

#####Common Conflg UT#####

#####MICAS M2-W6920-32QC TH3 BCM56980_B0 UT#####

SONiC Software Version: SONiC.master.0-dirty-20241024.020239
SONiC OS Version: 12
Distribution: Debian 12.7
Kernel: 6.1.0-22-2-amd64
Build commit: c2f88d0da
Build date: Thu Oct 24 07:30:41 UTC 2024
Built by: micasrd@micasrd-PowerEdge-R730

Platform: x86_64-micas_m2-w6920-32qc2x-r0
HwSKU: M2-W6920-32QC2X
ASIC: broadcom
ASIC Count: 1
Serial Number: N/A
Model Number: N/A
Hardware Revision: N/A
Uptime: 11:58:55 up 24 min, 1 user, load average: 1.69, 1.84, 1.61
Date: Tue 12 Nov 2024 11:58:55

Docker images:

REPOSITORY	TAG	IMAGE ID	SIZE
docker-macsec	latest	18d21ba3ac13	345MB
docker-teamd	latest	d6af73dba28e	342MB
docker-teamd	master.0-dirty-20241024.020239	d6af73dba28e	342MB
docker-orchagent	latest	82828dcb9b03	355MB
docker-orchagent	master.0-dirty-20241024.020239	82828dcb9b03	355MB
docker-dhcp-relay	latest	c1a506cfd5	322MB
docker-snmp	latest	5d511caf653a	357MB
docker-snmp	master.0-dirty-20241024.020239	5d511caf653a	357MB
docker-platform-monitor	latest	f48924d2a1ca	439MB
docker-platform-monitor	master.0-dirty-20241024.020239	f48924d2a1ca	439MB
docker-fpm-frr	latest	b811e25c5b2f	374MB
docker-fpm-frr	master.0-dirty-20241024.020239	b811e25c5b2f	374MB
docker-sonic-mgmt-framework	latest	ec3bab56e08c	400MB
docker-sonic-mgmt-framework	master.0-dirty-20241024.020239	ec3bab56e08c	400MB
docker-sflow	latest	e85bf703f5b8	343MB
docker-sflow	master.0-dirty-20241024.020239	e85bf703f5b8	343MB
docker-nat	latest	5bee084411d1	345MB
docker-nat	master.0-dirty-20241024.020239	5bee084411d1	345MB
docker-database	latest	6b23d02bc195	321MB
docker-database	master.0-dirty-20241024.020239	6b23d02bc195	321MB
docker-router-advertiser	latest	23c82751c6db	313MB
docker-router-advertiser	master.0-dirty-20241024.020239	23c82751c6db	313MB

```

docker-lldp          latest          cee4f800176e 359MB
docker-lldp          master.0-dirty-20241024.020239 cee4f800176e 359MB
docker-mux           latest          eb36930c4f54 365MB
docker-mux           master.0-dirty-20241024.020239 eb36930c4f54 365MB
docker-sonic-gnmi    latest          992ca7514e35 398MB
docker-sonic-gnmi    master.0-dirty-20241024.020239 992ca7514e35
398MB
docker-eventd        latest          96a833604605 313MB
docker-eventd        master.0-dirty-20241024.020239 96a833604605 313MB
docker-syncd-brcm    latest          c655b9793ff2 747MB
docker-syncd-brcm    master.0-dirty-20241024.020239 c655b9793ff2 747MB
docker-gbsyncd-broncos latest          aeca4c0555e2 359MB
docker-gbsyncd-broncos master.0-dirty-20241024.020239 aeca4c0555e2
359MB
docker-gbsyncd-credo latest          0f71931c2952 332MB
docker-gbsyncd-credo master.0-dirty-20241024.020239 0f71931c2952
332MB

```

```
admin@sonic:~$
```

```

root@sonic:/usr/bin# . syncd_init_common.sh
root@sonic:/usr/bin# config_syncd
Keep the config pll_bypass=1 in /tmp/th3-m2-w6920-32qc2x-32x400G.config.bcm
Keep the config core_clock_frequency=1325 in /tmp/th3-m2-w6920-32qc2x-32x400G.config.bcm
Keep the config dpr_clock_frequency=1000 in /tmp/th3-m2-w6920-32qc2x-32x400G.config.bcm
Keep the config device_clock_frequency=1325 in /tmp/th3-m2-w6920-32qc2x-32x400G.config.bcm
Keep the config port_flex_enable=1 in /tmp/th3-m2-w6920-32qc2x-32x400G.config.bcm
Keep the config sai_optimized_mmu=1 in /tmp/th3-m2-w6920-32qc2x-32x400G.config.bcm
Merged /usr/share/sonic/device/x86_64-broadcom_common/x86_64-broadcom_b98/
broadcom-sonic-th3.config.bcm to /tmp/th3-m2-w6920-32qc2x-32x400G.config.bcm
Merging /usr/share/sonic/hwsku/th3-m2-w6920-32qc2x-32x400G.config.bcm with /
usr/share/sonic/device/x86_64-broadcom_common/x86_64-broadcom_b98/
broadcom-sonic-th3.config.bcm, merge files stored in /tmp/th3-m2-w6920-32qc2x-32x400G.config.bcm
root@sonic:/usr/bin# . brcm_common_config_ut.sh
Checking Low Inheritance property...
Skip checking line starting with #
Skip checking line starting with #
Skip checking line starting with #
PASS: Checking Common config merged Success
root@sonic:/usr/bin# cd ..
root@sonic:/usr# ls
bin games include lib libexec local sbin share src
root@sonic:/usr# cd ..

```

```
root@sonic:/# cd /tmp/  
root@sonic:/tmp# vi th3-m2-w6920-32qc2x-32x400G.config.bcm  
root@sonic:/tmp# cat th3-m2-w6920-32qc2x-32x400G.config.bcm
```

.....

```
# Start of chip common properties  
# [Low Inheritance Precedence]  
phy_null=1  
l2xmsg_mode.0=1  
mmu_port_num_mc_queue.0=1  
module_64ports.0=1  
multicast_l2_range.0=511  
oversubscribe_mode=1  
bcm_num_cos=8  
default_cpu_tx_queue=7  
mmu_lossless=0  
# Drop monitor configuration  
flowtracker_enable=2  
flowtracker_max_flows=48000  
flowtracker_drop_monitor_enable=1  
flowtracker_export_interval_usecs=1000000  
flowtracker_max_export_pkt_length=9000  
flowtracker_fsp_reinject_max_length=128  
flow_init_mode=1  
num_queues_pci=46  
num_queues_uc0=1  
num_queues_uc1=1  
sai_eapp_config_file=/etc/broadcom/eapps_cfg.json  
sai_fast_convergence_support=1  
sai_nbr_bcast_ifp_optimized=1  
# Reduced Trap Group QSET for BRCM Sonic  
sai_brcm_sonic_trap_group=1  
# MMU Lossless configurations  
# End of chip common properties  
root@sonic:/tmp#
```

```
admin@sonic:/usr/share/sonic/device$ sudo config reload  
Acquired lock on /etc/sonic/reload.lock  
Clear current config and reload config in config_db format from the default config  
file(s) ? [y/N]: y  
Disabling container monitoring ...  
Stopping SONiC target ...  
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/local/bin/db_migrator.py -o migrate  
Running command: /usr/local/bin/sonic-cfggen -d -y /etc/sonic/sonic_version.yml -t /  
usr/share/sonic/templates/sonic-environment.j2,/etc/sonic/sonic-environment  
Restarting SONiC target ...  
Enabling container monitoring ...
```

