

## ● Show version

```
root@sonic:~# show version
```

SONiC Software Version: SONiC.master\_rebased.0-dirty-20200828.105946

Distribution: Debian 10.5

Kernel: 4.19.0-9-2-amd64

Build commit: f6456bd1

Build date: Fri Aug 28 03:07:13 UTC 2020

Built by: cynthia@Jupiter

Platform: x86\_64-inventec\_d6332-r0

HwSKU: INVENTEC-D6332

ASIC: broadcom

Serial Number: CKJ73891234

Uptime: 10:18:40 up 1 min, 2 users, load average: 1.29, 0.54, 0.20

Docker images:

REPOSITORY	TAG	IMAGE ID	SIZE
docker-nat	latest	b6fee4b52078	383MB
docker-nat	master_rebased.0-dirty-20200828.105946	b6fee4b52078	383MB
docker-sonic-mgmt-framework	latest	8a2a7c5f118c	476MB
docker-sonic-mgmt-framework	master_rebased.0-dirty-20200828.105946	8a2a7c5f118c	476MB
docker-sflow	latest	b38712f4a456	384MB
docker-sflow	master_rebased.0-dirty-20200828.105946	b38712f4a456	384MB
docker-router-advertiser	latest	eec63e9f84d0	351MB
docker-router-advertiser	master_rebased.0-dirty-20200828.105946	eec63e9f84d0	351MB
docker-platform-monitor	latest	87636976bd0f	423MB
docker-platform-monitor	master_rebased.0-dirty-20200828.105946	87636976bd0f	423MB
docker-lldp	latest	65bdde23b440	377MB
docker-lldp	master_rebased.0-dirty-20200828.105946	65bdde23b440	377MB
docker-database	latest	3ef636cee412	351MB
docker-database	master_rebased.0-dirty-20200828.105946	3ef636cee412	351MB
docker-orchagent	latest	a1f2bad7e515	394MB
docker-orchagent	master_rebased.0-dirty-20200828.105946	a1f2bad7e515	394MB
docker-dhcp-relay	latest	9a368f3a14de	358MB
docker-dhcp-relay	master_rebased.0-dirty-20200828.105946	9a368f3a14de	358MB
docker-sonic-telemetry	latest	fa31aa4c01ad	421MB
docker-sonic-telemetry	master_rebased.0-dirty-20200828.105946	fa31aa4c01ad	421MB
docker-fpm-frr	latest	cf6982117456	396MB
docker-fpm-frr	master_rebased.0-dirty-20200828.105946	cf6982117456	396MB
docker-snmp	latest	aa5ade4c3dd7	434MB
docker-snmp	master_rebased.0-dirty-20200828.105946	aa5ade4c3dd7	434MB
docker-teamd	latest	0fe4fb7ef9da	380MB
docker-teamd	master_rebased.0-dirty-20200828.105946	0fe4fb7ef9da	380MB
docker-syncd-brcm	latest	cab322aaf979	442MB
docker-syncd-brcm	master_rebased.0-dirty-20200828.105946	cab322aaf979	442MB

```
root@sonic:~#
```

## ● Show platform summary

```
root@sonic:~# show platform summary
```

Platform: x86\_64-inventec\_d6332-r0  
HwSKU: INVENTEC-D6332  
ASIC: broadcom  
root@sonic:~#

● **Bcmcmd version**

root@sonic:~# bcmcmd version  
version

Broadcom Command Monitor: Copyright (c) 1998-2020 Broadcom

Release: sdk-6.5.16 built 20200807 (Fri Aug 7 00:37:22 2020)

From sonicbld@b39d6afedeeb:/var/sonicbld/workspace/Build/broadcom/broadcom\_sai/20-sai-build-brcm-3.7.5.1/output/x86-xgs5-deb80//sdk/bcmsdk

Platform: X86

OS: Unix (Posix)

Chips:

BCM56640\_A0,  
BCM56850\_A0,  
BCM56340\_A0,  
BCM56960\_A0, BCM56860\_A0,

BCM56970\_A0, BCM56870\_A0,  
BCM56980\_A0, BCM56980\_B0,

PHYS: BCM5400, BCM54182, BCM54185, BCM54180,  
BCM54140, BCM54192, BCM54195, BCM54190,  
BCM54194, BCM54210, BCM54220, BCM54280,  
BCM54282, BCM54240, BCM54285, BCM5428X,  
BCM54290, BCM54292, BCM54294, BCM54295,  
BCM54296, BCM8750, BCM8752, BCM8754,  
BCM84740, BCM84164, BCM84758, BCM84780,  
BCM84784, BCM84318, BCM84328, Sesto,  
copper sfp

drivshell>  
root@sonic:~#

● **Show platform syseeprom**

root@sonic:~# show platform syseeprom

TlvInfo Header:

Id String: TlvInfo  
Version: 1

Total Length: 211

TLV Name	Code	Len	Value
Product Name	0x21	36	Lenovo ThinkSystem NE2580 RackSwitch
Part Number	0x22	10	SSG7A38810
Serial Number	0x23	11	CKJ73891234
Base MAC Address	0x24	6	7C:D3:0A:89:08:03
Manufacture Date	0x25	19	07/18/2018 12:00:00
Device Version	0x26	1	1
Label Revision	0x27	1	1
Platform Name	0x28	24	x86_64-inventec_d6332-r0
ONIE Version	0x29	17	uefi-202002181553
MAC Addresses	0x2A	2	256
Manufacturer	0x2B	6	Lenovo
Manufacture Country	0x2C	2	US
Vendor Name	0x2D	6	Lenovo
Service Tag	0x2F	21	7Y84CTO4WW MMM1234567
Vendor Extension	0xFD	13	
CRC-32	0xFE	4	0x10DC2A3F

(checksum valid)

root@sonic:~#

### ● Show system memory

root@sonic:~# show system-memory

	total	used	free	shared	buff/cache	available	
Mem:	7866	1817	4807		8	1242	5776
Swap:	0	0	0				

root@sonic:~#

### ● Ifconfig eth0

root@sonic:~# ifconfig eth0

```
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.6.141.71 netmask 255.255.255.0 broadcast 10.6.141.255
    inet6 fe80::cce1:19ff:fe06:1203 prefixlen 64 scopeid 0x20<link>
    ether ce:e1:19:06:12:03 txqueuelen 1000 (Ethernet)
    RX packets 5579 bytes 399140 (389.7 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 448 bytes 60078 (58.6 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
    device memory 0xfbe00000-fbe7ffff
```

root@sonic:~#

### ● Show environment

root@sonic:~# show environment

pmbus-virtual-0

Adapter: Virtual device

vin: +210.00 V

vout1: +12.07 V

fan1: 8992 RPM  
temp1: +27.2 C (high = +65.0 C)  
temp2: +37.2 C (high = +65.0 C)  
temp3: +35.2 C (high = +65.0 C)  
pin: 134.00 W  
pout1: 118.25 W (max = 880.00 W)  
pout2: 118.75 W (max = 880.00 W)  
iin: +0.68 A (max = +13.00 A)  
iout1: +9.84 A (max = +76.00 A, crit max = +85.00 A)  
iout2: +9.84 A (crit max = +85.00 A)

tmp75-virtual-0

Adapter: Virtual device

temp1: +42.6 C (high = +72.0 C, hyst = +70.0 C)

tmp75-virtual-0

Adapter: Virtual device

temp1: +27.4 C (high = +64.0 C, hyst = +62.0 C)

inv\_cpId-virtual-0

Adapter: Virtual device

fan1: 5220 RPM  
fan2: 5040 RPM  
fan3: 5160 RPM  
fan4: 4860 RPM  
fan5: 5220 RPM  
fan6: 5100 RPM  
fan7: 5280 RPM  
fan8: 4620 RPM  
fan9: 5160 RPM  
fan10: 4860 RPM

