




Qemu performance regression CI

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Email: Proposal for a regular upstream performance testing

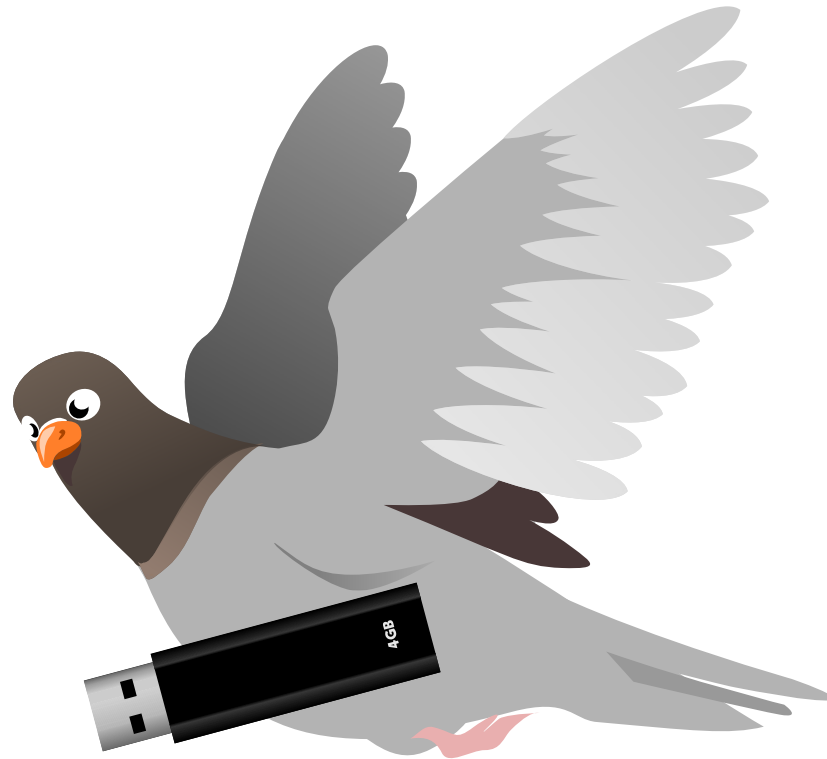
- Sent on 2020-11-26
- Intention – move performance testing closer to development
- Scope – system-level performance testing (fio/upperf/...)
- Proposed two ways (Red Hat vs. volunteer)
- Short discussion – vanished to nowhere



Sample workflow

- What happens on FAILURE

1. Developer sends a patch



2. Our pipeline detects a regression

Dashboard

- Build with Parameters
- Nastavit
- Smazat Pipeline
- Full Stage View
- Manage Ownership
- HTML Report
- Rename
- Pipeline Syntax

Build History **trend** ^

find X

- #128 20.7.2021 17:37
77 127 RHEL-8.4.0-20210503.1
- #127 19.7.2021 17:37
77 127 RHEL-8.4.0-20210503.1
- #126 18.7.2021 17:37

Last Successful Artifacts

Recent Changes

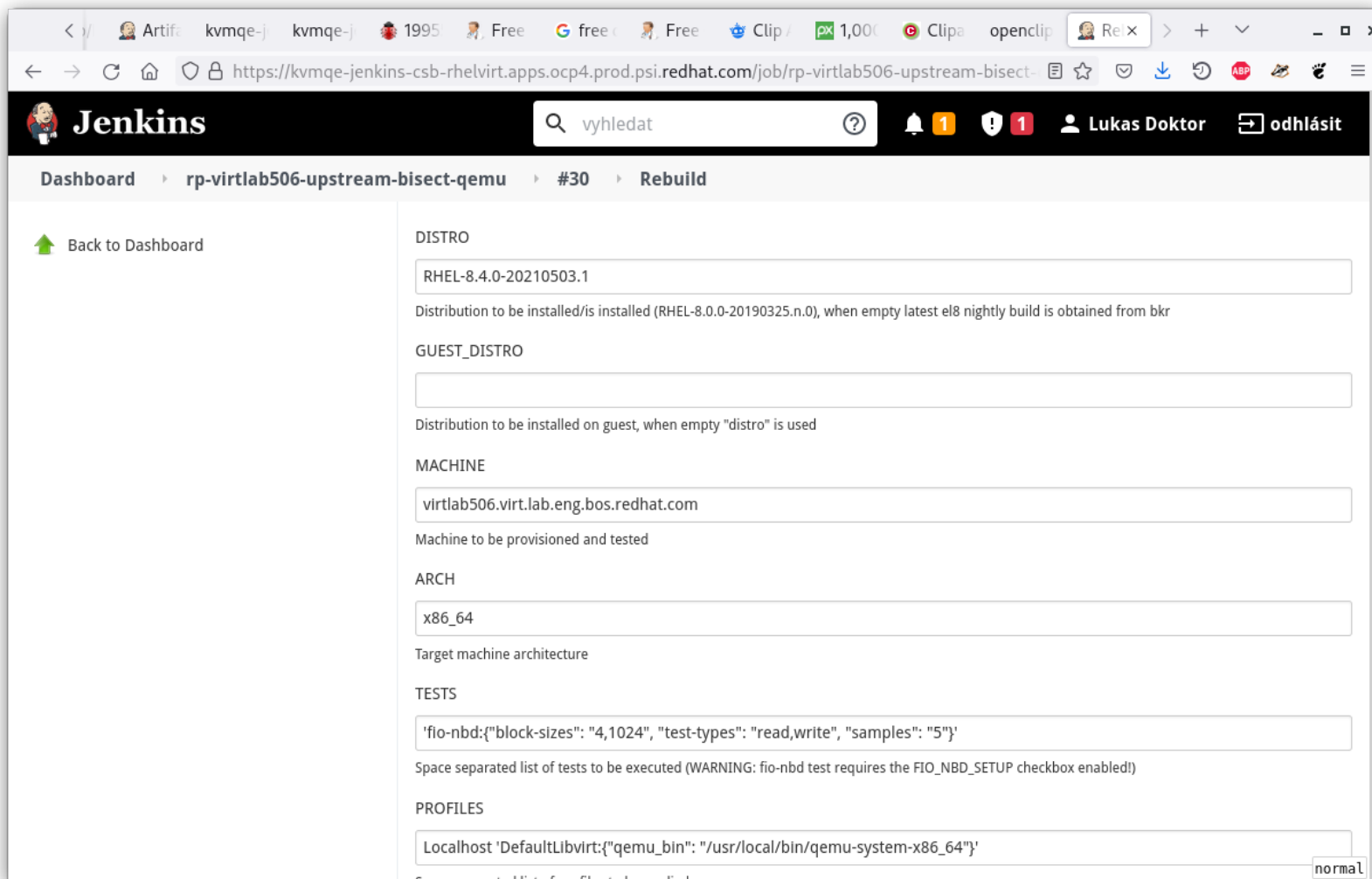
Trend výsledků testů

Failed Skipped Passed

Stage	Preprocess	Measure	Archive results	Compare	Postprocesš
Average stage times:	101ms	10h 11min	22min 21s	34s	5s
(Average full run time: ~12h 24min)					
#128 Jul 20 19:37 6 commits	115ms	(paused for 17h 34min)			
almost complete					
#127 Jul 19 19:37 No Changes	119ms	10h 47min (paused for 8h 54min)	22min 7s	44s	7s

norma

3. We trigger a bisection job



The screenshot shows a Jenkins web interface for a job named 'rp-virtlab506-upstream-bisect-qemu'. The breadcrumb navigation is 'Dashboard > rp-virtlab506-upstream-bisect-qemu > #30 > Rebuild'. The left sidebar contains a 'Back to Dashboard' link. The main configuration area is divided into several sections:

- DISTRO**: A text input field containing 'RHEL-8.4.0-20210503.1'. Below it, a description reads: 'Distribution to be installed/is installed (RHEL-8.0.0-20190325.n.0), when empty latest el8 nightly build is obtained from bkr'.
- GUEST_DISTRO**: An empty text input field. Below it, a description reads: 'Distribution to be installed on guest, when empty "distro" is used'.
- MACHINE**: A text input field containing 'virtlab506.virt.lab.eng.bos.redhat.com'. Below it, a description reads: 'Machine to be provisioned and tested'.
- ARCH**: A text input field containing 'x86_64'. Below it, a description reads: 'Target machine architecture'.
- TESTS**: A text input field containing a JSON string: `'fio-nbd:{"block-sizes": "4,1024", "test-types": "read,write", "samples": "5"}'`. Below it, a description reads: 'Space separated list of tests to be executed (WARNING: fio-nbd test requires the FIO_NBD_SETUP checkbox enabled!)'.
- PROFILES**: A text input field containing a JSON string: `Localhost 'DefaultLibvirt:{"qemu_bin": "/usr/local/bin/qemu-system-x86_64"}'`. Below it, a description reads: 'Space separated list of profiles to be applied'. A 'normal' button is visible at the bottom right of this section.

