

```

R1
R2 <
R3
R1 and R3 are 2-way ECMP'd with R2 each sending same 500k routes.
At 0sec, shut R1 interface
At 8sec, unshut R1 interface
At 16sec, shut R2 interface
At 24sec, unshut R2 interface
At 32sec, shut R1 interface
At 40sec, unshut R1 interface
At 48sec, shut R1 interface
At 54sec, unshut R2 interface
At 60sec, shut R1 and R2 interface
At 70sec, unshut R1 and R2 interface

```

Enabled FPM as well to keep zebra do twice the amount of work (kernel and FPM)

Observation:

- In baseline, with 500K routes from R1 and R3 initially,
we see 288K streams taking 22MB in zebra which after the above trigger shoots
upto 773K streams with 61MB

- With the fix, and same initial condition as well as after triggers, memory
allocated by zebra for fifo has reduced a lot..2K streams, 2MB

BASELINE

Initial state with 500K routes (2way ECMP):

```

root@r2:~# ip route show | wc -l
1500004

```

```

root@r2:~# vtysh -c " sh ip bgp sum"
IPv4 Unicast Summary:
BGP router identifier 192.168.7.2, local AS number 65002 VRF default vrf-id 0
BGP table version 2000006
RIB entries 1000003, using 92 MiB of memory
Peers 2, using 40 KiB of memory

```

Neighbor	V	AS	MsgRcvd	MsgSent	TblVer	InQ	OutQ	Up/Down
State/PfxRcd	PfxSnt	Desc						
192.168.1.1	4	65001	312	284	2000006	0	0	00:02:20
500000	500002	N/A						
192.168.2.3	4	65003	228	212	2000006	0	0	00:01:10
500002	500002	N/A						

Total number of neighbors 2

OUR INTEREST in the below

```

Total heap allocated: 479 MiB
333K streams taking 25MB
Stream : 13 variable 1522544 333487 25677008

```

```

root@r2:~# vtysh -c " sh memory zebra"
System allocator statistics:
Total heap allocated: 479 MiB
Holding block headers: 9224 KiB
Used small blocks: 0 bytes

```

```

Used ordinary blocks: 253 MiB
Free small blocks: 22 MiB
Free ordinary blocks: 225 MiB
Ordinary blocks: 828734
Small blocks: 204830
Holding blocks: 2

```

(see system documentation for 'mallinfo' for meaning)

