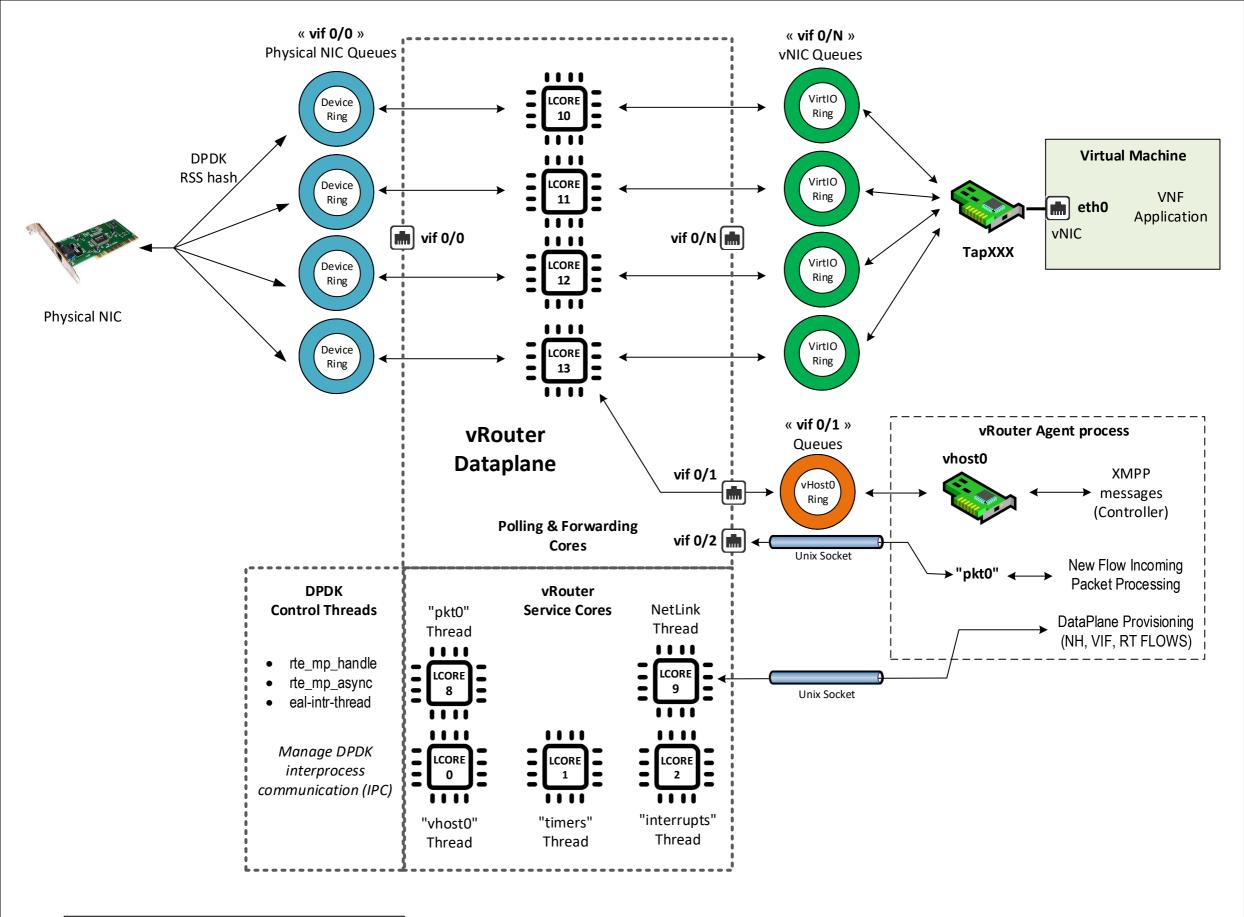
Title: vrouter overview

version: 1.0 date: 25/03/2020

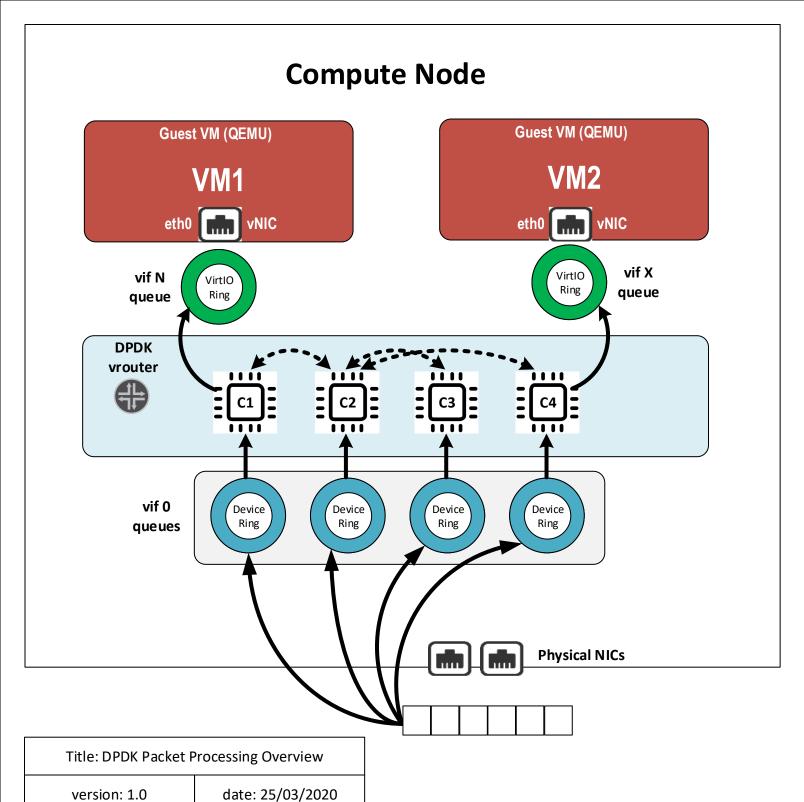


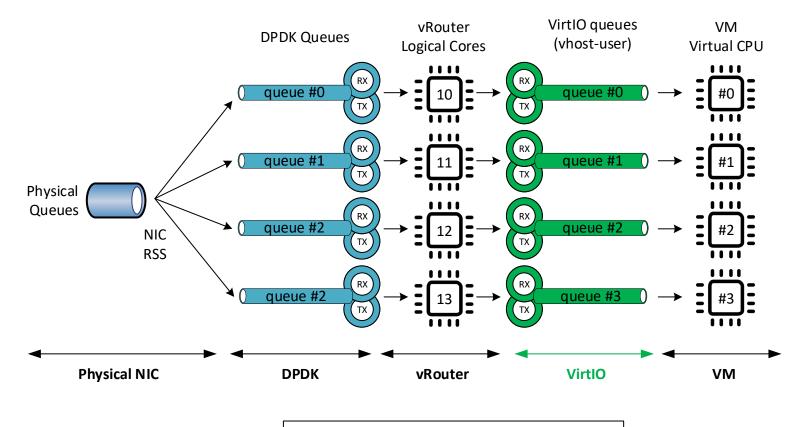
**Physical NICs** 

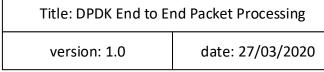
| Title: vRouter interfaces overview |                  |
|------------------------------------|------------------|
| version: 1.0                       | date: 27/03/2020 |

