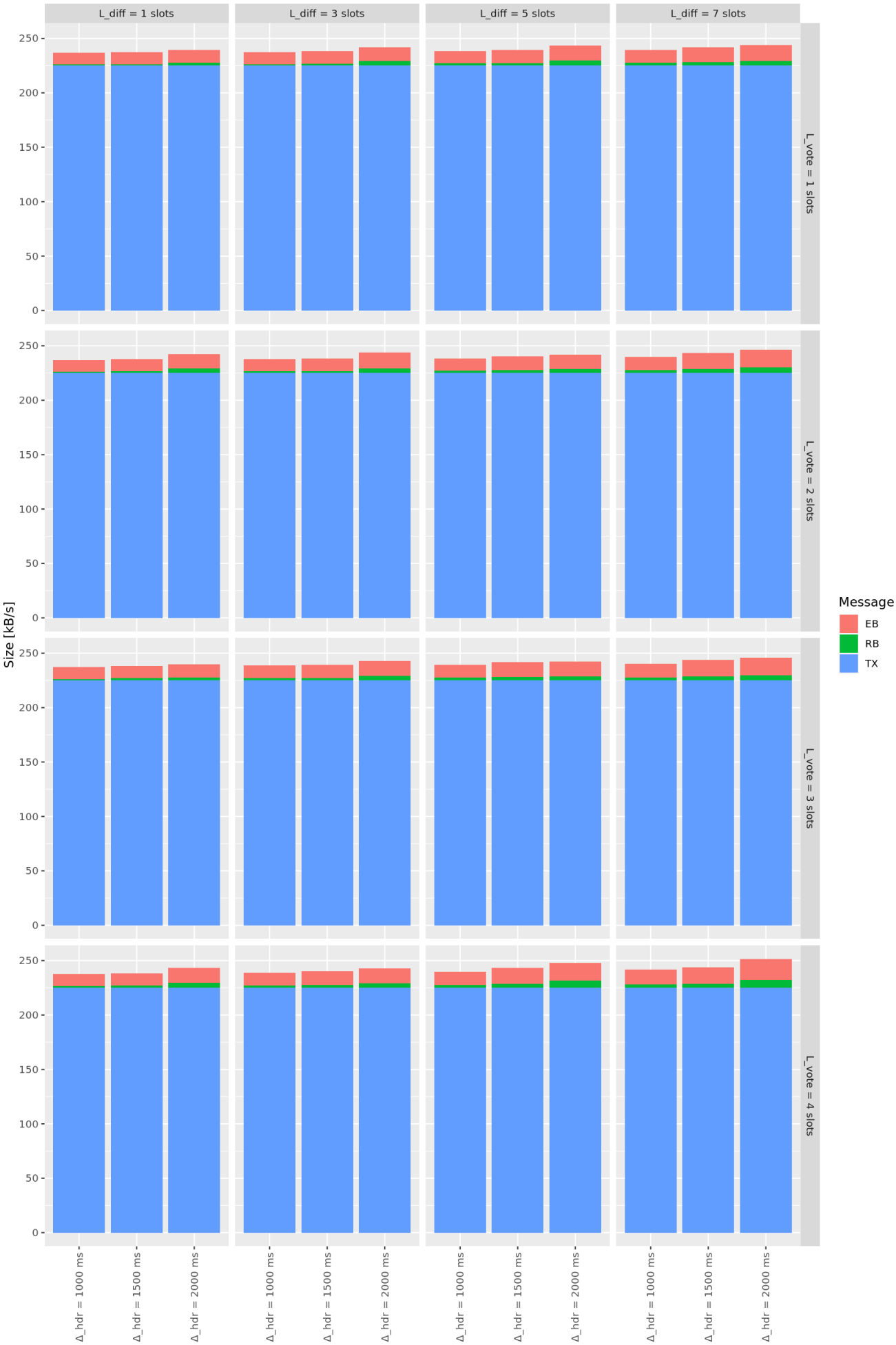
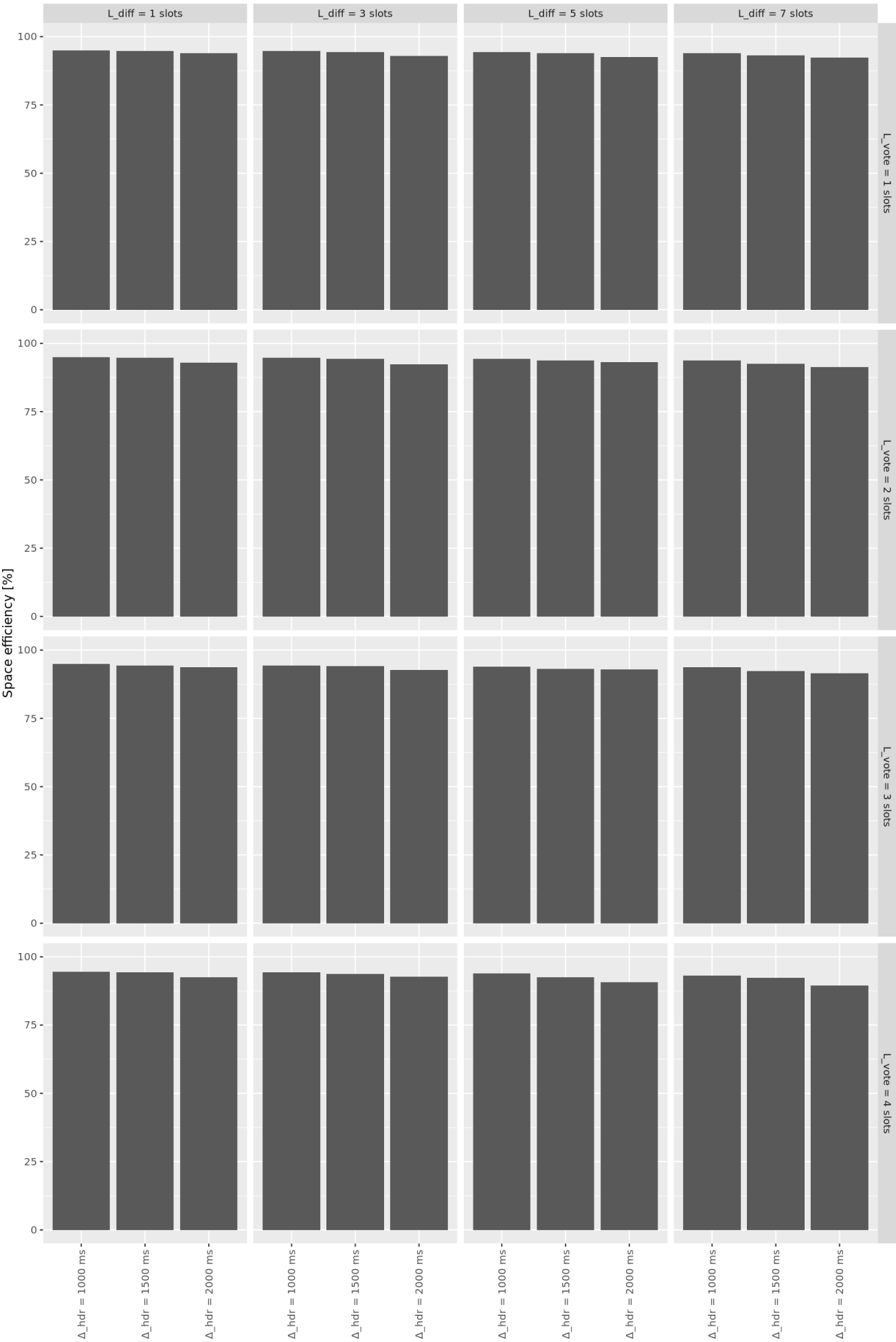
Size of diffused data

topology-v2, 10 Mb/s, 4 vCPU/node, 12 MB/EB, 1500 B/Tx, 0.150 TxMB/s



Spatial efficiency (size of txs on ledger / size of non-tx persisted data)

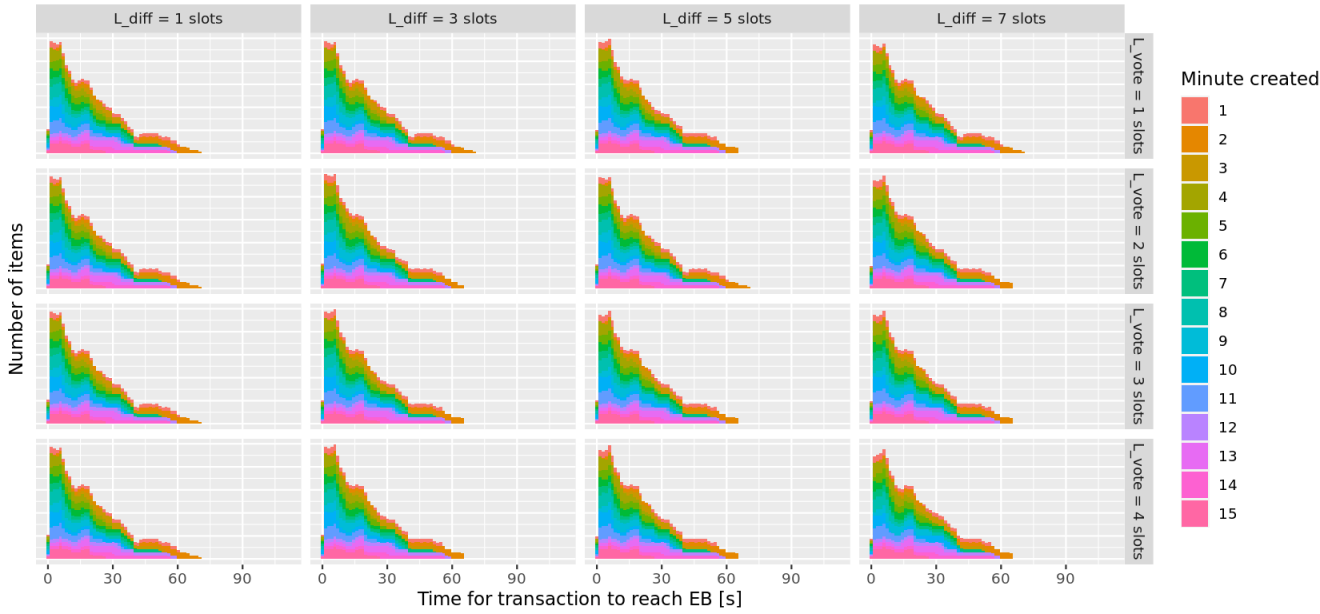
topology-v2, 10 Mb/s, 4 vCPU/node, 12 MB/EB, 1500 B/Tx, 0.150 TxMB/s