Reloading Monit configuration ...
Reinitializing monit daemon

2024 Nov 12 11:36:47.123990 sonic NOTICE syncd#syncd: [none]
SAI_API_UNSPECIFIED:sai_api_initialize:458 BRCM SAI ver: [11.2.13.1], OCP SAI
ver: [1.14.0], SDK ver: [sdk-6.5.30-SP4]
2024 Nov 12 11:36:50.164433 sonic INFO syncd#supervisord: syncd SDK init
complete#015
2024 Nov 12 11:36:50.164642 sonic NOTICE syncd#syncd: [none]
SAI_API_SWITCH:brcm_sai_create_switch:1579 SAI Timing: SDK init time 3
seconds
2024 Nov 12 11:36:51.919367 sonic NOTICE swss#orchagent: :-
initAsicSdkHealthEventNotification: ASIC/SDK health event is not supported
2024 Nov 12 11:48:35.980264 sonic NOTICE syncd#syncd: [none]
SAI_API_SWITCH:brcm_sai_shutdown_switch:4931 SAI Timing: SDK shutdown
time 3 seconds
2024 Nov 12 11:48:52.244902 sonic NOTICE syncd#syncd: [none]
SAI_API_UNSPECIFIED:sai_api_initialize:458 BRCM SAI ver: [11.2.13.1], OCP SAI
ver: [1.14.0], SDK ver: [sdk-6.5.30-SP4]
2024 Nov 12 11:48:55.109149 sonic INFO syncd#supervisord: syncd SDK init
2024 Nov 12 11:48:55.109222 sonic NOTICE syncd#syncd: [none]
SAI_API_SWITCH:brcm_sai_create_switch:1579 SAI Timing: SDK init time 3
seconds
2024 Nov 12 11:48:58.813434 sonic NOTICE swss#orchagent: :-
initAsicSdkHealthEventNotification: ASIC/SDK health event is not supported

```
admin@sonic:/usr/share/sonic/device$ docker ps
CONTAINER ID   IMAGE                                COMMAND                                CREATED
STATUS        PORTS   NAMES
33cbab58931b  docker-snmp:latest                  "/usr/local/bin/supe..." 12 minutes
ago         Up 48 seconds      snmp
3774a53a9c6f  docker-platform-monitor:latest     "/usr/bin/docker_ini..." 12
minutes ago Up 52 seconds      pmon
05a7ed54b191  docker-sonic-mgmt-framework:latest "/usr/local/bin/supe..." 12
minutes ago Up 55 seconds      mgmt-framework
8155bb340799  docker-lldp:latest                  "/usr/bin/docker-lld..." 12 minutes
ago         Up 58 seconds      lldp
537b31895121  docker-sonic-gnmi:latest            "/usr/local/bin/supe..." 12 minutes
ago         Up About a minute  gnmi
f6ae9b34a3cf  c1a506cfd5                           "/usr/bin/docker_ini..." 13 minutes ago
Up About a minute      dhcp_relay
c91f00435c9c  docker-fpm-frr:latest               "/usr/bin/docker_ini..." 13 minutes
ago         Up About a minute  bgp
6dc1fa65a316  docker-router-advertiser:latest     "/usr/bin/docker-ini..." 13 minutes
ago         Up About a minute  radv
ec4ff4c25014  docker-syncd-brcm:latest            "/usr/local/bin/supe..." 13 minutes
ago         Up About a minute  syncd
b98201134043  docker-teamd:latest                 "/usr/local/bin/supe..." 13 minutes
ago         Up About a minute  teamd
```

```

4739ec663452 docker-orchagent:latest      "/usr/bin/docker-ini..." 13 minutes
ago Up About a minute swss
62a04806b4ad docker-eventd:latest                "/usr/local/bin/supe..." 13 minutes
ago Up About a minute eventd
b6c7003b7653 docker-database:latest          "/usr/local/bin/dock..." 13 minutes
ago Up 13 minutes database

```

Enter 'quit' to exit the application.

```

drivshell>show unit
show unit
Unit 0 chip BCM56980_B0 (current)
drivshell>admin@sonic:/usr/share/sonic/device$
admin@sonic:/usr/share/sonic/device$
admin@sonic:/usr/share/sonic/device$ show int s
Usage: show int [OPTIONS] COMMAND [ARGS]...
Try "show int -h" for help.

```

Error: Too many matches: status, switchport

```

admin@sonic:/usr/share/sonic/device$ show int status
Interface          Lanes Speed MTU FEC Alias  Vlan  Oper
Admin              Type  Asym PFC
-----
Ethernet1          1,2,3,4,5,6,7,8 400G 9100 N/A  Eth1 trunk down
up                  N/A  N/A
Ethernet9          9,10,11,12,13,14,15,16 400G 9100 N/A  Eth2 trunk
down up            N/A  N/A
Ethernet17         17,18,19,20,21,22,23,24 400G 9100 N/A  Eth3 trunk
down up            N/A  N/A
Ethernet25         25,26,27,28,29,30,31,32 400G 9100 N/A  Eth4 trunk
down up            N/A  N/A
Ethernet33         33,34,35,36,37,38,39,40 400G 9100 N/A  Eth5 trunk
down up            N/A  N/A
Ethernet41         41,42,43,44,45,46,47,48 400G 9100 N/A  Eth6 trunk
down up            QSFP28 or later N/A
Ethernet49         49,50,51,52,53,54,55,56 400G 9100 N/A  Eth7 trunk
down up            N/A  N/A
Ethernet57         57,58,59,60,61,62,63,64 400G 9100 N/A  Eth8 trunk
down up            N/A  N/A
Ethernet65         65,66,67,68,69,70,71,72 400G 9100 N/A  Eth9 trunk
down up            QSFP28 or later N/A
Ethernet73         73,74,75,76,77,78,79,80 400G 9100 N/A  Eth10 trunk
down up            N/A  N/A
Ethernet81         81,82,83,84,85,86,87,88 400G 9100 N/A  Eth11 trunk
down up            N/A  N/A
Ethernet89         89,90,91,92,93,94,95,96 400G 9100 N/A  Eth12 trunk
down up            N/A  N/A
Ethernet97         97,98,99,100,101,102,103,104 400G 9100 N/A  Eth13 trunk

```

```

down up N/A N/A
Ethernet105 105,106,107,108,109,110,111,112 400G 9100 N/A Eth14 trunk
down up N/A N/A
Ethernet113 113,114,115,116,117,118,119,120 400G 9100 N/A Eth15 trunk
down up N/A N/A
Ethernet121 121,122,123,124,125,126,127,128 400G 9100 N/A Eth16
trunk down up QSFP28 or later N/A
Ethernet129 129,130,131,132,133,134,135,136 400G 9100 N/A Eth17
trunk down up N/A N/A
Ethernet137 137,138,139,140,141,142,143,144 400G 9100 N/A Eth18
trunk down up N/A N/A
Ethernet145 145,146,147,148,149,150,151,152 400G 9100 N/A Eth19
trunk down up N/A N/A
Ethernet153 153,154,155,156,157,158,159,160 400G 9100 N/A Eth20
trunk down up N/A N/A
Ethernet161 161,162,163,164,165,166,167,168 400G 9100 N/A Eth21
trunk down up QSFP28 or later N/A
Ethernet169 169,170,171,172,173,174,175,176 400G 9100 N/A Eth22
trunk down up N/A N/A
Ethernet177 177,178,179,180,181,182,183,184 400G 9100 N/A Eth23
trunk down up N/A N/A
Ethernet185 185,186,187,188,189,190,191,192 400G 9100 N/A Eth24
trunk down up N/A N/A
Ethernet193 193,194,195,196,197,198,199,200 400G 9100 N/A Eth25
trunk down up N/A N/A
Ethernet201 201,202,203,204,205,206,207,208 400G 9100 N/A Eth26
trunk down up N/A N/A
Ethernet209 209,210,211,212,213,214,215,216 400G 9100 N/A Eth27
trunk down up N/A N/A
Ethernet217 217,218,219,220,221,222,223,224 400G 9100 N/A Eth28
trunk down up N/A N/A
Ethernet225 225,226,227,228,229,230,231,232 400G 9100 N/A Eth29
trunk down up N/A N/A
Ethernet233 233,234,235,236,237,238,239,240 400G 9100 N/A Eth30
trunk down up N/A N/A
Ethernet241 241,242,243,244,245,246,247,248 400G 9100 N/A Eth31
trunk down up QSFP+ or later with SFF-8636 or SFF-8436 N/A
Ethernet249 249,250,251,252,253,254,255,256 400G 9100 N/A Eth32
trunk down up N/A N/A
Ethernet257 258 10G 9100 N/A Eth33 trunk down
up N/A N/A
Ethernet258 257 10G 9100 N/A Eth34 trunk down
up N/A N/A
admin@sonic:/usr/share/sonic/device$

```

```

admin@sonic:~$ show logging Merging
2024 Nov 12 11:48:51.796876 sonic INFO syncd#supervisord: syncd Merging /usr/
share/sonic/hwsku/th3-m2-w6920-32qc2x-32x400G.config.bcm with /usr/share/

```

sonic/device/x86_64-broadcom_common/x86_64-broadcom_b98/broadcom-sonic-th3.config.bcm, merge files stored in /tmp/th3-m2-w6920-32qc2x-32x400G.config.bcm