--- qmem libfrr ---

Type	Current#	Size	Total	Max#	MaxBytes
Buffer	7	24	184	7	184
Buffer data	1	4120	4120	3	12360
Host config	6	variable	400	6	400
Command Tokens	3531	72	254248	3534	254512
Command Token Text	2440	variable	77056	2442	77128
Command Token Help	2440	variable	58608	2442	58656
Command Argument	2	variable	48	5	120
Command Argument Name	701	variable	16824	703	16872
Lexer token (temporary)	0	variable	0	2	64
RCU thread	8	136	1088	8	1088
RCU sequence barrier	1	32	40	2	80
FRR POSIX Thread	16	variable	1408	16	1408
POSIX sync primitives	16	48	944	16	944
Graph	29	8	712	30	752
Graph Node	4109	32	164600	4113	164760
Hash	124	variable	6336	124	6336
Hash Bucket	774	24	18640	778	18736
Hash Index	62	variable	23184	63	23256
Interface	4	280	1120	4	1120
Connected	6	64	432	6	432
Link List	52	40	2128	55	2248
Link Node	111	24	2776	395105	9502936
Temporary memory	4	variable	96	12	24832
Bitfield memory	1	2052	2056	1	2056
backend client	1	480	488	1	488
backend client name	1	6	24	1	24
backend transaction batch data:	0	332832	0	1	335856
backend transaction data	0	104	0	1	120
Module loading name	1	14	24	1	24
Module loading error	0	170	0	1	184
Nexthop	13	152	1976	533483	81090536
NetNS Context	2	variable	128	2	128
NetNS Name	1	18	24	1	24
Nexthop Group	0	32	0	1	40
Northbound Node	780	1208	942240	780	942240
Northbound Configuration	2	16	48	2	48
Northbound Configuration Entry:	6	1032	6192	6	6192
Prefix	6	56	336	6	336
Privilege information	4	variable	160	4	160
Stream	13	variable	1522544	333487	25677008
Stream FIFO	11	72	792	13	936
Route table	15	56	872	15	872
Route node	1000036	variable	120104960	1000036	120104960
Thread	41	168	6888	41	6888
Thread master	36	variable	2363040	36	2363040
Thread Poll Info	18	131072	2359440	18	2359440
Thread stats	53	112	6408	53	6408
Typed-hash bucket	21	variable	8393984	21	8393984
Typed-heap array	0	576	0	2	1168
Vector	8279	24	199208	8286	199376

```

Vector index      :      8279 variable    266216      8286      266480
VRF               :           1      216         216         1         216
VRF bit-map      :           4         8          96         4          96
VTY              :           2 variable    30608         2      30608
VTY server       :           3      32         120         3         120
Work queue       :           3 variable    408           3         408
Work queue item  :           0      24           0           1          24
Work queue name string :       2 variable      48           2          48
YANG module      :           8      48         464           8         464
YANG data structure :         0    1032           0           1      1032
log thread-local buffer :       9    25120    226152         9      226152
--- qmem Native message allocations ---
Type              : Current#   Size      Total      Max#   MaxBytes
--- qmem logging subsystem ---
Type              : Current#   Size      Total      Max#   MaxBytes
log file target   :           1      88         88         2      176
log file name     :           2      85         176         2      176
--- qmem Label Manager ---
Type              : Current#   Size      Total      Max#   MaxBytes
--- qmem Table Manager ---
Type              : Current#   Size      Total      Max#   MaxBytes
Table Manager Context :         1      16         40         1         40
--- qmem SRv6 Manager ---
Type              : Current#   Size      Total      Max#   MaxBytes
--- qmem zebra ---
Type              : Current#   Size      Total      Max#   MaxBytes
Zebra Interface Information :         4      608      2464         4      2464
Zebra Netlink buffers :         6 variable    305200         6      305200
Zebra DPlane Ctx   :           0    1128           0    266735 300877080
Zebra DPlane Provider :           2      256         528         2         528
DPlane NSes       :           1      48          56         1          56
Nexthop Group Entry :          12     144         1840    38855   5905976
Nexthop Group Connected :          12      40         480         16          640
Zebra Name Space   :           1     584         584         1         584
PTM BFD process reg table :           1      32          40         1          40
Route Entry        :      500022     152    76061488    711305 108177528
RIB destination    :      500019      88    44158488    500019 44158488
WQ wrapper         :           0     120           0    38845   4661400
RIB table info     :           4      24          96         4          96
Zebra VRF table    :           4      56         224         4         224
Nexthop tracking object :           2     256         528         2         528
ZEBRA VRF         :           1    5328         5336         1         5336
MH global info     :           1     128         136         1         136
Zebra neigh table  :           1         8          24         1          24
Zebra neigh entry  :           2      80         176         2         176
ZClients          :           5    3808         19080         5      19080
root@r2:~#

```

```

-----
After Trigger:
-----

```

```

root@r2:~# ip route show | wc -l
1500004

```

```

root@r2:~# vtysh -c " sh ip bgp sum"

```

```

IPv4 Unicast Summary:

```

```

BGP router identifier 192.168.7.2, local AS number 65002 VRF default vrf-id 0
BGP table version 8000018

```

RIB entries 1000003, using 92 MiB of memory

Peers 2, using 40 KiB of memory

Neighbor	V	AS	MsgRcvd	MsgSent	TblVer	InQ	OutQ	Up/Down
State/PfxRcd	PfxSnt	Desc						
192.168.1.1	4	65001	559	622	8000018	0	0	00:01:37
500000	500002	N/A						
192.168.2.3	4	65003	473	546	8000018	0	0	00:01:34
500002	500002	N/A						

Total number of neighbors 2

OUR INTEREST in the below

Total heap allocated: 1128 MiB

735K streams taking 58MB

Stream : 13 variable 1522544 735732 58276400

root@r2:~# vtysh -c " sh memory zebra"

System allocator statistics:

Total heap allocated: 1128 MiB

Holding block headers: 9224 KiB

Used small blocks: 0 bytes

Used ordinary blocks: 253 MiB

Free small blocks: 23 MiB

Free ordinary blocks: 875 MiB

Ordinary blocks: 1127123

Small blocks: 215671

Holding blocks: 2

(see system documentation for 'mallinfo' for meaning)