pch\_haswell-virtual-0

Adapter: Virtual device

PCH Temperature: +61.0 C

pmbus-virtual-0

Adapter: Virtual device

vin: +0.00 V ALARM  
vout1: +0.00 V  
fan1: 0 RPM  
temp1: +32.2 C (high = +65.0 C)  
temp2: +32.0 C (high = +65.0 C)  
temp3: +0.0 C (high = +65.0 C)  
pin: 0.00 W ALARM  
pout1: 0.00 W (max = 880.00 W)  
pout2: 0.00 W (max = 880.00 W)  
iin: +0.00 A (max = +13.00 A)  
iout1: +0.00 A (max = +76.00 A, crit max = +85.00 A)  
iout2: +0.00 A (crit max = +85.00 A)

ucd90160-virtual-0

Adapter: Virtual device

```

vout1:      +12.03 V (crit min = +10.20 V, min = +10.80 V)
              (max = +13.20 V, crit max = +13.80 V)
vout2:      +12.04 V (crit min = +10.20 V, min = +10.80 V)
              (max = +13.20 V, crit max = +13.80 V)
vout3:      +3.35 V (crit min =  +2.80 V, min =  +2.97 V)
              (max =  +3.63 V, crit max =  +3.73 V)
vout4:      +1.79 V (crit min =  +1.53 V, min =  +1.62 V)
              (max =  +1.98 V, crit max =  +2.07 V)
vout5:      +5.11 V (crit min =  +4.25 V, min =  +4.50 V)
              (max =  +5.40 V, crit max =  +5.50 V)
vout6:      +3.36 V (crit min =  +2.80 V, min =  +2.97 V)
              (max =  +3.63 V, crit max =  +3.73 V)
vout7:      +3.27 V (crit min =  +2.80 V, min =  +2.97 V)
              (max =  +3.63 V, crit max =  +3.73 V)
vout8:      +3.29 V (crit min =  +2.80 V, min =  +2.97 V)
              (max =  +3.63 V, crit max =  +3.73 V)
vout9:      +0.84 V (crit min =  +0.76 V, min =  +0.80 V)
              (max =  +0.98 V, crit max =  +1.02 V)
vout10:     +1.80 V (crit min =  +1.53 V, min =  +1.62 V)
              (max =  +1.98 V, crit max =  +2.07 V)
vout11:     +1.20 V (crit min =  +1.02 V, min =  +1.08 V)
              (max =  +1.32 V, crit max =  +1.38 V)
vout12:     +0.80 V (crit min =  +0.68 V, min =  +0.72 V)
              (max =  +0.88 V, crit max =  +0.92 V)
vout13:     +1.45 V (crit min =  +0.48 V, min =  +0.60 V)
              (max =  +2.10 V, crit max =  +2.25 V)

```

tmp75-virtual-0

Adapter: Virtual device

temp1: +37.2 C (high = +68.0 C, hyst = +66.0 C)

tmp75-virtual-0

Adapter: Virtual device

temp1: +48.9 C (high = +68.0 C, hyst = +66.0 C)

coretemp-isa-0000

Adapter: ISA adapter

Package id 0: +64.0 C (high = +82.0 C, crit = +104.0 C)

Core 0: +64.0 C (high = +82.0 C, crit = +104.0 C)

Core 1: +64.0 C (high = +82.0 C, crit = +104.0 C)

Core 2: +65.0 C (high = +82.0 C, crit = +104.0 C)

Core 3: +65.0 C (high = +82.0 C, crit = +104.0 C)

root@sonic:~#

## ● show platform fan

root@sonic:~# show platform fan

Drawer	LED	FAN	Speed	Direction	Presence	Status	Timestamp
N/A	N/A	PSU1_FAN1	34%	N/A	Present	OK	20200831 10:30:54
N/A	N/A	PSU2_FAN1	0%	N/A	Present	Not OK	20200831 10:30:55