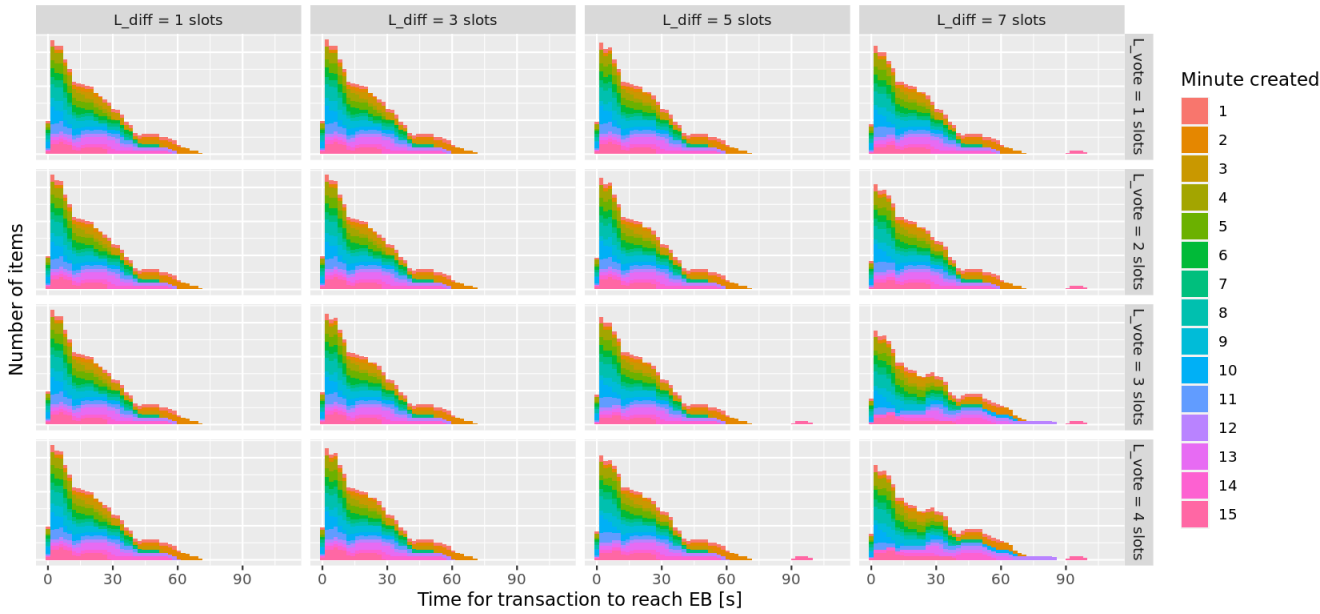
Time for transaction to reach an EB

topology-v2, 10 Mb/s, 4 vCPU/node, 12 MB/EB, 1500 B/Tx, 0.150 TxMB/s

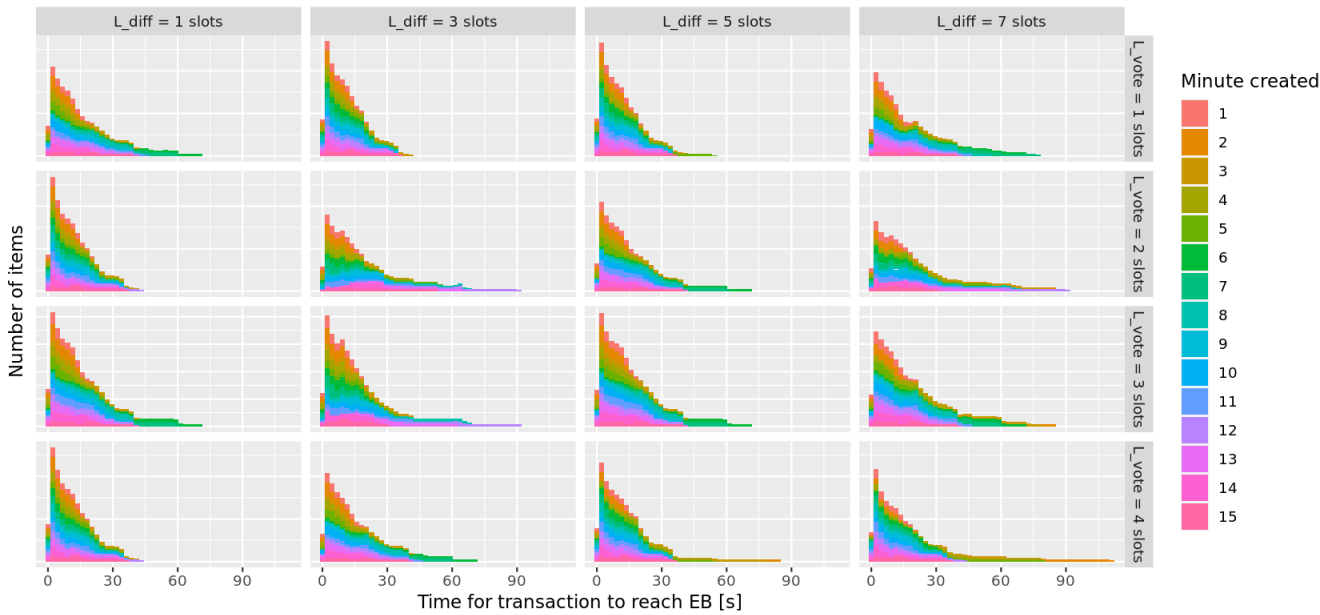
Δ_hdr = 1000 ms



Δ_hdr = 1500 ms



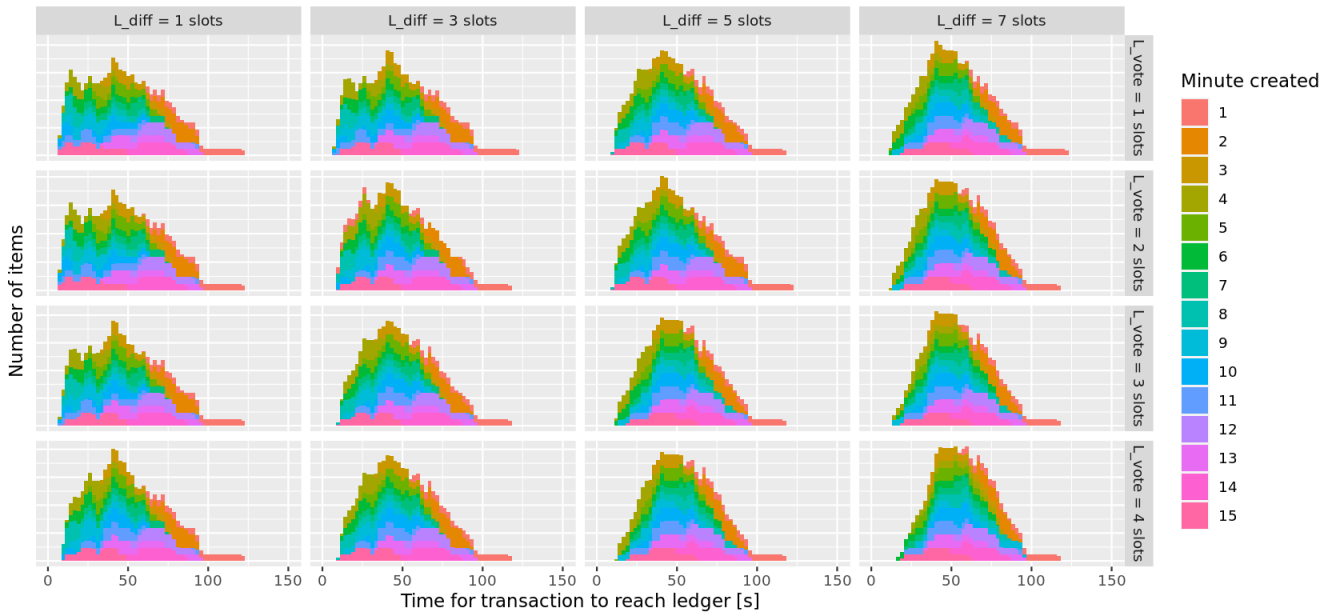
Δ_hdr = 2000 ms



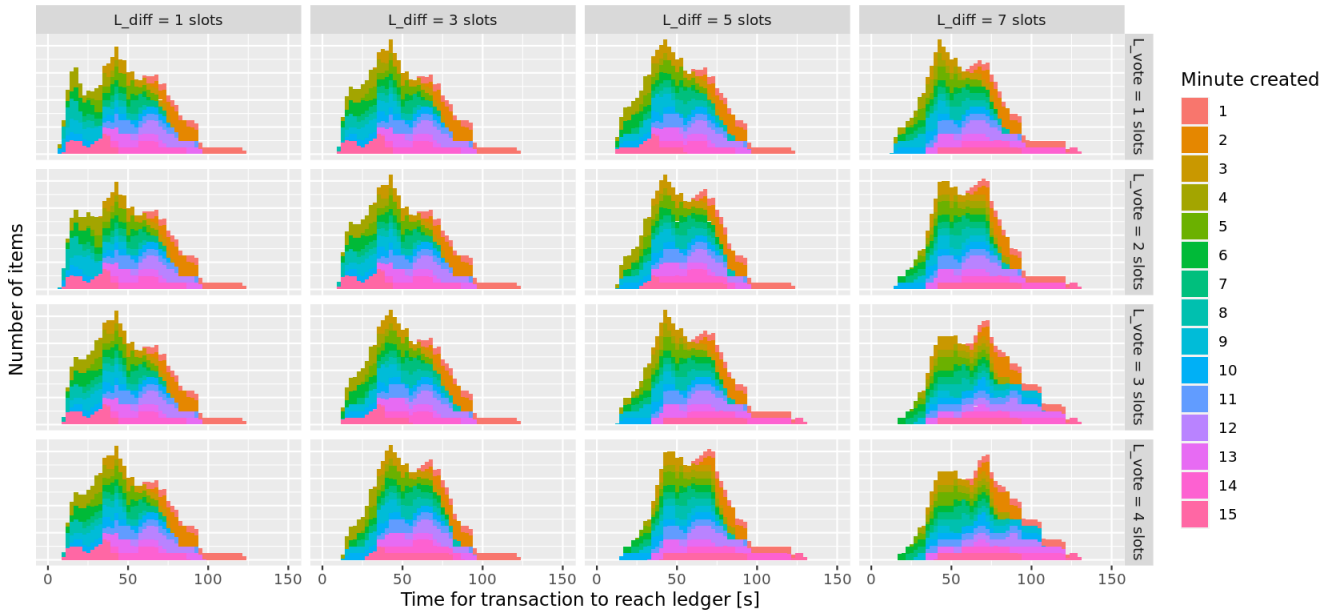
Time for transaction to reach the ledger

topology-v2, 10 Mb/s, 4 vCPU/node, 12 MB/EB, 1500 B/Tx, 0.150 TxMB/s

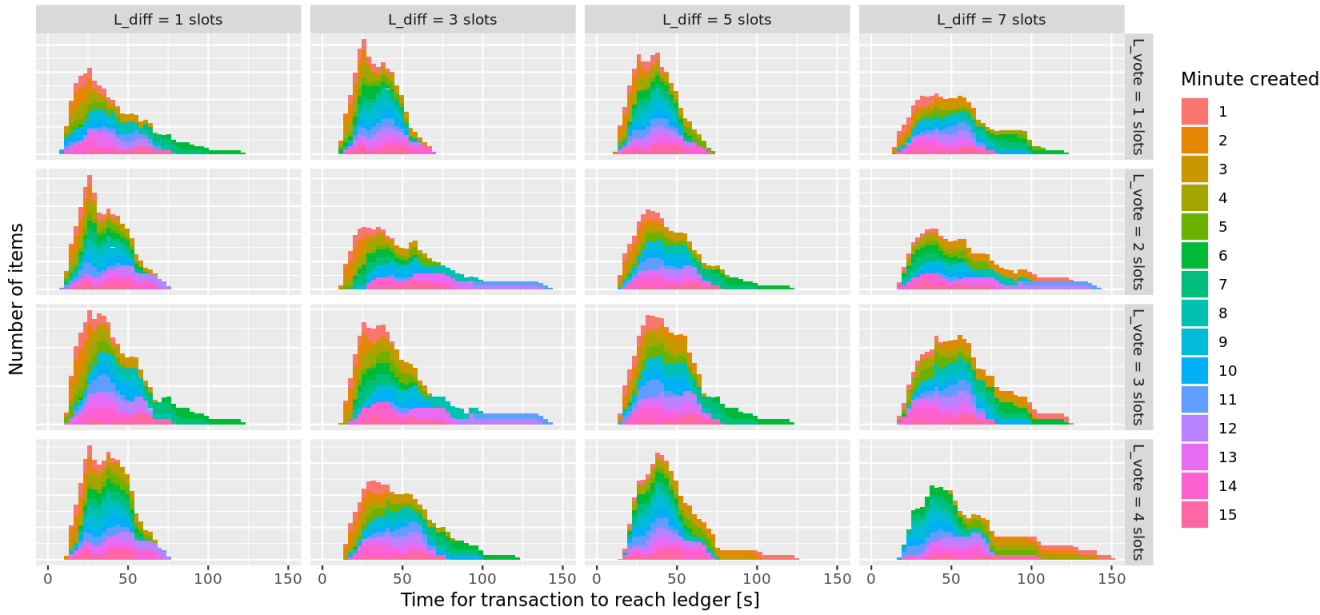
Δ_hdr = 1000 ms



Δ_hdr = 1500 ms

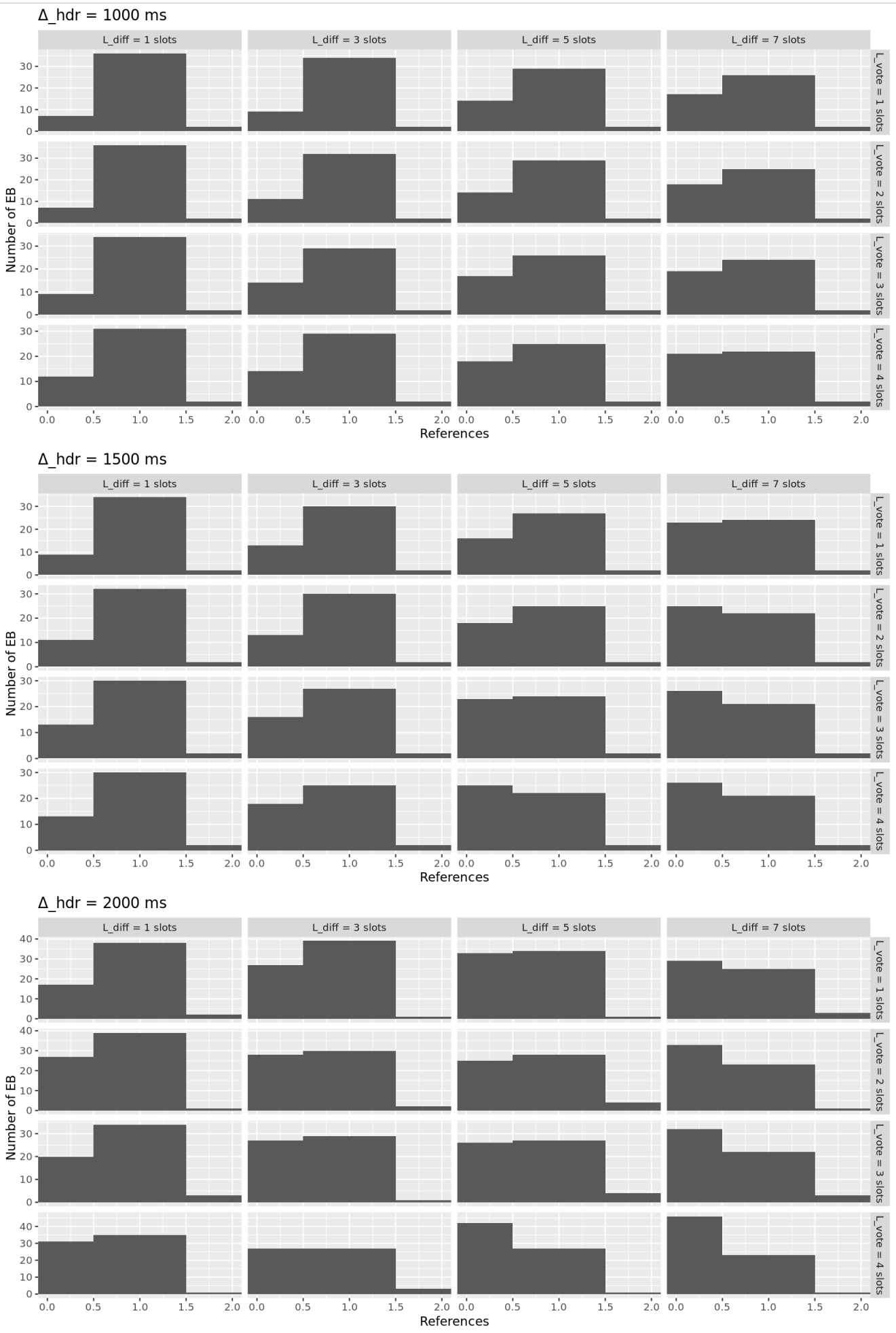


Δ_hdr = 2000 ms



Number of EB references (0 = not used, 2+ = duplicated)

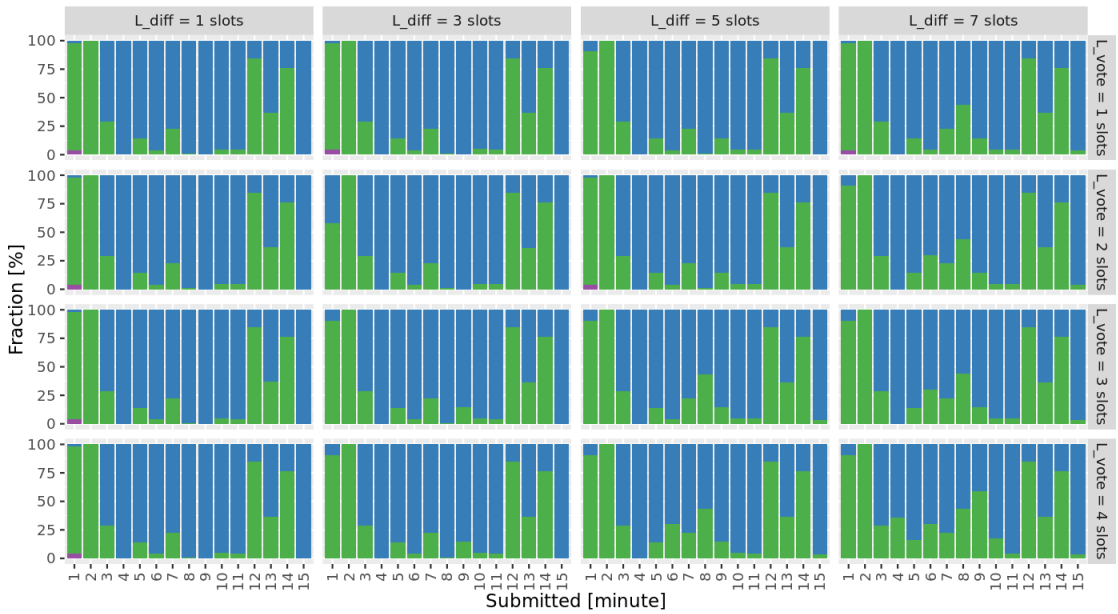
topology-v2, 10 Mb/s, 4 vCPU/node, 12 MB/EB, 1500 B/Tx, 0.150 TxMB/s