--- qmem libfrr ---

Type	Current#	Size	Total	Max#	MaxBytes
Buffer	7	24	184	7	184
Buffer data	1	4120	4120	3	12360
Host config	6	variable	400	6	400
Command Tokens	3531	72	254248	3534	254512
Command Token Text	2440	variable	77056	2442	77128
Command Token Help	2440	variable	58608	2442	58656
Command Argument	2	variable	48	5	120
Command Argument Name	701	variable	16824	703	16872
Lexer token (temporary)	0	variable	0	2	64
RCU thread	8	136	1088	8	1088
RCU sequence barrier	1	32	40	2	80
FRR POSIX Thread	16	variable	1408	16	1408
POSIX sync primitives	16	48	944	16	944
Graph	29	8	712	30	752
Graph Node	4109	32	164600	4113	164760
Hash	124	variable	6336	124	6336
Hash Bucket	774	24	18640	778	18736
Hash Index	62	variable	23184	63	23256
Interface	4	280	1120	4	1120
Connected	6	64	432	6	432
Link List	52	40	2128	55	2248
Link Node	111	24	2776	865289	21108072
Temporary memory	4	variable	96	12	24832
Bitfield memory	1	2052	2056	1	2056
backend client	1	480	488	1	488
backend client name	1	6	24	1	24
backend transaction batch data:	0	332832	0	1	335856

backend transaction data	:	0	104	0	1	120
Module loading name	:	1	14	24	1	24
Module loading error	:	0	170	0	1	184
Nexthop	:	13	152	1976	1132190	172124208
NetNS Context	:	2	variable	128	2	128
NetNS Name	:	1	18	24	1	24
Nexthop Group	:	0	32	0	1	56
Northbound Node	:	780	1208	942240	780	942240
Northbound Configuration	:	2	16	48	2	48
Northbound Configuration Entry:	:	6	1032	6192	6	6192
Prefix	:	6	56	336	6	336
Privilege information	:	4	variable	160	4	160
Stream	:	13	variable	1522544	735732	58276400
Stream FIFO	:	11	72	792	13	936
Route table	:	15	56	872	15	872
Route node	:	1000036	variable	120135168	1000036	120135184
Thread	:	42	168	7056	42	7056
Thread master	:	36	variable	2363040	36	2363040
Thread Poll Info	:	18	131072	2359440	18	2359440
Thread stats	:	53	112	6408	53	6408
Typed-hash bucket	:	21	variable	8393984	21	8393984
Typed-heap array	:	0	576	0	2	1168
Vector	:	8279	24	199208	8286	199376
Vector index	:	8279	variable	266216	8286	266480
VRF	:	1	216	216	1	216
VRF bit-map	:	4	8	96	4	96
VTY	:	2	variable	30624	2	30624
VTY server	:	3	32	120	3	120
Work queue	:	3	variable	408	3	408
Work queue item	:	0	24	0	1	24
Work queue name string	:	2	variable	48	2	48
YANG module	:	8	48	464	8	464
YANG data structure	:	0	1032	0	1	1032
log thread-local buffer	:	9	25120	226152	9	226152
--- qmem Native message allocations ---						
Type	:	Current#	Size	Total	Max#	MaxBytes
--- qmem logging subsystem ---						
Type	:	Current#	Size	Total	Max#	MaxBytes
log file target	:	1	88	88	2	176
log file name	:	2	85	176	2	176
--- qmem Label Manager ---						
Type	:	Current#	Size	Total	Max#	MaxBytes
--- qmem Table Manager ---						
Type	:	Current#	Size	Total	Max#	MaxBytes
Table Manager Context	:	1	16	40	1	40
--- qmem SRv6 Manager ---						
Type	:	Current#	Size	Total	Max#	MaxBytes
--- qmem zebra ---						
Type	:	Current#	Size	Total	Max#	MaxBytes
Zebra Interface Information	:	4	608	2464	4	2464
Zebra Netlink buffers	:	6	variable	305200	6	305200
Zebra DPlane Ctx	:	0	1128	0	598913	675574360
Zebra DPlane Provider	:	2	256	528	2	528
DPlane NSes	:	1	48	56	1	56
Nexthop Group Entry	:	12	144	1840	489914	74489984
Nexthop Group Connected	:	12	40	480	16	688
Zebra Name Space	:	1	584	584	1	584
PTM BFD process reg table	:	1	32	40	1	40
Route Entry	:	500022	152	76003376	996058	151434864

```

RIB destination      : 500019      88      44117192  500019  44158488
WQ wrapper           : 0          120      0      489902  59037536
RIB table info       : 4          24      96      4          96
Zebra VRF table      : 4          56      224     4          224
Nexthop tracking object : 2        256      528     2          528
ZEBRA VRF            : 1        5328     5336     1          5336
MH global info       : 1        128      136     1          136
Zebra neigh table    : 1          8        24      1          24
Zebra neigh entry    : 2         80      176     2          176
ZClients             : 5        3808     19080    5          19080