## ● show platform temperature

root@sonic:~# show platform temperature

	Sensor	Temperature	High TH	Low TH	Crit High TH	Crit Low TH	Warning	Timestamp
CPU Board Temperature		49	N/A	N/A	N/A	N/A	False	20200831 10:30:55
Core 0 Temperature		65	82.0	N/A	N/A	N/A	False	20200831 10:30:55
Core 1 Temperature		65	82.0	N/A	N/A	N/A	False	20200831 10:30:55
Core 2 Temperature		64	82.0	N/A	N/A	N/A	False	20200831 10:30:55
Core 3 Temperature		64	82.0	N/A	N/A	N/A	False	20200831 10:30:55
Core 4 Temperature		64	82.0	N/A	N/A	N/A	False	20200831 10:30:55
FrontSide Temperature		27.375	N/A	N/A	N/A	N/A	False	20200831 10:30:55
NearASIC Temperature		42.625	N/A	N/A	N/A	N/A	False	20200831 10:30:55
PSU1 Temperature1		27.25	N/A	N/A	N/A	N/A	False	20200831 10:30:55
PSU1 Temperature2		37.5	N/A	N/A	N/A	N/A	False	20200831 10:30:55
PSU1 Temperature3		35.25	N/A	N/A	N/A	N/A	False	20200831 10:30:55
PSU2 Temperature1		32.25	N/A	N/A	N/A	N/A	False	20200831 10:30:55
PSU2 Temperature2		32	N/A	N/A	N/A	N/A	False	20200831 10:30:55
PSU2 Temperature3		0	N/A	N/A	N/A	N/A	False	20200831 10:30:55
RearSide Temperature		37.25	N/A	N/A	N/A	N/A	False	20200831 10:30:55

root@sonic:~#

## ● show platform psustatus

root@sonic:~# show platform psustatus

PSU Status LED

-----

PSU 1 OK

PSU 2 NOT OK

root@sonic:~#

## ● show interfaces status

root@sonic:~# show interfaces status

Interface	Lanes	Speed	MTU	FEC	Alias	Vlan	Oper	Admin	Type	Asym PFC
Ethernet0	21,22,23,24	100G	9100	N/A	Ethernet0	routed	up	up	QSFP28 or later	N/A
Ethernet4	17,18,19,20	100G	9100	N/A	Ethernet4	routed	down	up	N/A	N/A
Ethernet8	25,26,27,28	100G	9100	N/A	Ethernet8	routed	up	up	QSFP28 or later	N/A
Ethernet12	29,30,31,32	100G	9100	N/A	Ethernet12	routed	down	up	N/A	N/A
Ethernet16	37,38,39,40	100G	9100	N/A	Ethernet16	routed	down	up	N/A	N/A
Ethernet20	33,34,35,36	100G	9100	N/A	Ethernet20	routed	down	up	N/A	N/A
Ethernet24	41,42,43,44	100G	9100	N/A	Ethernet24	routed	down	up	N/A	N/A
Ethernet28	45,46,47,48	100G	9100	N/A	Ethernet28	routed	down	up	N/A	N/A
Ethernet32	5,6,7,8	100G	9100	N/A	Ethernet32	routed	down	up	N/A	N/A
Ethernet36	1,2,3,4	100G	9100	N/A	Ethernet36	routed	down	up	N/A	N/A
Ethernet40	9,10,11,12	100G	9100	N/A	Ethernet40	routed	down	up	N/A	N/A
Ethernet44	13,14,15,16	100G	9100	N/A	Ethernet44	routed	down	up	N/A	N/A
Ethernet48	53,54,55,56	100G	9100	N/A	Ethernet48	routed	down	up	N/A	N/A
Ethernet52	49,50,51,52	100G	9100	N/A	Ethernet52	routed	down	up	N/A	N/A
Ethernet56	57,58,59,60	100G	9100	N/A	Ethernet56	routed	down	up	N/A	N/A
Ethernet60	61,62,63,64	100G	9100	N/A	Ethernet60	routed	down	up	N/A	N/A
Ethernet64	69,70,71,72	100G	9100	N/A	Ethernet64	routed	down	up	N/A	N/A
Ethernet68	65,66,67,68	100G	9100	N/A	Ethernet68	routed	down	up	N/A	N/A
Ethernet72	73,74,75,76	100G	9100	N/A	Ethernet72	routed	down	up	N/A	N/A
Ethernet76	77,78,79,80	100G	9100	N/A	Ethernet76	routed	down	up	N/A	N/A
Ethernet80	117,118,119,120	100G	9100	N/A	Ethernet80	routed	down	up	N/A	N/A
Ethernet84	113,114,115,116	100G	9100	N/A	Ethernet84	routed	down	up	N/A	N/A
Ethernet88	121,122,123,124	100G	9100	N/A	Ethernet88	routed	down	up	N/A	N/A
Ethernet92	125,126,127,128	100G	9100	N/A	Ethernet92	routed	down	up	N/A	N/A
Ethernet96	85,86,87,88	100G	9100	N/A	Ethernet96	routed	down	up	N/A	N/A
Ethernet100	81,82,83,84	100G	9100	N/A	Ethernet100	routed	down	up	N/A	N/A
Ethernet104	89,90,91,92	100G	9100	N/A	Ethernet104	routed	down	up	N/A	N/A
Ethernet108	93,94,95,96	100G	9100	N/A	Ethernet108	routed	down	up	N/A	N/A
Ethernet112	101,102,103,104	100G	9100	N/A	Ethernet112	routed	down	up	N/A	N/A

```

Ethernet116 97,98,99,100 100G 9100 N/A Ethernet116 routed down up N/A N/A
Ethernet120 105,106,107,108 100G 9100 N/A Ethernet120 routed down up N/A N/A
Ethernet124 109,110,111,112 100G 9100 N/A Ethernet124 routed down up N/A N/A
root@sonic:~#