4. Bisection pinpoints a commit

Comparison of build d0d and 8a4 (RHEL-8.5.0-20210318.n.0 and RHEL-8.5.0-20210318.n.0)

Base

Target RHEL-8.5.0-20210318.n.0 build 8a4

Build	d9d	41d	eb8	af9	d3c	582	bd5	3fc	982	609	c71	8a4
Machine	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506
Distro	A	A	A	A	A	A	A	A	A	A	A	A
Guest distro	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO
Runperf version	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38
Runperf cmd	A	A	A	A	A	A	A	A	A	A	A	A
World env	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0
DefaultLibvirt env	L2	K2	J2	I2	H2	G2	F2	E2	D2	C2	B1	A0
Localhost env	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0
Tests env	A	A	A	A	A	A	A	A	A	A	A	A
Failures		10	11	9	9	11	11	9	11	11	12	10
Group failures		7	8	4	6	13	15	10	14	12	15	14
Non-primary failures		5	4	9	9	11	12	6	13	10	13	16
Total checks		80	80	80	80	80	80	80	80	80	80	80
Build score	0	45	51	29	39	77	87	59	82	72	88	81

Group stats

This build status: equals minor gains minor losses SKIPS LOSSES GAINS ERRORS +good -good +bad -bad

Any build status: equals minor gains minor losses SKIPS LOSSES GAINS ERRORS +good -good +bad -bad

types: WARN ERROR

Test	41d	eb8	af9	d3c	582	bd5	3fc	982	609	c71	8a4
/fio-nbd/0000./read-/throughput/iops_sec.mean	-1.8	-10.3	-4.2	0.8	39.8	37.3	34.9	34.2	35.8	26.9	36.7
/fio-nbd/0000./write-/throughput/iops_sec.mean	-7.0	-4.8	-0.4	-6.9	34.7	43.0	41.9	31.5	42.4	42.4	38.9
DefaultLibvirt/*.*/*.*.mean	0.9	-8.0	1.7	-5.2	1.5	7.7	-0.8	-6.3	3.1	-3.4	-6.2
DefaultLibvirt/fio-nbd/0000./read-*/throughput/iops_sec.mean	1.2	-15.7	-4.0	-3.4	6.9	5.6	-2.9	-4.0	-1.4	-17.0	-8.0
DefaultLibvirt/fio-nbd/0000./write-*/throughput/iops_sec.mean	0.5	-0.2	7.4	-7.1	-3.9	9.7	1.4	-12.3	7.5	10.2	-4.5
Localhost/*.*/*.*.mean	-9.7	-7.2	-6.4	-0.9	72.9	72.6	77.5	74.0	75.1	72.7	81.9
Localhost/fio-nbd/0000./read-*/throughput/iops_sec.mean	-4.8	-4.9	-4.4	4.9	72.6	69.0	72.7	72.3	73.1	70.8	81.5
Localhost/fio-nbd/0000./write-*/throughput/iops_sec.mean	-14.6	-9.4	-8.3	-6.8	73.2	76.3	82.4	75.6	77.2	74.6	82.4

Failures

This build status: equals minor gains minor losses SKIPS LOSSES GAINS ERRORS +good -good +bad -bad

Any build status: equals minor gains minor losses SKIPS LOSSES GAINS ERRORS +good -good +bad -bad

profiles: DEFAULT LIBVIRT LOCALHOST

tests: fio-nbd

types: WARN ERROR

Test	41d	eb8	af9	d3c	582	bd5	3fc	982	609	c71	8a4
DefaultLibvirt/fio-nbd/0000./read-1024KiB/throughput/iops_sec.mean	11.4	-5.3	2.8	11.0	19.0	12.0	11.8	2.2	8.7	-14.2	1.7
DefaultLibvirt/fio-nbd/0000./read-4KiB/throughput/iops_sec.mean	-9.0	-20.2	-10.8	-17.7	-5.2	-0.7	-17.6	-10.1	-11.4	-19.7	-17.7
DefaultLibvirt/fio-nbd/0000./write-1024KiB/throughput/iops_sec.mean	-7.9	-7.0	6.0	-0.8	-8.2	6.9	-2.1	-12.3	0.9	0.3	-11.3
DefaultLibvirt/fio-nbd/0000./write-4KiB/throughput/iops_sec.mean	9.0	6.6	8.9	-13.4	0.5	12.4	4.9	-13.0	14.1	20.2	2.3
Localhost/fio-nbd/0000./read-1024KiB/throughput/iops_sec.mean	-17.3	-8.9	-8.9	-8.4	66.0	64.9	66.6	64.9	65.5	65.3	70.6
Localhost/fio-nbd/0000./read-4KiB/throughput/iops_sec.mean	7.6	-0.9	0.1	18.3	79.3	73.1	78.8	79.7	80.6	76.3	92.3
Localhost/fio-nbd/0000./write-1024KiB/throughput/iops_sec.mean	-2.5	6.2	6.1	4.7	92.2	90.3	96.8	94.0	99.0	93.6	108.0
Localhost/fio-nbd/0000./write-4KiB/throughput/iops_sec.mean	-20.6	-25.0	-22.8	-18.3	54.2	62.2	67.9	57.2	55.5	55.7	56.7



5. We report the details

- The commit XY changed the fio-nbd performance under DefaultLibvirt profile
- Attached `nbd.fio` file
- Attached guest(s) libvirt xml file(s)
- Attached bisection report


```
# To use fio to test nbdkit:
#
# nbdkit -U - memory size=256M --run 'export unixsocket; fio examples/nbd.fio'
#
# To use fio to test qemu-nbd:
#
# rm -f /tmp/disk.img /tmp/socket
# truncate -s 256M /tmp/disk.img
# export target=/tmp/socket
# qemu-nbd -t -k $target -f raw /tmp/disk.img &
# fio examples/nbd.fio
# killall qemu-nbd
[global]
bs = $@
runtime = 30
ioengine = nbd
iodepth = 32
direct = 1
sync = 0
time_based = 1
clocksource = gettimeofday
ramp_time = 5
write_bw_log = fio
write_iops_log = fio
write_lat_log = fio
log_avg_msec = 1000
write_hist_log = fio
log_hist_msec = 10000
# log_hist_coarseness = 4 # 76 bins
rw = $@
uri=nbd+unix:///socket=/var/lib/runperf/runperf-nbd/socket
# Starting from nbdkit 1.14 the following will work:
#uri=${uri}
[job0]
offset=0
[job1]
offset=64m
[job2]
offset=128m
[job3]
offset=192m
```

```
<?xml version="1.0"?>
<domain type="kvm">
  <name>virtlab722.DefaultLibvirt0</name>
  <uuid>09e281f3-d177-4f56-b940-8bddff48adf8</uuid>
  <metadata>
    <libosinfo:libosinfo xmlns:libosinfo="http://libosinfo.org/xmlns/libvirt/domain/1.0">
      <libosinfo:os id="http://redhat.com/rhel/8.0"/>
    </libosinfo:libosinfo>
  </metadata>
  <memory>20971520</memory>
  <currentMemory>20971520</currentMemory>
  <vcpu>10</vcpu>
  <os>
    <type arch="x86_64" machine="q35">hvm</type>
    <boot dev="hd"/>
  </os>
  <features>
    <acpi/>
    <apic/>
    <vmport state="off"/>
  </features>
  <cpu mode="host-model"/>
  <clock offset="utc">
    <timer name="rtc" tickpolicy="catchup"/>
    <timer name="pit" tickpolicy="delay"/>
    <timer name="hpet" present="no"/>
  </clock>
  <pm>
    <suspend-to-mem enabled="no"/>
    <suspend-to-disk enabled="no"/>
  </pm>
  <devices>
    <emulator>/usr/local/bin/qemu-system-x86_64</emulator>
    <disk type="file" device="disk">
      <driver name="qemu" type="qcow2"/>
      <source file="/var/lib/libvirt/images/RHEL-8.4.0-20210503.1-virtlab722.DefaultLibvirt0.qcow2"/>
      <target dev="vda" bus="virtio"/>
    </disk>
    <controller type="usb" index="0" model="qemu-xhci" ports="15"/>
    <interface type="network">
```