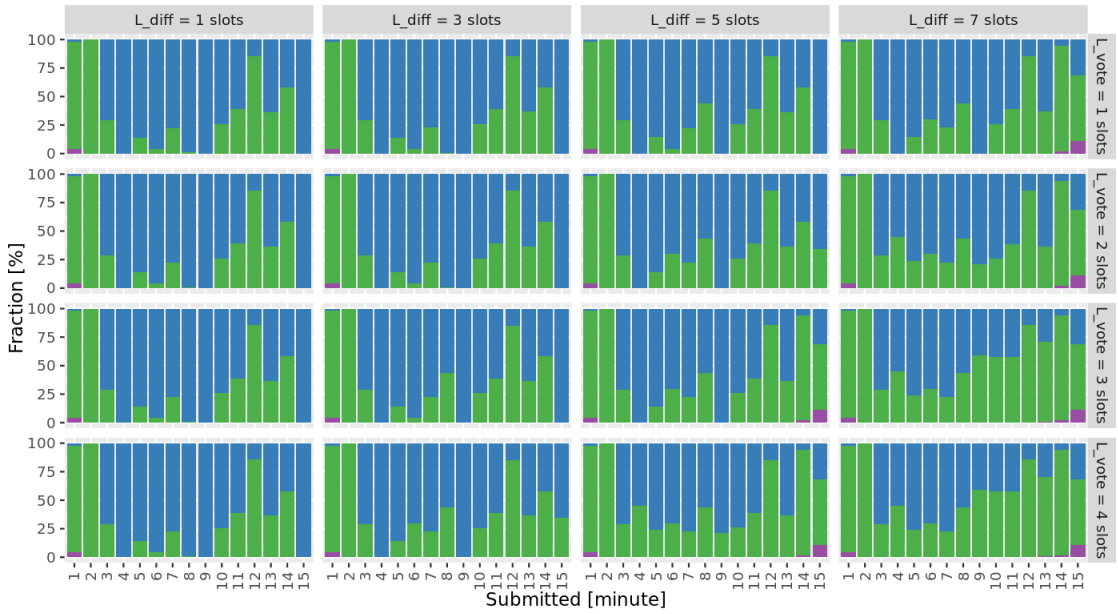
Transactions reaching the ledger

topology-v2, 10 Mb/s, 4 vCPU/node, 12 MB/EB, 1500 B/Tx, 0.150 TxMB/s

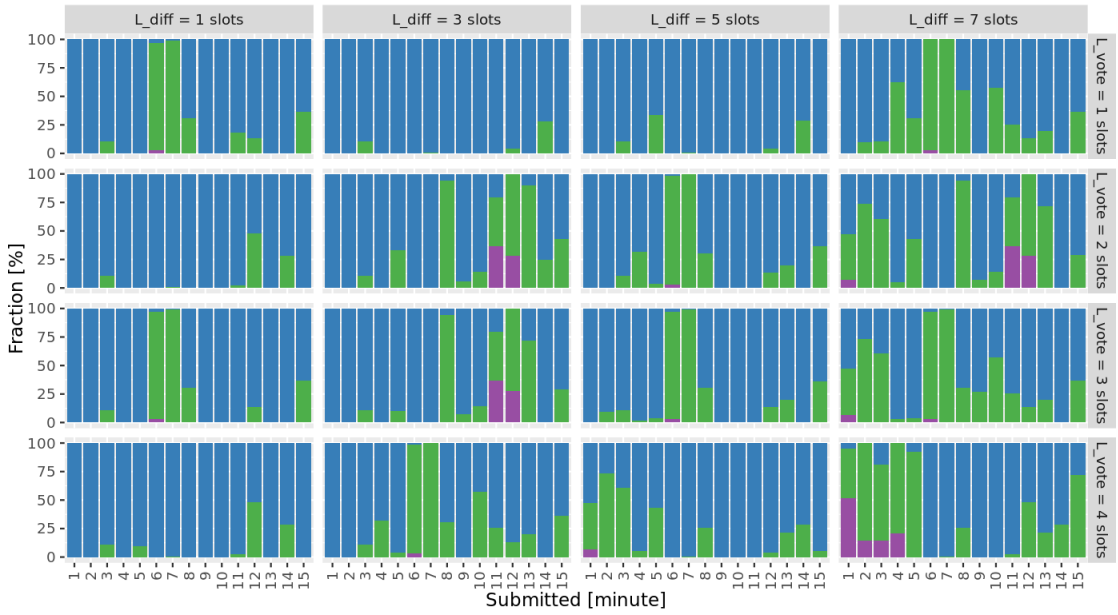
Δ_hdr = 1000 ms



Δ_hdr = 1500 ms

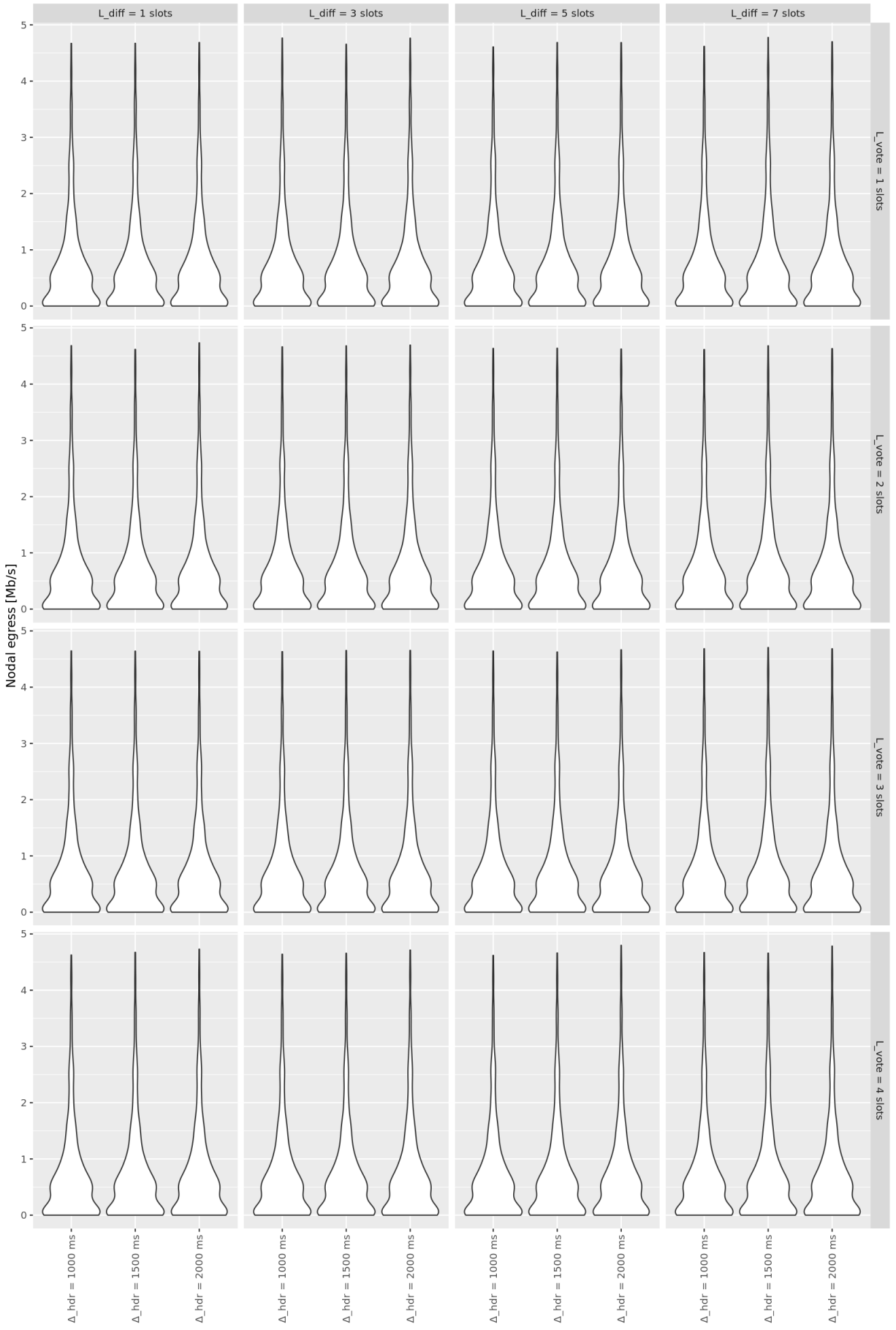


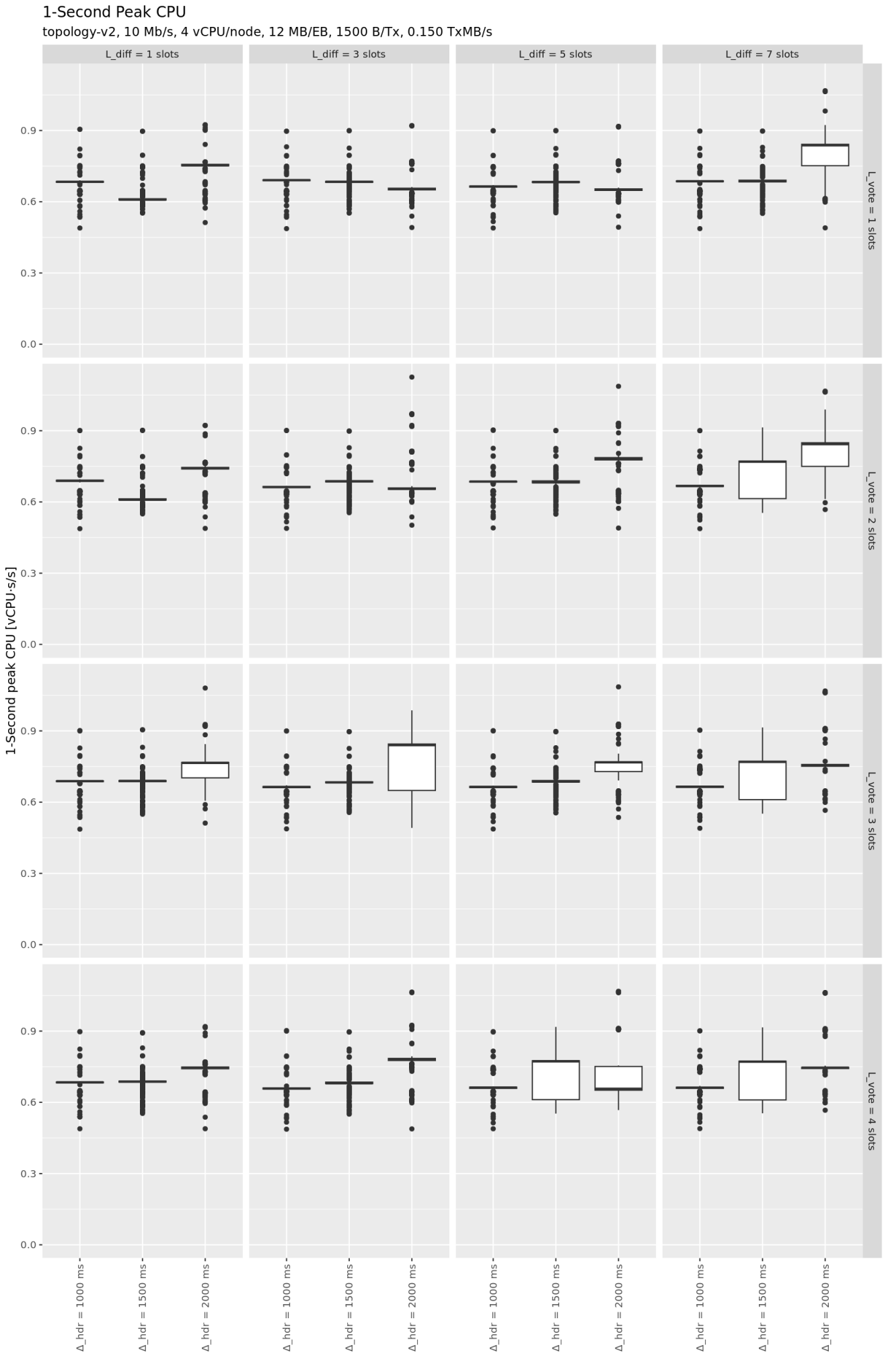
Δ_hdr = 2000 ms



Network

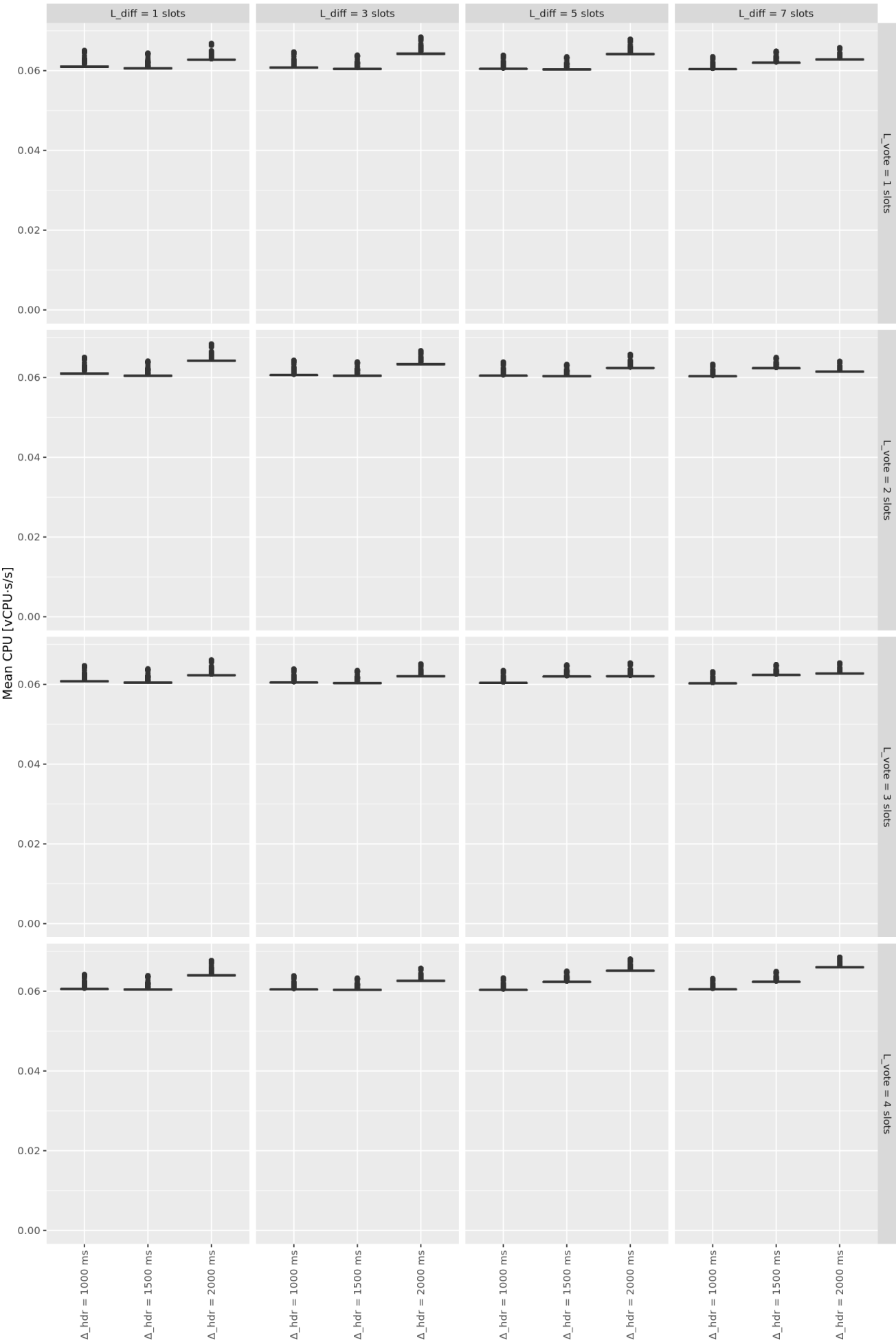
topology-v2, 10 Mb/s, 4 vCPU/node, 12 MB/EB, 1500 B/Tx, 0.150 TxMB/s




1-Second Peak CPU
topology-v2, 10 Mb/s, 4 vCPU/node, 12 MB/EB, 1500 B/Tx, 0.150 TxMB/s
L_diff = 1 slots
L_diff = 3 slots
L_diff = 5 slots
L_diff = 7 slots
L_vote = 1 slots
L_vote = 2 slots
L_vote = 3 slots
L_vote = 4 slots
1-Second peak CPU [vCPU·s/s]
0.0
0.3
0.6
0.9
Δ_hdr = 1000 ms
Δ_hdr = 1500 ms
Δ_hdr = 2000 ms

Mean CPU

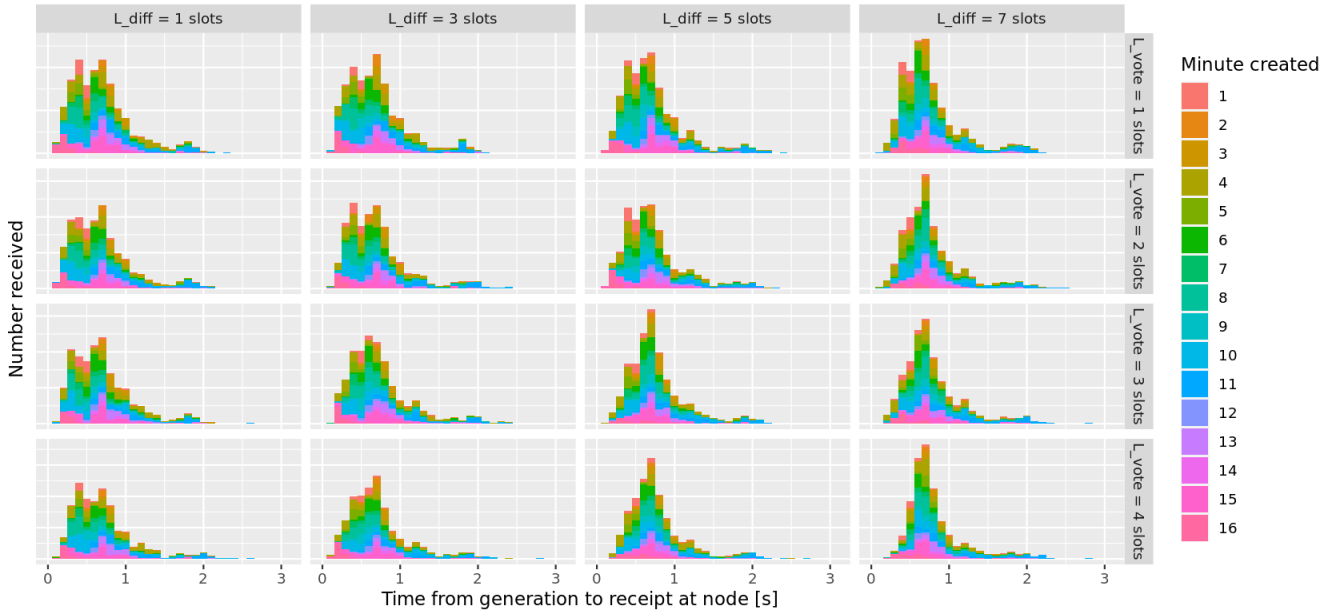
topology-v2, 10 Mb/s, 4 vCPU/node, 12 MB/EB, 1500 B/Tx, 0.150 TxMB/s