#####MICAS M2—W6930-64QC TH4 BCM56990_B0
UT#####

admin@sonic:/usr/share/sonic/device/x86_64-micas_m2-w6930-64qc-r0\$ show ver

SONiC Software Version: SONiC.master.0-dirty-20241024.020239
SONiC OS Version: 12
Distribution: Debian 12.7
Kernel: 6.1.0-22-2-amd64
Build commit: c2f88d0da
Build date: Thu Oct 24 07:30:41 UTC 2024
Built by: micasrd@micasrd-PowerEdge-R730

Platform: x86_64-micas_m2-w6930-64qc-r0
HwSKU: M2-W6930-64QC
ASIC: broadcom
ASIC Count: 1
Serial Number: G1SB2JE000231
Model Number: 01019AQ0
Hardware Revision: 100
Uptime: 13:18:09 up 1:41, 1 user, load average: 0.60, 0.69, 0.65
Date: Tue 12 Nov 2024 13:18:09

Docker images:

REPOSITORY	TAG	IMAGE ID	SIZE
docker-macsec	latest	18d21ba3ac13	345MB
docker-teamd	latest	d6af73dba28e	342MB
docker-teamd	master.0-dirty-20241024.020239	d6af73dba28e	342MB
docker-orchagent	latest	82828dcb9b03	355MB
docker-orchagent	master.0-dirty-20241024.020239	82828dcb9b03	355MB
docker-dhcp-relay	latest	c1a506cfd5	322MB
docker-snmp	latest	5d511caf653a	357MB
docker-snmp	master.0-dirty-20241024.020239	5d511caf653a	357MB
docker-platform-monitor	latest	f48924d2a1ca	439MB
docker-platform-monitor	master.0-dirty-20241024.020239	f48924d2a1ca	439MB
docker-fpm-frr	latest	b811e25c5b2f	374MB
docker-fpm-frr	master.0-dirty-20241024.020239	b811e25c5b2f	374MB
docker-sonic-mgmt-framework	latest	ec3bab56e08c	400MB
docker-sonic-mgmt-framework	master.0-dirty-20241024.020239	ec3bab56e08c	400MB
docker-sflow	latest	e85bf703f5b8	343MB

```

docker-sflow          master.0-dirty-20241024.020239 e85bf703f5b8 343MB
docker-nat            latest                          5bee084411d1 345MB
docker-nat            master.0-dirty-20241024.020239 5bee084411d1 345MB
docker-database      latest                          6b23d02bc195 321MB
docker-database      master.0-dirty-20241024.020239 6b23d02bc195 321MB
docker-router-advertiser latest                          23c82751c6db 313MB
docker-router-advertiser master.0-dirty-20241024.020239 23c82751c6db
313MB
docker-lldp          latest                          cee4f800176e 359MB
docker-lldp          master.0-dirty-20241024.020239 cee4f800176e 359MB
docker-mux           latest                          eb36930c4f54 365MB
docker-mux           master.0-dirty-20241024.020239 eb36930c4f54 365MB
docker-sonic-gnmi    latest                          992ca7514e35 398MB
docker-sonic-gnmi    master.0-dirty-20241024.020239 992ca7514e35
398MB
docker-eventd        latest                          96a833604605 313MB
docker-eventd        master.0-dirty-20241024.020239 96a833604605 313MB
docker-syncd-brcm    latest                          c655b9793ff2 747MB
docker-syncd-brcm    master.0-dirty-20241024.020239 c655b9793ff2 747MB
docker-gbsyncd-broncos latest                          aeca4c0555e2 359MB
docker-gbsyncd-broncos master.0-dirty-20241024.020239 aeca4c0555e2
359MB
docker-gbsyncd-credo latest                          0f71931c2952 332MB
docker-gbsyncd-credo master.0-dirty-20241024.020239 0f71931c2952
332MB

```

```
admin@sonic:/usr/share/sonic/device/x86_64-micas_m2-w6930-64qc-r0$
```

```

root@sonic:/usr/bin# . syncd_init_common.sh
root@sonic:/usr/bin# config_syncd
Keep the config      pktio_mode: 1 in /tmp/th4-m2-
w6930-64qc-64x400G.config.yml
Keep the config      vlan_flooding_l2mc_num_reserved: 2048 in /tmp/th4-m2-
w6930-64qc-64x400G.config.yml
Keep the config      l3_alpm_template: 2 in /tmp/th4-m2-
w6930-64qc-64x400G.config.yml
Keep the config      bcm_tunnel_term_compatible_mode: 1 in /tmp/th4-m2-
w6930-64qc-64x400G.config.yml
Merged /usr/share/sonic/device/x86_64-broadcom_common/x86_64-broadcom_b99/
broadcom-sonic-th4.config.bcm to /tmp/th4-m2-w6930-64qc-64x400G.config.yml
Merging /usr/share/sonic/hwsku/th4-m2-w6930-64qc-64x400G.config.yml with /usr/
share/sonic/device/x86_64-broadcom_common/x86_64-broadcom_b99/broadcom-
sonic-th4.config.bcm, merge files stored in /tmp/th4-m2-
w6930-64qc-64x400G.config.yml

```

```

root@sonic:/usr/bin# . brcm_common_config_ut.sh
Checking Low Inheritance property...
Skip checking line starting with #
Skip checking line starting with #

```


PASS: Checking Common config merged Success

root@sonic:/usr/bin#

root@sonic:/tmp# cat th4-m2-w6930-64qc-64x400G.config.yml

...

Start of chip common properties

bcm_device:

0:

 global:

 # [Low Inheritance Precedence]

 #System Configs

 pfc_deadlock_seq_control : 1

 default_cpu_tx_queue: 7

 shared_block_mask_section: uc_bc

 #L3 Configs

 ipv6_lpm_128b_enable: 1

 skip_protocol_default_entries: 1

 l3_alpm_hit_skip: 1

 l3_ecmp_member_first_lkup_mem_size: 12288

 l3_intf_vlan_split_egress : 1

 sai_tunnel_support: 2

 sai_field_group_auto_prioritize: 1

 sai_port_queue_ecn_counter: 1

...

End of chip common properties

load@sonic:/usr/share/sonic/device/x86_64-micas_m2-w6930-64qc-r0\$ sudo config reload

Acquired lock on /etc/sonic/reload.lock

Clear current config and reload config in config_db format from the default config

file(s) ? [y/N]: y

Disabling container monitoring ...

Stopping SONiC target ...

The config file /etc/sonic/config_db.json doesn't exist

Running command: /usr/local/bin/sonic-cfggen -d -y /etc/sonic/sonic_version.yml -t /

usr/share/sonic/templates/sonic-environment.j2,/etc/sonic/sonic-environment

Restarting SONiC target ...

Enabling container monitoring ...

Reloading Monit configuration ...

Reinitializing monit daemon

Released lock on /etc/sonic/reload.lock

admin@sonic:/usr/share/sonic/device/x86_64-micas_m2-w6930-64qc-r0\$ docker ps

CONTAINER ID	IMAGE	COMMAND	CREATED
STATUS	PORTS	NAMES	

```

7132bdbd1a08 docker-sonic-gnmi:latest "/usr/local/bin/supe..." 2 hours ago Up About a minute gnmi
fbc7028fa3e2 docker-sflow:latest "/usr/local/bin/supe..." 2 hours ago Up 5 seconds sflow
b2a6daa1edb0 docker-platform-monitor:latest "/usr/bin/docker_ini..." 2 hours ago Up About a minute pmon
add5c7279746 docker-sonic-mgmt-framework:latest "/usr/local/bin/supe..." 2 hours ago Up About a minute mgmt-framework
7f1dfb51cb41 docker-lldp:latest "/usr/bin/docker-lld..." 2 hours ago Up About a minute lldp
16bd160d22ee docker-fpm-frr:latest "/usr/bin/docker_ini..." 2 hours ago Up 3 seconds bgp
056e78b1ef8d docker-router-advertiser:latest "/usr/bin/docker_ini..." 2 hours ago Up 4 seconds radv
88665fb7550f docker-syncd-brcm:latest "/usr/local/bin/supe..." 2 hours ago Up 5 seconds syncd
fb3721f06725 docker-teamd:latest "/usr/local/bin/supe..." 2 hours ago Up 2 seconds teamd
3676208a48b0 docker-orchagent:latest "/usr/bin/docker_ini..." 2 hours ago Up 6 seconds swss
45b84e3a3078 docker-eventd:latest "/usr/local/bin/supe..." 2 hours ago Up About a minute eventd
02bdc4528622 docker-database:latest "/usr/local/bin/dock..." 2 hours ago Up 2 hours database
admin@sonic:/usr/share/sonic/device/x86_64-micas_m2-w6930-64qc-r0$