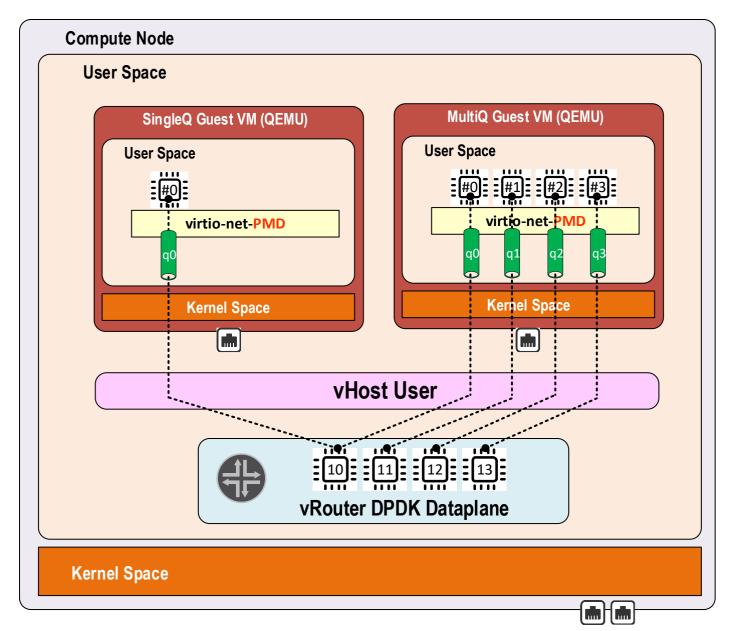


| Title: vRouter Internal Architecture |                  |
|--------------------------------------|------------------|
| version: 1.0                         | date: 27/03/2020 |





