

CSIT TOI

CSIT Performance tests

Peter Mikus

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CSIT Performance tests

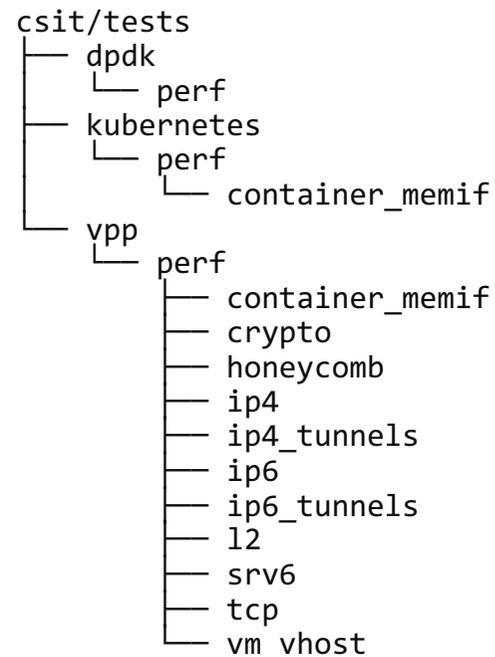
- Performance tests hierarchy.
- Performance test structure.
- Performance test jobs and execution.





Performance tests hierarchy

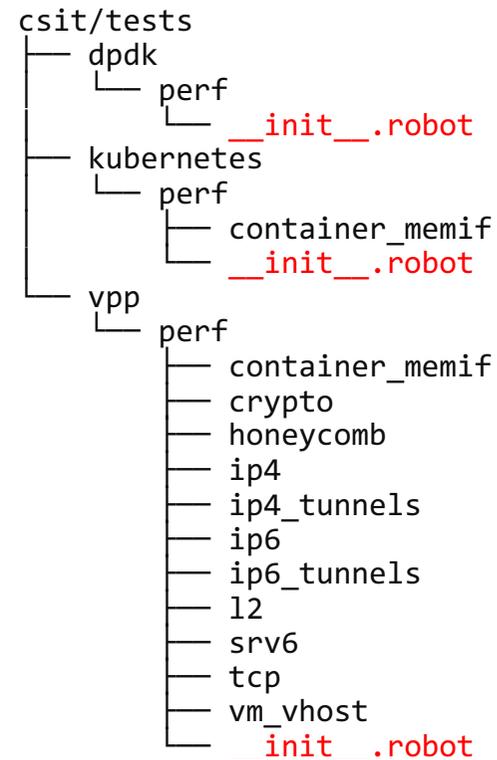
- DPDK baseline tests.
 - testpmd, l3fwd
- Kubernetes orchestrated tests.
- VPP tests.





Performance test structure

- Global variables
 - Unique per test type.
 - Applies in subtree.
 - Contains global suite setup/teardown.
 - Contains global settings
 - TG trial duration.
 - PDR loss acceptance.
 - PDR loss acceptance type.
 - Nested VM image location.
 - Qemu parameters.





Performance test structure

- Settings
 - Resource `resources/libraries/robot/performance/performance_setup.robot`
 - Force Tags!
 - Common/Custom SS/ST/TS/TT.
 - Documentation.
- Variables
 - Absolute minimum: `s_limit`, `traffic_profile`
- Behavior-driven style → **Data-driven style**





Performance test structure

- NDR/PDR discovery (range could be overridden)
 - Available search algorithms: Binary search, Linear search, Combined search.
 - Predictive search?
- NDR/PDR checks
- Variations
 - 64B, IMIX_v4_1, 1518B, 9000B,
 - 1t1c, 2t2c, 4t4c.





Performance test jobs and execution

- Executed against physical testbeds.
 - Trending jobs
 - CSIT-VPP jobs
 - VPP-CSIT jobs
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- Full list of Jenkins Jobs
 - <https://wiki.fd.io/view/CSIT/Jobs>





Q & A