...



```
git bisect start
# good: [d0dddab40e472ba62b5f43f11cc7dba085dabe71] Merge remote-tracking branch 'remotes/mst/tags/for_upstream' into staging
git bisect good d0dddab40e472ba62b5f43f11cc7dba085dabe71
# bad: [8a40754bca14df63c6d2ffe473b68a270dc50679] Merge remote-tracking branch 'remotes/nvme/tags/nvme-next-pull-request' into staging
git bisect bad 8a40754bca14df63c6d2ffe473b68a270dc50679
# bad: [c715343fd96bcf93263fda38d81af815fdb5a7fa] meson: Stop if cfi is enabled with system slirp
git bisect bad c715343fd96bcf93263fda38d81af815fdb5a7fa
# bad: [6094cbeb72117204f3302a4581415ee1dc33a879] block: qcow2: remove the created file on initialization error
git bisect bad 6094cbeb72117204f3302a4581415ee1dc33a879
# good: [41d306ec7d9885752fec434904df08b9c1aa3add] Merge remote-tracking branch 'remotes/bonzini-gitlab/tags/for-upstream' into staging
git bisect good 41d306ec7d9885752fec434904df08b9c1aa3add
# good: [eb847c42296497978942f738cd41dc29a35a49b2] docs: fix Parallels Image "dirty bitmap" section
git bisect good eb847c42296497978942f738cd41dc29a35a49b2
# bad: [9820933b57b24c21a509680650f669123651b60d] job: add .cancel handler for the driver
git bisect bad 9820933b57b24c21a509680650f669123651b60d
# good: [af903caed9fc62cc60a589da75e61ea8008c8265] target/arm: Don't migrate CPUARMState.features
git bisect good af903caed9fc62cc60a589da75e61ea8008c8265
# good: [d3c1183ffeb71ca3a783eae3d7e1c51e71e8a621] target/arm: Correctly initialize MDCR_EL2.HPMN
git bisect good d3c1183ffeb71ca3a783eae3d7e1c51e71e8a621
# bad: [582d4210eb2f2ab5baac328fe4b479cd86da1647] qemu-nbd: Use SOMAXCONN for socket listen() backlog
git bisect bad 582d4210eb2f2ab5baac328fe4b479cd86da1647
# good: [832a59e43b5d8b8a9c2b2565008ebea1059d539d] hw/block/nvme: fix error handling in nvme_ns_realize
git bisect good 832a59e43b5d8b8a9c2b2565008ebea1059d539d
# good: [eac92d316351b855ba79eb374dd21cc367f1f9c1] Merge remote-tracking branch 'remotes/pmaydell/tags/pull-target-arm-20210211-1' into staging
git bisect good eac92d316351b855ba79eb374dd21cc367f1f9c1
# first bad commit: [582d4210eb2f2ab5baac328fe4b479cd86da1647] qemu-nbd: Use SOMAXCONN for socket listen() backlog
```

Comparison of build d0d and 8a4 (RHEL-8.5.0-20210318.n.0 and RHEL-8.5.0-20210318.n.0)

Base

Target RHEL-8.5.0-20210318.n.0 [build_8a4](#)

Build	d0d	41d	eb8	af9	d3c	582	bd5	3fc	982	609	c71	8a4
Machine	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506
Distro	A	A	A	A	A	A	A	A	A	A	A	A
Guest distro	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO
Runperf version	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38
Runperf cmd	A	A	A	A	A	A	A	A	A	A	A	A
World env	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0
DefaultLibvirt env	L2	K2	J2	I2	H2	G2	F2	E2	D2	C2	B1	A0
Localhost env	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0
Tests env	A	A	A	A	A	A	A	A	A	A	A	A
Failures		10	11	9	9	11	11	9	11	11	12	10
Group failures		7	8	4	6	13	15	10	14	12	15	14
Non-primary failures		5	4	9	9	11	12	6	13	10	13	16
Total checks		80	80	80	80	80	80	80	80	80	80	80
Build score	0	45	51	29	39	77	87	59	82	72	88	81

Group stats [\[\]](#)

This build status: equals minor gains minor losses SKIPS LOSSES GAINS ERRORS +good -good +bad -bad

Any build status: equals minor gains minor losses SKIPS LOSSES GAINS ERRORS +good -good +bad -bad

types: MEAN stdev

Test	41d	eb8	af9	d3c	582	bd5	3fc	982	609	c71	8a4
/fio-nbd/0000./read-/throughput/iops_sec.mean	-1.8	-10.3	-4.2	0.8	39.8	37.3	34.9	34.2	35.8	26.9	36.7
/fio-nbd/0000./write-/throughput/iops_sec.mean	-7.0	-4.8	+0.4	-6.9	34.7	43.0	41.9	31.5	42.4	42.4	38.9
DefaultLibvirt/*/*/*/*/*/*.mean	0.9	-8.0	1.7	-5.2	1.5	7.7	-0.8	-8.3	3.1	-3.4	-6.2
DefaultLibvirt/fio-nbd/0000./read-*/throughput/iops_sec.mean	1.2	-15.7	-4.0	-3.4	6.9	5.6	-2.9	-4.0	-1.4	-17.0	-8.0
DefaultLibvirt/fio-nbd/0000./write-*/throughput/iops_sec.mean	0.5	-0.2	7.4	-7.1	-3.9	9.7	1.4	-12.7	7.5	10.2	-4.5
Localhost/*/*/*/*/*/*.mean	-9.7	-7.2	-6.4	-0.9	72.9	72.6	77.5	74.0	75.1	72.7	81.9
Localhost/fio-nbd/0000./read-*/throughput/iops_sec.mean	-4.8	-4.9	-4.4	4.9	72.6	69.0	72.7	72.3	73.1	70.8	81.5
Localhost/fio-nbd/0000./write-*/throughput/iops_sec.mean	-14.6	-9.4	-8.3	-6.8	73.2	76.3	82.4	75.6	77.2	74.6	82.4

Failures [\[\]](#)

This build status: equals minor gains minor losses SKIPS LOSSES GAINS ERRORS +good -good +bad -bad