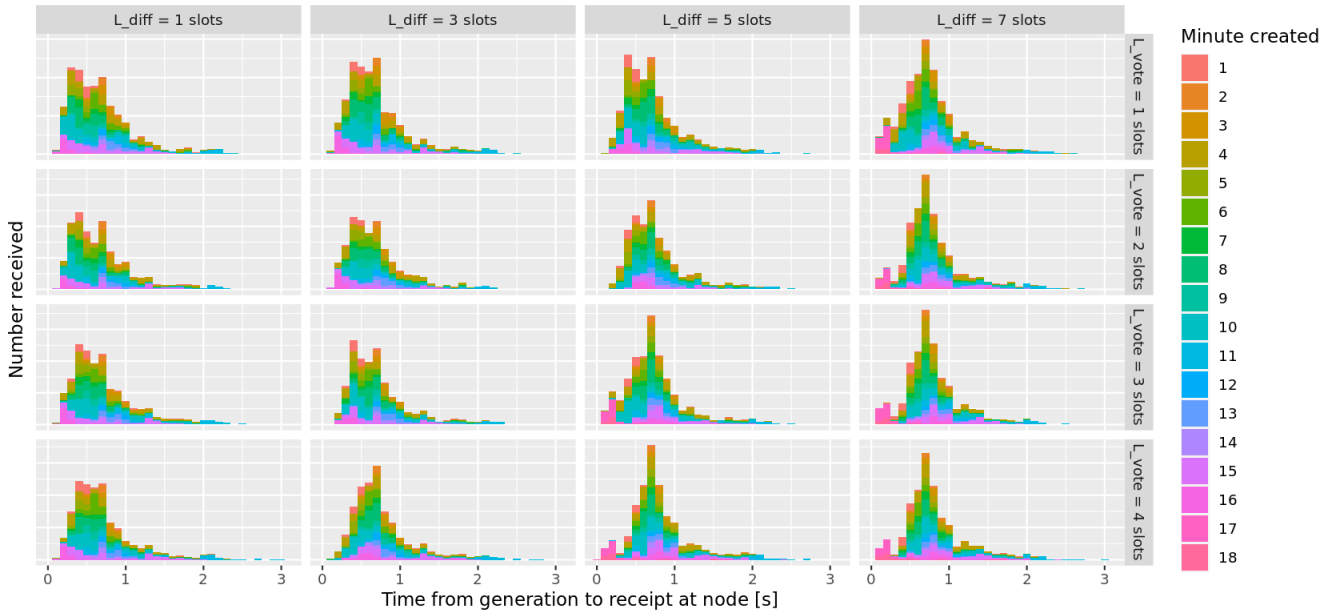
Arrival delay for EB

topology-v2, 10 Mb/s, 4 vCPU/node, 12 MB/EB, 1500 B/Tx, 0.150 TxMB/s

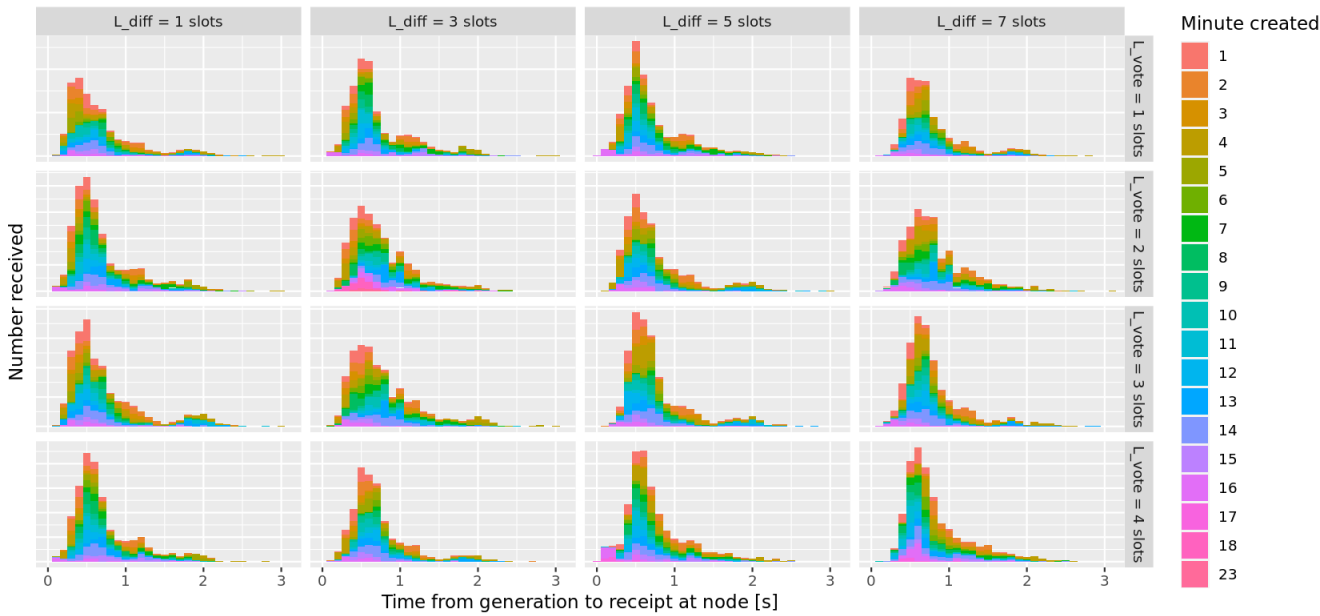
Δ_hdr = 1000 ms



Δ_hdr = 1500 ms



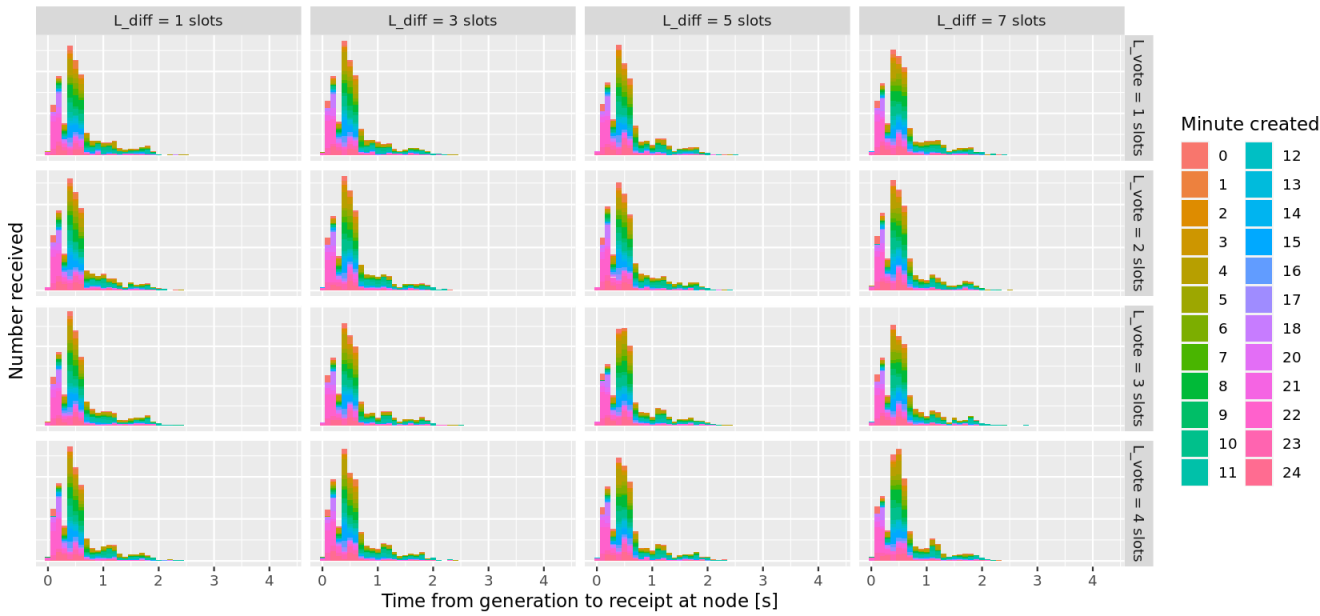
Δ_hdr = 2000 ms



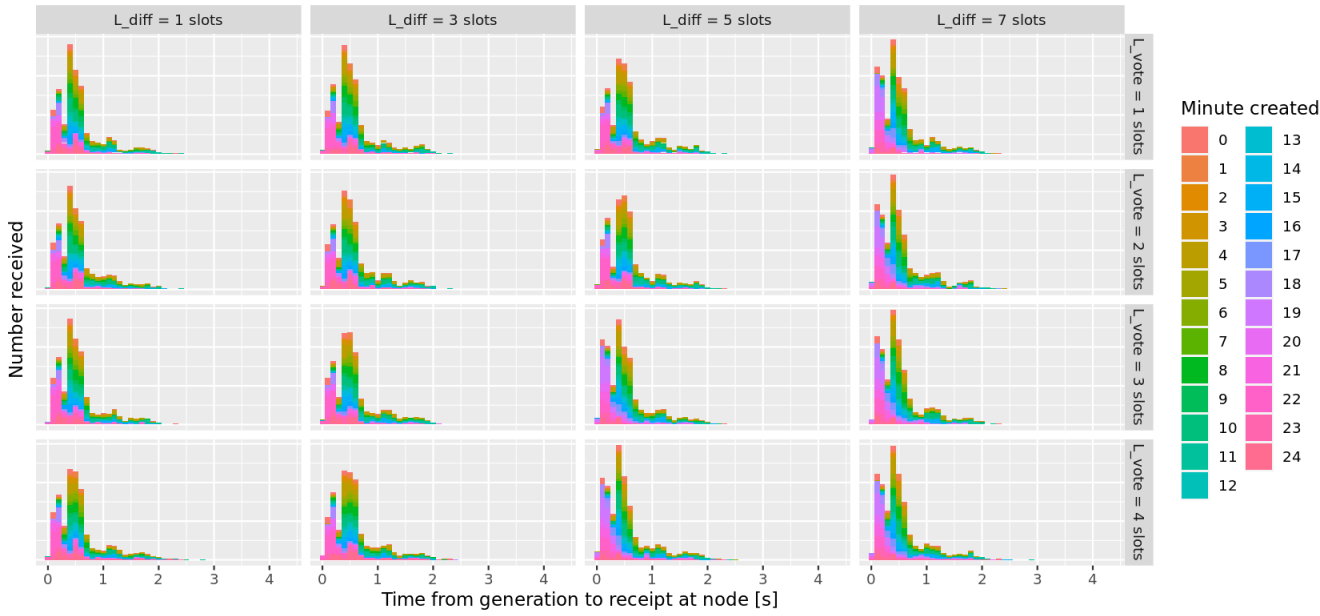
Arrival delay for RB

topology-v2, 10 Mb/s, 4 vCPU/node, 12 MB/EB, 1500 B/Tx, 0.150 TxMB/s

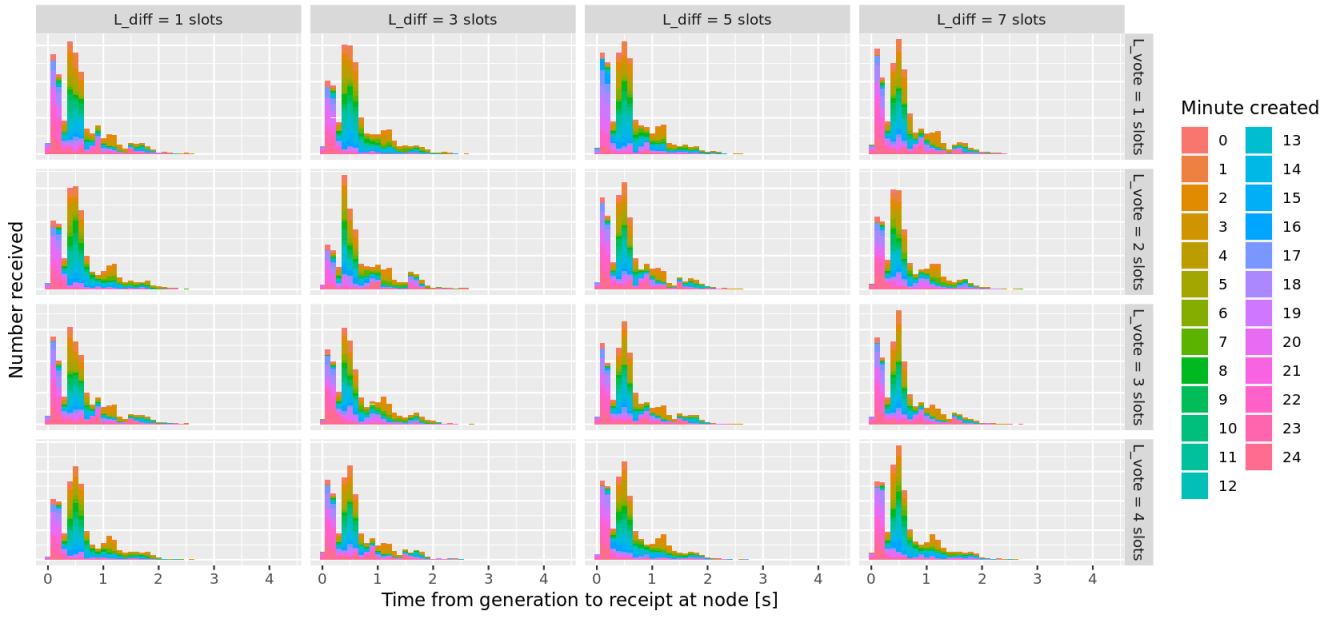
Δ_hdr = 1000 ms



Δ_hdr = 1500 ms



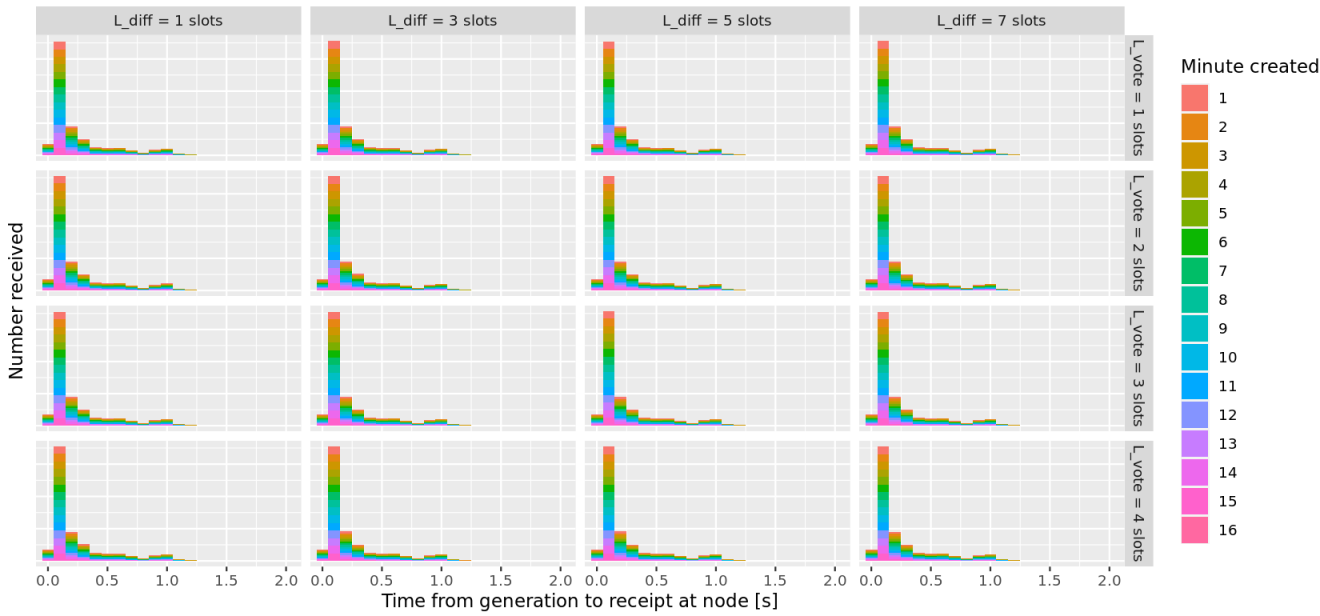
Δ_hdr = 2000 ms



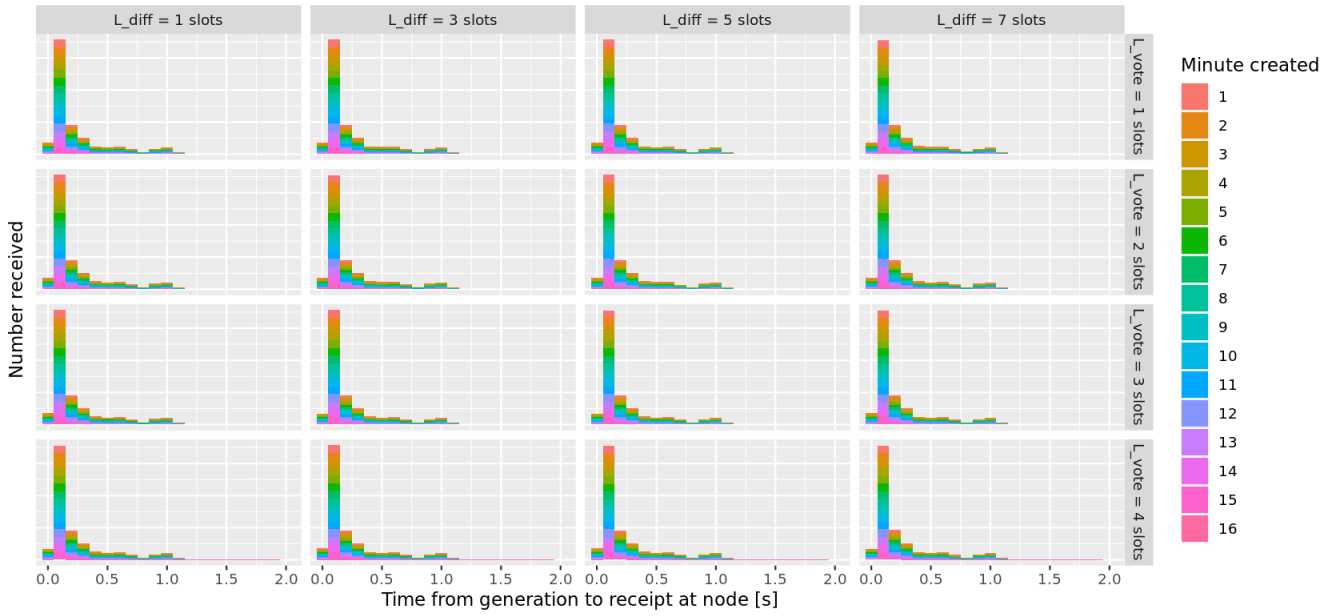
