



DOCA Capabilities Print Tool

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This document provides instruction on the usage of the DOCA Capabilities Print Tool.

Introduction

This tool is used to print all the available DOCA libraries and devices. For each DOCA device, the tool prints its representor devices and the capabilities it supports in each DOCA library.

Prerequisites

DOCA 2.6.0 and higher.

Description

This tool can be executed on the host or Arm sides.

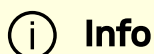
The following capabilities are supported by this tool:

- DOCA device list – print the PCIe device of every available DOCA device and its capabilities
- DOCA representor device list – for every DOCA device, print the PCIe device of every available DOCA representor device and its capabilities
- DOCA library list – print the available DOCA libraries supported by the running OS and their availability for specific OSs
- DOCA library capabilities – for every DOCA device, print the capabilities it supports in every DOCA library

Execution

- To print all the available DOCA devices and their capabilities, run:

```
/opt/mellanox/doca/tools/doca_caps --list-devs
```



Printing the capabilities of a specific DOCA device can be done using the `--pci-addr` flag.

Example output:

```
/opt/mellanox/doca/tools/doca_caps --list-devs
PCI: 0000:03:00.0
    ibdev_name                mlx5_0
    iface_name                 p0
    mac_addr
94:6d:ae:5c:9e:04
    ipv4_addr                   0.0.0.0
    ipv6_addr
fe80:0000:0000:0000:966d:aeff:fe5c:9e04
    gid_table_size             255
    GID[0]
fe80:0000:0000:0000:966d:aeff:fe5c:9e04
PCI: 0000:03:00.1
    ibdev_name                mlx5_1
    iface_name                 p1
    mac_addr
94:6d:ae:5c:9e:05
    ipv4_addr                   0.0.0.0
    ipv6_addr
fe80:0000:0000:0000:966d:aeff:fe5c:9e05
    gid_table_size             255
    GID[0]
fe80:0000:0000:0000:966d:aeff:fe5c:9e05
PCI: 0000:03:00.0
    ibdev_name                mlx5_2
    iface_name
enp3s0f0s0
```

```

        mac_addr
02:c6:d0:fd:56:d7
        ipv4_addr                                0.0.0.0
        ipv6_addr
fe80:0000:0000:0000:00c6:d0ff:fefd:56d7
        gid_table_size                          255
        GID[0]
fe80:0000:0000:0000:00c6:d0ff:fefd:56d7
PCI: 0000:03:00.1
        ibdev_name                               mlx5_3
        iface_name
enp3s0f1s0
        mac_addr
02:b6:4f:a9:fa:9a
        ipv4_addr                                0.0.0.0
        ipv6_addr
fe80:0000:0000:0000:00b6:4fff:fea9:fa9a
        gid_table_size                          255
        GID[0]
fe80:0000:0000:0000:00b6:4fff:fea9:fa9a

```

- To print all the available DOCA representor devices and their capabilities, run:

```
/opt/mellanox/doca/tools/doca_caps --list-rep-devs
```

Info

This command is available only on the Arm side.

Info

Printing the representor list of a specific DOCA device can be done using the `--pci-addr` flag.

Example output:

```
/opt/mellanox/doca/tools/doca_caps --list-rep-devs
PCI: 0000:03:00.0
    representor-PCI: 0000:3b:00.0
        pci_func_type                PF
        hotplug                       no
        vuid
MT2308XZ0BN0MLNXS0D0F0
    representor-PCI: 0000:3b:00.0
        pci_func_type                SF
        hotplug                       no
        vuid
MT2308XZ0BN0ECMLNXS0D0F0SF32800
PCI: 0000:03:00.1
    representor-PCI: 0000:3b:00.1
        pci_func_type                PF
        hotplug                       no
        vuid
MT2308XZ0BN0MLNXS0D0F1
    representor-PCI: 0000:3b:00.1
        pci_func_type                SF
        hotplug                       no
        vuid
MT2308XZ0BN0ECMLNXS0D0F1SF32800
PCI: 0000:03:00.0
PCI: 0000:03:00.1
```

- To print all the supported DOCA libraries by the OS and their availability status, run:

```
/opt/mellanox/doca/tools/doca_caps --list-libs
```

i Info

Different OSs may support different DOCA libraries.