Any build status: equals minor gains minor losses SKIPS LOSSES GAINS ERRORS +good -good +bad -bad

profiles: DEFAULTLIBVIRT LOCALHOST

tests: fio-nbd

types: MEAN stdev

Test	41d	eb8	af9	d3c	582	bd5	3fc	982	609	c71	8a4
DefaultLibvirt/fio-nbd/0000./read-1024KiB/throughput/iops_sec.mean	11.4	-5.3	2.8	11.0	19.0	12.0	11.8	2.2	8.7	-14.2	1.7
DefaultLibvirt/fio-nbd/0000./read-4KiB/throughput/iops_sec.mean	-9.0	-26.2	-10.8	-17.7	-5.2	-0.7	-17.6	-10.1	-11.4	-19.7	-17.7
DefaultLibvirt/fio-nbd/0000./write-1024KiB/throughput/iops_sec.mean	-7.9	-7.0	6.0	-0.8	-8.2	6.9	-2.1	-12.3	0.9	0.3	-11.3
DefaultLibvirt/fio-nbd/0000./write-4KiB/throughput/iops_sec.mean	9.0	6.6	8.9	-13.4	0.5	12.4	4.9	-13.0	14.1	20.2	2.3
Localhost/fio-nbd/0000./read-1024KiB/throughput/iops_sec.mean	-17.3	-8.9	-8.9	-8.4	66.0	64.9	66.6	64.9	65.5	65.3	70.6
Localhost/fio-nbd/0000./read-4KiB/throughput/iops_sec.mean	7.6	-0.9	0.1	18.3	79.3	73.1	78.8	79.7	80.6	76.3	92.3
Localhost/fio-nbd/0000./write-1024KiB/throughput/iops_sec.mean	-2.5	6.2	6.1	4.7	92.2	90.3	96.8	94.0	99.0	93.6	108.0
Localhost/fio-nbd/0000./write-4KiB/throughput/iops_sec.mean	-26.6	-25.0	-22.8	-18.3	54.2	62.2	67.9	57.2	55.5	55.7	56.7

Comparison of build d0d and 8a4 (RHEL-8.5.0-20210318.n.0 and RHEL-8.5.0-20210318.n.0)

Base

Target RHEL-8.5.0-20210318.n.0 [build 8a4](#)

Build	d0d	41d	eb8	af9	d3c	582	bd5	3fc	982	609	c71	8a4
Machine	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506
Distro	A	A	A	A	A	A	A	A	A	A	A	A
Guest distro	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO
Runperf version	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38
Runperf cmd	A	A	A	A	A	A	A	A	A	A	A	A
World env	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0
DefaultLibvirt env	L2	K2	J2	I2	H2	G2	F2	E2	D2	C2	B1	A0
Localhost env	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0
Tests env	A	A	A	A	A	A	A	A	A	A	A	A
Failures		10	11	9	9	11	11	9	11	11	12	10
Group failures		7	8	4	6	13	15	10	14	12	15	14
Non-primary failures		5	4	9	9	11	12	6	13	10	13	16
Total checks		80	80	80	80	80	80	80	80	80	80	80
Build score	0	45	51	29	39	77	87	59	82	72	88	81

You don't need this

Group stats [\[-\]](#)

This build status: [equals](#) [minor gains](#) [minor losses](#) [SKIPS](#) [LOSSES](#) [GAINS](#) [ERRORS](#) [+good](#) [-good](#) [+bad](#) [-bad](#)

Any build status: [equals](#) [minor gains](#) [minor losses](#) [SKIPS](#) [LOSSES](#) [GAINS](#) [ERRORS](#) [+good](#) [-good](#) [+bad](#) [-bad](#)

types: [MEAN](#) [stdev](#)

Test	41d	eb8	af9	d3c	582	bd5	3fc	982	609	c71	8a4
/fiio-nbd/0000:./read-/throughput/iops_sec.mean	-1.8	-10.3	-4.2	0.8	39.8	37.3	34.9	34.2	35.8	26.9	36.7
/fiio-nbd/0000:./write-/throughput/iops_sec.mean	-7.0	-4.8	+0.4	-6.9	34.7	43.0	41.9	31.5	42.4	42.4	38.9
DefaultLibvirt/*/./*/*/*/.mean	0.9	-8.0	1.7	-5.2	1.5	7.7	-0.8	-8.3	3.1	-3.4	-6.2
DefaultLibvirt/fio-nbd/0000:./read-*/throughput/iops_sec.mean	1.2	-15.7	-4.0	-3.4	6.9	5.6	-2.9	-4.0	-1.4	-17.0	-8.0
DefaultLibvirt/fio-nbd/0000:./write-*/throughput/iops_sec.mean	0.5	-0.2	7.4	-7.1	-3.9	9.7	1.4	-12.7	7.5	10.2	-4.5
Localhost/*/./*/*/*/.mean	-9.7	-7.2	-6.4	-0.9	72.9	72.6	77.5	74.0	75.1	72.7	81.9
Localhost/fio-nbd/0000:./read-*/throughput/iops_sec.mean	-4.8	-4.9	-4.4	4.9	72.6	69.0	72.7	72.3	73.1	70.8	81.5
Localhost/fio-nbd/0000:./write-*/throughput/iops_sec.mean	-14.6	-9.4	-8.3	-6.8	73.2	76.3	82.4	75.6	77.2	74.6	82.4

This is for managers

Failures [\[-\]](#)

This build status: [equals](#) [minor gains](#) [minor losses](#) [SKIPS](#) [LOSSES](#) [GAINS](#) [ERRORS](#) [+good](#) [-good](#) [+bad](#) [-bad](#)

Any build status: [equals](#) [minor gains](#) [minor losses](#) [SKIPS](#) [LOSSES](#) [GAINS](#) [ERRORS](#) [+good](#) [-good](#) [+bad](#) [-bad](#)

profiles: [DEFAULTLIBVIRT](#) [LOCALHOST](#)

tests: [fio-nbd](#)

types: [MEAN](#) [stdev](#)

Test	41d	eb8	af9	d3c	582	bd5	3fc	982	609	c71	8a4
DefaultLibvirt/fio-nbd/0000:./read-1024KiB/throughput/iops_sec.mean	11.4	-5.3	2.8	11.0	19.0	12.0	11.8	2.2	8.7	-14.2	1.7
DefaultLibvirt/fio-nbd/0000:./read-4KiB/throughput/iops_sec.mean	-9.0	-26.2	-10.8	-17.7	-5.2	-0.7	-17.6	-10.1	-11.4	-19.7	-17.7
DefaultLibvirt/fio-nbd/0000:./write-1024KiB/throughput/iops_sec.mean	-7.9	-7.0	6.0	-0.8	-8.2	6.9	-2.1	-12.3	0.9	0.3	-11.3
DefaultLibvirt/fio-nbd/0000:./write-4KiB/throughput/iops_sec.mean	9.0	6.6	8.9	-13.4	0.5	12.4	4.9	-13.0	14.1	20.2	2.3
Localhost/fio-nbd/0000:./read-1024KiB/throughput/iops_sec.mean	-17.3	-8.9	-8.9	-8.4	66.0	64.9	66.6	64.9	65.5	65.3	70.6
Localhost/fio-nbd/0000:./read-4KiB/throughput/iops_sec.mean	7.6	-0.9	0.1	18.3	79.3	73.1	78.8	79.7	80.6	76.3	92.3
Localhost/fio-nbd/0000:./write-1024KiB/throughput/iops_sec.mean	-2.5	6.2	6.1	4.7	92.2	90.3	96.8	94.0	99.0	93.6	108.0
Localhost/fio-nbd/0000:./write-4KiB/throughput/iops_sec.mean	-26.6	-25.0	-22.8	-18.3	54.2	62.2	67.9	57.2	55.5	55.7	56.7

Here are the important things!