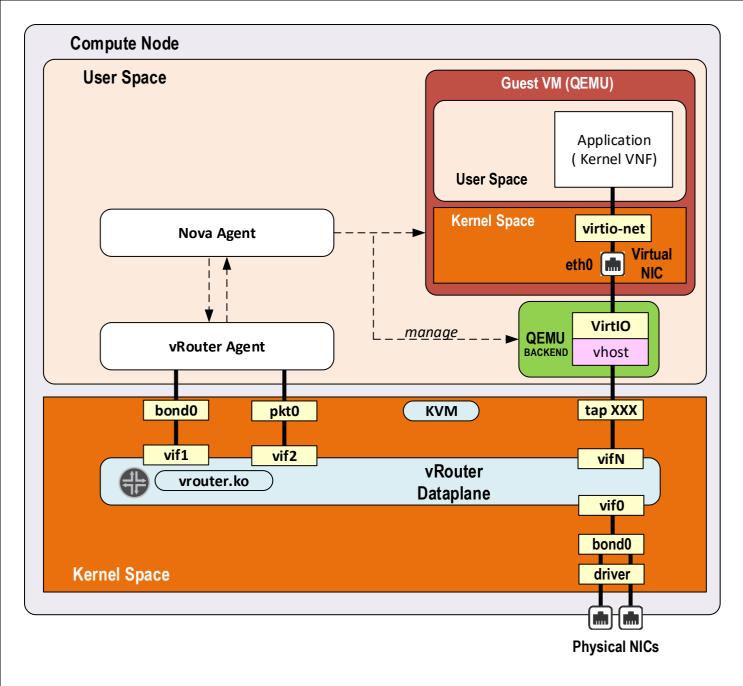




**Physical NICs** 

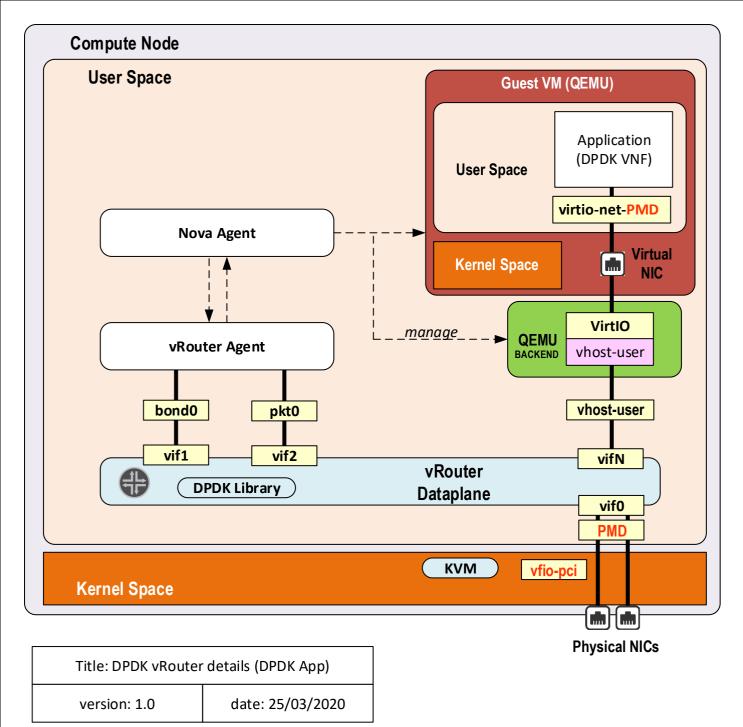
Title: SingleQ versus MultiQ VNF

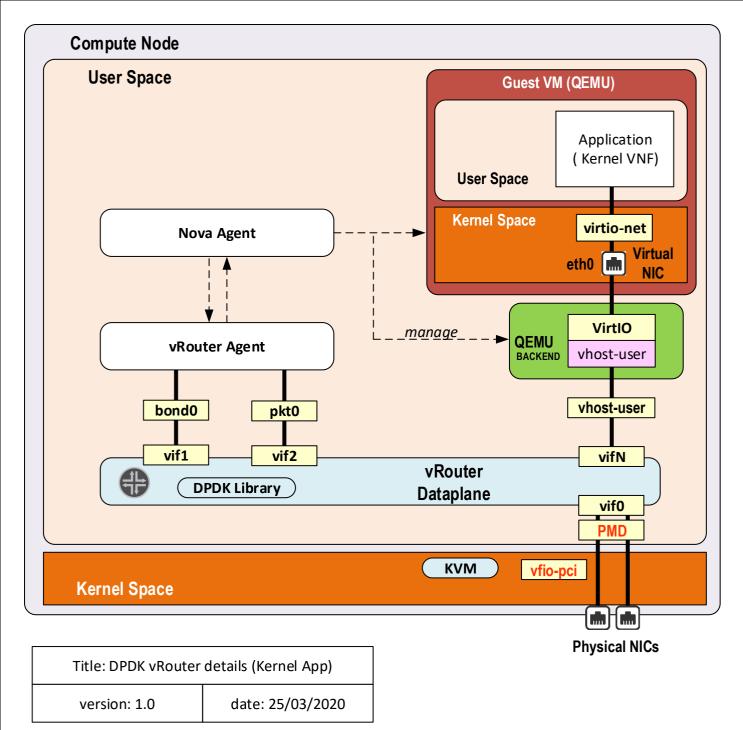
version: 1.0 date: 27/03/2020

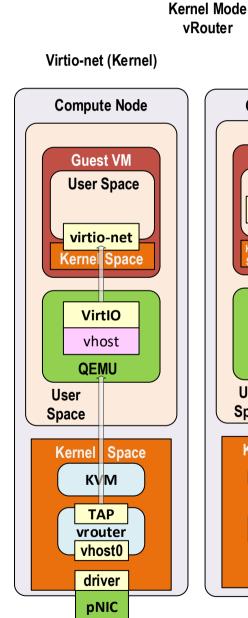


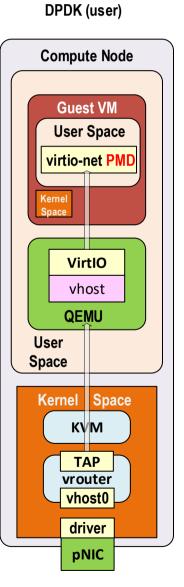
Title: Kernel vRouter details

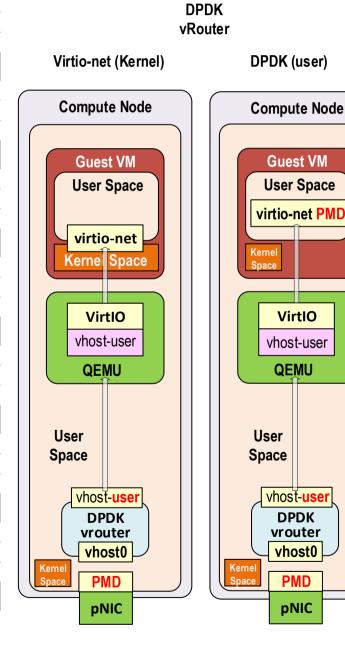
version: 1.0 date: 25/03/2020

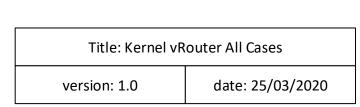


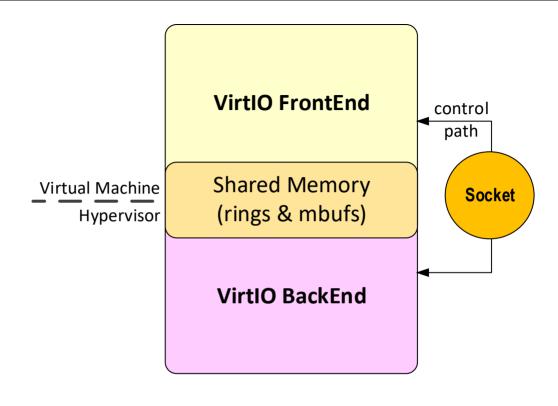


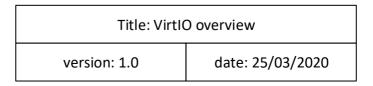


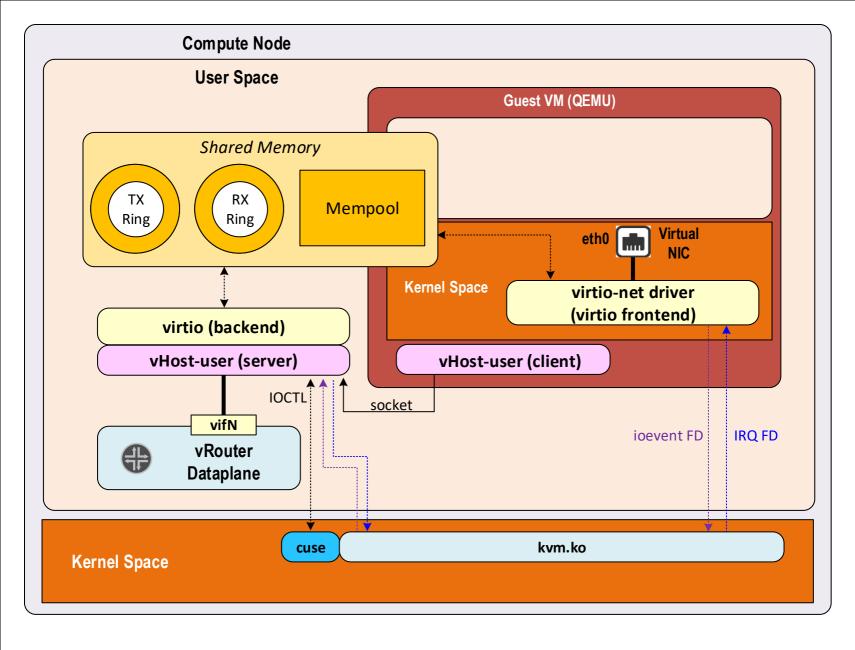






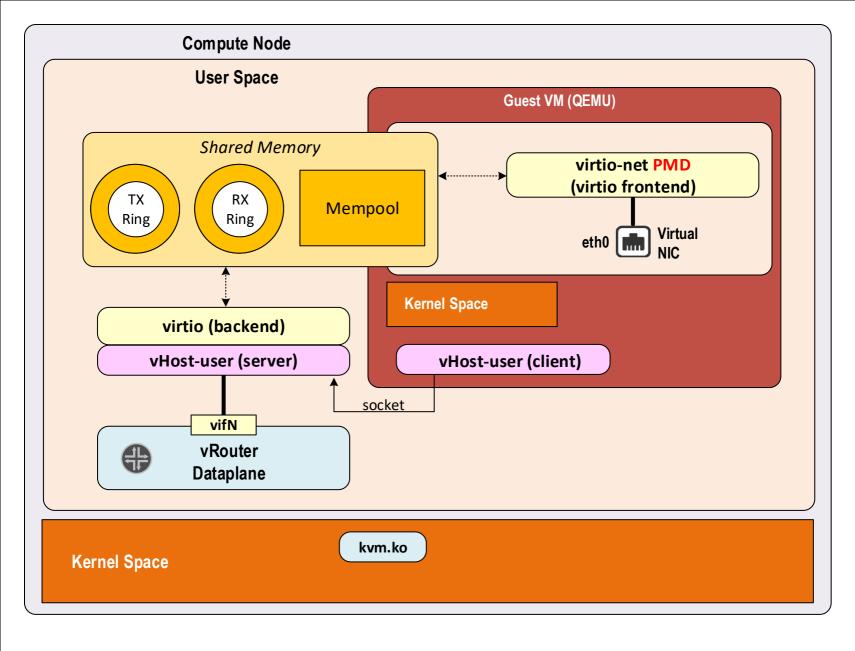






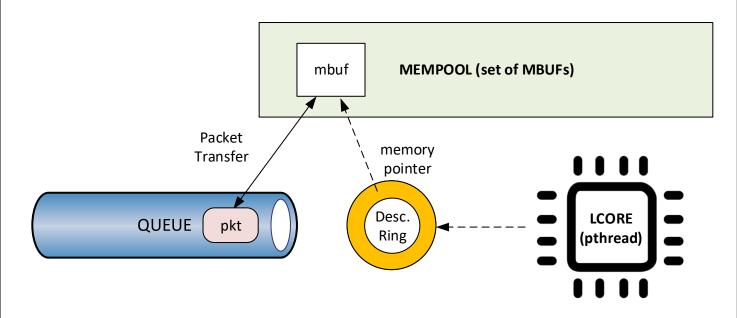
VirtIO details (Kernel App)