Arrival delay for TX

topology-v2, 10 Mb/s, 4 vCPU/node, 12 MB/EB, 1500 B/Tx, 0.150 TxMB/s

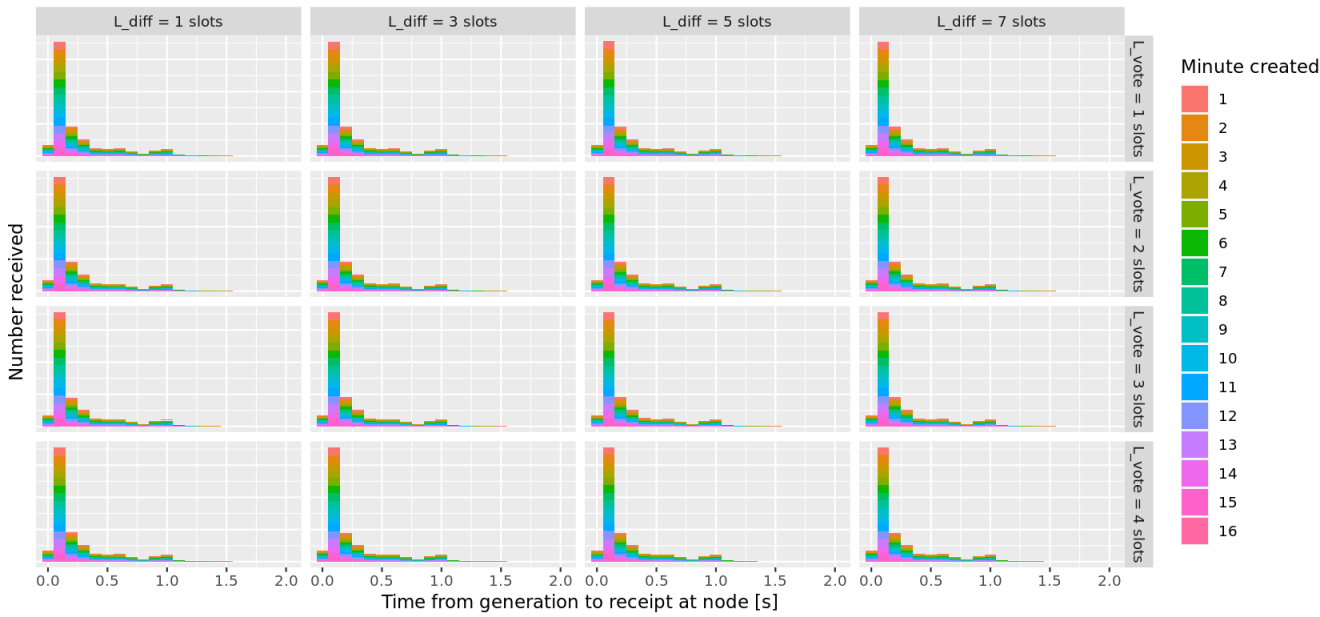
Δ_hdr = 1000 ms



Δ_hdr = 1500 ms



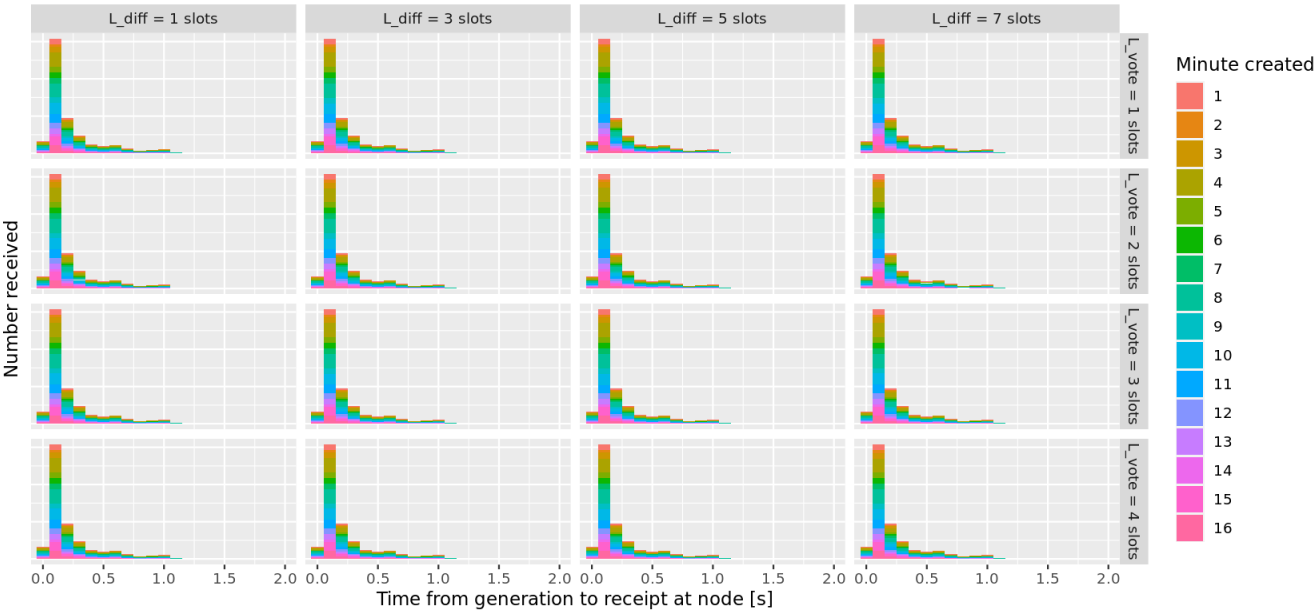
Δ_hdr = 2000 ms



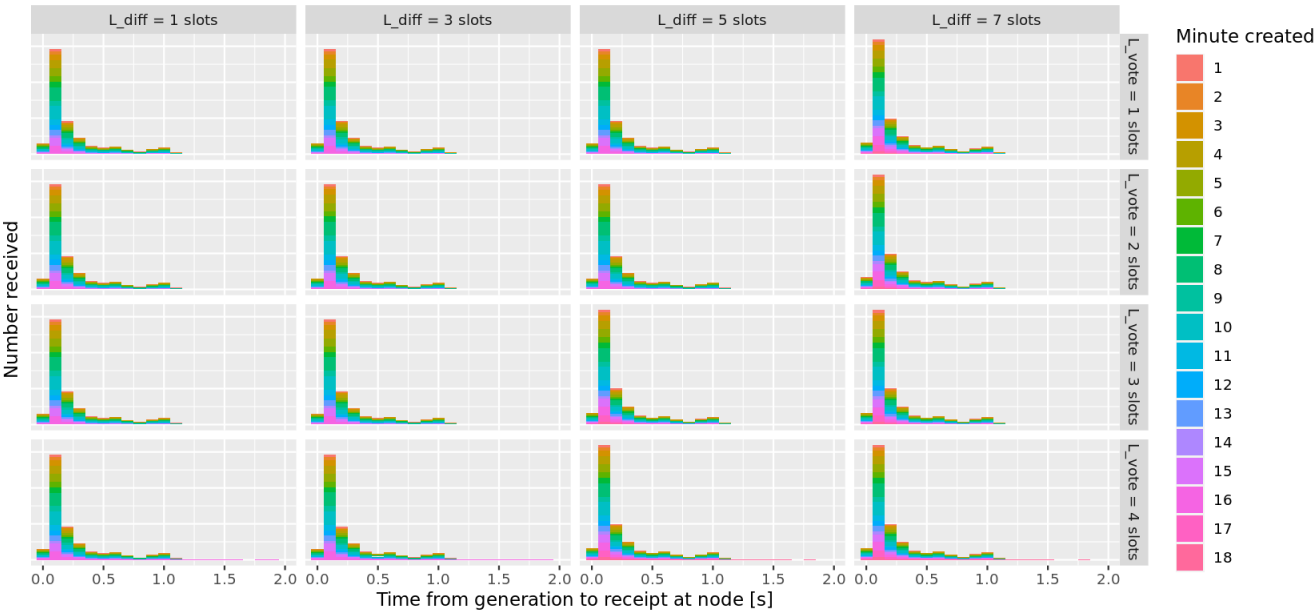
Arrival delay for VT

topology-v2, 10 Mb/s, 4 vCPU/node, 12 MB/EB, 1500 B/Tx, 0.150 TxMB/s

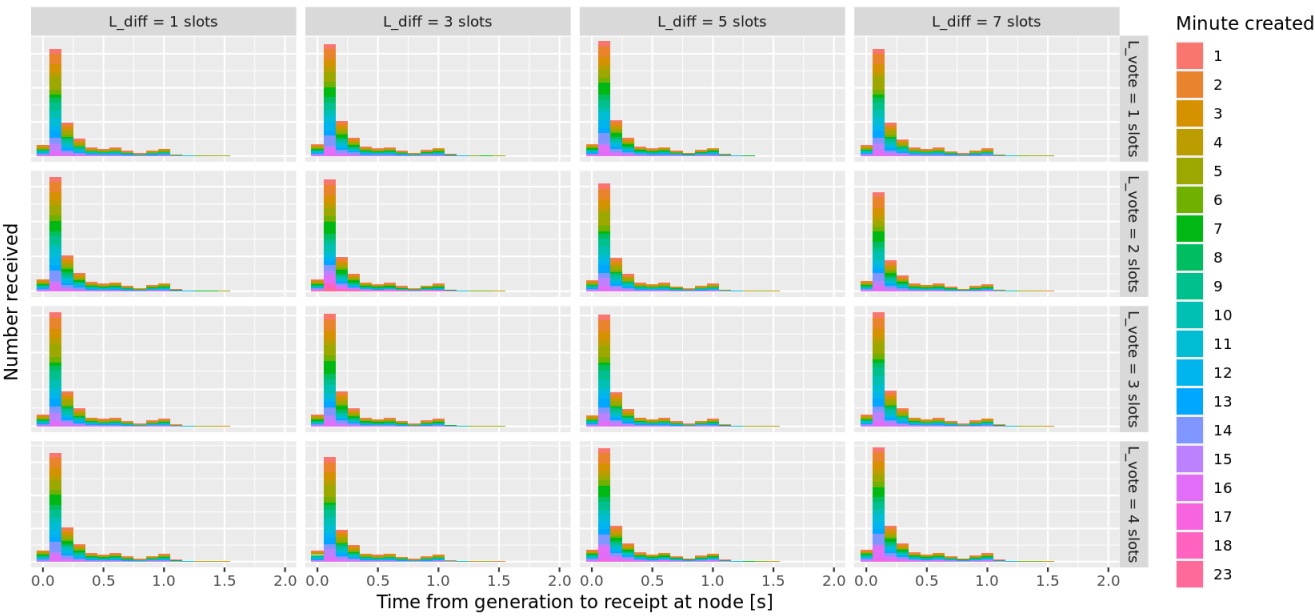
Δ_hdr = 1000 ms



Δ_hdr = 1500 ms

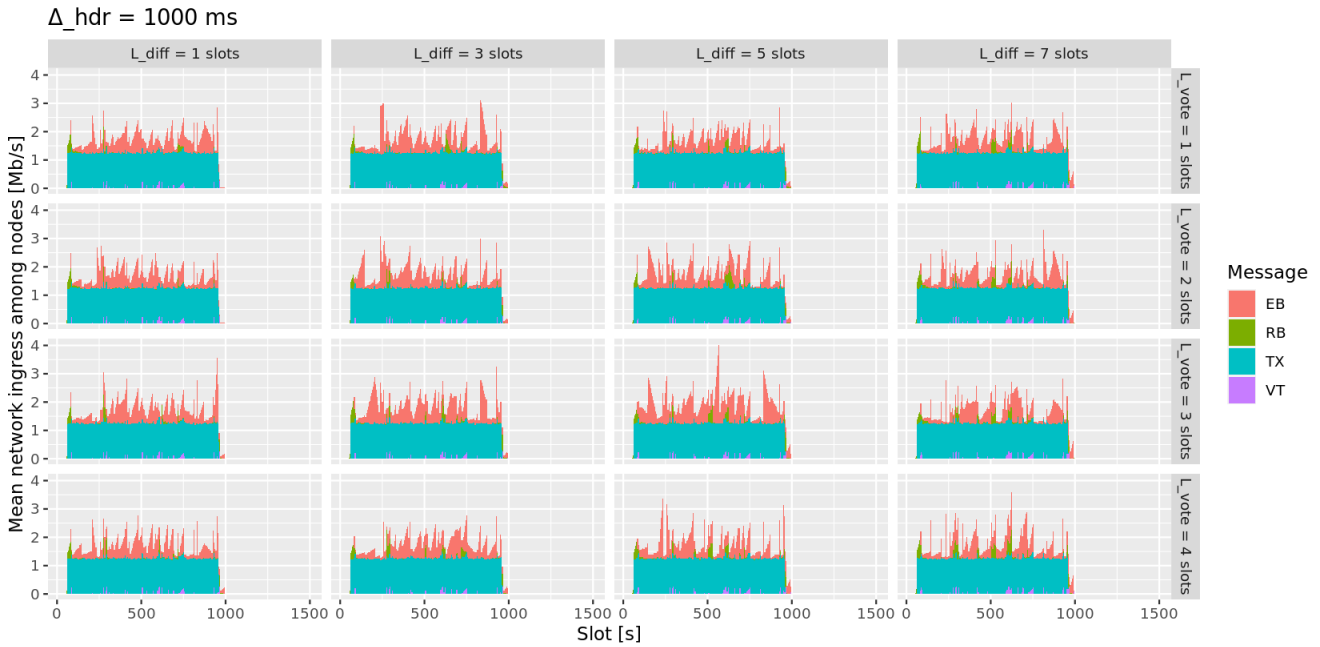


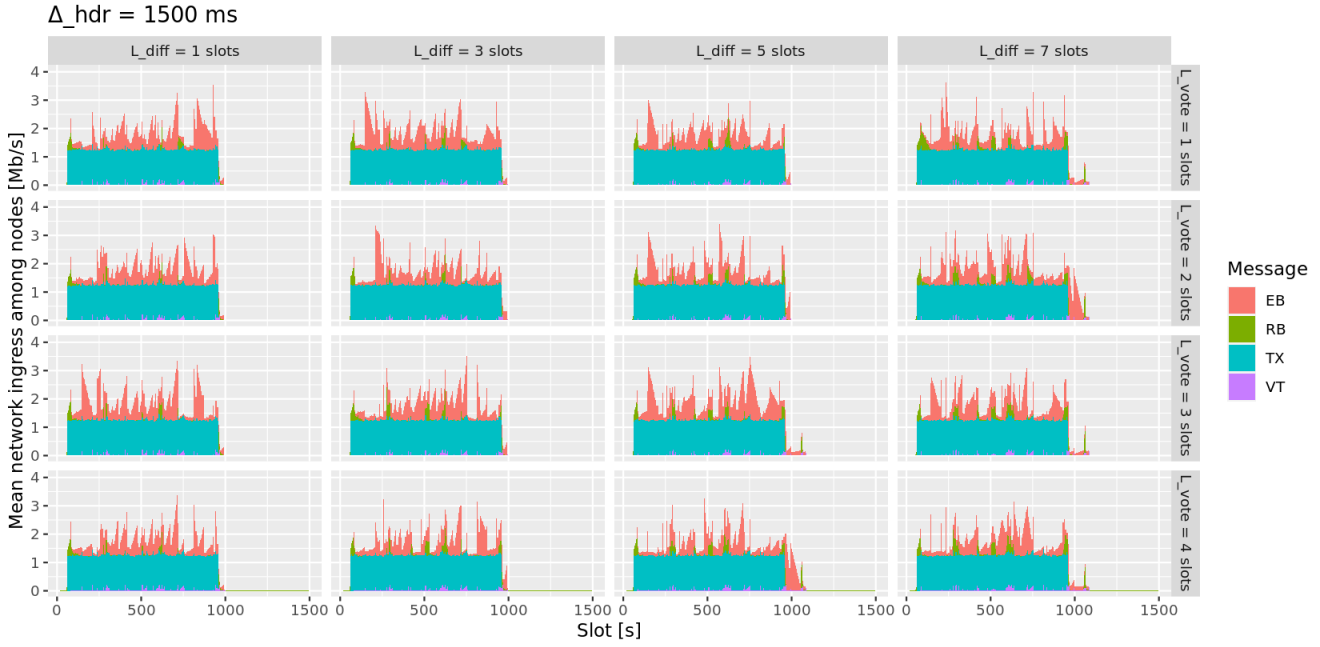
Δ_hdr = 2000 ms

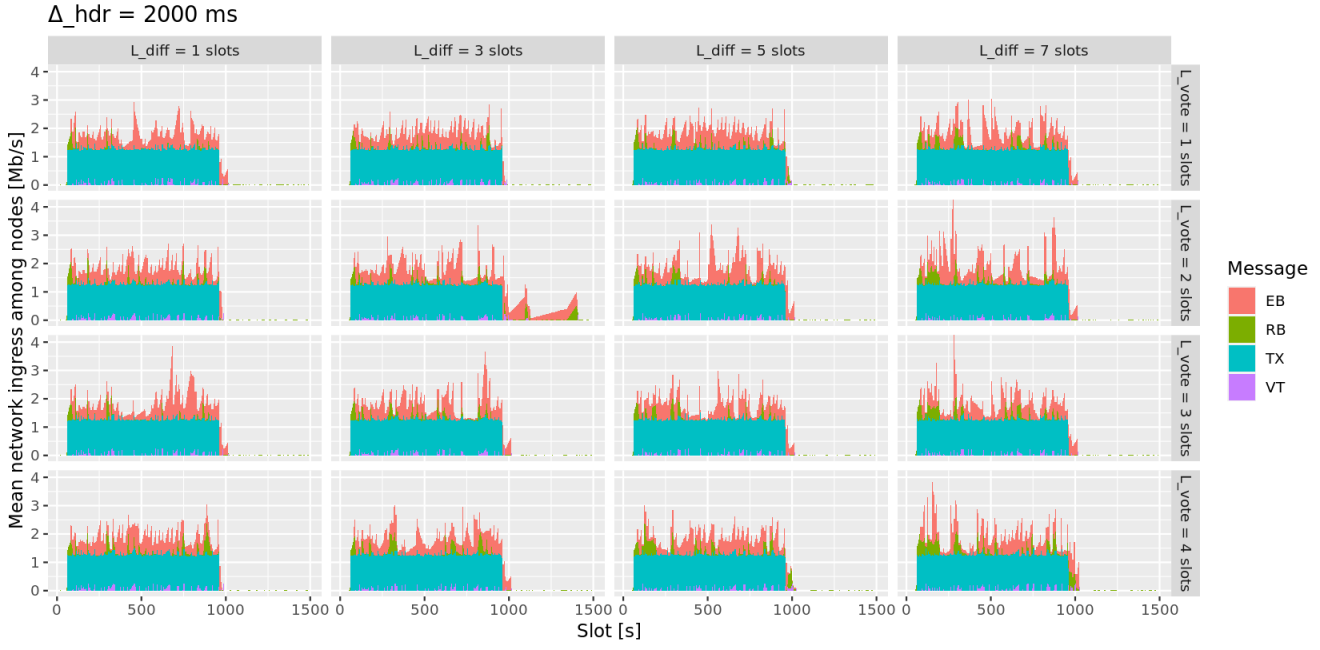