Reproduction

- What to do next



Reproduction

- Manual reproduction using libvirt XML files and benchmark configuration
- Re-run on your workers using the same setup
- Simplified re-run of subset(s) directly on manually created workers

Comparison of build d0d and 8a4 (RHEL-8.5.0-20210318.n.0 and RHEL-8.5.0-20210318.n.0)

Base

Target RHEL-8.5.0-20210318.n.0 [build 8a4](#)

Build	d0d	41d	eb8	af9	d3c	582	bd5	3fc	982	609	c71	8a4
Machine	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506
Distro	A	A	A	A	A	A	A	A	A	A	A	A
Guest distro	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO
Runperf version	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38
Runperf cmd	A	A	A	A	A	A	A	A	A	A	A	A
World env	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0
DefaultLibvirt env	L2	K2	J2	I2	H2	G2	F2	E2	D2	C2	B1	A0
Localhost env	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0
Tests env	A	A	A	A	A	A	A	A	A	A	A	A
Failures		10	11	9	9	11	11	9	11	11	12	10
Group failures		7	8	4	6	13	15	10	14	12	15	14
Non-primary failures		5	4	9	9	11	12	6	13	10	13	16
Total checks		80	80	80	80	80	80	80	80	80	80	80
Build score	0	45	51	29	39	77	87	59	82	72	88	81

Run-perf command

Group stats [\[...\]](#)

This build status: equals minor gains minor losses SKIPS LOSSES GAINS ERRORS +good -good +bad -bad

Any build status: equals minor gains minor losses SKIPS LOSSES GAINS ERRORS +good -good +bad -bad

types: MEAN stdev

Test	41d	eb8	af9	d3c	582	bd5	3fc	982	609	c71	8a4
/fio-nbd/0000:./read-/throughput/iops_sec.mean	-1.8	-10.3	-4.2	0.8	39.8	37.3	34.9	34.2	35.8	26.9	36.7
/fio-nbd/0000:./write-/throughput/iops_sec.mean	-7.0	-4.8	+0.4	-6.9	34.7	43.0	41.9	31.5	42.4	42.4	38.9
DefaultLibvirt/*/*./*/*/*/.mean	0.9	-8.0	1.7	-5.2	1.5	7.7	-0.8	-8.3	3.1	-3.4	-6.2
DefaultLibvirt/fio-nbd/0000:./read-*/throughput/iops_sec.mean	1.2	-15.7	-4.0	-3.4	6.9	5.6	-2.9	-4.0	-1.4	-17.0	-8.0
DefaultLibvirt/fio-nbd/0000:./write-*/throughput/iops_sec.mean	0.5	-0.2	7.4	-7.1	-3.9	9.7	1.4	-12.7	7.5	10.2	-4.5
Localhost/*/*./*/*/*/.mean	-9.7	-7.2	-6.4	-0.9	72.9	72.6	77.5	74.0	75.1	72.7	81.9
Localhost/fio-nbd/0000:./read-*/throughput/iops_sec.mean	-4.8	-4.9	-4.4	4.9	72.6	69.0	72.7	72.3	73.1	70.8	81.5
Localhost/fio-nbd/0000:./write-*/throughput/iops_sec.mean	-14.6	-9.4	-8.3	-6.8	73.2	76.3	82.4	75.6	77.2	74.6	82.4

Failures [\[...\]](#)

This build status: equals minor gains minor losses SKIPS LOSSES GAINS ERRORS +good -good +bad -bad

Any build status: equals minor gains minor losses SKIPS LOSSES GAINS ERRORS +good -good +bad -bad

profiles: DEFAULTLIBVIRT LOCALHOST

tests: fio-nbd

types: MEAN stdev

Test	41d	eb8	af9	d3c	582	bd5	3fc	982	609	c71	8a4
DefaultLibvirt/fio-nbd/0000:./read-1024KiB/throughput/iops_sec.mean	11.4	-5.3	2.8	11.0	19.0	12.0	11.8	2.2	8.7	-14.2	1.7
DefaultLibvirt/fio-nbd/0000:./read-4KiB/throughput/iops_sec.mean	-9.0	-26.2	-10.8	-17.7	-5.2	-0.7	-17.6	-10.1	-11.4	-19.7	-17.7
DefaultLibvirt/fio-nbd/0000:./write-1024KiB/throughput/iops_sec.mean	-7.9	-7.0	6.0	-0.8	-8.2	6.9	-2.1	-12.3	0.9	0.3	-11.3
DefaultLibvirt/fio-nbd/0000:./write-4KiB/throughput/iops_sec.mean	9.0	6.6	8.9	-13.4	0.5	12.4	4.9	-13.0	14.1	20.2	2.3
Localhost/fio-nbd/0000:./read-1024KiB/throughput/iops_sec.mean	-17.3	-8.9	-8.9	-8.4	66.0	64.9	66.6	64.9	65.5	65.3	70.6
Localhost/fio-nbd/0000:./read-4KiB/throughput/iops_sec.mean	7.6	-0.9	0.1	18.3	79.3	73.1	78.8	79.7	80.6	76.3	92.3
Localhost/fio-nbd/0000:./write-1024KiB/throughput/iops_sec.mean	-2.5	6.2	6.1	4.7	92.2	90.3	96.8	94.0	99.0	93.6	108.0
Localhost/fio-nbd/0000:./write-4KiB/throughput/iops_sec.mean	-26.6	-25.0	-22.8	-18.3	54.2	62.2	67.9	57.2	55.5	55.7	56.7

Local reproduction

- `scripts/run-perf --host-setup-script sha1:791d19 --host-setup-script-reboot --worker-setup-script sha1:254bdf -vvv --hosts worker1.REDHAT --distro DISTRO --provisioner Beaker --default-password MASKED MASKED --profiles Localhost DefaultLibvirt:{"qemu_bin": "/usr/local/bin/qemu-system-x86_64"} --paths ./downstream_config --metadata MASKED MASKED MASKED MASKED --output .diff-perf//current-result -- fio-nbd:{"block-sizes": "4,1024", "test-types": "read,write", "samples": "5"}`

Local reproduction

- `scripts/run-perf --host-setup-script sha1:791d19 --host-setup-script-reboot --worker-setup-script sha1:254bdf -vvv --hosts worker1.REDHAT --distro DISTRO --provisioner Beaker --default-password MASKED MASKED --profiles Localhost DefaultLibvirt:{"qemu_bin": "/usr/local/bin/qemu-system-x86_64"} --paths ./downstream_config --metadata MASKED MASKED MASKED MASKED --output .diff-perf//current-result -- fio-nbd:{"block-sizes": "4,1024", "test-types": "read,write", "samples": "5"}`

Local reproduction

```
run-perf -vvv --hosts $HOST --distro YOUR_DISTRO --  
default-password YOUR_PASSWORD --profiles Localhost  
DefaultLibvirt:{"qemu_bin": "/usr/local/bin/qemu-  
system-x86_64"} --paths $PATH_TO_YOUR_MACHINES  
-- fio-nbd:{"block-sizes": "4,1024", "test-types":  
"read,write", "samples": "5"}
```

- **--hosts** – you need to specify your host
- **--distro** – without “--provisioner” distro is only used in logs and in Libvirt* profiles to fetch the cloudinit image (unless the image is already provided by you). “Fedora-34” seems as a suitable default choice.
- **--default-password** – default password to access the \$host (only needed when keys are not exchanged yet)
- **--paths** – location of your \$host.yaml files

Local reproduction

```
$ run-perf -vvv --hosts foo.example.org --distro  
Fedora-34 --default-password password --profiles  
Localhost --paths ~/runperf  
-- fio-nbd:{"block-sizes": "4", "test-types": "write",  
"samples": "3"}
```

Local reproduction

```
$ run-perf -vvv --hosts foo.example.org --distro  
Fedora-34 --default-password password --profiles  
Localhost --paths ~/runperf  
-- fio-nbd:{"block-sizes": "4", "test-types": "write",  
"samples": "3"}  
$ deploy_different_qemu foo.example.org
```

Local reproduction

```
$ run-perf -vvv --hosts foo.example.org --distro  
Fedora-34 --default-password password --profiles  
Localhost --paths ~/runperf  
-- fio-nbd:{"block-sizes": "4", "test-types": "write",  
"samples": "3"}  
$ deploy_different_qemu foo.example.org  
$ run-perf -vvv --hosts foo.example.org --distro  
Fedora-34 --default-password password --profiles  
Localhost --paths ~/runperf  
-- fio-nbd:{"block-sizes": "4", "test-types": "write",  
"samples": "3"}
```