version: 1.0 date: 25/03/2020



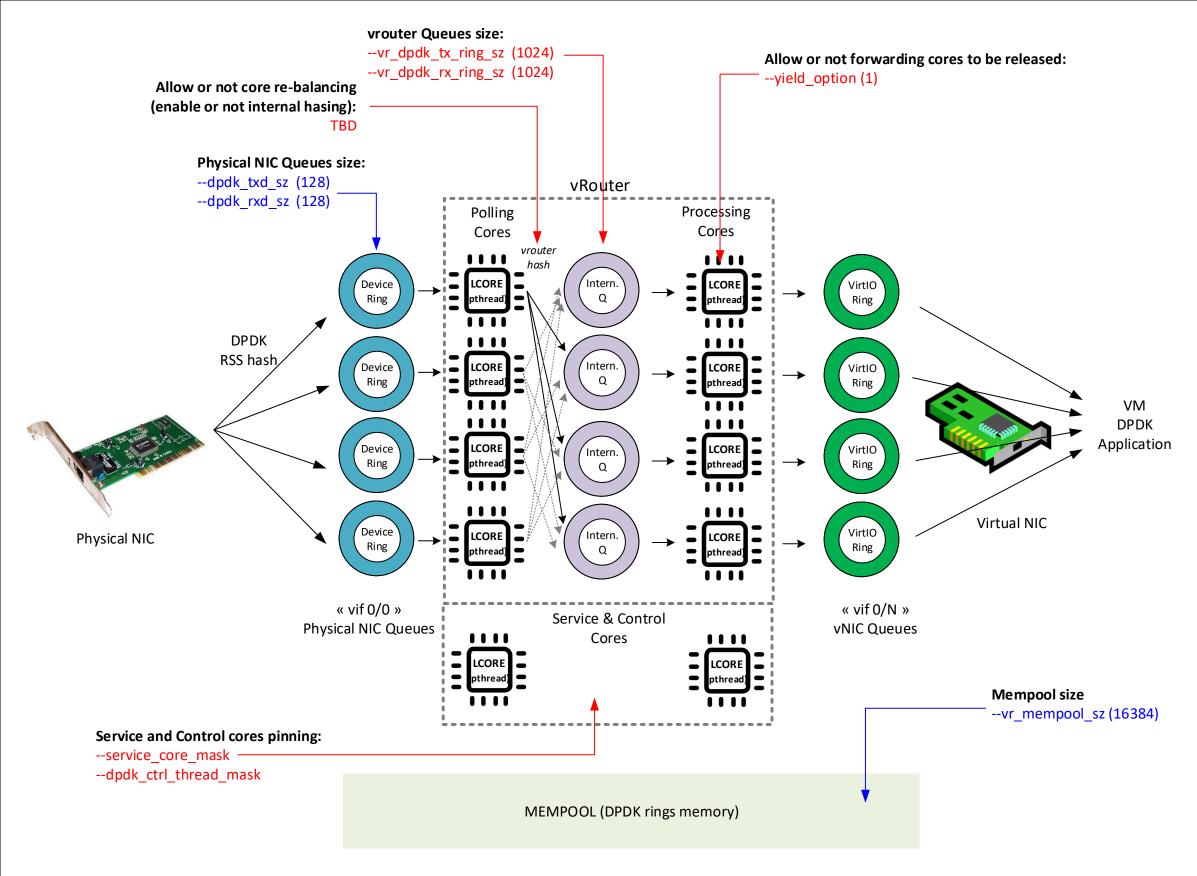
VirtIO details (DPDK App)

version: 1.0 date: 25/03/2020

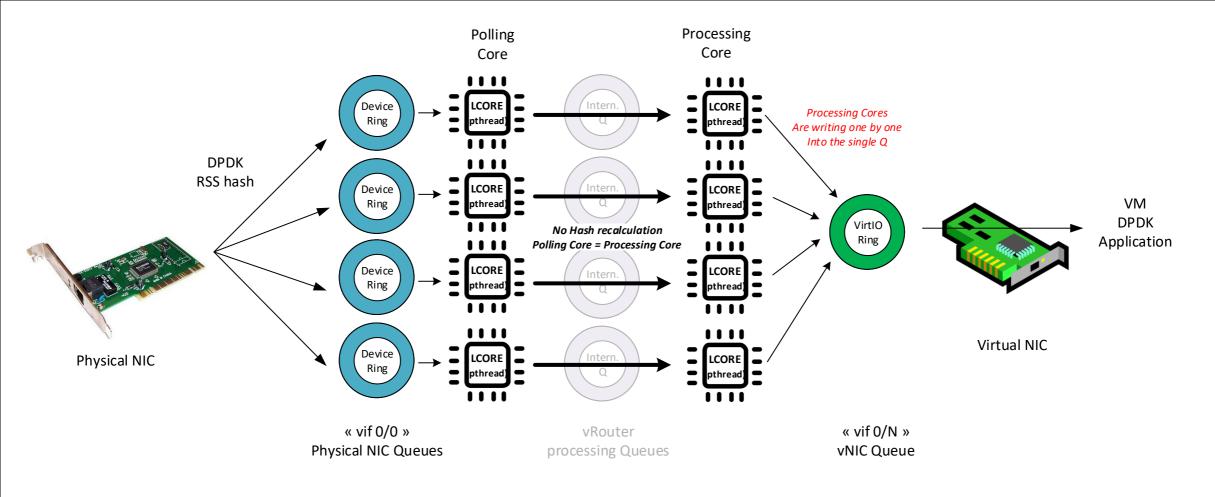


Title: DPDK High Level Components

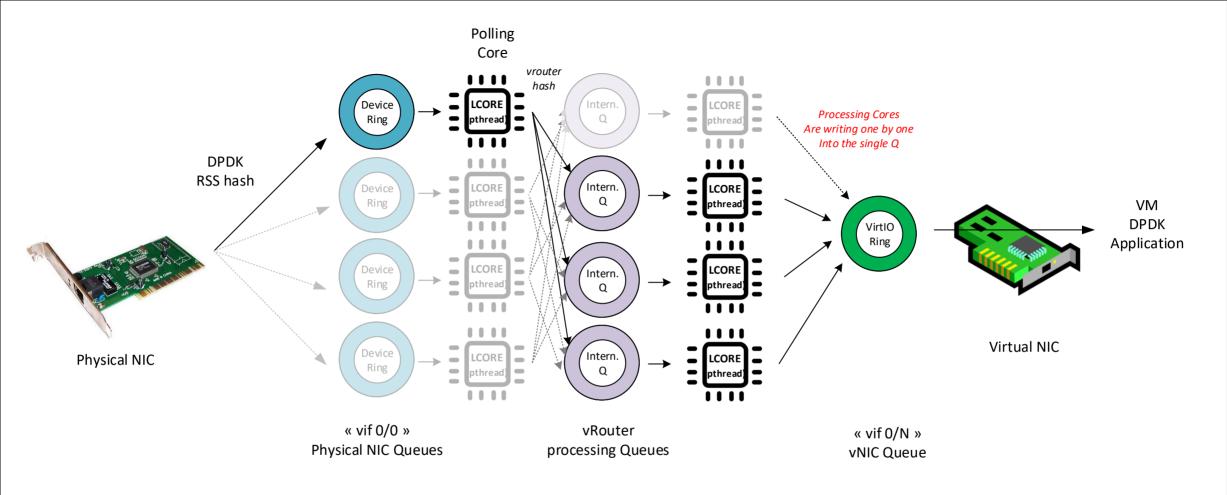
version: 1.0 date: 25/03/2020



| Title: vRouter Architecture |                  |
|-----------------------------|------------------|
| version: 1.0                | date: 25/03/2020 |

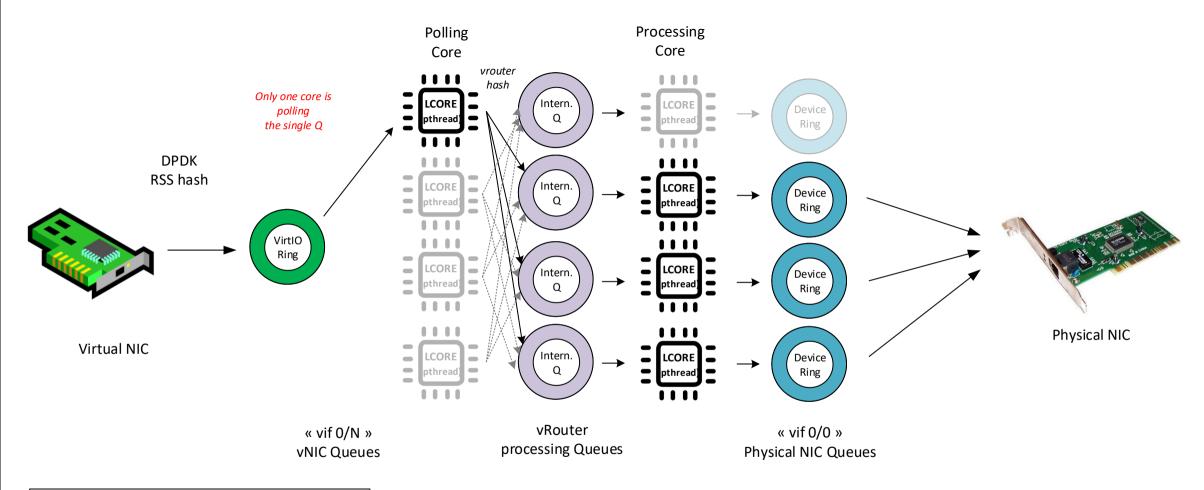


| Title: UDP to SingleQ |                  |
|-----------------------|------------------|
| version: 1.0          | date: 25/03/2020 |