Example output:

```
/opt/mellanox/doca/tools/doca_caps --list-libs
common installed
aes_gcm installed
apsh installed
argp installed
cc installed
comm_channel installed
compress installed
dma installed
dpa installed
dpdk_bridge installed
erasure_coding installed
eth installed
ipsec installed
flow installed
flow_ct installed
pcc installed
rdma installed
sha installed
telemetry installed
```

- To print all the capabilities for all the available libraries, that have capabilities, for every DOCA device, run:

```
/opt/mellanox/doca/tools/doca_caps
```

Info

Printing the capabilities of one specific DOCA device can be done using the `--pci-addr` flag.

Info

Printing the capabilities of one specific DOCA library can be done using the `--lib` flag.

Example output:

```
/opt/mellanox/doca/tools/doca_caps
PCI: 0000:03:00.0
  common
    mmap_export_pci
supported
  mmap_create_from_export_pci
supported
  hotplug_manager
unsupported
  rep_filter_all
supported
```


| | |
|------------------------------------|---------|
| rep_filter_net | |
| supported | |
| rep_filter_emulated | |
| unsupported | |
| aes_gcm | |
| task_encrypt | |
| supported | |
| task_encrypt_get_max_iv_len | 12 |
| task_encrypt_tag_96 | |
| supported | |
| task_encrypt_tag_128 | |
| supported | |
| task_encrypt_128b_key | |
| supported | |
| task_encrypt_256b_key | |
| supported | |
| task_encrypt_max_buf_size | 2097152 |
| task_encrypt_max_list_buf_num_elem | 128 |
| task_decrypt | |
| supported | |
| task_decrypt_get_max_iv_len | 12 |
| task_decrypt_tag_96 | |
| supported | |
| task_decrypt_tag_128 | |
| supported | |
| task_decrypt_128b_key | |
| supported | |
| task_decrypt_256b_key | |
| supported | |
| task_decrypt_max_buf_size | 2097152 |
| task_decrypt_max_list_buf_num_elem | 128 |
| max_num_tasks | 65536 |
| cc | |
| server | |
| supported | |

| | |
|--|---------|
| client | |
| supported | |
| max_name_len | 120 |
| max_msg_size | 4080 |
| max_recv_queue_size | 8192 |
| max_send_tasks | 8192 |
| max_clients | 512 |
| consumer | |
| supported | |
| consumer_max_num_tasks | 65536 |
| consumer_max_buf_size | 2097152 |
| producer | |
| supported | |
| producer_max_num_tasks | 65536 |
| producer_max_buf_size | 2097152 |
| comm_channel | |
| max_service_name_len | 120 |
| max_message_size | 4080 |
| max_send_queue_size | 8192 |
| max_recv_queue_size | 8192 |
| service_max_num_connections | 512 |
| compress | |
| task_compress_deflate | |
| unsupported | |
| task_compress_deflate_get_max_buf_size | 0 |
| task_compress_deflate_get_max_buf_list_len | 0 |
| task_decompress_deflate | |
| supported | |
| task_decompress_deflate_get_max_buf_size | 2097152 |
| task_decompress_deflate_get_max_buf_list_len | 128 |
| task_decompress_lz4 | |
| supported | |
| task_decompress_lz4_get_max_buf_size | 2097152 |
| task_decompress_lz4_get_max_buf_list_len | 128 |
| max_num_tasks | 65536 |
| dma | |

| | |
|---------------------------|---------|
| task_memcpy | |
| supported | |
| max_buf_size | 2097152 |
| max_buf_list_len | 64 |
| max_num_tasks | 65536 |
| dpa | |
| dpa | |
| supported | |
| max_threads_per_kernel | 128 |
| kernel_max_run_time | 12 |
| erasure_coding | |
| task_galois_mul | |
| supported | |
| task_create | |
| supported | |
| task_update | |
| supported | |
| task_recover | |
| supported | |
| max_block_size | 1048576 |
| max_buf_list_len | 128 |
| eth | |
| rxq_cyclic_cpu | |
| unsupported | |
| rxq_cyclic_gpu | |
| supported | |
| rxq_managed_mempool_cpu | |
| unsupported | |
| rxq_managed_mempool_gpu | |
| supported | |
| rxq_regular_cpu | |
| unsupported | |
| rxq_regular_gpu | |
| supported | |
| rxq_max_recv_buf_list_len | 32 |
| rxq_max_packet_size | 16384 |

