

R1  
R2 <  
R3

R1 and R3 are 2-way ECMP'd with R2 each sending same 500k routes.  
Keep P2P as default (1000)  
At 0sec, shut R1 interface  
At 8sec, unshut R1 interface  
At 16sec, shut R2 interface  
At 24sec, unshut R2 interface  
At 32 sec, shut both interfaces and set P2P as 2000  
At 40 sec, unshut both interfaces  
At 48sec, shut R1 interface  
At 54sec, unshut R1 interface  
At 60sec, shut R1 interface  
At 68sec, unshut R2 interface  
At 72sec, shut both interfaces and set P2P as 500  
At 80sec, unshut both interfaces  
At 88sec, shut R1 interface  
At 96sec, unshut R1 interface  
At 104sec, shut R1 interface  
At 112sec, unshut R2 interface  
At 120sec, shut both the interfaces and unconfigure P2P  
At 128sec, unshut both the interfaces

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

Observation: (With debug zebra packet detail enabled)

- In baseline, with 500K routes from R1 and R3 initially,  
we see 418K streams taking 45MB in zebra which after the above trigger shoots  
upto 2872K streams with 263MB

- With the fix, with 500K routes from R1 and R3 initially,  
we see 1810 streams taking 1.8MB in zebra which after the above trigger it  
becomes 2878 streams with 1.8MB only.

##### BASELINE #####

-----  
Initial state with 500K routes (2way ECMP):  
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```
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	307	2000006	0	0	00:03:40
500000	500002	N/A						
192.168.2.3	4	65003	229	196	2000006	0	0	00:00:35
500002	500002	N/A						

Total number of neighbors 2

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

System allocator statistics:

Total heap allocated: 342 MiB  
Holding block headers: 9224 KiB  
Used small blocks: 0 bytes  
Used ordinary blocks: 253 MiB  
Free small blocks: 45 MiB  
Free ordinary blocks: 89 MiB  
Ordinary blocks: 571349  
Small blocks: 418130  
Holding blocks: 2

(see system documentation for 'mallinfo' for meaning)

--- qmem libfrr ---

Type	: Current#	Size	Total	Max#	MaxBytes
Buffer	: 9	24	248	9	280
Buffer data	: 1	4120	4120	3	12360
Host config	: 6	variable	400	6	400
Command Tokens	: 3536	72	254608	3539	254824
Command Token Text	: 2443	variable	77144	2445	77224
Command Token Help	: 2443	variable	58680	2445	58728
Command Argument	: 2	variable	48	5	120
Command Argument Name	: 702	variable	16848	704	16896
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	960	16	960
Graph	: 29	8	712	30	752
Graph Node	: 4115	32	164888	4119	165048
Hash	: 124	variable	6336	124	6336
Hash Bucket	: 775	24	18680	779	18776
Hash Index	: 62	variable	23184	63	23256
Interface	: 4	280	1120	4	1120
Connected	: 6	64	432	6	432
Link List	: 52	40	2144	57	2344
Link Node	: 111	24	2824	374293	8983224
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	94508	14365216
NetNS Context	: 2	variable	128	2	128
NetNS Name	: 1	18	24	1	24
Nexthop Group	: 0	32	0	1	40
Northbound Node	: 781	1208	943448	781	943448
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	418069	45000304
Stream FIFO	: 11	72	792	14	1008
Route table	: 15	56	872	15	872
Route node	: 1000036	variable	120070704	1000036	120070704
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        6392      53   6392
Typed-hash bucket   :      21 variable  8393968      21  8393968
Typed-heap array    :      0    576         0        2    1168
Vector              :      8291   24      199448      8298  199616
Vector index        :      8291 variable  266504      8298  266768
VRF                 :      1    216         216       1    216
VRF bit-map         :      4     8          96        4     96
VTY                 :      4 variable  61216      4    61216
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     94498 106593744
Zebra DPlane Provider  :      2    256      528        2    528
DPlane NSes           :      1     48         56        1     56
Nexthop Group Entry   :      12   144      1840     52010 7905536
Nexthop Group Connected :      12    40      512        16    672
Zebra Name Space       :      1   584      584        1    584
PTM BFD process reg table :      1    32         40        1     40
Route Entry           :      500022  152   76004176  541642  82330496
RIB destination       :      500019   88   44065320  500019  44065320
WQ wrapper            :      0    120         0     126000 15120064
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

```