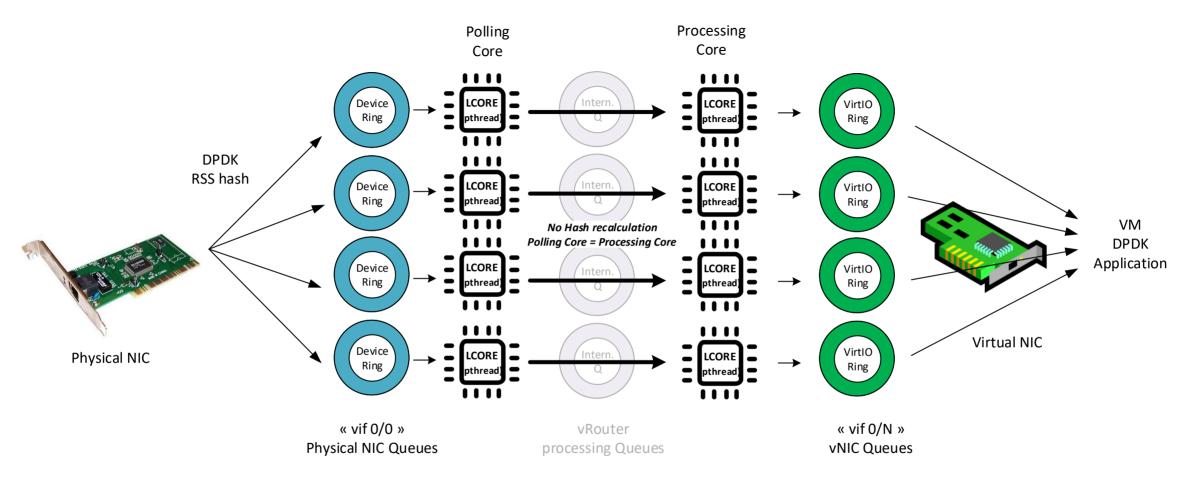


Title: GRE to SingleQ

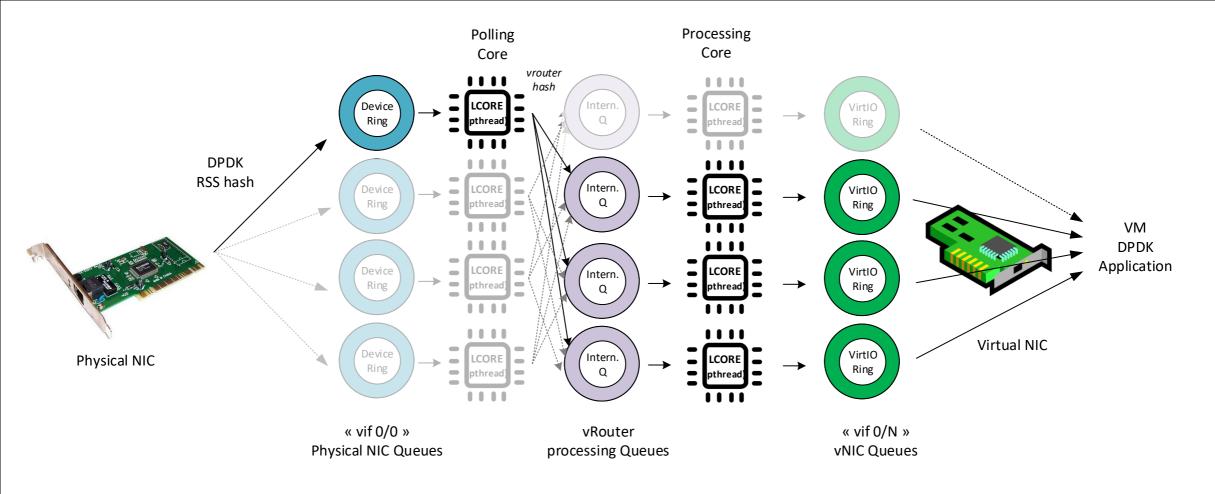
version: 1.0 date: 25/03/2020



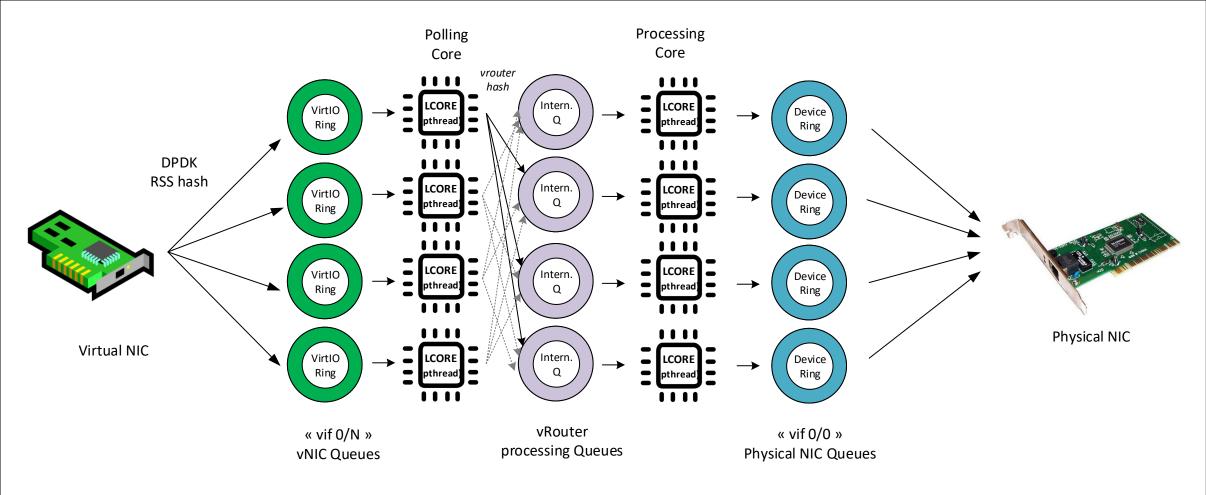
| Title: SingleQ to Underlay |                  |
|----------------------------|------------------|
| version: 1.0               | date: 25/03/2020 |



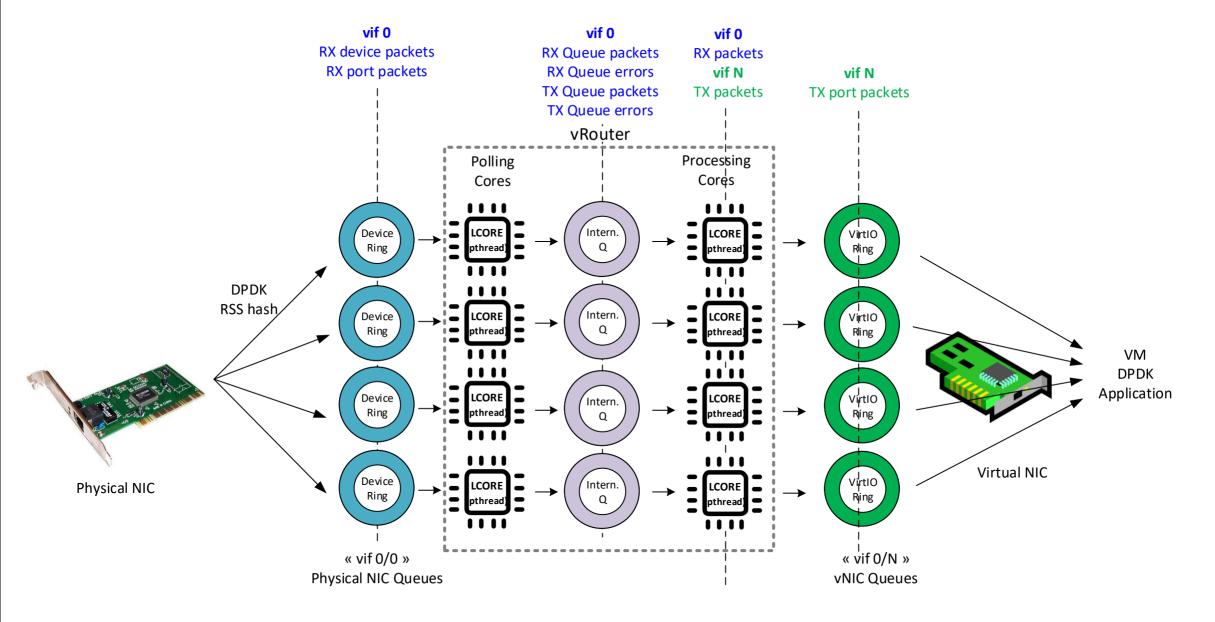
| Title: UDP to MultiQ |                  |
|----------------------|------------------|
| version: 1.0         | date: 25/03/2020 |