| | |
|---------------------------|--------|
| rxq_max_burst_size | 32768 |
| txq_regular_cpu | |
| unsupported | |
| txq_regular_gpu | |
| supported | |
| txq_max_send_buf_list_len | 48 |
| txq_max_lso_header_size | 256 |
| txq_txq_max_lso_msg_size | 262144 |
| txq_l3_chksum_offload | |
| supported | |
| txq_l4_chksum_offload | |
| supported | |
| txq_wait_on_time_type | |
| unsupported | |
| flow_ct | |
| flow_ct | |
| supported | |
| ipsec | |
| task_sa_create | |
| supported | |
| task_sa_destroy | |
| supported | |
| nvrdr_transport | |
| task_write | |
| supported | |
| rc_max_src_buf_list_len | 0 |
| dc_max_src_buf_list_len | 0 |
| pcc | |
| pcc | |
| unsupported | |
| pcc_np | |
| unsupported | |
| min_num_threads | 0 |
| max_num_threads | 0 |
| rdma | |

| | |
|--|-------|
| task_send | |
| supported | |
| task_send_imm | |
| supported | |
| task_read | |
| supported | |
| task_write | |
| supported | |
| task_write_imm | |
| supported | |
| task_atomic_cmp_swp | |
| supported | |
| task_atomic_fetch_add | |
| supported | |
| task_receive | |
| supported | |
| rc_transport_type | |
| supported | |
| dc_transport_type | |
| unsupported | |
| rc_task_receive_get_max_dst_buf_list_len | 31 |
| dc_task_receive_get_max_dst_buf_list_len | 0 |
| task_remote_net_sync_event_get | |
| supported | |
| task_remote_net_sync_event_notify_set | |
| supported | |
| task_remote_net_sync_event_notify_add | |
| supported | |
| max_send_queue_size | 32768 |
| max_recv_queue_size | 32768 |
| max_send_buf_list_len | 13 |
| max_message_size | |
| 1073741824 | |
| sha | |
| sha1 | |
| unsupported | |

```

        sha256
unsupported
        sha512
unsupported
        sha1_partial
unsupported
        sha256_partial
unsupported
        sha512_partial
unsupported
        max_list_num_elem           0
        max_src_buf_size             0
        sha1_min_dst_buf_size        0
        sha256_min_dst_buf_size      0
        sha512_min_dst_buf_size      0
        sha1_partial_hash_block_size 0
        sha256_partial_hash_block_size 0
        sha512_partial_hash_block_size 0
PCI: 0000:03:00.1
    common
        mmap_export_pci
supported
        mmap_create_from_export_pci
supported
        hotplug_manager
unsupported
        rep_filter_all
supported
        rep_filter_net
supported
        rep_filter_emulated
unsupported
        aes_gcm
        task_encrypt
supported
        task_encrypt_get_max_iv_len 12

```

| | |
|------------------------------------|---------|
| task_encrypt_tag_96 | |
| supported | |
| task_encrypt_tag_128 | |
| supported | |
| task_encrypt_128b_key | |
| supported | |
| task_encrypt_256b_key | |
| supported | |
| task_encrypt_max_buf_size | 2097152 |
| task_encrypt_max_list_buf_num_elem | 128 |
| task_decrypt | |
| supported | |
| task_decrypt_get_max_iv_len | 12 |
| task_decrypt_tag_96 | |
| supported | |
| task_decrypt_tag_128 | |
| supported | |
| task_decrypt_128b_key | |
| supported | |
| task_decrypt_256b_key | |
| supported | |
| task_decrypt_max_buf_size | 2097152 |
| task_decrypt_max_list_buf_num_elem | 128 |
| max_num_tasks | 65536 |
| cc | |
| server | |
| supported | |
| client | |
| supported | |
| max_name_len | 120 |
| max_msg_size | 4080 |
| max_recv_queue_size | 8192 |
| max_send_tasks | 8192 |
| max_clients | 512 |
| consumer | |
| supported | |