Local reproduction

```
$ run-perf -vvv --hosts foo.example.org --distro  
Fedora-34 --default-password password --profiles  
Localhost --paths ~/runperf  
-- fio-nbd:{"block-sizes": "4", "test-types": "write",  
"samples": "3"}  
$ deploy_different_qemu foo.example.org  
$ run-perf -vvv --hosts foo.example.org --distro  
Fedora-34 --default-password password --profiles  
Localhost --paths ~/runperf  
-- fio-nbd:{"block-sizes": "4", "test-types": "write",  
"samples": "3"}  
...
```

Local reproduction - compare the results

```
$ compare-perf -vvv --html report.html -- result*
```

```
...
```

```
ERROR| ERR : DefaultLibvirt/*/*:./*-*/*/*.mean 19.94  
(BIG raw 18.63%, avg 21.25% (18.63;  
18.632755352343004) +-3.5% tolerance)
```

```
ERROR| ERR : Localhost/*/*:./*-*/*/*.mean 85.61 (BIG  
raw 87.22%, avg 84.01% (87.22; 87.21893589450649) +-  
3.5% tolerance)
```

```
ERROR| 14/7/9/72 primary/grouped/non-primary/all  
checks failed, see logs for details
```


Comparison of build d0d and 8a4 (RHEL-8.5.0-20210318.n.0 and RHEL-8.5.0-20210318.n.0)

Base

Target RHEL-8.5.0-20210318.n.0 [build 8a4](#)

Build	d0d	41d	eb8	af9	d3c	582	bd5	3fc	982	609	c71	8a4
Machine	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506	virtlab506
Distro	A	A	A	A	A	A	A	A	A	A	A	A
Guest distro	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO
Runperf version	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38	1.0.38
Runperf cmd	A	A	A	A	A	A	A	A	A	A	A	A
World env	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0
DefaultLibvirt env	L2	K2	J2	I2	H2	G2	F2	E2	D2	C2	B1	A0
Localhost env	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0
Tests env	A	A	A	A	A	A	A	A	A	A	A	A
Failures		10	11	9	9	11	11	9	11	11	12	10
Group failures		7	8	4	6	13	15	10	14	12	15	14
Non-primary failures		5	4	9	9	11	12	6	13	10	13	16
Total checks		80	80	80	80	80	80	80	80	80	80	80
Build score	0	45	51	29	39	77	87	59	82	72	88	81

Group stats [\[↓\]](#)

This build status: [equals](#) [minor gains](#) [minor losses](#) [SKIPS](#) [LOSSES](#) [GAINS](#) [ERRORS](#) [+good](#) [-good](#) [+bad](#) [-bad](#)

Any build status: [equals](#) [minor gains](#) [minor losses](#) [SKIPS](#) [LOSSES](#) [GAINS](#) [ERRORS](#) [+good](#) [-good](#) [+bad](#) [-bad](#)

types: [MEAN](#) [stddev](#)

Test	41d	eb8	af9	d3c	582	bd5	3fc	982	609	c71	8a4
/fio-nbd/0000./read-/throughput/iops_sec.mean	-1.8	-10.3	-4.2	0.8	39.8	37.3	34.9	34.2	35.8	26.9	36.7
/fio-nbd/0000./write-/throughput/iops_sec.mean	-7.0	-4.8	+0.4	-6.9	34.7	43.0	41.9	31.5	42.4	42.4	38.9
DefaultLibvirt/*/*/*/*/*.mean	0.9	-8.0	1.7	-5.2	1.5	7.7	-0.8	-8.3	3.1	-3.4	-6.2
DefaultLibvirt/fio-nbd/0000./read-*/throughput/iops_sec.mean	1.2	-15.7	-4.0	-3.4	6.9	5.6	-2.9	-4.0	-1.4	-17.0	-8.0
DefaultLibvirt/fio-nbd/0000./write-*/throughput/iops_sec.mean	0.5	-0.2	7.4	-7.1	-3.9	9.7	1.4	-12.7	7.5	10.2	-4.5
Localhost/*/*/*/*/*.mean	-9.7	-7.2	-6.4	-0.9	72.9	72.6	77.5	74.0	75.1	72.7	81.9
Localhost/fio-nbd/0000./read-*/throughput/iops_sec.mean	-4.8	-4.9	-4.4	4.9	72.6	69.0	72.7	72.3	73.1	70.8	81.5
Localhost/fio-nbd/0000./write-*/throughput/iops_sec.mean	-14.6	-9.4	-8.3	-6.8	73.2	76.3	82.4	75.6	77.2	74.6	82.4

Failures [\[↓\]](#)

This build status: [equals](#) [minor gains](#) [minor losses](#) [SKIPS](#) [LOSSES](#) [GAINS](#) [ERRORS](#) [+good](#) [-good](#) [+bad](#) [-bad](#)

Any build status: [equals](#) [minor gains](#) [minor losses](#) [SKIPS](#) [LOSSES](#) [GAINS](#) [ERRORS](#) [+good](#) [-good](#) [+bad](#) [-bad](#)

profiles: [DEFAULTLIBVIRT](#) [LOCALHOST](#)

tests: [fio-nbd](#)

types: [MEAN](#) [stddev](#)

Test	41d	eb8	af9	d3c	582	bd5	3fc	982	609	c71	8a4
DefaultLibvirt/fio-nbd/0000./read-1024KiB/throughput/iops_sec.mean	11.4	-5.3	2.8	11.0	19.0	12.0	11.8	2.2	8.7	-14.2	1.7
DefaultLibvirt/fio-nbd/0000./read-4KiB/throughput/iops_sec.mean	-9.0	-26.2	-10.8	-17.7	-5.2	-0.7	-17.6	-10.1	-11.4	-19.7	-17.7
DefaultLibvirt/fio-nbd/0000./write-1024KiB/throughput/iops_sec.mean	-7.9	-7.0	6.0	-0.8	-8.2	6.9	-2.1	-12.3	0.9	0.3	-11.3
DefaultLibvirt/fio-nbd/0000./write-4KiB/throughput/iops_sec.mean	9.0	6.6	8.9	-13.4	0.5	12.4	4.9	-13.0	14.1	20.2	2.3
Localhost/fio-nbd/0000./read-1024KiB/throughput/iops_sec.mean	-17.3	-8.9	-8.9	-8.4	66.0	64.9	66.6	64.9	65.5	65.3	70.6
Localhost/fio-nbd/0000./read-4KiB/throughput/iops_sec.mean	7.6	-0.9	0.1	18.3	79.3	73.1	78.8	79.7	80.6	76.3	92.3
Localhost/fio-nbd/0000./write-1024KiB/throughput/iops_sec.mean	-2.5	6.2	6.1	4.7	92.2	90.3	96.8	94.0	99.0	93.6	108.0
Localhost/fio-nbd/0000./write-4KiB/throughput/iops_sec.mean	-26.6	-25.0	-22.8	-18.3	54.2	62.2	67.9	57.2	55.5	55.7	56.7



First-time setup

- Install Run-perf and define your workers



First-time setup

- `pip3 install runperf`
- `python3 -m pip install git+`
<https://github.com/distributed-system-analysis/run-perf.git>

First-time setup

- pip3 install runperf
- python3 -m pip install git+
<https://github.com/distributed-system-analysis/run-perf.git>

Run-perf should not modify your laptop.
It only modifies the machines specified
via --hosts

First-time setup - a worker

```
$ cat > $PATH_TO_YOUR_MACHINES/hosts/$HOST < \EOF  
arch: x86_64  
hugepage_kb: 1048576  
numa_nodes: 2  
host_cpus: 16  
guest_cpus: 8  
guest_mem_m: 22528  
EOF
```