```

With code changes

Initial State with 500K routes(2-way ECMP):

```

root@r2:~# ip route show | wc -l
1500004

```

```

root@r2:~# vtysh -c "sh ip bgp sum"
IPv4 Unicast Summary:
BGP router identifier 192.168.7.2, local AS number 65002 VRF default vrf-id 0
BGP table version 2000006
RIB entries 1000003, using 92 MiB of memory
Peers 2, using 40 KiB of memory

```

Neighbor	V	AS	MsgRcvd	MsgSent	TblVer	InQ	OutQ	Up/Down
State/PfxRcd	PfxSnt	Desc						
192.168.1.1	4	65001	332	316	2000006	0	0	00:03:09
500000	500002	N/A						
192.168.2.3	4	65003	251	235	2000006	0	0	00:01:08
500002	500002	N/A						

Total number of neighbors 2

OUR INTEREST in the below

```

Total heap allocated: 474 MiB
1.6K streams taking 1.8MB
Stream : 13 variable 1522544 1605 1870112

```

```

root@r2:~# vtysh -c "sh mem zebra"

```

```

System allocator statistics:
Total heap allocated: 474 MiB
Holding block headers: 9224 KiB
Used small blocks: 0 bytes
Used ordinary blocks: 253 MiB
Free small blocks: 112 KiB
Free ordinary blocks: 220 MiB
Ordinary blocks: 769222
Small blocks: 1072
Holding blocks: 2

```

(see system documentation for 'mallinfo' for meaning)

--- qmem libfrr ---

Type	Current#	Size	Total	Max#	MaxBytes
Buffer	7	24	168	7	200
Buffer data	1	4120	4120	3	12360

Host config	:	6	variable	400	6	400
Command Tokens	:	3531	72	254248	3534	254480
Command Token Text	:	2440	variable	77056	2442	77128
Command Token Help	:	2440	variable	58608	2442	58656
Command Argument	:	2	variable	48	5	120
Command Argument Name	:	701	variable	16824	703	16872
Lexer token (temporary)	:	0	variable	0	2	64
RCU thread	:	8	136	1104	8	1104
RCU sequence barrier	:	1	32	40	2	80
FRR POSIX Thread	:	16	variable	1408	16	1408
POSIX sync primitives	:	16	48	960	16	960
Graph	:	29	8	712	30	752
Graph Node	:	4109	32	164600	4113	164760
Hash	:	124	variable	6336	124	6336
Hash Bucket	:	774	24	18640	778	18736
Hash Index	:	62	variable	23184	63	23256
Interface	:	4	280	1120	4	1120
Connected	:	6	64	432	6	432
Link List	:	52	40	2144	55	2264
Link Node	:	111	24	2776	423143	10165704
Temporary memory	:	4	variable	96	12	24832
Bitfield memory	:	1	2052	2056	1	2056
backend client	:	1	480	488	1	488
backend client name	:	1	6	24	1	24
backend transaction batch data:	:	0	332832	0	1	335856
backend transaction data	:	0	104	0	1	104
Module loading name	:	1	14	24	1	24
Module loading error	:	0	170	0	1	184
Nexthop	:	13	152	1976	321981	48941752
NetNS Context	:	2	variable	128	2	128
NetNS Name	:	1	18	24	1	24
Nexthop Group	:	0	32	0	1	40
Northbound Node	:	780	1208	942240	780	942240
Northbound Configuration	:	2	16	48	2	48
Northbound Configuration Entry:	:	6	1032	6192	6	6192
Prefix	:	6	56	336	6	336
Privilege information	:	4	variable	160	4	160
Stream	:	13	variable	1522544	1605	1870112
Stream FIFO	:	11	72	792	13	936
Route table	:	15	56	856	15	856
Route node	:	1000036	variable	120145376	1000036	120145376
Thread	:	43	168	7240	43	7240
Thread master	:	36	variable	2363040	36	2363040
Thread Poll Info	:	18	131072	2359440	18	2359440
Thread stats	:	53	112	6360	53	6360
Typed-hash bucket	:	21	variable	8393984	21	8393984
Typed-heap array	:	0	576	0	2	1168
Vector	:	8279	24	199208	8286	199376
Vector index	:	8279	variable	266216	8286	266480
VRF	:	1	216	216	1	216
VRF bit-map	:	4	8	96	4	96
VTY	:	2	variable	30608	2	30608
VTY server	:	3	32	120	3	120
Work queue	:	3	variable	408	3	408
Work queue item	:	0	24	0	1	24
Work queue name string	:	2	variable	48	2	48
YANG module	:	8	48	464	8	464
YANG data structure	:	0	1032	0	1	1032
log thread-local buffer	:	9	25120	226152	9	226152

```

--- qmem Native message allocations ---
Type                : Current#  Size      Total      Max#  MaxBytes
--- qmem logging subsystem ---
Type                : Current#  Size      Total      Max#  MaxBytes
log file target     :      1      88         88         2     176
log file name       :      2      85        176         2     176
--- qmem Label Manager ---
Type                : Current#  Size      Total      Max#  MaxBytes
--- qmem Table Manager ---
Type                : Current#  Size      Total      Max#  MaxBytes
Table Manager Context :      1      16         40         1      40
--- qmem SRv6 Manager ---
Type                : Current#  Size      Total      Max#  MaxBytes
--- qmem zebra ---
Type                : Current#  Size      Total      Max#  MaxBytes
Zebra Interface Information :      4      608       2464         4     2464
Zebra NetLink buffers   :      6 variable 305200         6    305200
Zebra DPlane Ctx       :      0     1128         0    160983 181588824
Zebra DPlane Provider  :      2      256         528         2      528
DPlane NSes           :      1      48          56         1      56
Nexthop Group Entry   :     12      144        1824        28130  4275760
Nexthop Group Connected :     12      40          480         16      640
Zebra Name Space      :      1     584         584         1      584
PTM BFD process reg table :      1      32          40         1      40
Route Entry           :    500022    152   76007088  533411  81082280
RIB destination       :    500019      88   44294744  500019  44294744
WQ wrapper            :      0     120          0    28120  3374400
RIB table info        :      4      24          96         4      96
Zebra VRF table       :      4      56         224         4      224
Nexthop tracking object :      2     256         544         2      544
ZEBRA VRF             :      1    5328         5336         1     5336
MH global info        :      1     128         136         1      136
Zebra neigh table     :      1       8          24         1      24
Zebra neigh entry     :      2      80         176         2      176
ZClients              :      5    3808        19080         5    19080
root@r2:~#