```

```

usmin@sonic:/usr/share/sonic/device/x86_64-micas_m2-w6930-64qc-r0$ show int stat

```

Interface	Lanes	Speed	MTU	FEC	Alias	Vlan	Oper	Admin
Type	Asym PFC							
Ethernet0	65,66,67,68	400G	9100	rs	Eth1(Port1)	routed	down	up
N/A	N/A							
Ethernet4	69,70,71,72	400G	9100	rs	Eth2(Port2)	routed	down	up
N/A	N/A							
Ethernet8	25,26,27,28	400G	9100	rs	Eth3(Port3)	routed	down	up
N/A	N/A							
Ethernet12	21,22,23,24	400G	9100	rs	Eth4(Port4)	routed	down	up
N/A	N/A							
Ethernet16	73,74,75,76	400G	9100	rs	Eth5(Port5)	routed	down	up
N/A	N/A							
Ethernet20	77,78,79,80	400G	9100	rs	Eth6(Port6)	routed	down	up
N/A	N/A							
Ethernet24	33,34,35,36	400G	9100	rs	Eth7(Port7)	routed	down	up
N/A	N/A							
Ethernet28	29,30,31,32	400G	9100	rs	Eth8(Port8)	routed	down	up
N/A	N/A							
Ethernet32	81,82,83,84	400G	9100	rs	Eth9(Port9)	routed	down	up

N/A	N/A							
Ethernet36	85,86,87,88	400G	9100	rs	Eth10(Port10)	routed	down	
up		N/A	N/A					
Ethernet40	41,42,43,44	400G	9100	rs	Eth11(Port11)	routed	down	
up		N/A	N/A					
Ethernet44	37,38,39,40	400G	9100	rs	Eth12(Port12)	routed	down	
up		N/A	N/A					
Ethernet48	89,90,91,92	400G	9100	rs	Eth13(Port13)	routed	down	
up		N/A	N/A					
Ethernet52	93,94,95,96	400G	9100	rs	Eth14(Port14)	routed	down	
up		N/A	N/A					
Ethernet56	49,50,51,52	400G	9100	rs	Eth15(Port15)	routed	down	
up		N/A	N/A					
Ethernet60	45,46,47,48	400G	9100	rs	Eth16(Port16)	routed	down	
up		N/A	N/A					
Ethernet64	97,98,99,100	400G	9100	rs	Eth17(Port17)	routed	down	
up		N/A	N/A					
Ethernet68	101,102,103,104	400G	9100	rs	Eth18(Port18)	routed	down	
up		N/A	N/A					
Ethernet72	57,58,59,60	400G	9100	rs	Eth19(Port19)	routed	down	
up		N/A	N/A					
Ethernet76	53,54,55,56	400G	9100	rs	Eth20(Port20)	routed	down	
up		N/A	N/A					
Ethernet80	105,106,107,108	400G	9100	rs	Eth21(Port21)	routed	down	
up		N/A	N/A					
Ethernet84	109,110,111,112	400G	9100	rs	Eth22(Port22)	routed	down	
up		N/A	N/A					
Ethernet88	17,18,19,20	400G	9100	rs	Eth23(Port23)	routed	down	
up		N/A	N/A					
Ethernet92	61,62,63,64	400G	9100	rs	Eth24(Port24)	routed	down	
up		N/A	N/A					
Ethernet96	113,114,115,116	400G	9100	rs	Eth25(Port25)	routed	down	
up		N/A	N/A					
Ethernet100	117,118,119,120	400G	9100	rs	Eth26(Port26)	routed	down	
up		N/A	N/A					
Ethernet104	9,10,11,12	400G	9100	rs	Eth27(Port27)	routed	down	
up		N/A	N/A					
Ethernet108	13,14,15,16	400G	9100	rs	Eth28(Port28)	routed	down	
up		N/A	N/A					
Ethernet112	121,122,123,124	400G	9100	rs	Eth29(Port29)	routed	down	
up		N/A	N/A					
Ethernet116	125,126,127,128	400G	9100	rs	Eth30(Port30)	routed	down	
up		N/A	N/A					
Ethernet120	1,2,3,4	400G	9100	rs	Eth31(Port31)	routed	down	up
N/A	N/A							
Ethernet124	5,6,7,8	400G	9100	rs	Eth32(Port32)	routed	down	up
N/A	N/A							
Ethernet128	133,134,135,136	400G	9100	rs	Eth33(Port33)	routed	up	
up		N/A	N/A					
Ethernet132	129,130,131,132	400G	9100	rs	Eth34(Port34)	routed	down	

up			N/A	N/A				
Ethernet136	249,250,251,252	400G	9100	rs	Eth35(Port35)	routed	down	
up			N/A	N/A				
Ethernet140	253,254,255,256	400G	9100	rs	Eth36(Port36)	routed	down	
up			N/A	N/A				
Ethernet144	141,142,143,144	400G	9100	rs	Eth37(Port37)	routed	down	
up			N/A	N/A				
Ethernet148	137,138,139,140	400G	9100	rs	Eth38(Port38)	routed	down	
up			N/A	N/A				
Ethernet152	241,242,243,244	400G	9100	rs	Eth39(Port39)	routed	down	
up			N/A	N/A				
Ethernet156	245,246,247,248	400G	9100	rs	Eth40(Port40)	routed	down	
up			N/A	N/A				
Ethernet160	149,150,151,152	400G	9100	rs	Eth41(Port41)	routed	down	
up			N/A	N/A				
Ethernet164	145,146,147,148	400G	9100	rs	Eth42(Port42)	routed	down	
up			N/A	N/A				
Ethernet168	237,238,239,240	400G	9100	rs	Eth43(Port43)	routed	down	
up			N/A	N/A				
Ethernet172	197,198,199,200	400G	9100	rs	Eth44(Port44)	routed	down	
up			N/A	N/A				
Ethernet176	157,158,159,160	400G	9100	rs	Eth45(Port45)	routed	down	
up			N/A	N/A				
Ethernet180	153,154,155,156	400G	9100	rs	Eth46(Port46)	routed	down	
up			N/A	N/A				
Ethernet184	193,194,195,196	400G	9100	rs	Eth47(Port47)	routed	down	
up			N/A	N/A				
Ethernet188	205,206,207,208	400G	9100	rs	Eth48(Port48)	routed	down	
up			N/A	N/A				
Ethernet192	165,166,167,168	400G	9100	rs	Eth49(Port49)	routed	down	
up			N/A	N/A				
Ethernet196	161,162,163,164	400G	9100	rs	Eth50(Port50)	routed	down	
up			N/A	N/A				
Ethernet200	201,202,203,204	400G	9100	rs	Eth51(Port51)	routed	down	
up			N/A	N/A				
Ethernet204	213,214,215,216	400G	9100	rs	Eth52(Port52)	routed	down	
up			N/A	N/A				
Ethernet208	173,174,175,176	400G	9100	rs	Eth53(Port53)	routed	down	
up			N/A	N/A				
Ethernet212	169,170,171,172	400G	9100	rs	Eth54(Port54)	routed	down	
up			N/A	N/A				
Ethernet216	209,210,211,212	400G	9100	rs	Eth55(Port55)	routed	down	
up			N/A	N/A				
Ethernet220	221,222,223,224	400G	9100	rs	Eth56(Port56)	routed	down	
up			N/A	N/A				
Ethernet224	181,182,183,184	400G	9100	rs	Eth57(Port57)	routed	down	
up			N/A	N/A				
Ethernet228	177,178,179,180	400G	9100	rs	Eth58(Port58)	routed	down	
up			N/A	N/A				
Ethernet232	217,218,219,220	400G	9100	rs	Eth59(Port59)	routed	down	

```

up
Ethernet236 229,230,231,232 400G 9100 rs Eth60(Port60) routed down
up
Ethernet240 189,190,191,192 400G 9100 rs Eth61(Port61) routed up
up QSFP-DD Double Density 8X Pluggable Transceiver N/A
Ethernet244 185,186,187,188 400G 9100 rs Eth62(Port62) routed up
up
Ethernet248 225,226,227,228 400G 9100 rs Eth63(Port63) routed down
up
Ethernet252 233,234,235,236 400G 9100 rs Eth64(Port64) routed up
up
admin@sonic:/usr/share/sonic/device/x86_64-micas_m2-w6930-64qc-r0$

