```
Network
                   +----+
     | IPCHAINS | IPTABLES |
| INPUT | PREROUTING |
+----+ | +----+ |
                   || conntrack ||
                    | +-----
                    | | mangle | | <- MARK WRITE
                    | +-----
                    | +----+ |
                    | | nat | | <- DEST REWRITE
                    +-----+ DNAT or REDIRECT or DE-MASQUERADE
                 +----+
             QOS
             INGRESS
             +----+
     packet is for +-----+ packet is for
     this machine | INPUT | another address
    +----+ ROUTING +-----+
            + PDBB
            +----+
+----+
IPTABLES
INPUT
| +----+ |
| | mangle | |
| +----+ |
|| filter ||
| +----+ |
+----+
Local
                  +----+
                                  +----+
                  IPCHAINS
                                  IPTABLES
Process
+----+
                  FORWARD
                                   FORWARD
                                   | +----+ |
                                   | | mangle | | <- MARK WRITE
+----+
OUTPUT
                                    +----+
                                    || filter ||
ROUTING
                                    | +----+ |
+----+
IPTABLES
OUTPUT
| +-----
| conntrack | |
| +----+ |
| | mangle | | <- MARK WRITE
| +----+ |
| | nat | | <-DEST REWRITE
| +----+ | DNAT or REDIRECT
|| filter ||
| +----+ |
+----+
        IPCHAINS
                       IPTABLES
         OUTPUT
                    POSTROUTING
                    | +----+
                    | | mangle | | <- MARK WRITE
                    | +-----
                    | | nat | | <- SOURCE REWRITE
                    | +-----
                                   SNAT or MASQUERADE
                    | IMQ | |
                    | +-----
                QOS
                 EGRESS
                Network
```