- name: system\_fw\_check

runner: autoval

continue\_on\_fail: true

proxy: controller

cmd: system\_check.system\_check

args:

test\_params:

fw\_types:

- fw\_type: openbmc

version: latest

- fw\_type: bios

version: latest

- fw\_type: nic

version: latest

generic\_fw\_check: true

generic\_fw\_version: latest

os\_release:

os\_name: centos

os\_version: ">=7.8.2003"

kernel\_version: ">=4.16.18"

- name: memory\_test-200s

runner: autoval

proxy: controller

continue\_on\_fail: true

cmd: memory\_test.memory\_test

args:

test\_params:

runtime: 200

- name: stressapp-200s

runner: autoval

proxy: controller

continue\_on\_fail: true

cmd: stressapp.stressapp\_test

args:

test\_params:

runtime: 200

- name: mprime-200s

runner: autoval

proxy: controller

continue\_on\_fail: true

cmd: mprime.mprime\_test

args:

test\_params:

config\_check: true

user\_args:

runtime: 200

- name: ptugen\_600s\_no\_turbo

runner: autoval

proxy: controller

continue\_on\_fail: true

cmd: ptugen.ptugen

args:

test\_params:

cputest: 1

run\_definition:

- interval: 180

sequence: 100

- interval: 20

sequence: 0

runtime: 600

turbo\_freq\_check: false

- name: Coremark-1-Cycle

runner: autoval

proxy: controller

continue\_on\_fail: true

cmd: coremark.coremark

args:

test\_params:

iterations: 1

- name: Streampeak\_1cycle

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: streampeak.streampeak

args:

test\_params:

iterations: 1

- name: 1\_cycle\_reboot

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: cycle\_test.cycletest

args:

test\_params:

cycle\_count: 1

cycle\_type: reboot

- name: MLC\_latency\_matrix

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: mlc.mlc

args:

test\_params:

command: --latency\_matrix

- name: MLC\_max\_bandwidth

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: mlc.mlc

args:

test\_params:

command: --max\_bandwidth

- name: bios\_fw\_update\_inband\_stable\_to\_n

runner: autoval

continue\_on\_fail: true

reboot: true

proxy: controller

cmd: system\_fw\_update.system\_fw\_update

args:

test\_params:

fw\_types:

- fw\_type: bios

method: inband

cycle: 1

upgrade\_to: latest

downgrade\_to: stable

- name: Bios-inband-n2n-1cycle

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: system\_fw\_update.system\_fw\_update

args:

test\_params:

fw\_types:

- fw\_type: bios

method: inband

upgrade\_to: latest

downgrade\_to: latest

cycle: 1

- name: Random\_err\_inj

runner: autoval

continue\_on\_fail: true

reboot: true

proxy: controller

cmd: random\_error\_injection.random\_error\_injection

args:

test\_params:

error\_types:

memory\_correctable: true

memory\_uncorrectable\_fatal: true

injection\_duration: 150

max\_sleep\_seconds: 0

min\_sleep\_seconds: 0

- name: PCIE Uncorrectable Error Injection

runner: autoval

continue\_on\_fail: true

reboot: true

proxy: controller

cmd: error\_injection.error\_injection

args:

test\_params:

sleeper\_stall: true

error\_types:

pcie\_express\_uncorrectable\_fatal: 'True'

bg\_monitor:

- name: sleeperstall

args:

runtime: 200

interval: 210

- name: fio

args:

run\_definition:

write\_job:

template: basic\_write.fio

args:

NAME: write\_fio

BLKSIZE: 4k

RW: write

VERIFY: md5

SIZE: 3%

DEPTH: '128'

RUNTIME: '1200'

interval: 1200

- name: Memory Correctable Error Injection

runner: autoval

continue\_on\_fail: true

reboot: true

proxy: controller

cmd: error\_injection.error\_injection

args:

test\_params:

bg\_monitor:

- args:

runtime: 200

interval: 210

name: sleeperstall

error\_types:

memory\_correctable: 'True'

sleeper\_stall: true

- name: Memory Uncorrectable Error Injection

runner: autoval

continue\_on\_fail: true

reboot: true

proxy: controller

cmd: error\_injection.error\_injection

args:

test\_params:

bg\_monitor:

- args:

runtime: 200

interval: 210

name: sleeperstall

error\_types:

memory\_uncorrectable\_fatal: 'True'

sleeper\_stall: true

- name: Bios\_upgrade\_downgrade

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: system\_fw\_update.system\_fw\_update

args:

test\_params:

fw\_types:

- fw\_type: bios

cycle: 1

method: oob

- name: openbmc\_fw\_update\_n2n

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: system\_fw\_update.system\_fw\_update

args:

test\_params:

fw\_types:

- fw\_type: openbmc

cycle: 1

downgrade\_to: latest

method: oob

upgrade\_to: latest

- name: Openbmc\_fan\_util\_stres\_1\_cycle

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: openbmc\_verify\_fanutil\_functionality.openbmc\_verify\_fanutil\_functionality

args:

test\_params:

desired\_percentage\_to\_set:

- 55

- 91

fan\_number\_to\_set:

- 0

- 1

stress\_count: 1

zone\_number\_to\_set:

- 0

- 1

- name: Openbmc\_ssh\_stress\_200s\_3threads

runner: autoval

continue\_on\_fail: true

proxy: controller

cmd: openbmc\_ssh\_stress.openbmc\_ssh\_stress

args:

test\_params:

duration: 200

thread\_count: 3

- name: Sensor-read-1-cycles

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: openbmc\_sensor\_read\_stress.openbmc\_sensor\_read\_stress

args:

test\_params:

cycle\_count: 1

lcr\_value: 2.73

ucr\_value: 3.73

- name: Bmc-Cpu-stress-1-cycle

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: openbmc\_cpu\_stress.openbmc\_cpu\_stress

args:

test\_params:

cycle\_count: 1

- name: Ipmi\_1\_iteration

runner: autoval

continue\_on\_fail: true

proxy: controller

cmd: openbmc\_inband\_ipmi\_stress.openbmc\_inband\_ipmi\_stress

args:

test\_params:

commands:

- raw 6 1

- fru

- mc info

iterations: 1

- name: 1\_cycle\_warm\_cycle

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: cycle\_test.cycletest

args:

test\_params:

cycle\_count: 1

cycle\_type: warm

- name: 1\_cycle\_openbmc\_reboot

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: openbmc\_reset\_stress.openbmc\_reset\_stress

args:

test\_params:

forced\_bmc\_reset: false

inband\_bmc\_reset: false

inband\_sled\_cycle: false

oob\_reboot: true

oob\_sled\_cycle: false

stress\_count: 1

- name: Openbmc-sol-util-stress-200s

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: openbmc\_solutil\_stress.openbmc\_solutil\_stress

args:

test\_params:

duration: 200

- name: openbmc\_ncsiutil\_check

runner: autoval

continue\_on\_fail: true

proxy: controller

cmd: openbmc\_ncsiutil\_check.openbmc\_ncsiutil\_check

args:

test\_params:

size: 512

stress\_count: 1

- name: TP-sensor-util-1-cycle

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: openbmc\_sensor\_util\_stress.openbmc\_sensor\_util\_stress

args:

test\_params:

cycle\_count: 1

ignore\_list:

- MB\_HOST\_BOOT\_TEMP

- name: TP-cfg-util

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: openbmc\_cfg\_util\_check.openbmc\_cfg\_util

args:

test\_params:

cmd\_list:

tiogapass:

- pwr\_server\_last\_state

- sysfw\_ver\_server

- identify\_sled

- timestamp\_sled

- server\_por\_cfg

- server\_sensor\_health

- nic\_sensor\_health

- server\_sel\_error

- server\_boot\_order

- ntp\_server

- name: 1\_cycle\_openbmc\_inband\_reset

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: openbmc\_reset\_stress.openbmc\_reset\_stress

args:

test\_params:

forced\_bmc\_reset: false

inband\_bmc\_reset: true

inband\_sled\_cycle: false

oob\_reboot: false

oob\_sled\_cycle: false

stress\_count: 1

- name: host\_reboot\_1\_iteration

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: cycle\_test.cycletest

args:

test\_params:

cycle\_count: 1

cycle\_type: reboot

- name: 1\_cycle\_openbmc\_forced\_reset

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: openbmc\_reset\_stress.openbmc\_reset\_stress

args:

test\_params:

forced\_bmc\_reset: true

inband\_bmc\_reset: false

inband\_sled\_cycle: false

oob\_reboot: false

oob\_sled\_cycle: false

stress\_count: 1

- name: Data\_retention

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: drive\_md5\_verify.drive\_md5\_verify

args:

test\_params:

skip\_fs: false

md5\_verification: true

cycle\_count: 1

cycle\_type\_list:

- 'off'

- 'on'

wait\_time: 600

drive\_type: ssd

percent\_write\_size: 10

filesystem: true

write\_fio:

ssd\_md5:

template: basic\_write.fio

filesystem\_type: ext4

filesystem\_options: ''

filesystem: true

args:

NAME: fio\_filesystem\_test

BLKSIZE: 128k

SIZE: 1g

DEPTH: 128

RUNTIME: 3m

VERIFY: md5

RW: randwrite

read\_fio:

ssd\_md5:

template: basic\_read.fio

filesystem: true

args:

NAME: fio\_filesystem\_test

BLKSIZE: 128k

SIZE: 1g

DEPTH: 128

RUNTIME: 3m

VERIFY: md5

RW: randread

verify\_fio:

ssd\_md5:

template: basic\_verify.job

filesystem: true

args:

NAME: fio\_filesystem\_test

BLKSIZE: 128k

SIZE: 1g

RUNTIME: 0

DEPTH: 128

VERIFY: md5

RW: read

- name: Flash\_firmware\_update

runner: autoval

continue\_on\_fail: true

proxy: controller

cmd: flash\_firmware\_update.flash\_firmware\_update

args:

test\_params:

cycle: 1

verify\_io: false

versions:

- stable

- latest

- name: Flash\_firmware\_update\_with\_IO

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: flash\_firmware\_update.flash\_firmware\_update

args:

test\_params:

cycle: 1

versions:

- stable

- latest

verify\_io: true

run\_definition:

verify:

template: range\_verify.job

args:

RW: randrw

BLKSIZERANGE: 4k-128k

SIZE: 1G

RUNTIME: 5m

DEPTH: 128

VERIFY: crc32c

- name: Nvme\_cli\_no\_cryptoerase

runner: autoval

continue\_on\_fail: true

proxy: controller

cmd: nvme\_cli.nvme\_cli

args:

test\_params:

drive\_interface: nvme

drive\_type: ssd

check\_crypto\_erase: false

- name: Flash\_data\_integrity\_1\_local\_dc

runner: autoval

continue\_on\_fail: true

proxy: controller

cmd: drive\_data\_integrity.drive\_data\_integrity

args:

test\_params:

cycle\_count: 1

cycle\_type: dc

drive\_type: ssd

pre\_condition: false

remote\_fio: false

- name: Flash\_data\_integrity\_1\_remote\_warm

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: drive\_data\_integrity.drive\_data\_integrity

args:

test\_params:

cycle\_count: 1

cycle\_type: warm

pre\_condition: false

remote\_fio: true

drive\_type: ssd

- name: Flash\_fio\_readiness

runner: autoval

continue\_on\_fail: true

proxy: controller

cmd: fio\_fb.fio\_fb

args:

test\_params:

drive\_type: ssd

run\_definition:

randrw:

args:

RUNTIME: 3m

template: flash\_fio\_readiness.job

- name: Nvme\_format\_1\_cycle

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

proxy: controller

cmd: storage.flash.nvme\_format.nvme\_format

args:

test\_params:

cycle\_count: 1

fio\_run\_definition:

filesystem\_io:

args:

BLKSIZE: 4K

BUFFER\_PATTERN: '0xA5'

DEPTH: '128'

DO\_VERIFY: 1

NAME: fio\_nvme

RUNTIME: 5m

RW: write

SIZE: 1G

LOOPS: 1

MIXWRITE: 50

MIXREAD: 50

template: filesystem\_template.job

fstype: ext4

secure\_erase\_option:

- 0

- 1

- name: Flash\_temp\_check

runner: autoval

continue\_on\_fail: true

proxy: controller

cmd: storage.flash.flash\_temp\_check.flash\_temp\_check

args:

test\_params:

test\_count: 1

- name: NVMe\_NS\_resize\_usercap

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

proxy: controller

cmd: storage.flash.nvme\_ns\_resize.nvme\_ns\_resize

args:

test\_params:

drive\_type: ssd

drive\_interface: nvme

sweep\_param\_key: usercapacity

sweep\_param\_unit: num\_TB

sweep\_param\_values:

- 0.5

nvme\_id\_ctrl\_filter: nvme\_id\_ctrl["tnvmcap"] >= 536870912000

cycle\_count: 1

run\_definition:

filesystem\_io:

template: filesystem\_template.job

args:

NAME: fio\_nvme

RW: write

BLKSIZE: 4K

SIZE: 1G

RUNTIME: 3m

DEPTH: 128

DO\_VERIFY: 1

BUFFER\_PATTERN: '0xA5'

LOOPS: 1

MIXWRITE: 50

MIXREAD: 50

- name: NVMe\_NS\_resize

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

proxy: controller

cmd: storage.flash.nvme\_ns\_resize.nvme\_ns\_resize

args:

test\_params:

drive\_interface: nvme

drive\_type: ssd

sweep\_param\_key: overprovisioning

sweep\_param\_unit: percent

sweep\_param\_values:

- 7

- 26

cycle\_count: 1

run\_definition:

filesystem\_io:

args:

BLKSIZE: 4K

BUFFER\_PATTERN: '0xA5'

DEPTH: 128

DO\_VERIFY: 1

NAME: fio\_nvme

RUNTIME: 3m

RW: write

SIZE: 1G

LOOPS: 1

MIXWRITE: 50

MIXREAD: 50

template: filesystem\_template.job

- name: Storage\_data\_collector

runner: autoval

continue\_on\_fail: true

proxy: controller

cmd: fio\_fb.fio\_fb

args:

test\_params:

run\_definition:

randrw:

args:

BLKSIZE: 8k

IODEPTH: '32'

RUNTIME: 3m

SIZE: 1G

precondition\_loops: 0

template: stress\_fio.fio

- name: IoGo\_test

runner: autoval

continue\_on\_fail: true

cmd: storage.flash.iogo.iogo

args:

test\_params:

drive\_interface: nvme

drive\_type: ssd

fstype: xfs

max\_latency: 15

precondition\_loops: 1

- name: dirty\_cycle\_fio\_internal\_flush

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: storage.fio.fio\_internal\_flush.fio\_internal\_flush

args:

test\_params:

drive\_type: ssd

drive\_interface: nvme

validate\_bootdrive\_smart: true

nvme\_flush: false

power\_trigger: true

cycle\_count: 1

cycle\_type: warm

workloads:

nvme\_flush\_write:

nvme\_flush:

template: basic\_write.fio

args:

BLKSIZE: 4k

SIZE: 1G

DEPTH: 128

RUNTIME: 5m

VERIFY: md5

RW: randwrite

nvme\_flush\_read:

nvme\_flush:

template: basic\_read.fio

args:

BLKSIZE: 4k

SIZE: 1G

DEPTH: 128

RUNTIME: 5m

VERIFY: md5

RW: randread

nvme\_flush\_verify:

nvme\_flush:

template: basic\_verify.job

args:

RW: read

VERIFY: md5

BLKSIZE: 4k

SIZE: 1G

RUNTIME: 0

DEPTH: 128

- name: fio\_and\_md5function\_with\_fs

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: drive\_md5\_verify.drive\_md5\_verify

args:

test\_params:

skip\_fs: false

md5\_verification: true

cycle\_count: 1

cycle\_type\_list:

- warm

drive\_type: ssd

percent\_write\_size: 10

filesystem: true

write\_fio:

ssd\_md5:

template: basic\_write.fio

filesystem\_type: ext4

filesystem\_options: ''

filesystem: true

args:

NAME: fio\_filesystem\_test

BLKSIZE: 4k

SIZE: 1g

DEPTH: 64

RUNTIME: 5m

VERIFY: md5

RW: randwrite

read\_fio:

ssd\_md5:

template: basic\_read.fio

filesystem: true

skip\_fs: true

args:

NAME: fio\_filesystem\_test

BLKSIZE: 4k

SIZE: 1g

DEPTH: 64

RUNTIME: 5m

VERIFY: md5

RW: randread

verify\_fio:

ssd\_md5:

template: basic\_verify.job

filesystem: true

skip\_fs: true

args:

NAME: fio\_filesystem\_test

BLKSIZE: 4k

SIZE: 1g

DEPTH: 64

VERIFY: md5

RW: randread

- name: ssd\_md5\_verify\_fio\_with\_fs

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: drive\_md5\_verify.drive\_md5\_verify

args:

test\_params:

skip\_fs: false

cycle\_count: 1

drive\_type: ssd

cycle\_type\_list:

- warm

percent\_write\_size: 10

filesystem: true

write\_fio:

ssd\_md5:

template: basic\_write.fio

filesystem\_type: ext4

filesystem\_options: ''

filesystem: true

args:

NAME: fio\_filesystem\_test

BLKSIZE: 4k

SIZE: 1g

DEPTH: 64

RUNTIME: 5m

RW: randwrite

VERIFY: md5

read\_fio:

ssd\_md5:

template: basic\_read.fio

filesystem: true

skip\_fs: true

args:

NAME: fio\_filesystem\_test

BLKSIZE: 4k

SIZE: 1g

DEPTH: 64

RUNTIME: 5m

RW: randread

VERIFY: md5

verify\_fio:

ssd\_md5:

template: basic\_verify.job

filesystem: true

skip\_fs: true

args:

NAME: fio\_filesystem\_test

BLKSIZE: 4k

SIZE: 1g

DEPTH: 64

VERIFY: md5

RW: randread

- name: ssd\_md5\_verify\_fio\_with\_raw

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: drive\_md5\_verify.drive\_md5\_verify

args:

test\_params:

include\_boot\_drive: true

md5\_verification: true

cycle\_type\_list:

- warm

percent\_write\_size: 10

write\_fio:

ssd\_md5:

template: basic\_write.fio

args:

NAME: fio\_raw\_test

BLKSIZE: 4k

SIZE: 1G

DEPTH: 64

RUNTIME: 5m

VERIFY: md5

RW: randwrite

read\_fio:

ssd\_md5:

template: basic\_read.fio

args:

NAME: fio\_raw\_test

BLKSIZE: 4k

SIZE: 1G

DEPTH: 64

RUNTIME: 5m

VERIFY: md5

RW: randread

verify\_fio:

ssd\_md5:

template: basic\_verify.job

args:

NAME: fio\_raw\_test

BLKSIZE: 4k

SIZE: 1G

DEPTH: 64

RW: randread

VERIFY: md5

- name: fdi\_inband1\_reboot

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: drive\_data\_integrity.drive\_data\_integrity

args:

test\_params:

cycle\_count: 1

cycle\_type: inband\_reboot

pre\_condition: false

remote\_fio: false

- name: pci\_completion\_timeout

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: storage.pcie\_completion\_timeout.pcie\_completion\_timeout

args:

test\_params:

drive\_type: ssd

drive\_interface: nvme

- name: power\_cycle\_1\_with\_flush

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: storage.fio.fio\_internal\_flush.fio\_internal\_flush

args:

test\_params:

drive\_type: ssd

drive\_interface: nvme

validate\_bootdrive\_smart: true

nvme\_flush: true

power\_trigger: false

cycle\_count: 1

workloads:

nvme\_flush\_write:

nvme\_flush:

template: basic\_write.fio

args:

BLKSIZE: 4k

SIZE: 1G

DEPTH: 64

RUNTIME: 5m

VERIFY: md5

RW: randwrite

nvme\_flush\_read:

nvme\_flush:

template: basic\_read.fio

args:

BLKSIZE: 4k

SIZE: 1G

DEPTH: 64

RUNTIME: 5m

VERIFY: md5

RW: randread

nvme\_flush\_verify:

nvme\_flush:

template: basic\_verify.job

args:

RW: read

BLKSIZE: 4k

SIZE: 1G

RUNTIME: 0

DEPTH: '64'

VERIFY: md5

- name: power\_cycle\_1\_without\_flush

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: storage.fio.fio\_internal\_flush.fio\_internal\_flush

args:

test\_params:

drive\_type: ssd

drive\_interface: nvme

validate\_bootdrive\_smart: true

nvme\_flush: false

power\_trigger: false

cycle\_count: 1

workloads:

nvme\_flush\_write:

nvme\_flush:

template: basic\_write.fio

args:

BLKSIZE: 4k

SIZE: 1G

DEPTH: 64

RUNTIME: 5m

VERIFY: md5

RW: randwrite

nvme\_flush\_read:

nvme\_flush:

template: basic\_read.fio

args:

BLKSIZE: 4k

SIZE: 1G

DEPTH: 64

RUNTIME: 5m

VERIFY: md5

RW: randread

nvme\_flush\_verify:

nvme\_flush:

template: basic\_verify.job

args:

RW: read

BLKSIZE: 4k

SIZE: 1G

RUNTIME: 0

DEPTH: 64

VERIFY: md5

- name: nvme\_format\_1\_cycles

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

proxy: controller

cmd: storage.flash.nvme\_format.nvme\_format

args:

test\_params:

fstype: ext4

drive\_type: ssd

drive\_interface: nvme

cycle\_count: 1

secure\_erase\_option:

- 0

- 1

- 2

run\_definition:

filesystem\_io:

template: nvme\_format\_template.fio

args:

NAME: fio\_nvme

RW: write

BLKSIZE: 4K

SIZE: 1G

RUNTIME: 1m

DEPTH: '128'

DO\_VERIFY: 1

BUFFER\_PATTERN: '0xA5'

- name: ssd\_powerload\_test

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: ssd\_powerload\_test.ssd\_powerload\_test

args:

test\_params:

drive\_type: ssd

workloads:

- 512K\_Seqwrites:

template: ssd\_powerload\_template.fio

precondition\_loops: 2

args:

NAME: 512K\_Seqwrites\_1\_worker\_64Q

RW: write

RUNTIME: 5m

BLKSIZE: 512k

SIZE: 1G

IODEPTH: 64

NUM\_JOBS: 1

- 512K\_Seqread:

template: ssd\_powerload\_template.fio

args:

NAME: 512K\_Seqread\_1\_worker\_64Q

RW: read

RUNTIME: 5m

BLKSIZE: 512k

SIZE: 1G

IODEPTH: 64

NUM\_JOBS: 1

- 4K\_randread:

template: ssd\_powerload\_template.fio

args:

NAME: randread\_ssd\_load\_test

RW: randread

RUNTIME: 5m

BLKSIZE: 4k

SIZE: 1G

IODEPTH: 16

NUM\_JOBS: 4

- 4K\_randwrite:

template: ssd\_powerload\_template.fio

args:

NAME: randwrite\_ssd\_load\_test

RW: randwrite

RUNTIME: 5m

BLKSIZE: 4k

SIZE: 1G

IODEPTH: 16

NUM\_JOBS: 4

- 512K\_rand70R30W:

template: ssd\_powerload\_mixedrw.fio

args:

NAME: 512K\_rand70R30W\_1\_worker\_64Q

RW: randrw

RUNTIME: 5m

BLKSIZE: 512k

SIZE: 1G

IODEPTH: 64

NUM\_JOBS: 1

MIXWRITE: 30%

MIXREAD: 70%

- 512K\_Seq70R30W:

template: ssd\_powerload\_mixedrw.fio

args:

NAME: 512K\_Seq70R30W\_1\_worker\_64Q

RW: rw

RUNTIME: 5m

BLKSIZE: 512k

SIZE: 1G

IODEPTH: 64

NUM\_JOBS: 1

MIXWRITE: 30%

MIXREAD: 70%

- name: power\_cycle\_1\_with\_flush\_with\_fs

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: storage.fio.fio\_internal\_flush.fio\_internal\_flush

args:

test\_params:

drive\_type: ssd

drive\_interface: nvme

nvme\_flush: true

power\_trigger: false

cycle\_count: 1

workloads:

nvme\_flush\_write:

nvme\_flush:

template: basic\_write.fio

filesystem: true

args:

BLKSIZE: 4k

SIZE: 1G

DEPTH: 128

RUNTIME: 10m

VERIFY: md5

RW: randwrite

nvme\_flush\_read:

nvme\_flush:

template: basic\_read.fio

filesystem: true

skip\_fs: true

args:

BLKSIZE: 4k

SIZE: 1G

DEPTH: 128

RUNTIME: 10m

VERIFY: md5

RW: randread

nvme\_flush\_verify:

nvme\_flush:

template: basic\_verify.job

filesystem: true

skip\_fs: true

args:

RW: randread

BLKSIZE: 4k

SIZE: 1G

RUNTIME: 0

DEPTH: '128'