```

```

admin@sonic:~$ bcmcmd 'show unit'
show unit
Unit 0 chip BCM56990_B0 (current)
drivshell>
admin@sonic:~$

```

```

admin@sonic:~$ show logging Merging
2024 Nov 12 13:21:10.621226 sonic INFO syncd#supervisord: syncd Merging /usr/
share/sonic/hwsku/th4-m2-w6930-64qc-64x400G.config.yml with /usr/share/sonic/
device/x86_64-broadcom_common/x86_64-broadcom_b99/broadcom-sonic-
th4.config.bcm, merge files stored in /tmp/th4-m2-w6930-64qc-64x400G.config.yml
2024 Nov 12 13:22:44.728833 sonic INFO syncd#supervisord: syncd Merging /usr/
share/sonic/hwsku/th4-m2-w6930-64qc-64x400G.config.yml with /usr/share/sonic/
device/x86_64-broadcom_common/x86_64-broadcom_b99/broadcom-sonic-
th4.config.bcm, merge files stored in /tmp/th4-m2-w6930-64qc-64x400G.config.yml
admin@sonic:~$

```

```

2024 Nov 12 13:21:16.804171 sonic NOTICE syncd#syncd: [none]
SAI_API_SWITCH:brcm_sai_create_switch:1579 SAI Timing: SDK init time 5
seconds
2024 Nov 12 13:21:16.804171 sonic INFO syncd#supervisord: syncd rc: platform
SDK init complete#015
2024 Nov 12 13:21:21.321931 sonic NOTICE swss#orchagent: :-
initAsicSdkHealthEventNotification: ASIC/SDK health event is not supported
2024 Nov 12 13:21:53.491468 sonic NOTICE syncd#syncd: [none]
SAI_API_SWITCH:brcm_sai_shutdown_switch:4931 SAI Timing: SDK shutdown
time 0 seconds
2024 Nov 12 13:22:44.939624 sonic NOTICE syncd#syncd: [none]
SAI_API_UNSPECIFIED:sai_api_initialize:458 BRCM SAI ver: [11.2.13.1], OCP SAI
ver: [1.14.0], SDK ver: [sdk-6.5.30-SP4]
2024 Nov 12 13:22:51.407528 sonic NOTICE syncd#syncd: [none]
SAI_API_SWITCH:brcm_sai_create_switch:1579 SAI Timing: SDK init time 5
seconds
2024 Nov 12 13:22:51.407528 sonic INFO syncd#supervisord: syncd rc: platform

```

SDK init complete#015
2024 Nov 12 13:22:55.794658 sonic NOTICE swss#orchagent: :-
initAsicSdkHealthEventNotification: ASIC/SDK health event is not supported
admin@sonic:~\$

#####MICAS M2-W6510-48V8C TD3 X7 BCM56873
UT#####

admin@sonic:~\$ show ver

SONiC Software Version: SONiC.master.0-dirty-20241024.020239
SONiC OS Version: 12
Distribution: Debian 12.7
Kernel: 6.1.0-22-2-amd64
Build commit: c2f88d0da
Build date: Thu Oct 24 07:30:41 UTC 2024
Built by: micasrd@micasrd-PowerEdge-R730

Platform: x86_64-micas_m2-w6510-32c-r0
HwSKU: M2-W6510-32C
ASIC: broadcom
ASIC Count: 1
Serial Number: G1T213Y000054
Model Number: 01018906
Hardware Revision: 100
Uptime: 17:45:19 up 2:33, 1 user, load average: 0.62, 0.71, 1.00
Date: Tue 12 Nov 2024 17:45:19

Docker images:

REPOSITORY	TAG	IMAGE ID	SIZE
docker-macsec	latest	18d21ba3ac13	345MB
docker-teamd	latest	d6af73dba28e	342MB
docker-teamd	master.0-dirty-20241024.020239	d6af73dba28e	342MB
docker-dhcp-relay	latest	c1a506cfdfb5	322MB
docker-orchagent	latest	82828dcb9b03	355MB
docker-orchagent	master.0-dirty-20241024.020239	82828dcb9b03	355MB
docker-snmp	latest	5d511caf653a	357MB
docker-snmp	master.0-dirty-20241024.020239	5d511caf653a	357MB
docker-platform-monitor	latest	f48924d2a1ca	439MB
docker-platform-monitor	master.0-dirty-20241024.020239	f48924d2a1ca	439MB
docker-fpm-frr	latest	b811e25c5b2f	374MB
docker-fpm-frr	master.0-dirty-20241024.020239	b811e25c5b2f	374MB
docker-sonic-mgmt-framework	latest	ec3bab56e08c	400MB
docker-sonic-mgmt-framework	master.0-dirty-20241024.020239	ec3bab56e08c	400MB
docker-sflow	latest	e85bf703f5b8	343MB
docker-sflow	master.0-dirty-20241024.020239	e85bf703f5b8	343MB

```

docker-nat          latest          5bee084411d1  345MB
docker-nat          master.0-dirty-20241024.020239 5bee084411d1  345MB
docker-database     latest          6b23d02bc195  321MB
docker-database     master.0-dirty-20241024.020239 6b23d02bc195  321MB
docker-router-advertiser latest        23c82751c6db  313MB
docker-router-advertiser master.0-dirty-20241024.020239 23c82751c6db
313MB
docker-lldp         latest          cee4f800176e  359MB
docker-lldp         master.0-dirty-20241024.020239 cee4f800176e  359MB
docker-mux          latest          eb36930c4f54  365MB
docker-mux          master.0-dirty-20241024.020239 eb36930c4f54  365MB
docker-sonic-gnmi   latest          992ca7514e35  398MB
docker-sonic-gnmi   master.0-dirty-20241024.020239 992ca7514e35
398MB
docker-eventd       latest          96a833604605  313MB
docker-eventd       master.0-dirty-20241024.020239 96a833604605  313MB
docker-syncd-brcm   latest          c655b9793ff2  747MB
docker-syncd-brcm   master.0-dirty-20241024.020239 c655b9793ff2  747MB
docker-gbsyncd-brncos latest        aeca4c0555e2  359MB
docker-gbsyncd-brncos master.0-dirty-20241024.020239 aeca4c0555e2
359MB
docker-gbsyncd-credo latest          0f71931c2952  332MB
docker-gbsyncd-credo master.0-dirty-20241024.020239 0f71931c2952
332MB

```

admin@sonic:~\$

```

admin@sonic:~$ docker exec -it syncd bash
root@sonic:/# . /usr/bin/syncd_init_common.sh
root@sonic:/# config_syncd
Keep the config mem_cache_enable=0 in /tmp/td3-m2-
w6510-32c-32x100G.config.bcm
Keep the config ifp_inports_support_enable=1 in /tmp/td3-m2-
w6510-32c-32x100G.config.bcm
Keep the config ipv6_lpm_128b_enable=0x1 in /tmp/td3-m2-
w6510-32c-32x100G.config.bcm
Keep the config l3_max_ecmp_mode=1 in /tmp/td3-m2-
w6510-32c-32x100G.config.bcm
Keep the config bcm_num_cos=8 in /tmp/td3-m2-w6510-32c-32x100G.config.bcm
Keep the config sai_nbr_bcast_ifp_optimized=2 in /tmp/td3-m2-
w6510-32c-32x100G.config.bcm
Keep the config flow_init_mode=1 in /tmp/td3-m2-w6510-32c-32x100G.config.bcm
Keep the config sai_stats_support_mask=0x1 in /tmp/td3-m2-
w6510-32c-32x100G.config.bcm
Keep the config sai_optimized_mmu=1 in /tmp/td3-m2-
w6510-32c-32x100G.config.bcm
Keep the config use_all_splithorizon_groups=1 in /tmp/td3-m2-
w6510-32c-32x100G.config.bcm
Keep the config sai_tunnel_support=1 in /tmp/td3-m2-