| Title: GRE to MultiQ |                  |
|----------------------|------------------|
| version: 1.0         | date: 25/03/2020 |

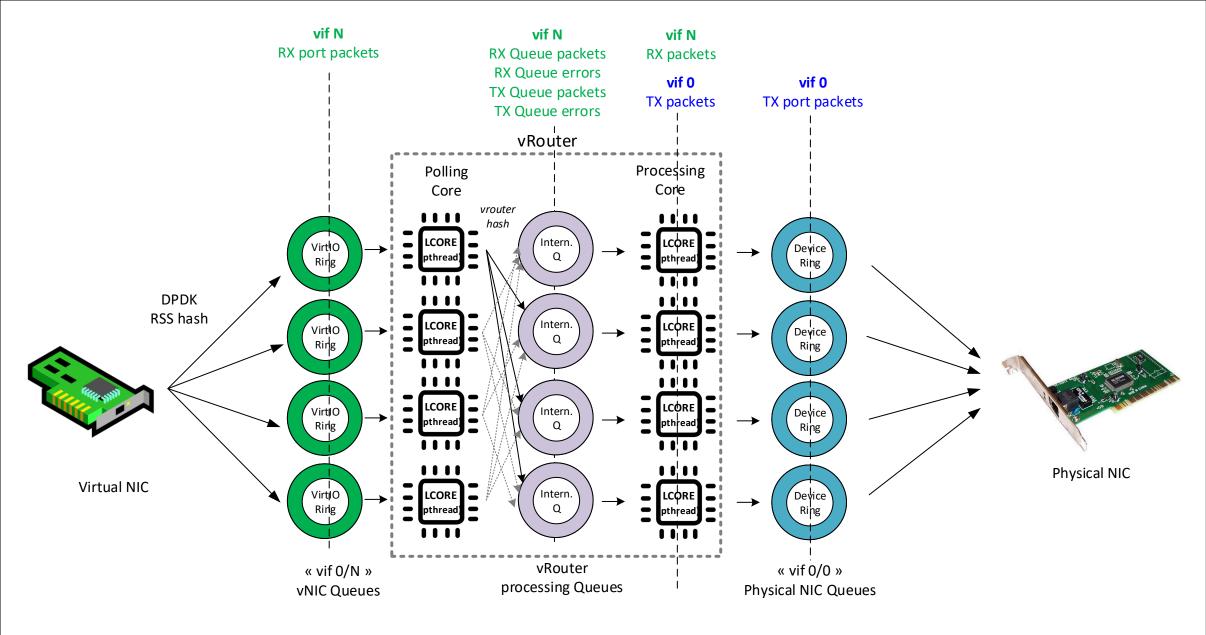


| Title: MultiQ to Underlay |                  |
|---------------------------|------------------|
| version: 1.0              | date: 25/03/2020 |



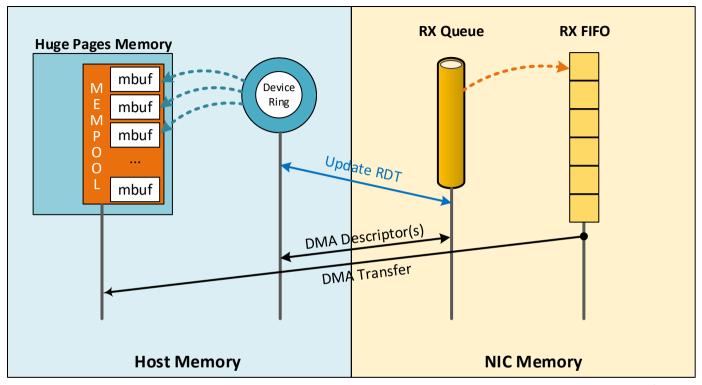
Title: vif counters (phys to virt)

version: 1.0 date: 25/03/2020



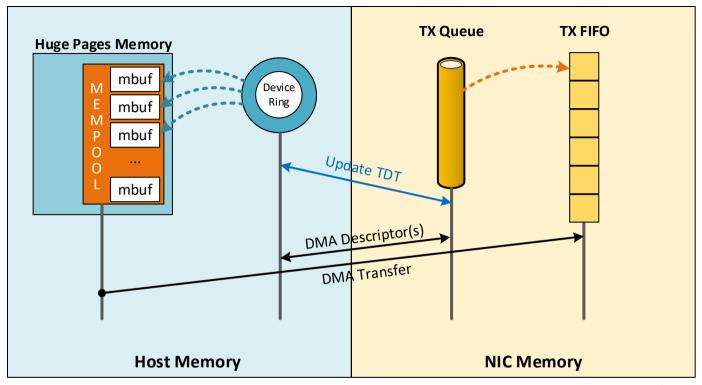
Title: vif counters (virt to phys)