```

After Trigger:

```

root@r2:~# ip route show | wc -l
1500004

```

```

root@r2:~# vtysh -c "sh ip bgp sum"

```

```

IPv4 Unicast Summary:
BGP router identifier 192.168.7.2, local AS number 65002 VRF default vrf-id 0
BGP table version 7788098
RIB entries 1000003, using 92 MiB of memory
Peers 2, using 40 KiB of memory

```

Neighbor	V	AS	MsgRcvd	MsgSent	TblVer	InQ	OutQ	Up/Down
State/PfxRcd	PfxSnt	Desc						
192.168.1.1	4	65001	518	594	7788098	0	0	00:00:16
500000	500002	N/A						
192.168.2.3	4	65003	436	510	7788098	0	0	00:00:17
500002	500002	N/A						

Total number of neighbors 2

OUR INTEREST in the below

Total heap allocated: 1038 MiB

1.6K streams taking 1.8MB

Stream : 13 variable 1522544 1605 1870112

root@r2:~# vtysh -c "sh mem zebra"

System allocator statistics:

Total heap allocated: 1038 MiB

Holding block headers: 9224 KiB

Used small blocks: 0 bytes

Used ordinary blocks: 362 MiB

Free small blocks: 112 KiB

Free ordinary blocks: 676 MiB

Ordinary blocks: 1280146

Small blocks: 1075

Holding blocks: 2

(see system documentation for 'mallinfo' for meaning)