```

```
w6510-32c-32x100G.config.bcm
Keep the config riot_enable=1 in /tmp/td3-m2-w6510-32c-32x100G.config.bcm
Keep the config riot_overlay_l3_intf_mem_size=4096 in /tmp/td3-m2-
w6510-32c-32x100G.config.bcm
Keep the config riot_overlay_l3_egress_mem_size=32768 in /tmp/td3-m2-
w6510-32c-32x100G.config.bcm
Keep the config l3_ecmp_levels=2 in /tmp/td3-m2-w6510-32c-32x100G.config.bcm
Keep the config riot_overlay_ecmp_resilient_hash_size=16384 in /tmp/td3-m2-
w6510-32c-32x100G.config.bcm
Merged /usr/share/sonic/device/x86_64-broadcom_common/x86_64-broadcom_b87/
broadcom-sonic-td3.config.bcm to /tmp/td3-m2-w6510-32c-32x100G.config.bcm
Merging /usr/share/sonic/hwsku/td3-m2-w6510-32c-32x100G.config.bcm with /usr/
share/sonic/device/x86_64-broadcom_common/x86_64-broadcom_b87/broadcom-
sonic-td3.config.bcm, merge files stored in /tmp/td3-m2-
w6510-32c-32x100G.config.bcm
root@sonic:/# . /usr/bin/brcm_common_config_ut.sh
Checking Low Inheritance property...
Skip checking line starting with #
Skip checking line starting with #
Skip checking line starting with #
Skip checking line starting with #
Skip checking line starting with #
PASS: Checking Common config merged Success
```

```
# Start of chip common properties
# [Low Inheritance Precedence]
lpm_scaling_enable=0
mmu_lossless=0
mpls_mem_entries=16384
vlan_xlate_1_mem_entries=65536
vlan_xlate_2_mem_entries=16384
l2_entry_used_as_my_station=1
multi_hash_recurse_depth_l3=3
# Drop monitor and IFA configuration
flowtracker_enable=2
flowtracker_max_flows=48000
flowtracker_drop_monitor_enable=1
flowtracker_export_interval_usecs=1000000
flowtracker_max_export_pkt_length=9000
flowtracker_fsp_reinject_max_length=128
host_as_route_disable=1
num_queues_pci=46
num_queues_uc0=1
num_queues_uc1=1
sai_eapp_config_file=/etc/broadcom/eapps_cfg.json
ifa_enable=1
sai_load_hw_config=/usr/lib/cancun/
sai_fast_convergence_support=1
sai_brcm_sonic_acl_enhancements=1
# Reduced Trap Group QSET for BRCM Sonic
```



```
sai_brcm_sonic_trap_group=1
# MMU Lossless configurations
sai_mmu_tc_to_pg_config=1
buf.map.egress_pool0.ingress_pool=0
buf.map.egress_pool1.ingress_pool=0
buf.map.egress_pool2.ingress_pool=1
#Tunnels
bcm_tunnel_term_compatible_mode=1
#RIOT Enable
# End of chip common properties
```

```
admin@sonic:~$ show logging Merging
2024 Nov 12 13:57:03.074377 sonic INFO syncd#supervisord: syncd Merging /usr/
share/sonic/hwsku/td3-m2-w6510-32c-32x100G.config.bcm with /usr/share/sonic/
device/x86_64-broadcom_common/x86_64-broadcom_b87/broadcom-sonic-
td3.config.bcm, merge files stored in /tmp/td3-m2-w6510-32c-32x100G.config.bcm
```

```
2024 Nov 12 17:27:49.487852 sonic NOTICE syncd#syncd: [none]
SAI_API_SWITCH:brcm_sai_create_switch:1579 SAI Timing: SDK init time 2
seconds
```

```
2024 Nov 12 17:27:52.447360 sonic NOTICE swss#orchagent: :-
initAsicSdkHealthEventNotification: ASIC/SDK health event is not supported
```

```
2024 Nov 12 17:30:11.026876 sonic NOTICE syncd#syncd: [none]
SAI_API_SWITCH:brcm_sai_shutdown_switch:4931 SAI Timing: SDK shutdown
time 3 seconds
```

```
2024 Nov 12 17:30:25.686125 sonic NOTICE syncd#syncd: [none]
SAI_API_UNSPECIFIED:sai_api_initialize:458 BRCM SAI ver: [11.2.13.1], OCP SAI
ver: [1.14.0], SDK ver: [sdk-6.5.30-SP4]
```

```
2024 Nov 12 17:30:28.200376 sonic NOTICE syncd#syncd: [none]
SAI_API_SWITCH:brcm_sai_create_switch:1579 SAI Timing: SDK init time 3
seconds
```

```
2024 Nov 12 17:30:31.298326 sonic NOTICE swss#orchagent: :-
initAsicSdkHealthEventNotification: ASIC/SDK health event is not supported
```

```
admin@sonic:~$ sudo config reload
Acquired lock on /etc/sonic/reload.lock
Clear current config and reload config in config_db format from the default config
file(s) ? [y/N]: y
Disabling container monitoring ...
Stopping SONiC target ...
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/local/bin/db_migrator.py -o migrate
Running command: /usr/local/bin/sonic-cfggen -d -y /etc/sonic/sonic_version.yml -t /
usr/share/sonic/templates/sonic-environment.j2,/etc/sonic/sonic-environment
Restarting SONiC target ...
Enabling container monitoring ...
Reloading Monit configuration ...
Reinitializing monit daemon
Released lock on /etc/sonic/reload.lock
```

```
admin@sonic:~$ show int s
Usage: show int [OPTIONS] COMMAND [ARGS]...
Try "show int -h" for help.
```

Error: Too many matches: status, switchport

```
admin@sonic:~$ show int status
```

Interface Type	Lanes Asym PFC	Speed	MTU	FEC	Alias	Vlan	Oper	Admin
Ethernet1 N/A	5,6,7,8 N/A	100G	9100	N/A	Eth1	trunk	down	up
Ethernet5 QSFP28 or later	1,2,3,4 N/A	100G	9100	N/A	Eth2	trunk	down	up
Ethernet9 N/A	13,14,15,16 N/A	100G	9100	N/A	Eth3	trunk	down	up
Ethernet13 QSFP28 or later	9,10,11,12 N/A	100G	9100	N/A	Eth4	trunk	down	up
Ethernet17 N/A	21,22,23,24 N/A	100G	9100	N/A	Eth5	trunk	down	up
Ethernet21 N/A	17,18,19,20 N/A	100G	9100	N/A	Eth6	trunk	down	up
Ethernet25 N/A	29,30,31,32 N/A	100G	9100	N/A	Eth7	trunk	down	up
Ethernet29 N/A	25,26,27,28 N/A	100G	9100	N/A	Eth8	trunk	down	up
Ethernet33 N/A	37,38,39,40 N/A	100G	9100	N/A	Eth9	trunk	down	up
Ethernet37 N/A	33,34,35,36 N/A	100G	9100	N/A	Eth10	trunk	down	up
Ethernet41 N/A	45,46,47,48 N/A	100G	9100	N/A	Eth11	trunk	down	up
Ethernet45 N/A	41,42,43,44 N/A	100G	9100	N/A	Eth12	trunk	down	up
Ethernet49 N/A	53,54,55,56 N/A	100G	9100	N/A	Eth13	trunk	down	up
Ethernet53 N/A	49,50,51,52 N/A	100G	9100	N/A	Eth14	trunk	down	up
Ethernet57 N/A	61,62,63,64 N/A	100G	9100	N/A	Eth15	trunk	down	up
Ethernet61 N/A	57,58,59,60 N/A	100G	9100	N/A	Eth16	trunk	down	up
Ethernet65 N/A	69,70,71,72 N/A	100G	9100	N/A	Eth17	trunk	down	up
Ethernet69 N/A	65,66,67,68 N/A	100G	9100	N/A	Eth18	trunk	down	up
Ethernet73 N/A	77,78,79,80 N/A	100G	9100	N/A	Eth19	trunk	down	up
Ethernet77 N/A	73,74,75,76 N/A	100G	9100	N/A	Eth20	trunk	down	up
Ethernet81	85,86,87,88	100G	9100	N/A	Eth21	trunk	down	up

```

N/A      N/A
Ethernet85  81,82,83,84  100G  9100  N/A  Eth22  trunk  down  up
N/A      N/A
Ethernet89  93,94,95,96  100G  9100  N/A  Eth23  trunk  down  up
N/A      N/A
Ethernet93  89,90,91,92  100G  9100  N/A  Eth24  trunk  down  up
N/A      N/A
Ethernet97  101,102,103,104  100G  9100  N/A  Eth25  trunk  down  up
N/A      N/A
Ethernet101  97,98,99,100  100G  9100  N/A  Eth26  trunk  down  up
N/A      N/A
Ethernet105  109,110,111,112  100G  9100  N/A  Eth27  trunk  down  up
N/A      N/A
Ethernet109  105,106,107,108  100G  9100  N/A  Eth28  trunk  down  up
N/A      N/A
Ethernet113  117,118,119,120  100G  9100  N/A  Eth29  trunk  down  up
N/A      N/A
Ethernet117  113,114,115,116  100G  9100  N/A  Eth30  trunk  down  up
N/A      N/A
Ethernet121  125,126,127,128  100G  9100  N/A  Eth31  trunk  down  up
N/A      N/A
Ethernet125  121,122,123,124  100G  9100  N/A  Eth32  trunk  down  up
N/A      N/A
admin@sonic:~$

