

Below is a table of test cases that members would like to be continuously tested. If the test case is hardware dependent, then this test would be fixed by the “contractor.” If the test case is NOT hardware dependent, then try to assign a priority number to the “UNH Priority” column. Priority 1 means that it should be done first (“It’s the first priority”). A larger number has a lower priority than a lower number (Priority 5 > Priority 15).

The goal of this table to have a list of tests to show to the board to describe what tests need to be worked on, and for UNH, in the meantime, to try to implement (and get support to implement) non-hardware dependent tests with the CI.

Test Case	Hardware Dependent	UNH Priority
Compilation with coverage for Arm/Intel 32/64 and Linux/FreeBSD/Windows with make/meson and gcc/clang https://bugs.dpdk.org/show_bug.cgi?id=243	No	H (1)
Unit tests https://bugs.dpdk.org/show_bug.cgi?id=244	Yes - per CPU arch, does not depend on PMD	H (2)
Vhost/virtio performance tests Some of this may be covered by OVS tests. https://bugs.dpdk.org/show_bug.cgi?id=245	No	M (4)
Cryptodev performance tests https://bugs.dpdk.org/show_bug.cgi?id=246	No (SW crypto) Yes (HW acceleration)	M (3)
Compression performance tests https://bugs.dpdk.org/show_bug.cgi?id=247	No (SW compression) Yes (HW acceleration)	L (5)
Coverage gcov with unit tests		
devtools/check-symbol-maps.sh		
devtools/validate-abi.sh		

Spell checks		
clang-analyzer		
cppcheck		
Note: Above priorities assume completion of the OVS “functional” tests is completed first.		

Compile Test Matrix - per patch

Target CPU:

- Aarch64
- i686
- x86_32
- x86_64
- Power64

OS:

- FreeBSD 10.4
- FreeBSD 11
- FreeBSD 12.0
- Fedora 28
- Fedora 29
- CentOS 7.6
- Ubuntu 16.04
- Ubuntu 18.04
- Ubuntu 19.04
- Debian 9 stable
- Debian 10 testing
- OpenSuse 12-sp3
- OpenSuse 15
- Archlinux - latest Linux/gcc/clang
- Windows 10 (only meson+clang)

Make options (config in test-build.sh):

- examples (included in test-build.sh)
- HTML doc (included in test-build.sh)
- PDF doc - make doc-guides-pdf
- +shared
- +debug
- +ASSERT
- +LIBBSD

- +ARM64_MEMCPY
- +ARCH_STRICT_ALIGN
- +ALLOW_INV_SOCKET_ID
- +ALWAYS_PANIC_ON_ERROR
- +ENABLE_AVX512
- +PROFILE_WITH_VTUNE
- +TX_PREPARE_NOOP
- +USE_HPET
- +IBVERBS_LINK_DLOPEN

Meson options (config in meson_options.txt):

- examples (included in test-meson-builds.sh)
- enable_docs=true
- allow_invalid_socket_id=true
- use_hpet=true - should it be dropped?
- ibverbs_link=dlopen
- per_library_versions=false

Toolchain:

- Latest gcc
- Latest clang

Dependencies:

- make
- meson
- ninja
- doxygen
- sphinx
- latex
- inkscape
- libnuma
- libpcap
- libelf
- libarchive
- zlib
- libjansson
- openssl
- rdma-core
- musdk
- szedata2
- ipsec_mb
- libssso-snow3g
- libssso-kasumi
- libssso-zuc
- libqos
- isa-l

- libmnl
- libvirt

Ether Layer Tests

From: <http://mails.dpdk.org/archives/ci/2019-March/000375.html>

1. promisc support
2. idem with multicast packets
3. link status checks
4. rte_eth_link_up/down checks
5. mtu checks: test various common sizes, larger sizes (1500+), error sizes
6. rss checks
7. ptypes classification
8. stats checks
9. rte_flow checks
10. port restart checks + associated configuration persistency
11. flow control
12. rx/tx offloads
13. rx/tx descriptor status
- 14.