Mean nodal ingress

topology-v2, 10 Mb/s, 4 vCPU/node, 12 MB/EB, 1500 B/Tx, 0.150 TxMB/s



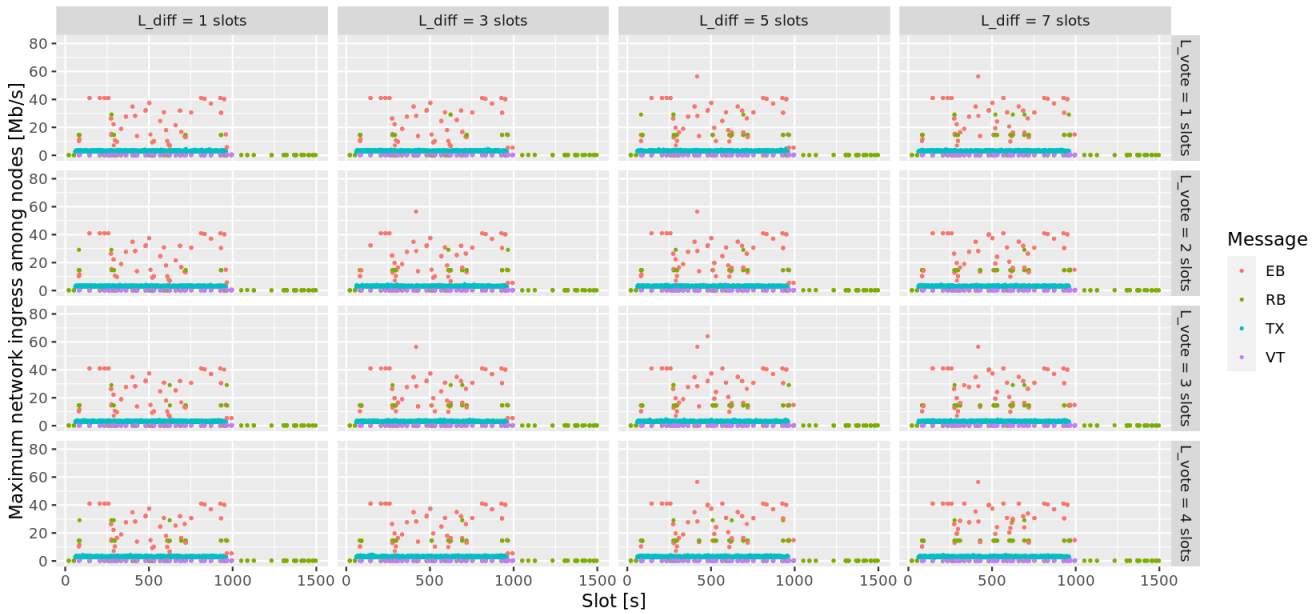




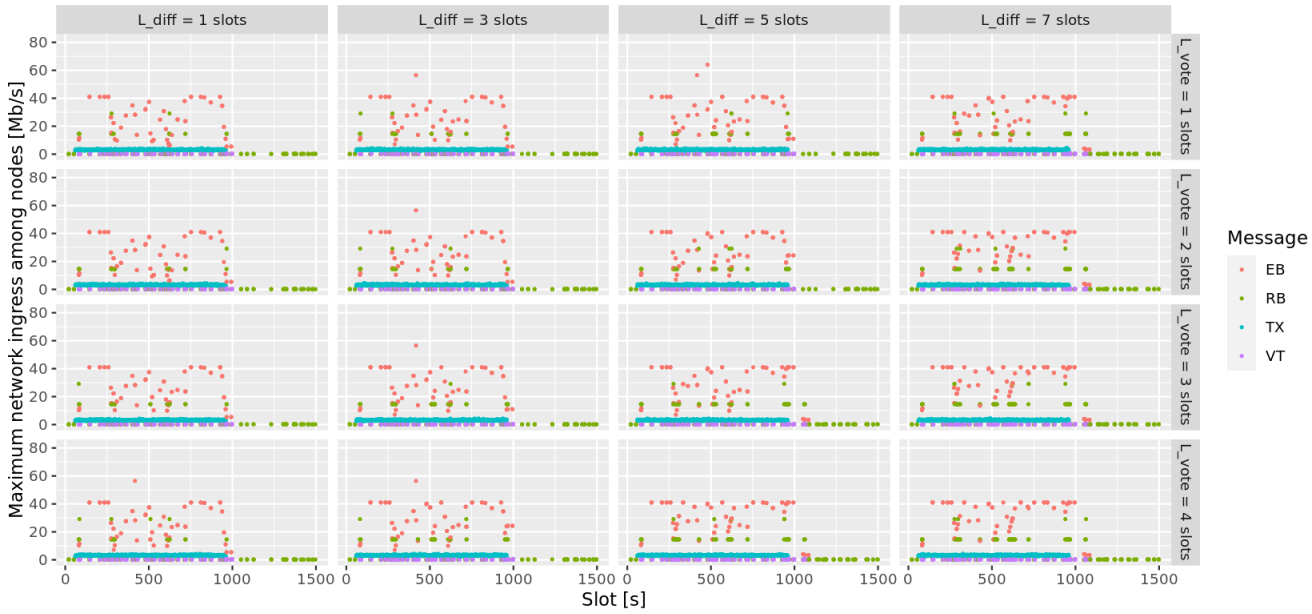
Peak nodal ingress

topology-v2, 10 Mb/s, 4 vCPU/node, 12 MB/EB, 1500 B/Tx, 0.150 TxMB/s

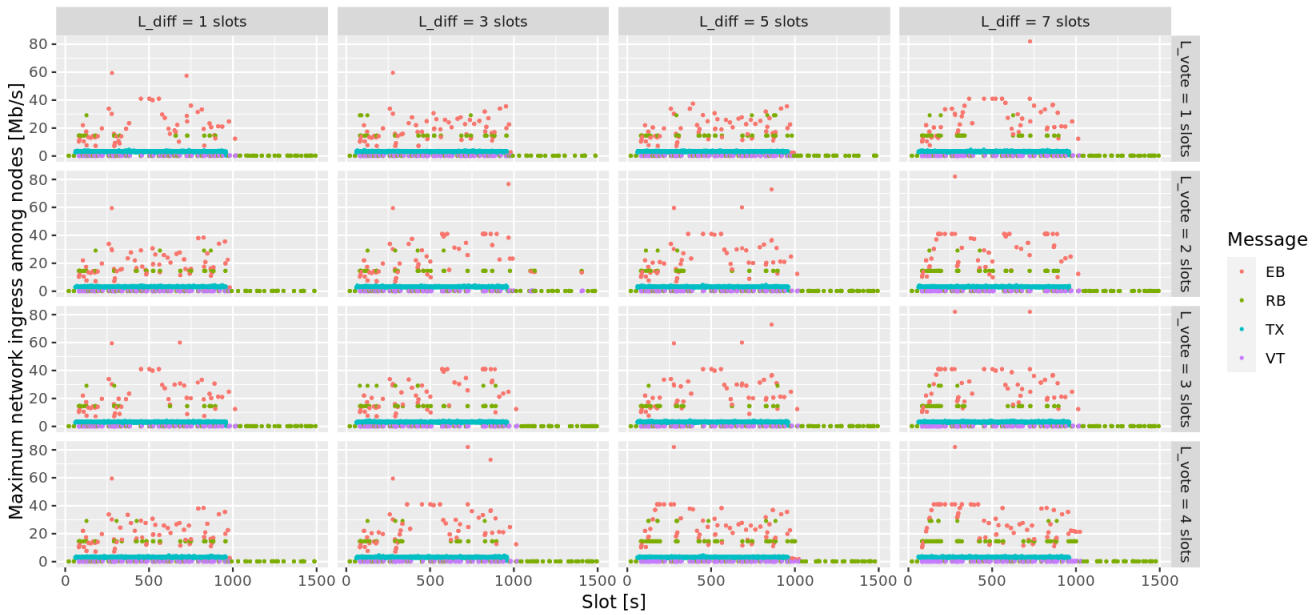
Δ_hdr = 1000 ms



Δ_hdr = 1500 ms

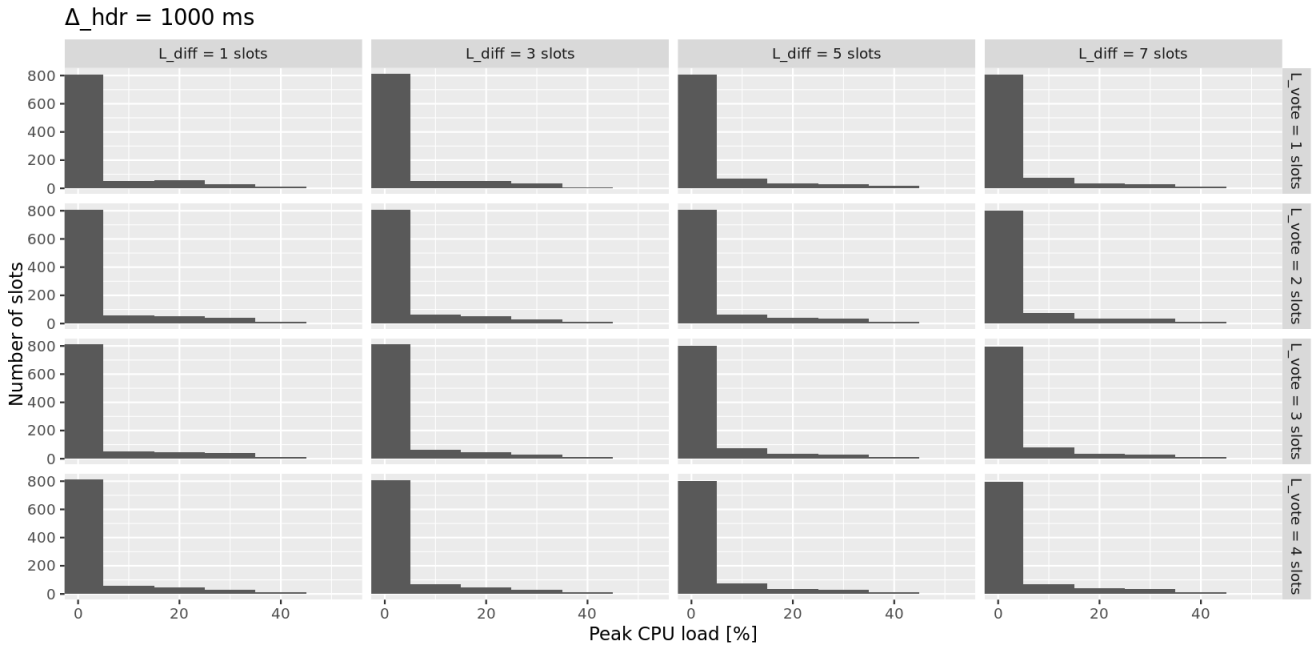


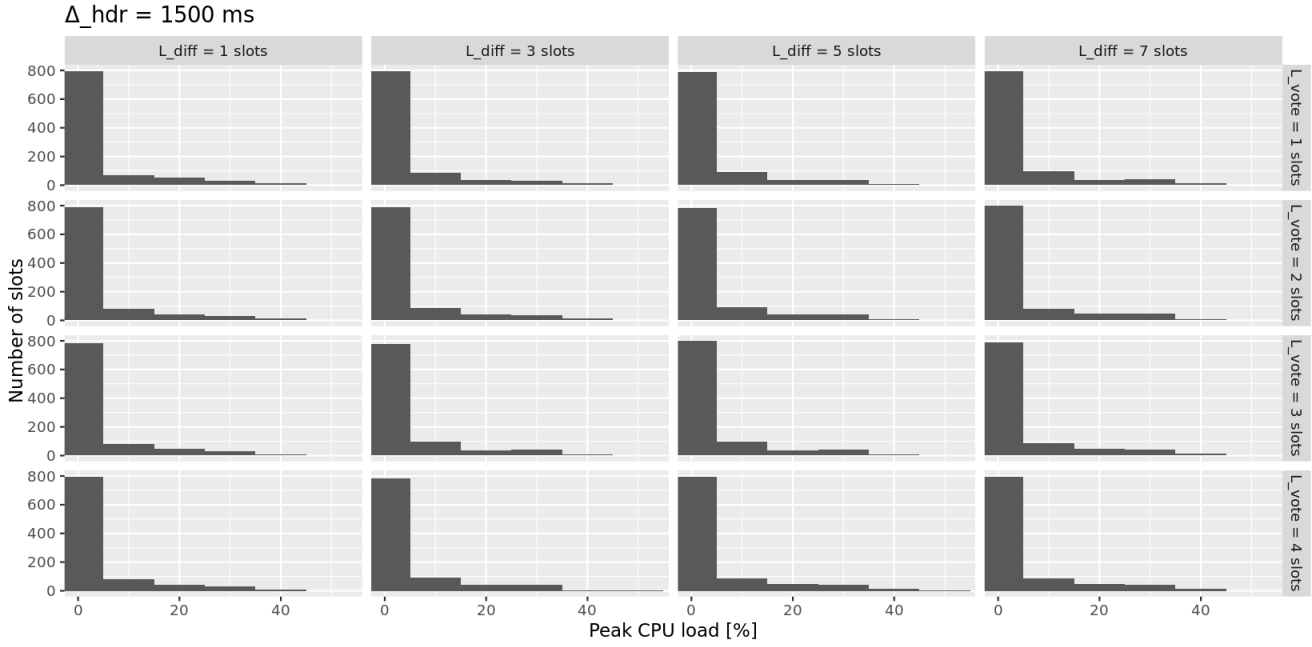
Δ_hdr = 2000 ms

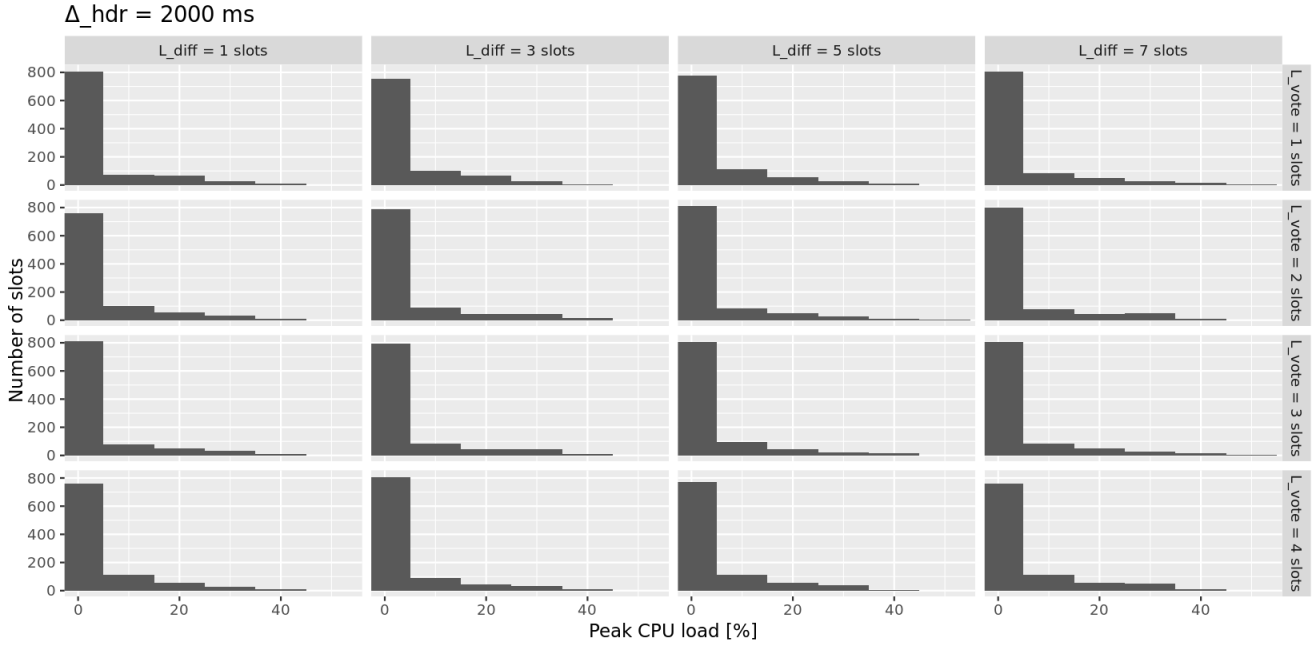


Peak CPU load among all nodes

topology-v2, 10 Mb/s, 4 vCPU/node, 12 MB/EB, 1500 B/Tx, 0.150 TxMB/s