```

-----
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 12814270

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	670	808	12814270	0	0	00:01:11
500000	500002	N/A						
192.168.2.3	4	65003	588	715	12814270	0	0	00:01:10
500002	500002	N/A						

Total number of neighbors 2

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

System allocator statistics:

Total heap allocated: 782 MiB

Holding block headers: 9224 KiB

Used small blocks: 0 bytes

Used ordinary blocks: 253 MiB

Free small blocks: 272 MiB

Free ordinary blocks: 528 MiB

Ordinary blocks: 754661

Small blocks: 2872139

Holding blocks: 2

(see system documentation for 'mallinfo' for meaning)

--- qmem libfrr ---

Type	: Current#	Size	Total	Max#	MaxBytes
Buffer	: 9	24	248	9	280
Buffer data	: 1	4120	4120	3	12360
Host config	: 6	variable	400	6	400
Command Tokens	: 3536	72	254608	3539	254824
Command Token Text	: 2443	variable	77144	2445	77224
Command Token Help	: 2443	variable	58680	2445	58728
Command Argument	: 2	variable	48	5	120
Command Argument Name	: 702	variable	16848	704	16896
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	960	16	960
Graph	: 29	8	712	30	752
Graph Node	: 4115	32	164888	4119	165048
Hash	: 124	variable	6336	124	6336
Hash Bucket	: 775	24	18680	779	18792
Hash Index	: 62	variable	23184	63	23256
Interface	: 4	280	1120	4	1120
Connected	: 6	64	432	6	432
Link List	: 52	40	2144	57	2344
Link Node	: 111	24	2824	503761	12233568
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	439754	66879840
NetNS Context	:	2	variable	128	2	128
NetNS Name	:	1	18	24	1	24
Nexthop Group	:	0	32	0	1	56
Northbound Node	:	781	1208	943448	781	943448
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	2872078	263635368
Stream FIFO	:	11	72	792	14	1008
Route table	:	15	56	872	15	872
Route node	:	1000036	variable	120024864	1000036	120075136
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	6392	53	6392
Typed-hash bucket	:	21	variable	8393968	21	8393968
Typed-heap array	:	0	576	0	2	1168
Vector	:	8291	24	199448	8298	199616
Vector index	:	8291	variable	266504	8298	266768
VRF	:	1	216	216	1	216
VRF bit-map	:	4	8	96	4	96
VTY	:	4	variable	61232	4	61232
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	174822	197276368
Zebra DPlane Provider	:	2	256	528	2	528
DPlane NSes	:	1	48	56	1	56
Nexthop Group Entry	:	12	144	1840	257522	39159296
Nexthop Group Connected	:	12	40	512	16	672
Zebra Name Space	:	1	584	584	1	584
PTM BFD process reg table	:	1	32	40	1	40
Route Entry	:	500022	152	76139072	1002623	152509704

```

RIB destination      : 500019      88      44151816  500019  44151816
WQ wrapper           :          0      120          0  374999  45207256
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	295	288	2000006	0	0	00:03:34
500000	500002	N/A						
192.168.2.3	4	65003	220	188	2000006	0	0	00:00:57
500002	500002	N/A						

Total number of neighbors 2