The CI

How to check the CI status

Build with Parameters

Nastavit

Smazat Pipeline

Full Stage View

Manage Ownership

HTML Report

Rename

Pipeline Syntax

Build History trend ^

find X

#128 20.7.2021 17:37 ✖

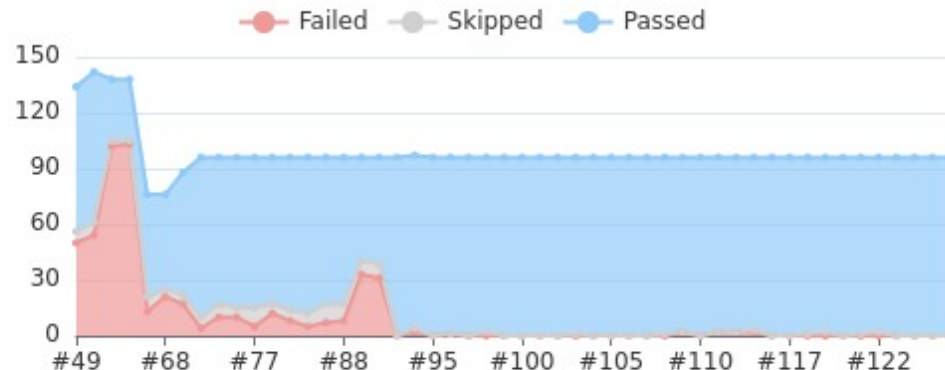
#127 19.7.2021 17:37
77 127 RHEL-8.4.0-20210503.1

#126 18.7.2021 17:37

Last Successful Artifacts

Recent Changes

Trend výsledků testů



Stage View

Average stage times:
(Average full run time: ~12h 24min)

#128
Jul 20 19:37 **6** commits

#127
Jul 19 19:37 **No Changes**

Preprocess	Measure	Archive results	Compare	Postprocess
101ms	10h 11min	22min 21s	34s	5s
115ms	(paused for 17h 34min)			
almost complete				
119ms	10h 47min (paused for 8h 54min)	22min 7s	44s	7s

Build with Parameters

Nastavit

Smazat Pipeline

Full Stage View

Manage Ownership

HTML Report

Rename

Build History

trend

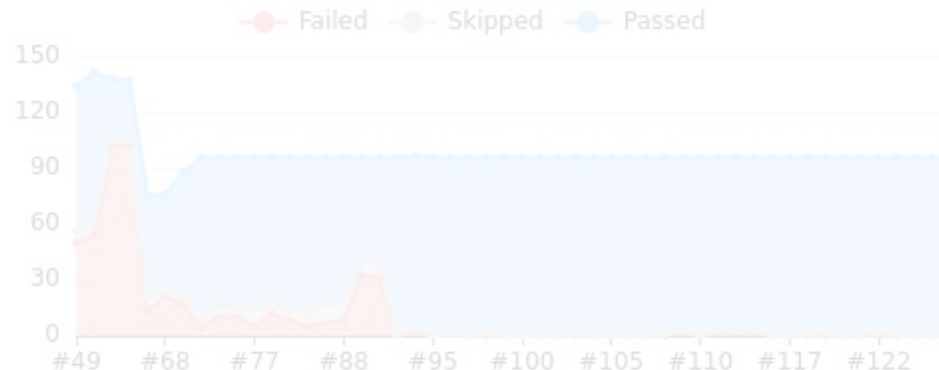


Last Successful Artifacts



Recent Changes

Trend výsledků testů



JJB configuration to re-deploy on your Jenkins available here:

<https://run-perf.readthedocs.io/en/latest/jenkins.html>

	Average stage times:	101ms	10h 11min	22min 21s	34s	5s
(Average full run time: ~12h 24min)						
#128 Jul 20 19:37 6 commits		115ms	(paused for 17h 34min)			
#127 Jul 19 19:37 No Changes		119ms	10h 47min (paused for 8h 54min)	22min 7s	44s	32 / 42

Testing upstream regression CI provided by Red Hat.

Results were anonymized and stripped to contain only the essential information. Feel free to contact <https://github.com/ldoktor> for additional data/information.

Qemu version	Date	OS version	Serial	Note	URL
✗ 9db306	2021-07-09	RHEL-8.4.0-20210503.1	0		HTML , XZ
✗ 05de77	2021-07-09	RHEL-8.4.0-20210503.1	0		HTML , XZ
✗ ebd1f7	2021-07-10	RHEL-8.4.0-20210503.1	0		HTML , XZ
✗ 951603	2021-07-11	RHEL-8.4.0-20210503.1	0		HTML , XZ
👍 bd38ae	2021-07-12	RHEL-8.4.0-20210503.1	0	Reidentified model for greater jittery, was failing only due to average values from previous builds	HTML , XZ
✗ 708f50	2021-07-13	RHEL-8.4.0-20210503.1	0		HTML , XZ
✗ 1f966c	2021-07-14	RHEL-8.4.0-20210503.1	0		HTML , XZ
✗ f66557	2021-07-15	RHEL-8.4.0-20210503.1	0		HTML , XZ
✅ a97fca	2021-07-16	RHEL-8.4.0-20210503.1	0		HTML , XZ
✅ a97fca	2021-07-17	RHEL-8.4.0-20210503.1	1		HTML , XZ
✅ 7457b4	2021-07-19	RHEL-8.4.0-20210503.1	0		HTML , XZ

Comparison of build 77M5 and 127 (RHEL-8.4.0-20210503.1 and RHEL-8.4.0-20210503.1)

Base

Target RHEL-8.4.0-20210503.1 [build_127](#)

Build	77M5	121	122	123	124	125	127	127
Machine	worker1	worker1	worker1	worker1	worker1	worker1	worker1	worker1
Distro	A	A	A	A	A	A	A	A
Guest distro	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO	DISTRO
Runperf version	1.0.11	1.0.14	1.0.14	1.0.14	1.0.14	1.0.15	1.0.15	1.0.15
Runperf cmd	C	B	B	B	B	B	A	A
World env	B1	B1	B1	B1	B1	B1	A0	A0
DefaultLibvirt env	F3	E2	D2	C2	B2	B2	A0	A0
DefaultLibvirtMulti env	F6	E2	D2	C2	B2	B2	A0	A0
Localhost env	C1	B1	B1	B1	B1	B1	A0	A0
TunedLibvirt env	F3	E2	D2	C2	B2	B2	A0	A0
Tests env	A	A	A	A	A	A	A	A
Failures		1	2	0	0	0	1	0
Group failures		0	0	0	0	0	0	0
Non-primary failures		0	2	4	2	0	0	0
Total checks		264	264	264	264	264	264	264
Build score	0	1	2	0	0	0	1	0

Group stats [f.l](#)

This build status: [equals](#) [minor gains](#) [minor losses](#) [SKIPS](#) [LOSSES](#) [GAINS](#) [ERRORS](#) [+good](#) [-good](#) [+bad](#) [-bad](#)

Any build status: [equals](#) [minor gains](#) [minor losses](#) [SKIPS](#) [LOSSES](#) [GAINS](#) [ERRORS](#) [+good](#) [-good](#) [+bad](#) [-bad](#)

types: [MEAN](#) [stddev](#)

Test [121](#) [122](#) [123](#) [124](#) [125](#) [127](#) [127](#)

Failures [f.l](#)

This build status: [equals](#) [minor gains](#) [minor losses](#) [SKIPS](#) [LOSSES](#) [GAINS](#) [ERRORS](#) [+good](#) [-good](#) [+bad](#) [-bad](#)

Any build status: [equals](#) [minor gains](#) [minor losses](#) [SKIPS](#) [LOSSES](#) [GAINS](#) [ERRORS](#) [+good](#) [-good](#) [+bad](#) [-bad](#)

profiles: [DEFAULTLIBVIRT](#) [DEFAULTLIBVIRTMULTI](#) [LOCALHOST](#) [TUNEDLIBVIRT](#)