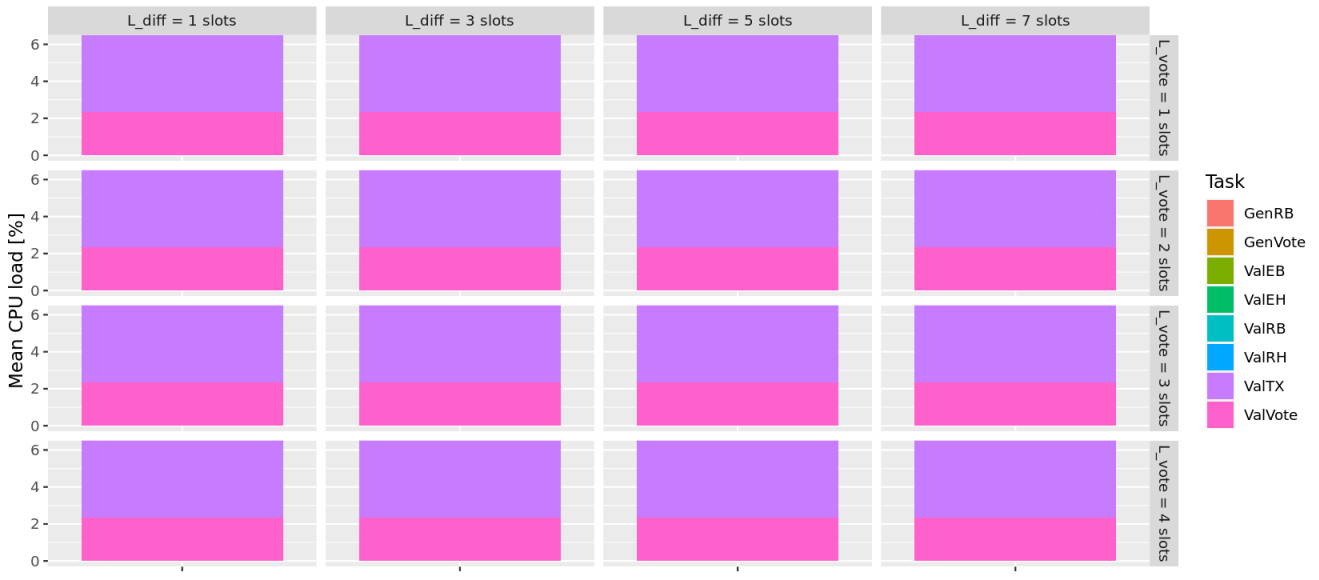




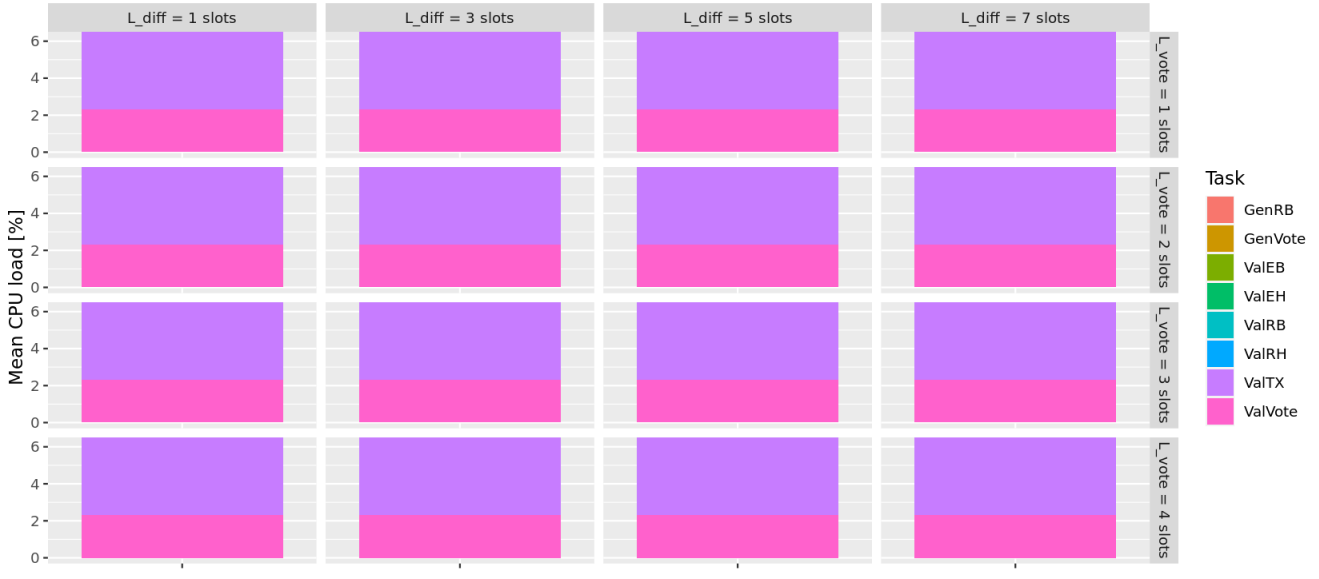
Mean CPU load among all nodes

topology-v2, 10 Mb/s, 4 vCPU/node, 12 MB/EB, 1500 B/Tx, 0.150 TxMB/s

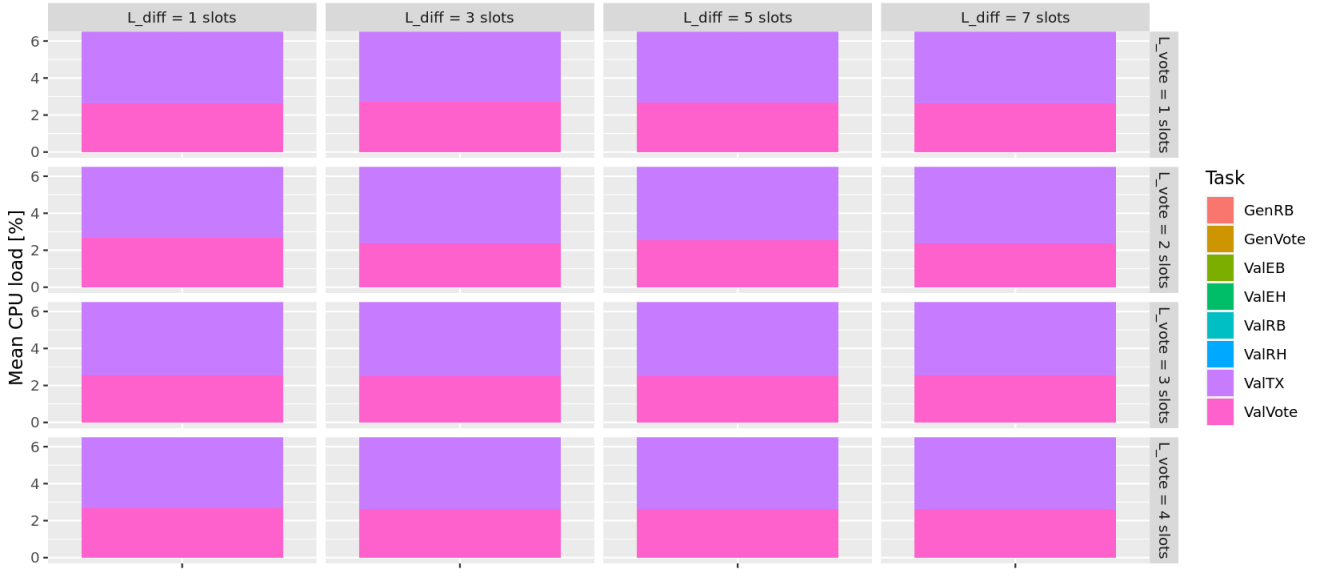
Δ_hdr = 1000 ms



Δ_hdr = 1500 ms

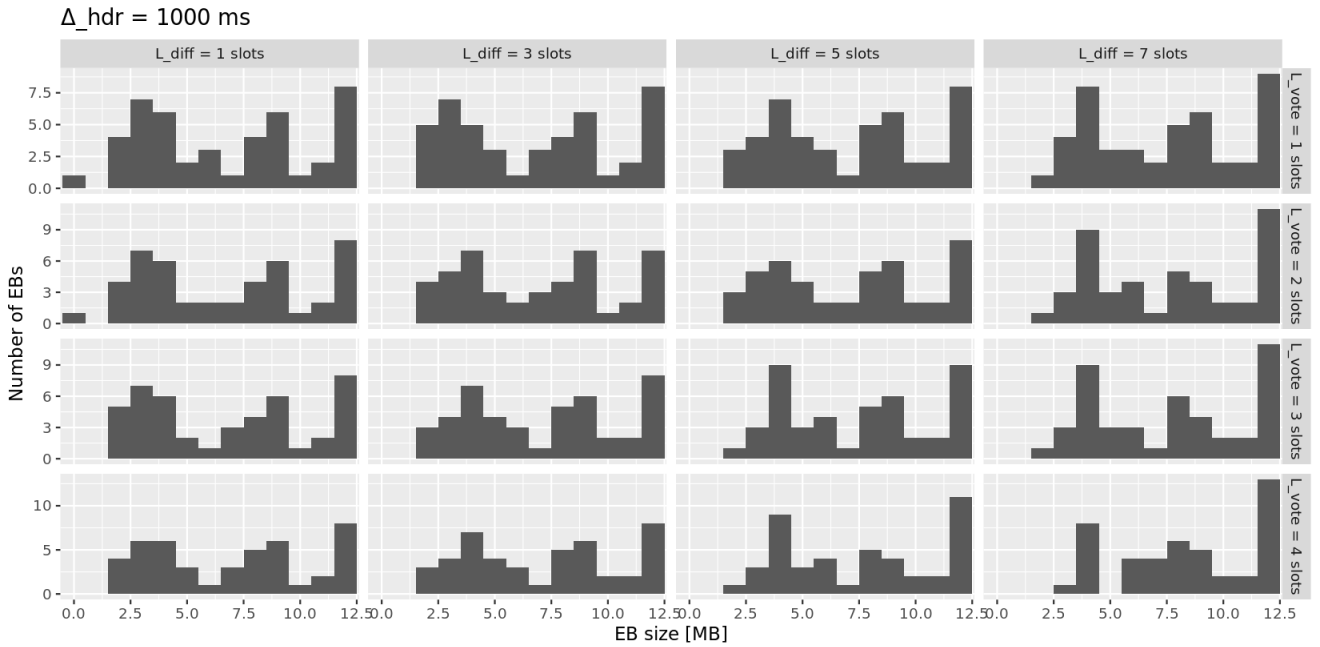


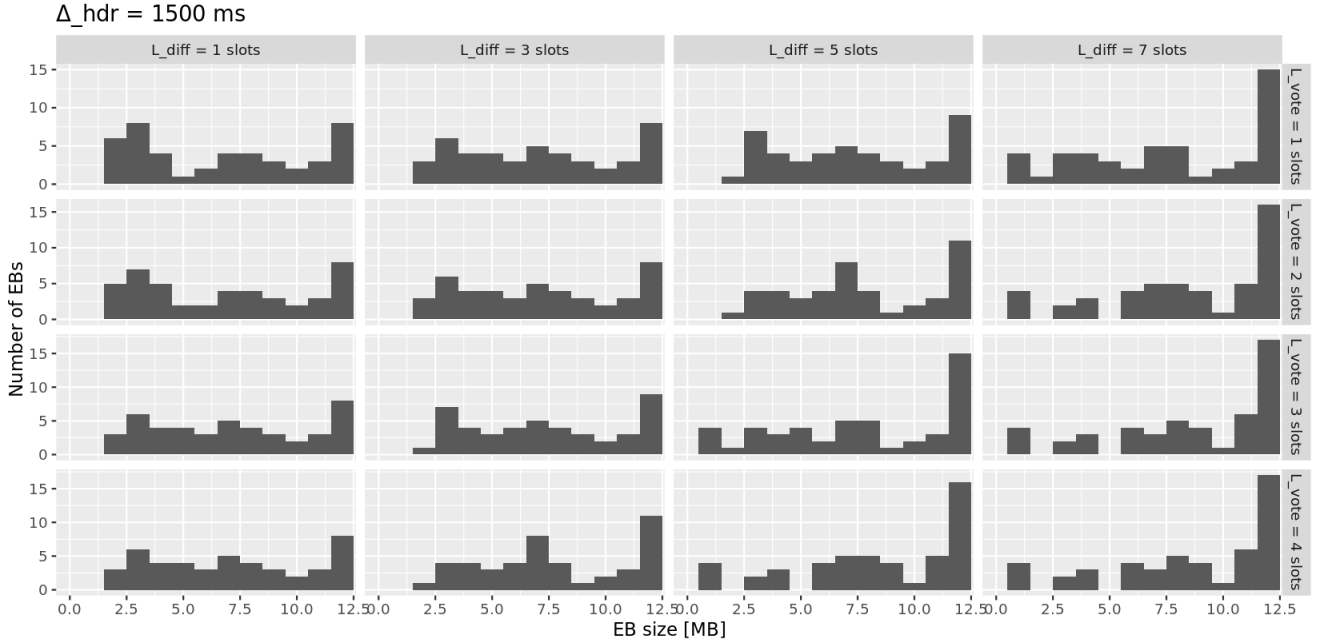
Δ_hdr = 2000 ms

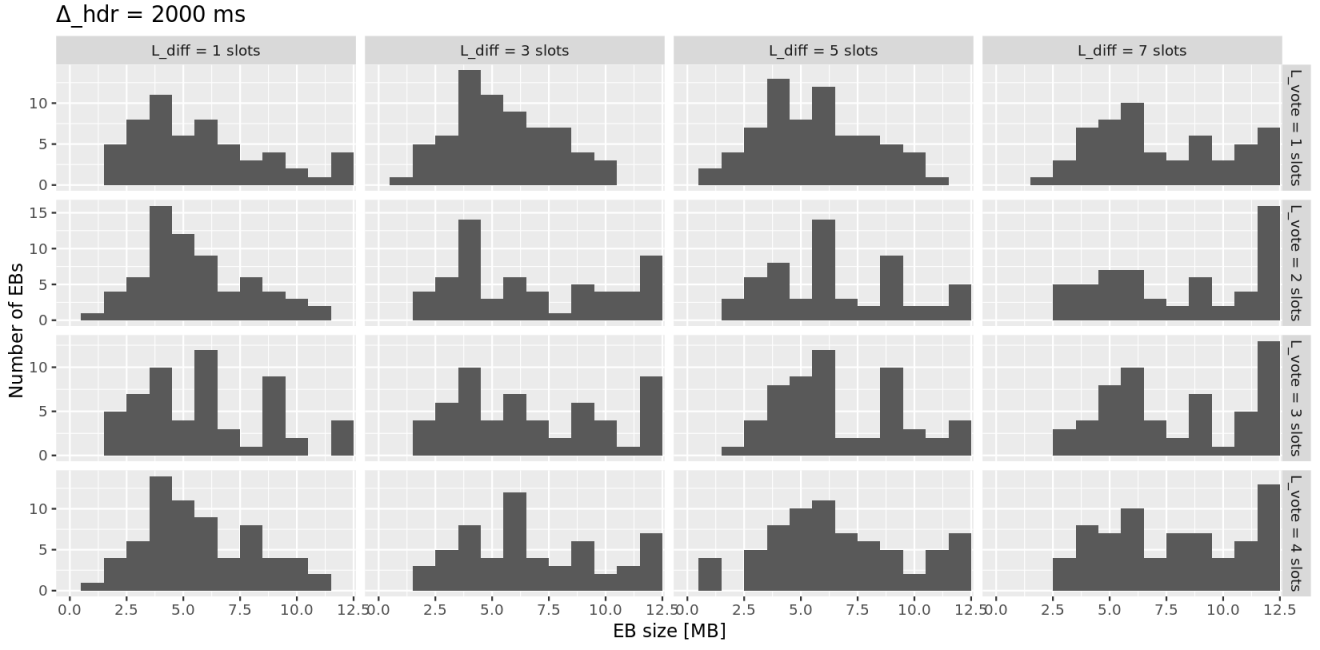


Size of transactions in EBs

topology-v2, 10 Mb/s, 4 vCPU/node, 12 MB/EB, 1500 B/Tx, 0.150 TxMB/s

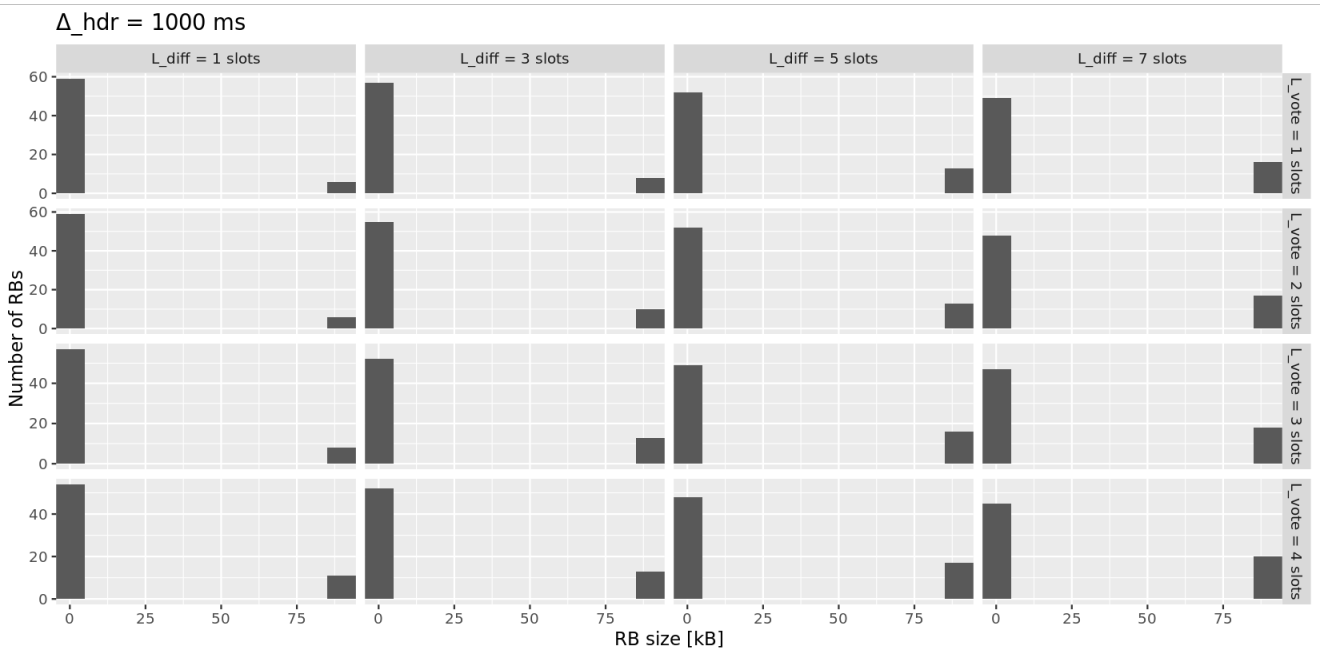


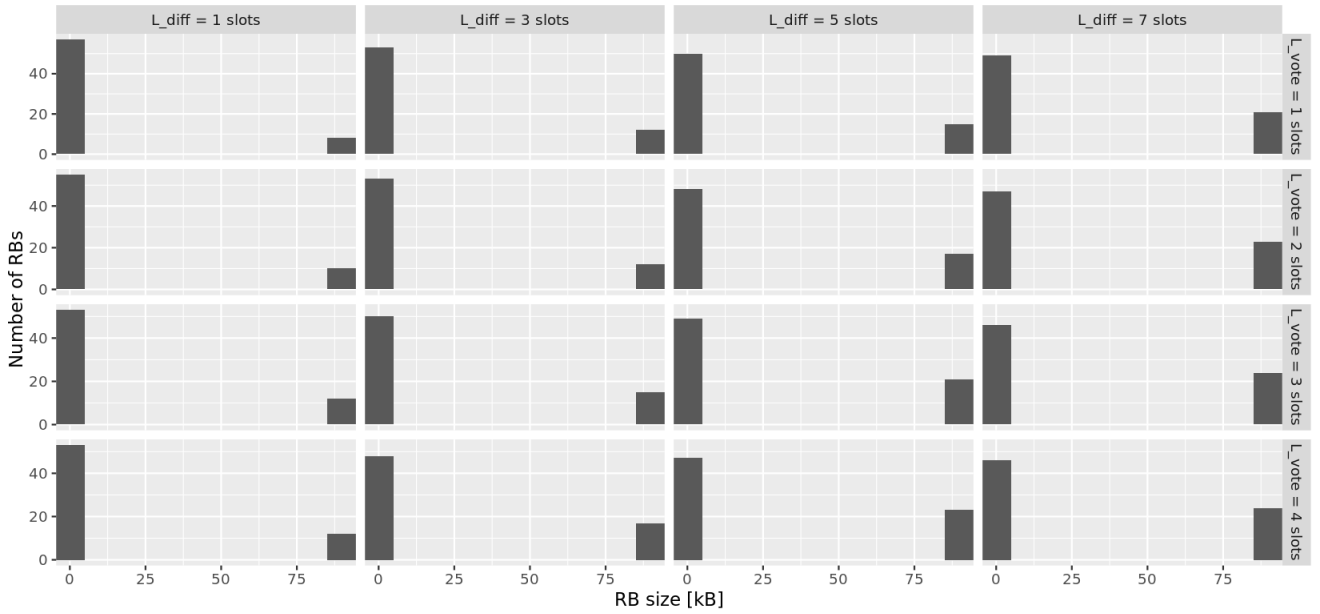