```

```

admin@sonic:~$ docker ps
CONTAINER ID  IMAGE                                COMMAND                                CREATED
STATUS        PORTS  NAMES
96ce26b0a8cb  docker-sonic-gnmi:latest            "/usr/local/bin/supe..." 4 hours
ago Up 2 minutes  gnmi
1a78c542bfb2  docker-snmp:latest                  "/usr/local/bin/supe..." 4 hours ago
Up 2 minutes  snmp
c17384482ffa  docker-platform-monitor:latest      "/usr/bin/docker_ini..." 4 hours
ago Up 2 minutes  pmon
85c8aa46ceb2  docker-sonic-mgmt-framework:latest  "/usr/local/bin/supe..." 4
hours ago Up 2 minutes  mgmt-framework
ddda8b29ad33  docker-lldp:latest                   "/usr/bin/docker-lld..." 4 hours ago
Up 2 minutes  lldp
1e91565c5a96  c1a506cfd5                          "/usr/bin/docker_ini..." 4 hours ago
Up 2 minutes  dhcp_relay
a9823f955bd4  docker-fpm-frr:latest                "/usr/bin/docker_ini..." 4 hours ago
Up 2 minutes  bgp
159db1264585  docker-router-advertiser:latest     "/usr/bin/docker_ini..." 4 hours
ago Up 2 minutes  radv
cba1577cbd1b  docker-syncd-brcm:latest             "/usr/local/bin/supe..." 4 hours
ago Up 2 minutes  syncd
6cdf5567ac5b  docker-teamd:latest                  "/usr/local/bin/supe..." 4 hours ago
Up 2 minutes  teamd
41f2c1857a33  docker-orchagent:latest              "/usr/bin/docker_ini..." 4 hours ago
Up 2 minutes  swss

```

```
43c3660d80a5 docker-eventd:latest "/usr/local/bin/supe..." 4 hours ago
Up 2 minutes eventd
684a6639b2ca docker-database:latest "/usr/local/bin/dock..." 4 hours ago
Up 3 hours database
admin@sonic:~$ bcmcmd 'show unit'
show unit
Unit 0 chip BCM56870_A0 (current)
drivshell>
admin@sonic:~$
```

```
#####MICAS TD3 X2 M2-W6510-48GT4V
UT#####
```

```
admin@sonic:~$ show ver
```

```
SONiC Software Version: SONiC.master.0-dirty-20241024.020239
SONiC OS Version: 12
Distribution: Debian 12.7
Kernel: 6.1.0-22-2-amd64
Build commit: c2f88d0da
Build date: Thu Oct 24 07:30:41 UTC 2024
Built by: micasrd@micasrd-PowerEdge-R730
```

```
Platform: x86_64-micas_m2-w6510-48gt4v-r0
HwSKU: M2-W6510-48GT4V
ASIC: broadcom
ASIC Count: 1
Serial Number: N/A
Model Number: N/A
Hardware Revision: N/A
Uptime: 00:43:39 up 37 min, 1 user, load average: 0.87, 0.85, 0.81
Date: Wed 13 Nov 2024 00:43:39
```

Docker images:

REPOSITORY	TAG	IMAGE ID	SIZE
docker-macsec	latest	18d21ba3ac13	345MB
docker-teamd	latest	d6af73dba28e	342MB
docker-teamd	master.0-dirty-20241024.020239	d6af73dba28e	342MB
docker-dhcp-relay	latest	c1a506cfd5	322MB
docker-orchagent	latest	82828dcb9b03	355MB
docker-orchagent	master.0-dirty-20241024.020239	82828dcb9b03	355MB
docker-snmp	latest	5d511caf653a	357MB
docker-snmp	master.0-dirty-20241024.020239	5d511caf653a	357MB
docker-platform-monitor	latest	f48924d2a1ca	439MB
docker-platform-monitor	master.0-dirty-20241024.020239	f48924d2a1ca	439MB
docker-fpm-frr	latest	b811e25c5b2f	374MB
docker-fpm-frr	master.0-dirty-20241024.020239	b811e25c5b2f	374MB
docker-sonic-mgmt-framework	latest	ec3bab56e08c	400MB
docker-sonic-mgmt-framework	master.0-dirty-20241024.020239	ec3bab56e08c	400MB

```

400MB
docker-sflow          latest          e85bf703f5b8 343MB
docker-sflow          master.0-dirty-20241024.020239 e85bf703f5b8 343MB
docker-nat            latest          5bee084411d1 345MB
docker-nat            master.0-dirty-20241024.020239 5bee084411d1 345MB
docker-database       latest          6b23d02bc195 321MB
docker-database       master.0-dirty-20241024.020239 6b23d02bc195 321MB
docker-router-advertiser latest          23c82751c6db 313MB
docker-router-advertiser master.0-dirty-20241024.020239 23c82751c6db
313MB
docker-lldp           latest          cee4f800176e 359MB
docker-lldp           master.0-dirty-20241024.020239 cee4f800176e 359MB
docker-mux            latest          eb36930c4f54 365MB
docker-mux            master.0-dirty-20241024.020239 eb36930c4f54 365MB
docker-sonic-gnmi     latest          992ca7514e35 398MB
docker-sonic-gnmi     master.0-dirty-20241024.020239 992ca7514e35
398MB
docker-eventd         latest          96a833604605 313MB
docker-eventd         master.0-dirty-20241024.020239 96a833604605 313MB
docker-syncd-brcm     latest          c655b9793ff2 747MB
docker-syncd-brcm     master.0-dirty-20241024.020239 c655b9793ff2 747MB
docker-gbsyncd-broncos latest          aeca4c0555e2 359MB
docker-gbsyncd-broncos master.0-dirty-20241024.020239 aeca4c0555e2
359MB
docker-gbsyncd-credo  latest          0f71931c2952 332MB
docker-gbsyncd-credo  master.0-dirty-20241024.020239 0f71931c2952
332MB

```

```
admin@sonic:~$
```

```

root@sonic:/# . /usr/bin/syncd_init_common.sh
root@sonic:/# config_syncd
Keep the config l3_mem_entries=16384 in /tmp/td3-m2-
w6510-48gt4v-48x1G+4x25G.config.bcm
Keep the config l3_alpm_enable=2 in /tmp/td3-m2-
w6510-48gt4v-48x1G+4x25G.config.bcm
Keep the config ipv6_lpm_128b_enable=0x1 in /tmp/td3-m2-
w6510-48gt4v-48x1G+4x25G.config.bcm
Keep the config l2xmsg_mode=0 in /tmp/td3-m2-
w6510-48gt4v-48x1G+4x25G.config.bcm
Keep the config l2_mem_entries=32768 in /tmp/td3-m2-
w6510-48gt4v-48x1G+4x25G.config.bcm
Merged /usr/share/sonic/device/x86_64-broadcom_common/x86_64-broadcom_b27/
broadcom-sonic-td3.config.bcm to /tmp/td3-m2-
w6510-48gt4v-48x1G+4x25G.config.bcm
Merging /usr/share/sonic/hwsku/td3-m2-w6510-48gt4v-48x1G+4x25G.config.bcm
with /usr/share/sonic/device/x86_64-broadcom_common/x86_64-broadcom_b27/
broadcom-sonic-td3.config.bcm, merge files stored in /tmp/td3-m2-
w6510-48gt4v-48x1G+4x25G.config.bcm
root@sonic:/# . /usr/bin/brcm_common_config_ut.sh