```

## ● bcmcmd ps

drivshell>

```
root@sonic:/usr/share/sonic/device/x86_64-inventec_d6332-r0/INVENTEC-D6332# bcmcmd ps
```

ps

port	ena/ link	Lns	speed/ duplex	link scan	auto neg?	STP state	pause	discrd	ops	lrm face	inter frame	max thru?	cut back	loop
ce0( 21)	up	4	100G	FD	SW	No	Forward	None	F	CR4	9122	No	No	
ce1( 17)	down	4	100G	FD	SW	No	Forward	None	F	CR4	9122	No	No	
ce2( 25)	up	4	100G	FD	SW	No	Forward	None	F	CR4	9122	No	No	
ce3( 29)	down	4	100G	FD	SW	No	Forward	None	F	CR4	9122	No	No	
ce4( 37)	down	4	100G	FD	SW	No	Forward	None	F	CR4	9122	No	No	
ce5( 33)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	
ce6( 41)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	
ce7( 45)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	
ce8( 5)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	
ce9( 1)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	
ce10( 9)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	
ce11( 13)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	
ce12( 53)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	
ce13( 49)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	
ce14( 57)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	
ce15( 61)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	
ce16( 71)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	
ce17( 67)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	
ce18( 75)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	
ce19( 79)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	
ce20(119)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	
ce21(115)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	
ce22(123)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	
ce23(127)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	
ce24( 87)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	
ce25( 83)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	
ce26( 91)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	
ce27( 95)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	
ce28(103)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	
ce29( 99)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	
ce30(107)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	
ce31(111)	down	4	100G	FD	SW	No	Forward	None	F	SR4	9122	No	No	

drivshell>

## ● show interface transceiver presence

```
root@sonic:~# show interfaces transceiver presence
```

Port	Presence
Ethernet0	Present
Ethernet4	Not present
Ethernet8	Present
Ethernet12	Not present
Ethernet16	Not present
Ethernet20	Not present
Ethernet24	Not present
Ethernet28	Not present
Ethernet32	Not present
Ethernet36	Not present
Ethernet40	Not present
Ethernet44	Not present
Ethernet48	Not present
Ethernet52	Not present

```

Ethernet56 Not present
Ethernet60 Not present
Ethernet64 Not present
Ethernet68 Not present
Ethernet72 Not present
Ethernet76 Not present
Ethernet80 Not present
Ethernet84 Not present
Ethernet88 Not present
Ethernet92 Not present
Ethernet96 Not present
Ethernet100 Not present
Ethernet104 Not present
Ethernet108 Not present
Ethernet112 Not present
Ethernet116 Not present
Ethernet120 Not present
Ethernet124 Not present
root@sonic:~#