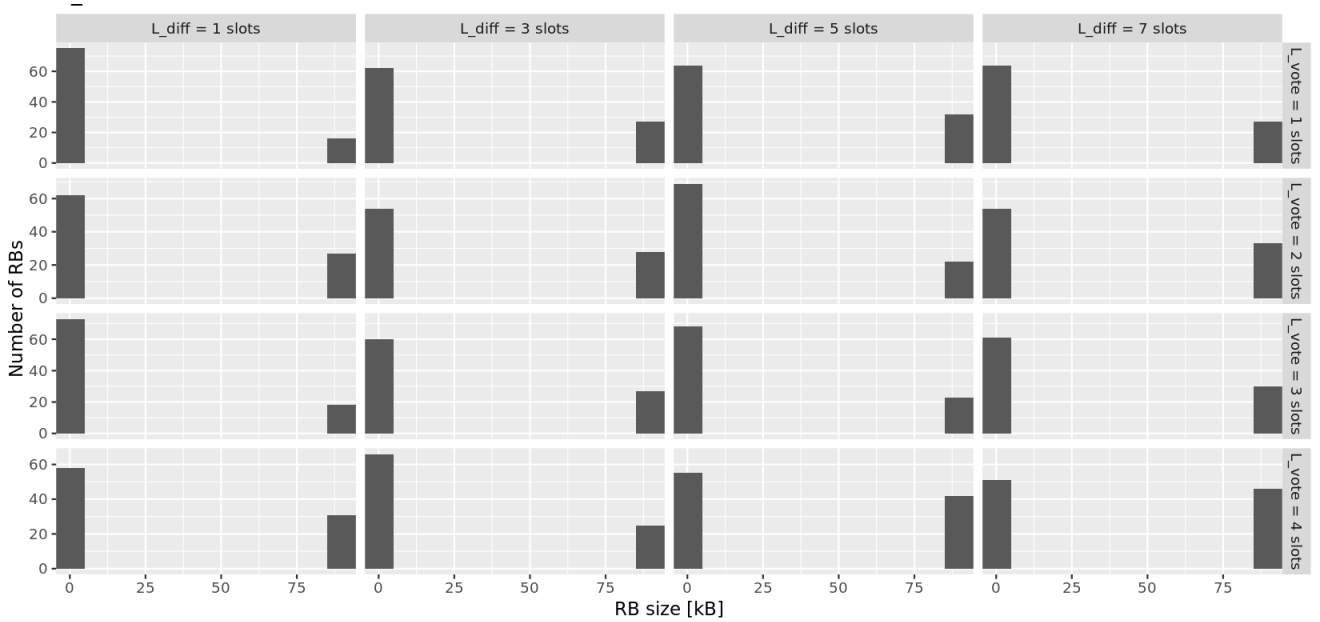


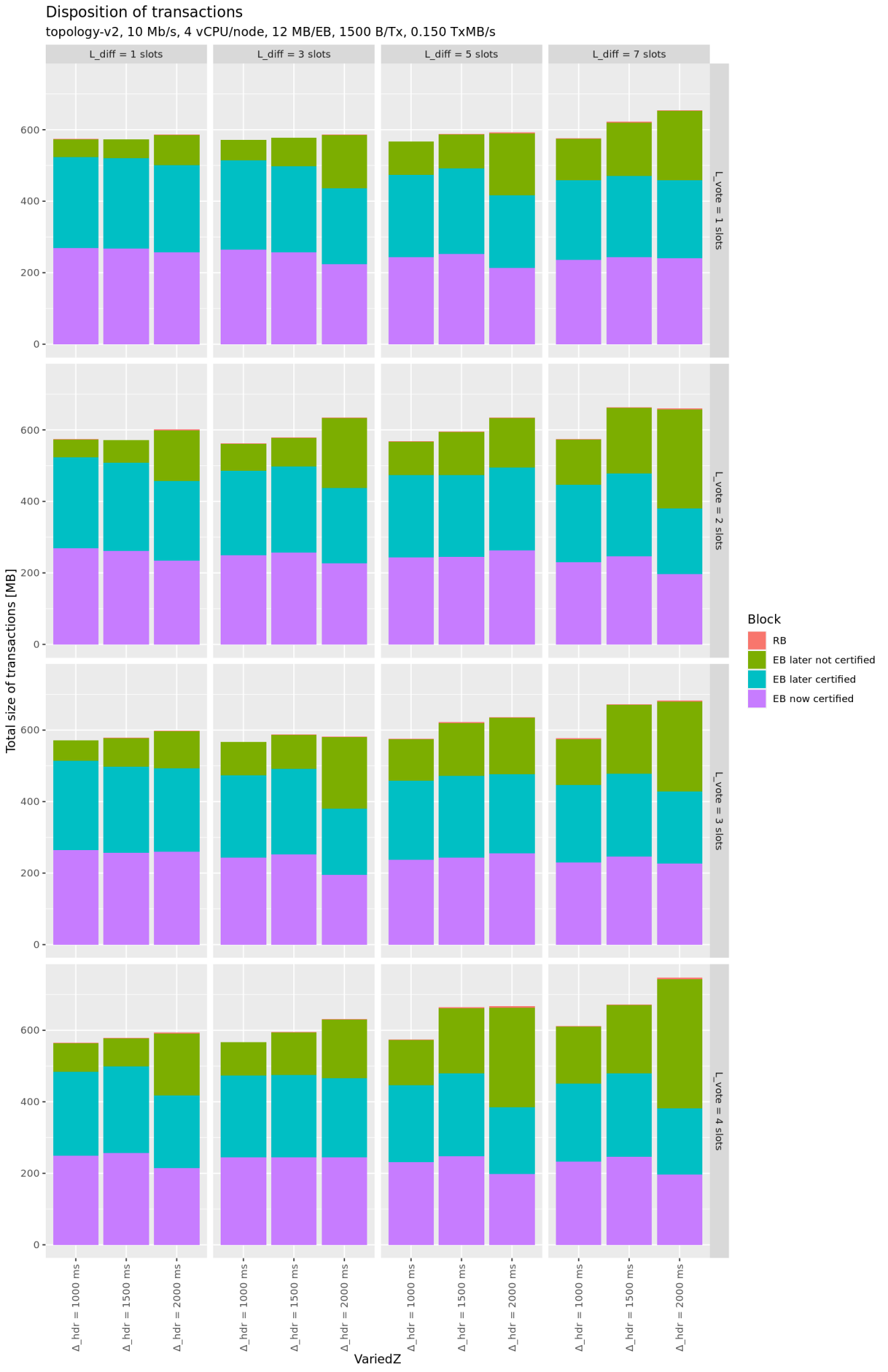
Size of transactions in RBs

topology-v2, 10 Mb/s, 4 vCPU/node, 12 MB/EB, 1500 B/Tx, 0.150 TxMB/s








Disposition of transactions
topology-v2, 10 Mb/s, 4 vCPU/node, 12 MB/EB, 1500 B/Tx, 0.150 TxMB/s
L_diff = 1 slots
L_diff = 3 slots
L_diff = 5 slots
L_diff = 7 slots
L_vote = 1 slots
L_vote = 2 slots
L_vote = 3 slots
L_vote = 4 slots
Total size of transactions [MB]
0
200
400
600
Block
RB
EB later not certified
EB later certified
EB now certified
Δ_hdr = 1000 ms
Δ_hdr = 1500 ms
Δ_hdr = 2000 ms
VariedZ