version: 1.0 date: 25/03/2020



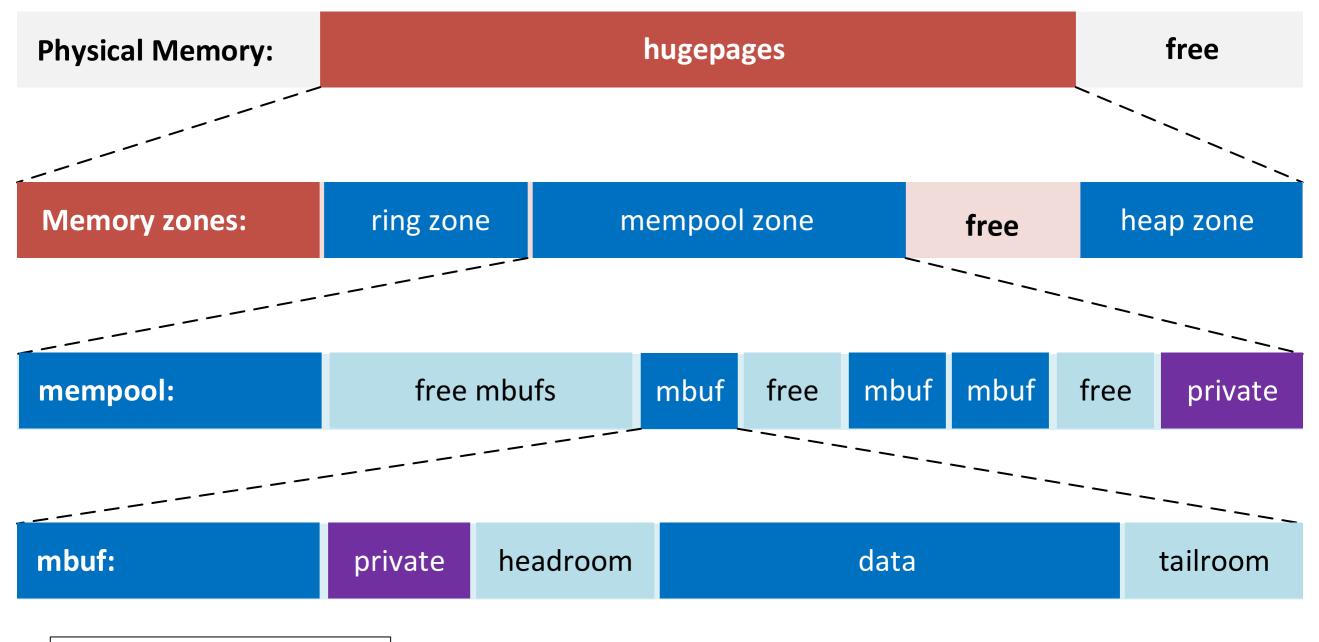
**RDT: Receive Descriptor Tail** 

| Title: pNIC incoming packet |                  |
|-----------------------------|------------------|
| version: 1.0                | date: 25/03/2020 |

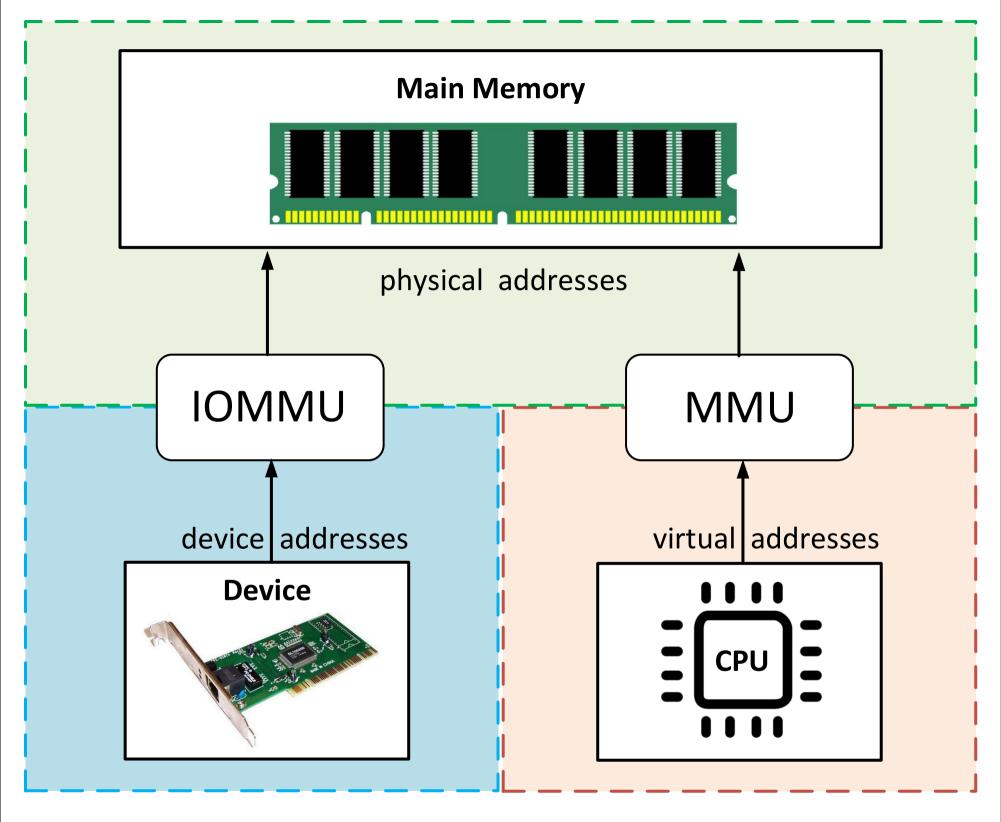


**RDT: Transmit Descriptor Tail** 

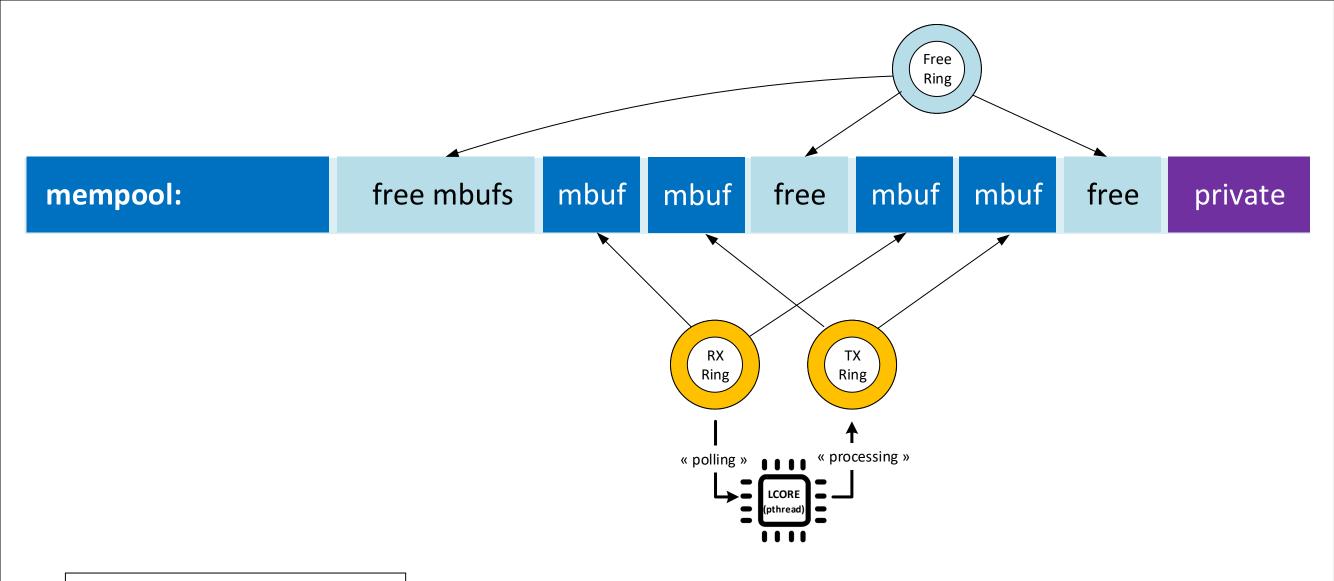
| Title: pNIC outgoing packet |                  |
|-----------------------------|------------------|
| version: 1.0                | date: 25/03/2020 |



| DPDK and Memory |                  |
|-----------------|------------------|
| version: 1.0    | date: 25/03/2020 |