--- qmem libfrr ---

Type	: Current#	Size	Total	Max#	MaxBytes
Buffer	: 7	24	168	7	200
Buffer data	: 1	4120	4120	3	12360
Host config	: 6	variable	400	6	400
Command Tokens	: 3531	72	254248	3534	254480
Command Token Text	: 2440	variable	77056	2442	77128
Command Token Help	: 2440	variable	58608	2442	58656
Command Argument	: 2	variable	48	5	120
Command Argument Name	: 701	variable	16824	703	16872
Lexer token (temporary)	: 0	variable	0	2	64
RCU thread	: 8	136	1104	8	1104
RCU sequence barrier	: 1	32	40	2	80
FRR POSIX Thread	: 16	variable	1408	16	1408
POSIX sync primitives	: 16	48	960	16	960
Graph	: 29	8	712	30	752
Graph Node	: 4109	32	164600	4113	164760
Hash	: 124	variable	6336	124	6336
Hash Bucket	: 774	24	18656	778	18752
Hash Index	: 62	variable	23184	63	23256
Interface	: 4	280	1120	4	1120
Connected	: 6	64	432	6	432
Link List	: 52	40	2144	55	2264
Link Node	: 111	24	2776	919006	22096208
Temporary memory	: 4	variable	96	12	24832
Bitfield memory	: 1	2052	2056	1	2056
backend client	: 1	480	488	1	488
backend client name	: 1	6	24	1	24
backend transaction batch data:	0	332832	0	1	335856
backend transaction data	: 0	104	0	1	104
Module loading name	: 1	14	24	1	24
Module loading error	: 0	170	0	1	184
Nexthop	: 156490	152	23792416	1294863	196826952
NetNS Context	: 2	variable	128	2	128
NetNS Name	: 1	18	24	1	24
Nexthop Group	: 0	32	0	1	56
Northbound Node	: 780	1208	942240	780	942240
Northbound Configuration	: 2	16	48	2	48
Northbound Configuration Entry:	6	1032	6192	6	6192

Prefix	:	6	56	336	6	336
Privilege information	:	4	variable	160	4	160
Stream	:	13	variable	1522544	1605	1870112
Stream FIFO	:	11	72	792	13	936
Route table	:	15	56	856	15	856
Route node	:	1000036	variable	120100384	1000036	120145408
Thread	:	43	168	7240	43	7240
Thread master	:	36	variable	2363040	36	2363040
Thread Poll Info	:	18	131072	2359440	18	2359440
Thread stats	:	53	112	6360	53	6360
Typed-hash bucket	:	21	variable	8393984	21	8393984
Typed-heap array	:	1	576	584	2	1168
Vector	:	8279	24	199208	8286	199376
Vector index	:	8279	variable	266216	8286	266480
VRF	:	1	216	216	1	216
VRF bit-map	:	4	8	96	4	96
VTY	:	2	variable	30608	2	30608
VTY server	:	3	32	120	3	120
Work queue	:	3	variable	408	3	408
Work queue item	:	0	24	0	1	24
Work queue name string	:	2	variable	48	2	48
YANG module	:	8	48	464	8	464
YANG data structure	:	0	1032	0	1	1032
log thread-local buffer	:	9	25120	226152	9	226152
--- qmem Native message allocations ---						
Type	:	Current#	Size	Total	Max#	MaxBytes
--- qmem logging subsystem ---						
Type	:	Current#	Size	Total	Max#	MaxBytes
log file target	:	1	88	88	2	176
log file name	:	2	85	176	2	176
--- qmem Label Manager ---						
Type	:	Current#	Size	Total	Max#	MaxBytes
--- qmem Table Manager ---						
Type	:	Current#	Size	Total	Max#	MaxBytes
Table Manager Context	:	1	16	40	1	40
--- qmem SRv6 Manager ---						
Type	:	Current#	Size	Total	Max#	MaxBytes
--- qmem zebra ---						
Type	:	Current#	Size	Total	Max#	MaxBytes
Zebra Interface Information	:	4	608	2464	4	2464
Zebra Netlink buffers	:	6	variable	305200	6	305200
Zebra DPlane Ctx	:	78239	1128	88253752	543969	613597496
Zebra DPlane Provider	:	2	256	528	2	528
DPlane NSes	:	1	48	56	1	56
Nexthop Group Entry	:	12	144	1824	788094	119804704
Nexthop Group Connected	:	12	40	480	16	640
Zebra Name Space	:	1	584	584	1	584
PTM BFD process reg table	:	1	32	40	1	40
Route Entry	:	500022	152	76004272	965461	146760584
RIB destination	:	500019	88	44282872	500019	44294744
WQ wrapper	:	0	120	0	834627	100227736
RIB table info	:	4	24	96	4	96
Zebra VRF table	:	4	56	224	4	224
Nexthop tracking object	:	2	256	544	2	544
ZEBRA VRF	:	1	5328	5336	1	5336
MH global info	:	1	128	136	1	136
Zebra neigh table	:	1	8	24	1	24
Zebra neigh entry	:	2	80	176	2	176
ZClients	:	5	3808	19080	5	19080

root@r2:~#