```

root@r2:~# vtysh -c "sh memory zebra"
System allocator statistics:
  Total heap allocated: 581 MiB
  Holding block headers: 9224 KiB
  Used small blocks: 0 bytes
  Used ordinary blocks: 253 MiB
  Free small blocks: 112 KiB
  Free ordinary blocks: 328 MiB
  Ordinary blocks: 669904
  Small blocks: 1078
  Holding blocks: 2
(see system documentation for 'mallinfo' for meaning)

```

--- qmem libfrr ---

Type	Current#	Size	Total	Max#	MaxBytes
Buffer	9	24	216	9	216
Buffer data	1	4120	4120	3	12360
Host config	6	variable	400	6	400
Command Tokens	3536	72	254608	3539	254824
Command Token Text	2443	variable	77144	2445	77216
Command Token Help	2443	variable	58680	2445	58728
Command Argument	2	variable	48	5	120
Command Argument Name	702	variable	16848	704	16896

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	960	16	960
Graph	:	29	8	712	30	752
Graph Node	:	4115	32	164888	4119	165048
Hash	:	124	variable	6336	124	6336
Hash Bucket	:	775	24	18664	779	18760
Hash Index	:	62	variable	23200	63	23272
Interface	:	4	280	1120	4	1120
Connected	:	6	64	432	6	432
Link List	:	52	40	2144	57	2328
Link Node	:	111	24	2760	266634	6451008
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	535197	81349976
NetNS Context	:	2	variable	128	2	128
NetNS Name	:	1	18	24	1	24
Nexthop Group	:	0	32	0	1	56
Northbound Node	:	781	1208	943448	781	943448
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	1810	1824040
Stream FIFO	:	11	72	792	13	936
Route table	:	15	56	856	15	856
Route node	:	1000036	variable	120004944	1000036	120004944
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	6456	53	6456
Typed-hash bucket	:	21	variable	8393984	21	8393984
Typed-heap array	:	0	576	0	2	1168
Vector	:	8291	24	199448	8298	199616
Vector index	:	8291	variable	266504	8298	266768
VRF	:	1	216	216	1	216
VRF bit-map	:	4	8	96	4	96
VTY	:	4	variable	61216	4	61216
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    267592 301843776
Zebra DPlane Provider     :      2      256         528         2         528
DPlane NSes              :      1      48          56         1          56
Nexthop Group Entry      :     12     144       1856    30701  4666584
Nexthop Group Connected  :     12      40         496         16         656
Zebra Name Space         :      1     584         584         1         584
PTM BFD process reg table :      1      32          40         1          40
Route Entry              :    500022     152   76003472   561029  85276552
RIB destination          :    500019      88   44002456   500019  44002456
WQ wrapper               :      0     120          0    30691  3682920
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         192         2         192
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 13388110
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	656	792	13388110	0	0	00:01:50
500000	500002	N/A						
192.168.2.3	4	65003	579	691	13388110	0	0	00:01:47
500002	500002	N/A						

Total number of neighbors 2

```

root@r2:~# vtysh -c "sh memory zebra"
System allocator statistics:
Total heap allocated: 589 MiB
Holding block headers: 9224 KiB
Used small blocks: 0 bytes
Used ordinary blocks: 253 MiB

```