```

## ● test vlan function

```
root@sonic:~# show vlan brief
```

VLAN ID	IP Address	Ports	Port Tagging	DHCP Helper Address
100		Ethernet0	untagged	
		Ethernet8	untagged	

```
root@sonic:~#
```

```
root@sonic:~# portstat
```

IFACE	STATE	RX_OK	RX_BPS	RX_UTIL	RX_ERR	RX_DRP	RX_OVR	TX_OK	TX_BPS	TX_UTIL	TX_ERR	TX_DRP	
Ethernet0	U	417179147	N/A	N/A	0	0	0	18	N/A	N/A	0	0	0
Ethernet4	D	0	N/A	N/A	0	0	0	0	N/A	N/A	0	0	0
Ethernet8	U	0	N/A	N/A	0	0	0	417179160	N/A	N/A	0	0	0
Ethernet12	D	0	N/A	N/A	0	0	0	0	N/A	N/A	0	0	0
Ethernet16	D	0	N/A	N/A	0	0	0	0	N/A	N/A	0	0	0
Ethernet20	D	0	N/A	N/A	0	0	0	0	N/A	N/A	0	0	0

```
... (skip)
```

```
root@sonic:~# config vlan add 200
```

```
root@sonic:~# config vlan member del 100 Ethernet8
```

```
root@sonic:~# config vlan member add 200 Ethernet8 -u
```

```
root@sonic:~# config save -y
```

```
Running command: /usr/local/bin/sonic-cfggen -d --print-data > /etc/sonic/config_db.json
```

```
root@sonic:~# config reload -y
```

```
Executing stop of service telemetry...
```

```
Warning: Stopping telemetry.service, but it can still be activated by:
```

```
telemetry.timer
```

```
Executing stop of service swss...
```

```
Executing stop of service lldp...
```

```
Executing stop of service pmon...
```

```
Executing stop of service bgp...
```

```
Executing stop of service hostcfgd...
```

```
Running command: /usr/local/bin/sonic-cfggen -j /etc/sonic/init_cfg.json -j /etc/sonic/config_db.json --write-to-db
```

```
Running command: /usr/bin/db_migrator.py -o migrate
```

```
Executing reset-failed of service bgp...
```

```
Executing reset-failed of service dhcp_relay...
```

```
Executing reset-failed of service hostcfgd...
```

```
Executing reset-failed of service hostname-config...
```

```
Executing reset-failed of service interfaces-config...
```

```
Executing reset-failed of service lldp...
```

```
Executing reset-failed of service ntp-config...
```

```
Executing reset-failed of service pmon...
```

```
Executing reset-failed of service radv...
```

```
Executing reset-failed of service rsyslog-config...
```

```
Executing reset-failed of service snmp...
```

```
Executing reset-failed of service swss...
```

```
Executing reset-failed of service syncd...
```

```
Executing reset-failed of service teamd...
```

```
Executing reset-failed of service telemetry...
```

```
Executing restart of service hostname-config...
```

```
Executing restart of service interfaces-config...
```

```
Executing restart of service ntp-config...
```

```
Executing restart of service rsyslog-config...
```

```
Executing restart of service swss...
```

```
Executing restart of service bgp...
```

```
Executing restart of service pmon...
```



```

Executing restart of service lldp...
Executing restart of service hostcfgd...
Executing restart of service telemetry...