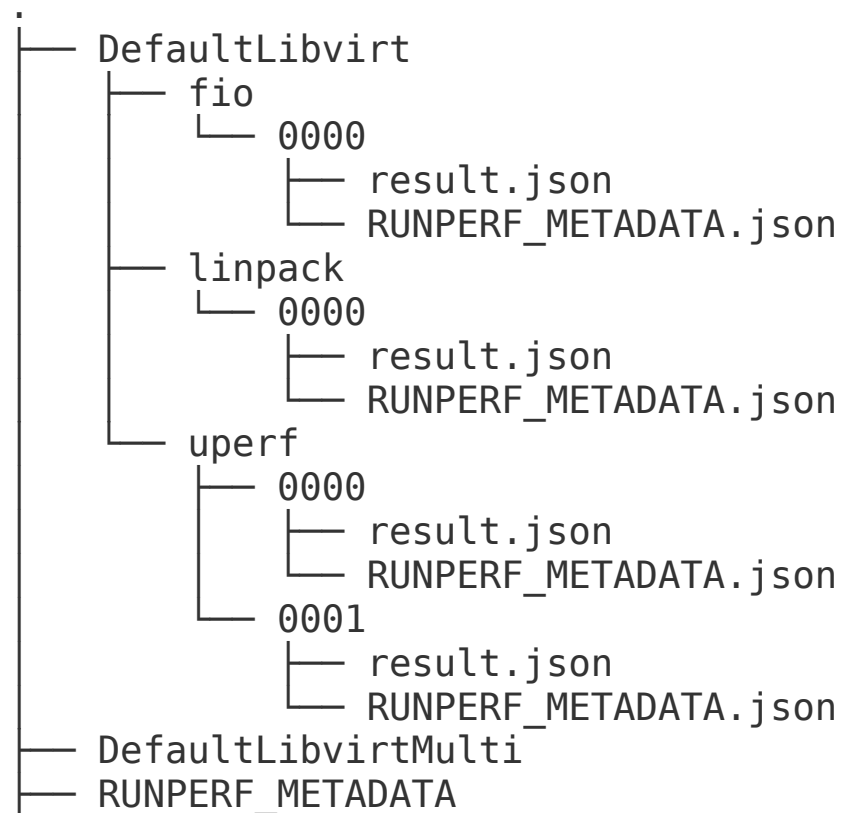
tests: [FIO](#) [FIO-NBD](#) [LINPACK](#) [UPERF](#)

types: [MEAN](#) [stddev](#)

Test	121	122	123	124	125	127	127
TunedLibvirt/linpack/0000:./threads=1/throughput/gflops.mean	-0.9	8.5	0.4	-0.7	-0.8	-0.7	0.3

Details [f.l](#)

RedHat-Perf-worker1-HASH-DISTRO-SERIAL.xz



...
32 directories, 33 files

- `result.json` - stripped pbench perf data
- `RUNPERF_METADATA.json` - info about the environment (machine XML file, list of guest pkgs, ...)
- `RUNPERF_METADATA` - overall metadata (host environment, pkgs, ...)

RedHat-Perf-worker1-HASH-DISTRO-SERIAL.xz

Pbench

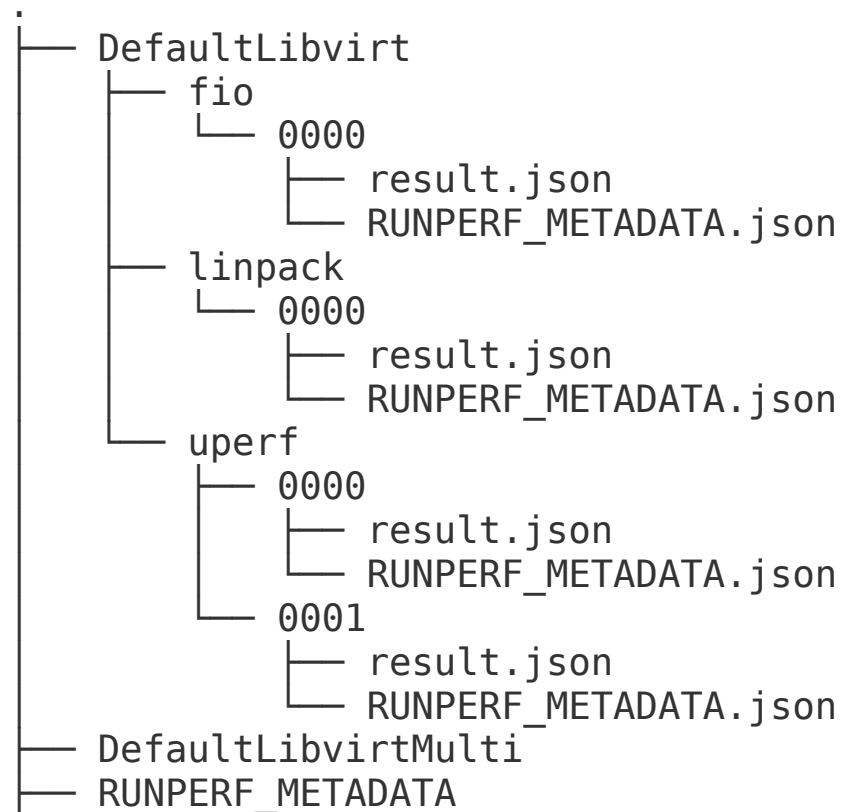
<https://distributed-system-analysis.github.io/pbench/>

- result.json - stripped pbench perf data
- RUNPERF_METADATA.json - info about the environment (machine name, CPU, mem, disk, pkgs, ...)
- RUNPERF_METADATA - overall metadata (host environment, pkgs, ...)

```
graph TD
  Root[DefaultLibvirt] --> fio[fio]
  Root --> linpack[linpack]
  fio --> fio_0000[0000]
  linpack --> linpack_0000[0000]
  linpack --> linpack_0001[0001]
  fio_0000 --> fio_0000_result[result.json]
  fio_0000 --> fio_0000_meta[RUNPERF_METADATA.json]
  linpack_0000 --> linpack_0000_result[result.json]
  linpack_0000 --> linpack_0000_meta[RUNPERF_METADATA.json]
  linpack_0001 --> linpack_0001_result[result.json]
  linpack_0001 --> linpack_0001_meta[RUNPERF_METADATA.json]
  Root --> DefaultLibvirtMulti[DefaultLibvirtMulti]
  Root --> RUNPERF_METADATA[RUNPERF_METADATA]
```

32 directories, 33 files

RedHat-Perf-worker1-HASH-DISTRO-SERIAL.xz



- result.json - stripped pbench perf data
- RUNPERF_METADATA.json - info about the environment (machine XML file, list of guest pkgs, ...)
- RUNPERF_METADATA - overall metadata (host environment, pkgs, ...)

...
32 directories, 33 files



Additional data on demand

- When needed I can send you the full json results (all series data, params, ...), more sysinfo, journal, serial console, ...
- Up to 14 days I can send you the complete pbench results (~2GB/build) with all of the background tools reports (iostat, mpstat, perf, interrupts, ...)



The current coverage

- What is currently being tested

Current coverage

- Archs
 - x86_64
- Profiles
 - Localhost
 - DefaultLibvirt
 - DefaultLibvirtMulti
 - TunedLibvirt - (does not mean fast, just different)
- Tests
 - fio (4K/1024K; read/write)
 - uperf (1B/16384B; 1i/64i; tcp+stream/udp+rr)
 - linpack (1/128)
 - fio-nbd (4K/1024K; read/write)



Plans

Directions we'd like to go



Plans

- Integrate with the upstream CI
- Refine the set of tests, profiles and bg info collection (feedback welcome)
- Start adding other architectures
- Add latest-kernel pipeline to test the latest KVM
- Help others to replicate our setup
- Move the testing to publicly available lab (allow people to trigger builds, bisections and such)