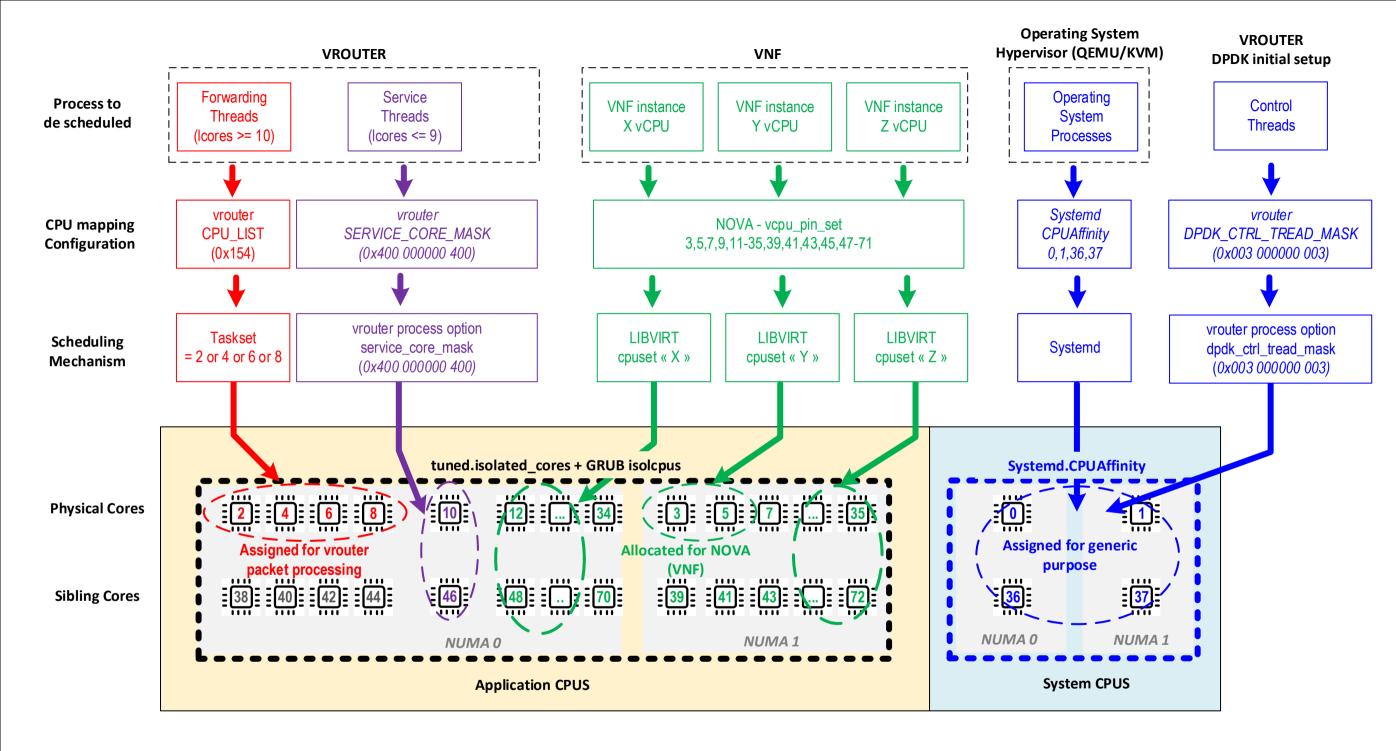
Memory Addressing
version: 1.0 date: 27/03/2020

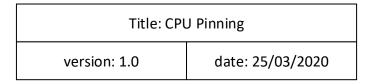


Packets Processing and Memory

version: 1.0

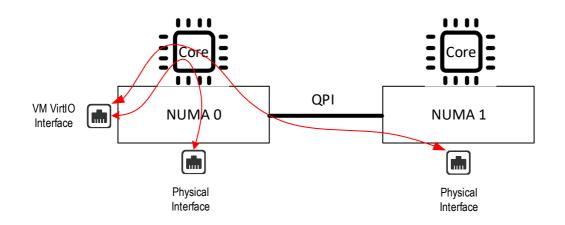
date: 25/03/2020

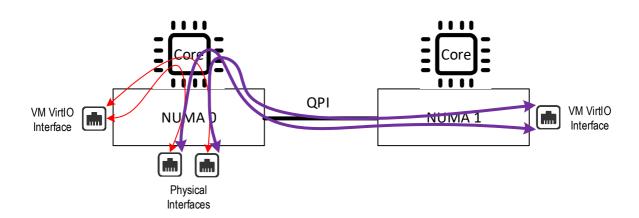




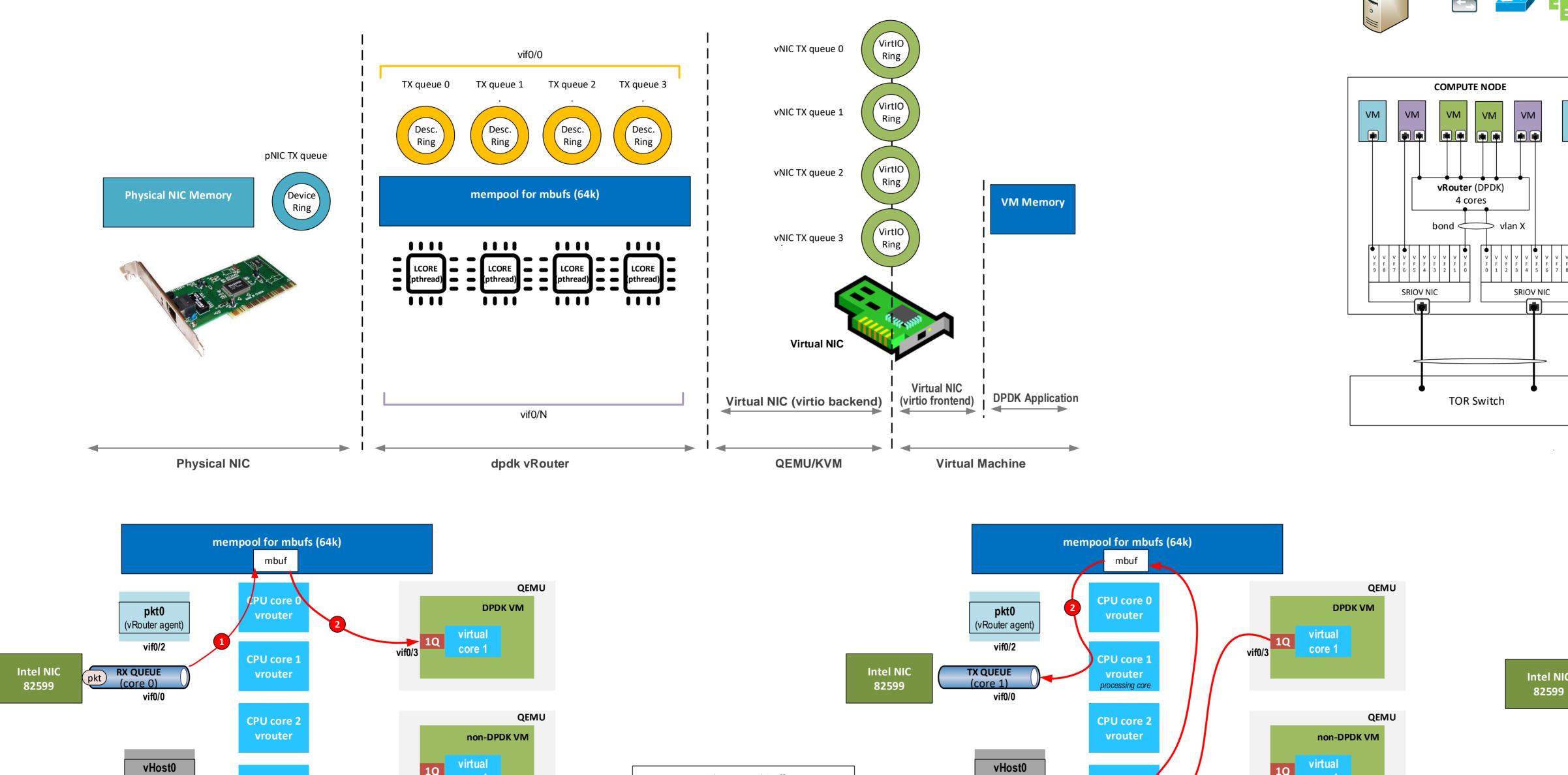
Title: vRouter Memory Access and NUMA

version: 1.0 date: 27/03/2020





| Title: NUMA concern |                  |
|---------------------|------------------|
| version: 1.0        | date: 25/03/2020 |



Title: Personal Stuff

version: 1.0

date: 25/03/2020

core 1

vif0/4

(host kernel)

CPU core 3

vrouter



vif0/4

(host kernel)

vif0/1

**CPU** core

vrouter polling core

core 1