```

```
root@sonic:~# show vlan brief
```

```

+-----+-----+-----+-----+
| VLAN ID | IP Address | Ports | Port Tagging | DHCP Helper Address |
+-----+-----+-----+-----+
| 100 | | Ethernet0 | untagged | |
+-----+-----+-----+-----+
| 200 | | Ethernet8 | untagged | |
+-----+-----+-----+-----+

```

```
root@sonic:~#
```

```
root@sonic:~# portstat -c
```

```
Cleared counters
```

```
root@sonic:~# portstat
```

```
Last cached time was 2020-08-31 11:22:06.723993
```

IFACE	STATE	RX_OK	RX_BPS	RX_UTIL	RX_ERR	RX_DRP	RX_OVR	TX_OK	TX_BPS	TX_UTIL	TX_ERR	TX_DRP
Ethernet0	U	333,514,468	1509.74 MB/s	29.49%	0	333,514,468	0	0	0.00 B/s	0.00%	0	0
Ethernet4	D	0	0.00 B/s	0.00%	0	0	0	0	0.00 B/s	0.00%	0	0
Ethernet8	U	0	0.00 B/s	0.00%	0	0	0	0	0.00 B/s	0.00%	0	0
Ethernet12	D	0	0.00 B/s	0.00%	0	0	0	0	0.00 B/s	0.00%	0	0
Ethernet16	D	0	0.00 B/s	0.00%	0	0	0	0	0.00 B/s	0.00%	0	0
Ethernet20	D	0	0.00 B/s	0.00%	0	0	0	0	0.00 B/s	0.00%	0	0

```
... (skip)
```

## ● Test mac learning

```
root@sonic:~# show mac
```

```
No. Vlan MacAddress Port Type
```

```
-----
```

```
Total number of entries 0
```

```
Send packets with increasing mac address
```

```
root@sonic:~# show mac
```

```

No. Vlan MacAddress Port Type
-----
1 100 00:00:05:00:00:0B Ethernet0 Dynamic
2 100 00:00:05:00:00:0C Ethernet0 Dynamic
3 100 00:00:05:00:00:04 Ethernet0 Dynamic
4 100 00:00:05:00:00:0D Ethernet0 Dynamic
5 100 00:00:05:00:00:06 Ethernet0 Dynamic
6 100 00:00:05:00:00:07 Ethernet0 Dynamic
7 100 00:00:05:00:00:03 Ethernet0 Dynamic
8 100 00:00:05:00:00:0F Ethernet0 Dynamic
9 100 00:00:05:00:00:0E Ethernet0 Dynamic
10 100 00:00:05:00:00:09 Ethernet0 Dynamic
11 100 00:00:05:00:00:05 Ethernet0 Dynamic
12 100 00:00:05:00:00:0A Ethernet0 Dynamic
13 100 00:00:05:00:00:02 Ethernet0 Dynamic
14 100 00:00:05:00:00:01 Ethernet0 Dynamic
15 100 00:00:05:00:00:08 Ethernet0 Dynamic
16 100 00:00:05:00:00:00 Ethernet0 Dynamic

```

```
Total number of entries 16
```

```
root@sonic:~#
```

## ● sonic-clear fdb all

```
root@sonic:~# show mac
```

```

No. Vlan MacAddress Port Type
-----
1 100 00:00:05:00:00:0B Ethernet0 Dynamic
2 100 00:00:05:00:00:0C Ethernet0 Dynamic
3 100 00:00:05:00:00:04 Ethernet0 Dynamic
4 100 00:00:05:00:00:0D Ethernet0 Dynamic
5 100 00:00:05:00:00:06 Ethernet0 Dynamic
6 100 00:00:05:00:00:07 Ethernet0 Dynamic
7 100 00:00:05:00:00:03 Ethernet0 Dynamic
8 100 00:00:05:00:00:0F Ethernet0 Dynamic
9 100 00:00:05:00:00:0E Ethernet0 Dynamic
10 100 00:00:05:00:00:09 Ethernet0 Dynamic
11 100 00:00:05:00:00:05 Ethernet0 Dynamic
12 100 00:00:05:00:00:0A Ethernet0 Dynamic
13 100 00:00:05:00:00:02 Ethernet0 Dynamic
14 100 00:00:05:00:00:01 Ethernet0 Dynamic
15 100 00:00:05:00:00:08 Ethernet0 Dynamic
16 100 00:00:05:00:00:00 Ethernet0 Dynamic