```

```
Checking Low Inheritance property...
PASS: Checking Common config merged Success
root@sonic:/#
```

```
root@sonic:/# cat /tmp/td3-m2-w6510-48gt4v-48x1G+4x25G.config.bcm
```

```
# Start of chip common properties
# [Low Inheritance Precedence]
mem_cache_enable=1
lpm_scaling_enable=0
riot_enable=0
# End of chip common properties
root@sonic:/#
```

```
admin@sonic:~$ bcmcmd 'show unit'
show unit
Unit 0 chip BCM56274_A1 (current)
drivshell>
```

```
admin@sonic:~$ sudo config reload
Acquired lock on /etc/sonic/reload.lock
Clear current config and reload config in config_db format from the default config
file(s) ? [y/N]: y
Disabling container monitoring ...
Stopping SONiC target ...
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/local/bin/db_migrator.py -o migrate
Running command: /usr/local/bin/sonic-cfggen -d -y /etc/sonic/sonic_version.yml -t /
usr/share/sonic/templates/sonic-environment.j2,/etc/sonic/sonic-environment
Restarting SONiC target ...
Enabling container monitoring ...
Reloading Monit configuration ...
Reinitializing monit daemon
Released lock on /etc/sonic/reload.lock
admin@sonic:~$
```

```
#####ACCTON AS7816 TH2 TH2 BCM56970
UT#####
```

```
admin@sonic:~$ show ver
```

```
SONiC Software Version: SONiC.common_config_improvement.0-52478c247
SONiC OS Version: 12
Distribution: Debian 12.6
```

Kernel: 6.1.0-11-2-amd64
Build commit: 52478c247
Build date: Thu Aug 22 16:50:39 UTC 2024
Built by: gp934806@bld-lvn-csg-01

Platform: x86_64-accton_as7816_64x-r0
HwSKU: Accton-AS7816-64X
ASIC: broadcom
ASIC Count: 1
Serial Number: 781664X1735013
Model Number: FP3ZZ7664005A
Hardware Revision: N/A
Uptime: 19:51:55 up 44 min, 1 user, load average: 3.04, 1.72, 1.36
Date: Thu 19 Sep 2024 19:51:55

Docker images:

REPOSITORY	TAG	IMAGE ID	SIZE
docker-macsec	latest	b0188c5be8b4	346MB
docker-orchagent	common_config_improvement.0-52478c247		
1ead70d4bbca			356MB
docker-orchagent	latest	1ead70d4bbca	356MB
docker-teamd	common_config_improvement.0-52478c247		
37158c1d731b			343MB
docker-teamd	latest	37158c1d731b	343MB
docker-dhcp-relay	latest	2b2052a5e45c	324MB
docker-snmp	common_config_improvement.0-52478c247		2957f56a60ff
354MB			
docker-snmp	latest	2957f56a60ff	354MB
docker-fpm-frr	common_config_improvement.0-52478c247		
83c9b3dc8517			375MB
docker-fpm-frr	latest	83c9b3dc8517	375MB
docker-platform-monitor	common_config_improvement.0-52478c247		
ec8d378125ad			440MB
docker-platform-monitor	latest	ec8d378125ad	440MB
docker-sonic-mgmt-framework	common_config_improvement.0-52478c247		
a0b2ab850811			401MB
docker-sonic-mgmt-framework	latest	a0b2ab850811	401MB
docker-sflow	common_config_improvement.0-52478c247		0c52e447e4c3
344MB			
docker-sflow	latest	0c52e447e4c3	344MB
docker-nat	common_config_improvement.0-52478c247		af699f5aaada
346MB			
docker-nat	latest	af699f5aaada	346MB
docker-lldp	common_config_improvement.0-52478c247		7be3f1ec3ce0
360MB			
docker-lldp	latest	7be3f1ec3ce0	360MB
docker-database	common_config_improvement.0-52478c247		
51d5cf1cfba7			323MB
docker-database	latest	51d5cf1cfba7	323MB
docker-router-advertiser	common_config_improvement.0-52478c247		

```

7e31e91290f8 315MB
docker-router-advertiser latest 7e31e91290f8 315MB
docker-mux common_config_improvement.0-52478c247
4485e3e73b76 366MB
docker-mux latest 4485e3e73b76 366MB
docker-sonic-gnmi common_config_improvement.0-52478c247
04b8649bf144 399MB
docker-sonic-gnmi latest 04b8649bf144 399MB
docker-eventd common_config_improvement.0-52478c247
c52571fdb9cb 314MB
docker-eventd latest c52571fdb9cb 314MB
docker-gbsyncd-broncos common_config_improvement.0-52478c247
670a7e10d7e0 353MB
docker-gbsyncd-broncos latest 670a7e10d7e0 353MB
docker-syncd-brcm common_config_improvement.0-52478c247
b7aec14dedc5 716MB
docker-syncd-brcm latest b7aec14dedc5 716MB
docker-gbsyncd-credo common_config_improvement.0-52478c247
8bb18b236bd2 326MB
docker-gbsyncd-credo latest

```

```

root@sonic:/usr/bin# . syncd_init_common.sh
root@sonic:/usr/bin# config_syncd
Keep the config schan_intr_enable=0 in /tmp/th2-
as7816-64x25G-48x100G_row1.config.bcm
Keep the config l2xmsg_mode=1 in /tmp/th2-
as7816-64x25G-48x100G_row1.config.bcm
Keep the config mmu_lossless=1 in /tmp/th2-
as7816-64x25G-48x100G_row1.config.bcm
Keep the config arl_clean_timeout_usec=15000000 in /tmp/th2-
as7816-64x25G-48x100G_row1.config.bcm
Keep the config asf_mem_profile=2 in /tmp/th2-
as7816-64x25G-48x100G_row1.config.bcm
Keep the config bcm_stat_flags=1 in /tmp/th2-
as7816-64x25G-48x100G_row1.config.bcm
Keep the config bcm_stat_jumbo=9236 in /tmp/th2-
as7816-64x25G-48x100G_row1.config.bcm
Keep the config cdma_timeout_usec=15000000 in /tmp/th2-
as7816-64x25G-48x100G_row1.config.bcm
Keep the config dma_desc_timeout_usec=15000000 in /tmp/th2-
as7816-64x25G-48x100G_row1.config.bcm
Keep the config ipv6_lpm_128b_enable=1 in /tmp/th2-
as7816-64x25G-48x100G_row1.config.bcm
Keep the config lpm_scaling_enable=0 in /tmp/th2-
as7816-64x25G-48x100G_row1.config.bcm
Keep the config max_vp_lags=0 in /tmp/th2-
as7816-64x25G-48x100G_row1.config.bcm
Keep the config miim_intr_enable=0 in /tmp/th2-

```



```
as7816-64x25G-48x100G_row1.config.bcm
Keep the config module_64ports=1 in /tmp/th2-
as7816-64x25G-48x100G_row1.config.bcm
Keep the config oversubscribe_mode=1 in /tmp/th2-
as7816-64x25G-48x100G_row1.config.bcm
Keep the config bcm_num_cos=10 in /tmp/th2-
as7816-64x25G-48x100G_row1.config.bcm
Merged /usr/share/sonic/device/x86_64-broadcom_common/x86_64-broadcom_b97/
broadcom-sonic-th2.config.bcm to /tmp/th2-
as7816-64x25G-48x100G_row1.config.bcm
Merging /usr/share/sonic/hwsku/th2-as7816-64x25G-48x100G_row1.config.bcm
with /usr/share/sonic/device/x86_64-broadcom_common/x86_64-broadcom_b97/
broadcom-sonic-th2.config.bcm, merge files stored in /tmp/th2-
as7816-64x25G-48x100G_row1.config.bcm
```

```
# Start of chip common properties
# [Low Inheritance Precedence]
default_cpu_tx_queue=9
# Drop monitor configuration
flowtracker_enable=2
flowtracker_max_flows=48000
flowtracker_drop_monitor_enable=1
flowtracker_export_interval_usecs=1000000
flowtracker_max_export_pkt_length=9000
flowtracker_fsp_reinject_max_length=128
flow_init_mode=1
num_queues_pci=46
num_queues_uc0=1
num_queues_uc1=1
sai_eapp_config_file=/etc/broadcom/eapps_cfg.json
sai_fast_convergence_support=1
sai_nbr_bcast_ifp_optimized=1
# Reduced Trap Group QSET for BRCM Sonic
sai_brcm_sonic_trap_group=1
sai_stats_support_mask=0x1
# End of chip common properties
root@sonic:/usr/bin# exit
```