```

Free small blocks:    283 KiB
Free ordinary blocks: 336 MiB
Ordinary blocks:     729916
Small blocks:        3063
Holding blocks:      2

```

(see system documentation for 'mallinfo' for meaning)

--- qmem libfrr ---

Type	Current#	Size	Total	Max#	MaxBytes
Buffer	9	24	216	9	216
Buffer data	1	4120	4120	3	12360
Host config	6	variable	400	6	400
Command Tokens	3536	72	254608	3539	254824
Command Token Text	2443	variable	77144	2445	77216
Command Token Help	2443	variable	58680	2445	58728
Command Argument	2	variable	48	5	120
Command Argument Name	702	variable	16848	704	16896
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	960	16	960
Graph	29	8	712	30	752
Graph Node	4115	32	164888	4119	165048
Hash	124	variable	6336	124	6336
Hash Bucket	775	24	18664	779	18760
Hash Index	62	variable	23200	63	23272
Interface	4	280	1120	4	1120
Connected	6	64	432	6	432
Link List	52	40	2128	57	2328
Link Node	111	24	2760	544032	13092864
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	535197	81349976
NetNS Context	2	variable	128	2	128
NetNS Name	1	18	24	1	24
Nexthop Group	0	32	0	1	56
Northbound Node	781	1208	943448	781	943448
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	2878	1824040
Stream FIFO	11	72	792	13	936
Route table	15	56	856	15	856
Route node	1000036	variable	120117856	1000036	120117856
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	6456	53	6456
Typed-hash bucket	21	variable	8393984	21	8393984
Typed-heap array	0	576	0	2	1168
Vector	8291	24	199448	8298	199616
Vector index	8291	variable	266504	8298	266768

VRF	:	1	216	216	1	216
VRF bit-map	:	4	8	96	4	96
VTY	:	4	variable	61248	4	61248
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	267592	301843776
Zebra DPlane Provider	:	2	256	528	2	528
DPlane NSes	:	1	48	56	1	56
Nexthop Group Entry	:	12	144	1856	234011	35579080
Nexthop Group Connected	:	12	40	496	16	656
Zebra Name Space	:	1	584	584	1	584
PTM BFD process reg table	:	1	32	40	1	40
Route Entry	:	500022	152	76026656	806346	122568288
RIB destination	:	500019	88	44245512	500019	44245512
WQ wrapper	:	0	120	0	233999	28118104
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	192	2	192
ZClients	:	5	3808	19080	5	19080

Debugs:

```

2024/03/07 19:33:58.975314 ZEBRA: [JPQM1-M5JP3] Read 1000 packets from client: bgp.
Current ibuf fifo count: 1000. Conf P2p 1000
2024/03/07 19:33:59.016343 ZEBRA: [JPQM1-M5JP3] Read 1000 packets from client: bgp.
Current ibuf fifo count: 1000. Conf P2p 1000
2024/03/07 19:33:59.030079 ZEBRA: [JPQM1-M5JP3] Read 1000 packets from client: bgp.
Current ibuf fifo count: 1000. Conf P2p 1000
2024/03/07 19:33:59.045284 ZEBRA: [JPQM1-M5JP3] Read 731 packets from client: bgp.
Current ibuf fifo count: 731. Conf P2p 1000
2024/03/07 19:33:59.237118 ZEBRA: [JPQM1-M5JP3] Read 1000 packets from client: bgp.

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Current ibuf fifo count: 1000. Conf P2p 1000  
2024/03/07 19:33:59.247538 ZEBRA: [JPQM1-M5JP3] Read 337 packets from client: bgp.  
Current ibuf fifo count: 337. Conf P2p 1000  
2024/03/07 19:33:59.346724 ZEBRA: [JPQM1-M5JP3] Read 1000 packets from client: bgp.  
Current ibuf fifo count: 1000. Conf P2p 1000

2024/03/07 19:35:28.448988 ZEBRA: [JPQM1-M5JP3] Read 2000 packets from client: bgp.  
Current ibuf fifo count: 2000. Conf P2p 2000  
2024/03/07 19:35:28.458298 ZEBRA: [M7Q4P-46WDR] vty[60]@(config)# zebra zapi-  
packets 500  
2024/03/07 19:35:28.507767 ZEBRA: [JPQM1-M5JP3] Read 500 packets from client: bgp.  
Current ibuf fifo count: 500. Conf P2p 500  
2024/03/07 19:35:28.524459 ZEBRA: [JPQM1-M5JP3] Read 500 packets from client: bgp.  
Current ibuf fifo count: 500. Conf P2p 500  
2024/03/07 19:35:28.534398 ZEBRA: [JPQM1-M5JP3] Read 500 packets from client: bgp.  
Current ibuf fifo count: 500. Conf P2p 500