```

```
Total number of entries 16
```

```
root@sonic:~# sonic-clear fdb all
```

```
FDB entries are cleared.
```

```
root@sonic:~# show mac
```

```
No. Vlan MacAddress Port Type
```

```
-----  
Total number of entries 0
```

```
root@sonic:~#
```

### ● test arp function

Send arp request packets

```
root@sonic:/home/admin# show arp
```

```
Address MacAddress Iface Vlan
```

```
-----  
10.6.141.251 ca:ae:db:7a:d2:cb eth0 -  
10.6.141.254 d8:94:03:d5:0e:01 eth0 -  
192.0.1.5 00:00:00:00:00:01 Ethernet0 -
```

```
Total number of entries 3
```

```
root@sonic:/home/admin# portstat -c
```

send ipv4 packets to learned ip address, check if packets arrive

```
root@sonic:/home/admin# portstat
```

```
Last cached time was 2020-09-01 10:26:12.527575
```

```
IFACE STATE RX_OK RX_BPS RX_UTIL RX_ERR RX_DRP RX_OVR TX_OK TX_BPS TX_UTIL TX_ERR TX_DRP  
TX_OVR
```

```
-----  
Ethernet0 U 0 0.00 B/s 0.00% 0 0 0 100 360.36 B/s 0.00% 0 0 0  
Ethernet4 D 0 0.00 B/s 0.00% 0 0 0 0 0.00 B/s 0.00% 0 0 0  
Ethernet8 U 100 360.36 B/s 0.00% 0 0 0 0 0.00 B/s 0.00% 0 0 0  
Ethernet12 D 0 0.00 B/s 0.00% 0 0 0 0 0.00 B/s 0.00% 0 0 0  
Ethernet16 D 0 0.00 B/s 0.00% 0 0 0 0 0.00 B/s 0.00% 0 0 0  
Ethernet20 D 0 0.00 B/s 0.00% 0 0 0 0 0.00 B/s 0.00% 0 0 0
```

```
... (skip)
```

### ● test LAG function

Add Ethernet0 Ethernet4 to LAG

```
root@sonic:/etc/sonic# show interfaces portchannel
```

```
Flags: A - active, I - inactive, Up - up, Dw - Down, N/A - not available,
```

```
S - selected, D - deselected, * - not synced
```

```
No. Team Dev Protocol Ports
```

```
-----  
01 PortChannel01 LACP(A)(Up) Ethernet4(S) Ethernet0(S)
```

Add LAG group and Ethernet8 into same vlan

```
root@sonic:/etc/sonic# show vlan brief
```

```
-----  
+-----+-----+-----+-----+-----+  
| VLAN ID | IP Address | Ports | Port Tagging | DHCP Helper Address |  
+-----+-----+-----+-----+-----+  
| 100 | | Ethernet8 | untagged | |  
| | | PortChannel01 | untagged | |  
+-----+-----+-----+-----+-----+
```

Send packets with increasing src mac address from Ethernet8, check if packets are separated to 2 ports equally.

```
root@sonic:/etc/sonic# portstat
```

```
Last cached time was 2020-09-01 14:12:40.146524
```

```
IFACE STATE RX_OK RX_BPS RX_UTIL RX_ERR RX_DRP RX_OVR TX_OK TX_BPS TX_UTIL TX_ERR TX_DRP  
TX_OVR
```

```
-----  
Ethernet0 U 1 3.19 B/s 0.00% 0 0 0 503 813.50 B/s 0.00% 0 0 0  
Ethernet4 U 1 3.19 B/s 0.00% 0 0 0 503 813.50 B/s 0.00% 0 0 0  
Ethernet8 U 1,000 1596.95 B/s 0.00% 0 0 0 2 11.83 B/s 0.00% 0 0 0  
Ethernet12 D 0 0.00 B/s 0.00% 0 0 0 0 0.00 B/s 0.00% 0 0 0  
Ethernet16 D 0 0.00 B/s 0.00% 0 0 0 0 0.00 B/s 0.00% 0 0 0  
Ethernet20 D 0 0.00 B/s 0.00% 0 0 0 0 0.00 B/s 0.00% 0 0 0
```