VERIFY: md5

- name: power\_cycle\_1\_with\_flush\_with\_fs\_ext4

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: storage.fio.fio\_internal\_flush.fio\_internal\_flush

args:

test\_params:

drive\_type: ssd

drive\_interface: nvme

nvme\_flush: true

power\_trigger: false

cycle\_count: 1

workloads:

nvme\_flush\_write:

nvme\_flush:

template: basic\_write.fio

filesystem\_type: ext4

filesystem\_options: ''

filesystem: true

args:

BLKSIZE: 4k

SIZE: 1G

DEPTH: 128

RUNTIME: 10m

VERIFY: md5

RW: randwrite

nvme\_flush\_read:

nvme\_flush:

template: basic\_read.fio

filesystem\_type: ext4

filesystem\_options: ''

filesystem: true

skip\_fs: true

args:

BLKSIZE: 4k

SIZE: 1G

DEPTH: 128

RUNTIME: 10m

VERIFY: md5

RW: randread

nvme\_flush\_verify:

nvme\_flush:

template: basic\_verify.job

filesystem\_type: ext4

filesystem\_options: ''

filesystem: true

skip\_fs: true

args:

RW: randread

BLKSIZE: 4k

SIZE: 1G

RUNTIME: 0

DEPTH: '128'

VERIFY: md5

- name: power\_cycle\_1\_without\_flush\_with\_fs

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: storage.fio.fio\_internal\_flush.fio\_internal\_flush

args:

test\_params:

drive\_type: ssd

drive\_interface: nvme

nvme\_flush: false

power\_trigger: false

cycle\_count: 1

workloads:

nvme\_flush\_write:

nvme\_flush:

template: basic\_write.fio

filesystem: true

args:

BLKSIZE: 4k

SIZE: 1G

DEPTH: 128

RUNTIME: 10m

VERIFY: md5

RW: randwrite

nvme\_flush\_read:

nvme\_flush:

template: basic\_read.fio

filesystem: true

skip\_fs: true

args:

BLKSIZE: 4k

SIZE: 1G

DEPTH: 128

RUNTIME: 10m

VERIFY: md5

RW: randread

nvme\_flush\_verify:

nvme\_flush:

template: basic\_verify.job

filesystem: true

skip\_fs: true

args:

RW: randread

BLKSIZE: 4k

SIZE: 1G

RUNTIME: 0

DEPTH: 128

VERIFY: md5

- name: power\_cycle\_1\_without\_flush\_with\_fs\_ext4

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: storage.fio.fio\_internal\_flush.fio\_internal\_flush

args:

test\_params:

drive\_type: ssd

drive\_interface: nvme

nvme\_flush: false

power\_trigger: false

cycle\_count: 1

workloads:

nvme\_flush\_write:

nvme\_flush:

template: basic\_write.fio

filesystem\_type: ext4

filesystem\_options: ''

filesystem: true

args:

BLKSIZE: 4k

SIZE: 1G

DEPTH: 128

RUNTIME: 10m

VERIFY: md5

RW: randwrite

nvme\_flush\_read:

nvme\_flush:

template: basic\_read.fio

filesystem\_type: ext4

filesystem\_options: ''

filesystem: true

skip\_fs: true

args:

BLKSIZE: 4k

SIZE: 1G

DEPTH: 128

RUNTIME: 10m

VERIFY: md5

RW: randread

nvme\_flush\_verify:

nvme\_flush:

template: basic\_verify.job

filesystem\_type: ext4

filesystem\_options: ''

filesystem: true

skip\_fs: true

args:

RW: randread

BLKSIZE: 4k

SIZE: 1G

RUNTIME: 0

DEPTH: 128

VERIFY: md5

- name: dirty\_power\_cycle\_with\_fs

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: storage.fio.fio\_internal\_flush.fio\_internal\_flush

args:

test\_params:

drive\_type: ssd

drive\_interface: nvme

nvme\_flush: false

power\_trigger: true

cycle\_count: 1

cycle\_type: warm

workloads:

nvme\_flush\_write:

nvme\_flush:

template: basic\_write.fio

filesystem: true

args:

BLKSIZE: 4k

SIZE: 1G

DEPTH: 128

RUNTIME: 10m

VERIFY: md5

RW: randwrite

nvme\_flush\_read:

nvme\_flush:

template: basic\_read.fio

filesystem: true

skip\_fs: true

args:

BLKSIZE: 4k

SIZE: 1G

DEPTH: 128

RUNTIME: 10m

VERIFY: md5

RW: randread

nvme\_flush\_verify:

nvme\_flush:

template: basic\_verify.job

filesystem: true

skip\_fs: true

args:

RW: randread

VERIFY: md5

BLKSIZE: 4k

SIZE: 1G

RUNTIME: 0

DEPTH: 128

- name: dirty\_power\_cycle\_with\_fs\_ext4

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: storage.fio.fio\_internal\_flush.fio\_internal\_flush

args:

test\_params:

drive\_type: ssd

drive\_interface: nvme

nvme\_flush: false

power\_trigger: true

cycle\_count: 1

cycle\_type: warm

workloads:

nvme\_flush\_write:

nvme\_flush:

template: basic\_write.fio

filesystem\_type: ext4

filesystem\_options: ''

filesystem: true

args:

BLKSIZE: 4k

SIZE: 1G

DEPTH: 128

RUNTIME: 10m

VERIFY: md5

RW: randwrite

nvme\_flush\_read:

nvme\_flush:

template: basic\_read.fio

filesystem\_type: ext4

filesystem\_options: ''

filesystem: true

skip\_fs: true

args:

BLKSIZE: 4k

SIZE: 1G

DEPTH: 128

RUNTIME: 10m

VERIFY: md5

RW: randread

nvme\_flush\_verify:

nvme\_flush:

template: basic\_verify.job

filesystem\_type: ext4

filesystem\_options: ''

filesystem: true

skip\_fs: true

args:

RW: randread

VERIFY: md5

BLKSIZE: 4k

SIZE: 1G

RUNTIME: 0

DEPTH: 128

- name: nvme\_impact\_on\_perf

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: storage.smart\_impact\_on\_perf.smart\_impact\_on\_perf

args:

test\_params:

drive\_type: ssd

drive\_interface: nvme

include\_boot\_drive: true

time\_interval:

- 1

- 5

- 15

performance\_check:

name: nvme\_command

args:

commands: nvme\_commands

interval: 1

run\_definition:

randrw:

template: basic\_write.fio

args:

BLKSIZE: 4k

SIZE: 100%

DEPTH: 128

RUNTIME: 600

VERIFY: md5

RW: randrw

- name: smart\_impact\_on\_perf

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: storage.smart\_impact\_on\_perf.smart\_impact\_on\_perf

args:

test\_params:

include\_boot\_drive: true

time\_interval:

- 1

- 5

- 15

performance\_check:

name: nvme\_command

args:

commands: all\_commands

interval: 1

run\_definition:

randrw:

template: basic\_write.fio

args:

BLKSIZE: 4k

SIZE: 100%

DEPTH: 128

RUNTIME: 600

VERIFY: md5

RW: randrw

- name: NIC\_fw\_upgrade\_downgrade\_n\_n\_test

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: system\_fw\_update.system\_fw\_update

args:

test\_params:

fw\_types:

- force\_install: false

fw\_type: nic

method: inband

cycle: 1

upgrade\_to: latest

downgrade\_to: latest

- name: fw\_openbmc\_update\_latest

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: system\_fw\_update.system\_fw\_update

args:

test\_params:

fw\_types:

- fw\_type: openbmc

method: oob

upgrade\_to: latest

force\_install: false

- name: flash\_fw\_update\_1\_cycle

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: flash\_firmware\_update.flash\_firmware\_update

- name: check\_network\_eeprom

runner: autoval

reboot: true

proxy: controller

continue\_on\_fail: true

cmd: ethtool\_validation.ethtool\_validation

args:

test\_params:

validate\_cable\_eeprom:

fields:

Vendor name: "[A-Za-z0-9\\s]+"

Length (Copper or Active cable): "[A-Za-z0-9]+"

Vendor SN: "[A-Za-z0-9]+"

Vendor rev: "\\w+"

Attenuation at 2.5GHz: "[A-Za-z0-9]+"

Attenuation at 5.0GHz: "[A-Za-z0-9]+"

Attenuation at 7.0GHz: "[A-Za-z0-9]+"

Attenuation at 12.9GHz: "[A-Za-z0-9]+"

Vendor PN: "[A-Z0-9a-z-.]+"

validate\_link\_modes:

supported\_link\_modes\_mb:

- 1000

- 10000

- 25000

- 40000

- 50000

advertised\_link\_modes\_mb:

- 1000

- 10000

- 25000

- 40000

- 50000