| | | |
|-------------|--|---------|
| | consumer_max_num_tasks | 65536 |
| | consumer_max_buf_size | 2097152 |
| | producer | |
| supported | | |
| | producer_max_num_tasks | 65536 |
| | producer_max_buf_size | 2097152 |
| | comm_channel | |
| | max_service_name_len | 120 |
| | max_message_size | 4080 |
| | max_send_queue_size | 8192 |
| | max_recv_queue_size | 8192 |
| | service_max_num_connections | 512 |
| | compress | |
| | task_compress_deflate | |
| unsupported | | |
| | task_compress_deflate_get_max_buf_size | 0 |
| | task_compress_deflate_get_max_buf_list_len | 0 |
| | task_decompress_deflate | |
| supported | | |
| | task_decompress_deflate_get_max_buf_size | 2097152 |
| | task_decompress_deflate_get_max_buf_list_len | 128 |
| | task_decompress_lz4 | |
| supported | | |
| | task_decompress_lz4_get_max_buf_size | 2097152 |
| | task_decompress_lz4_get_max_buf_list_len | 128 |
| | max_num_tasks | 65536 |
| | dma | |
| | task_memcpy | |
| supported | | |
| | max_buf_size | 2097152 |
| | max_buf_list_len | 64 |
| | max_num_tasks | 65536 |
| | dpa | |
| | dpa | |
| supported | | |
| | max_threads_per_kernel | 128 |

| | |
|---------------------------|---------|
| kernel_max_run_time | 12 |
| erasure_coding | |
| task_galois_mul | |
| supported | |
| task_create | |
| supported | |
| task_update | |
| supported | |
| task_recover | |
| supported | |
| max_block_size | 1048576 |
| max_buf_list_len | 128 |
| eth | |
| rxq_cyclic_cpu | |
| unsupported | |
| rxq_cyclic_gpu | |
| supported | |
| rxq_managed_mempool_cpu | |
| unsupported | |
| rxq_managed_mempool_gpu | |
| supported | |
| rxq_regular_cpu | |
| unsupported | |
| rxq_regular_gpu | |
| supported | |
| rxq_max_recv_buf_list_len | 32 |
| rxq_max_packet_size | 16384 |
| rxq_max_burst_size | 32768 |
| txq_regular_cpu | |
| unsupported | |
| txq_regular_gpu | |
| supported | |
| txq_max_send_buf_list_len | 48 |
| txq_max_lso_header_size | 256 |
| txq_txq_max_lso_msg_size | 262144 |

| | |
|-------------------------|---|
| txq_l3_chksum_offload | |
| supported | |
| txq_l4_chksum_offload | |
| supported | |
| txq_wait_on_time_type | |
| unsupported | |
| flow_ct | |
| flow_ct | |
| supported | |
| ipsec | |
| task_sa_create | |
| supported | |
| task_sa_destroy | |
| supported | |
| nvrdr_transport | |
| task_write | |
| supported | |
| rc_max_src_buf_list_len | 0 |
| dc_max_src_buf_list_len | 0 |
| pcc | |
| pcc | |
| unsupported | |
| pcc_np | |
| unsupported | |
| min_num_threads | 0 |
| max_num_threads | 0 |
| rdma | |
| task_send | |
| supported | |
| task_send_imm | |
| supported | |
| task_read | |
| supported | |
| task_write | |
| supported | |

| | |
|--|-------|
| task_write_imm | |
| supported | |
| task_atomic_cmp_swp | |
| supported | |
| task_atomic_fetch_add | |
| supported | |
| task_receive | |
| supported | |
| rc_transport_type | |
| supported | |
| dc_transport_type | |
| unsupported | |
| rc_task_receive_get_max_dst_buf_list_len | 31 |
| dc_task_receive_get_max_dst_buf_list_len | 0 |
| task_remote_net_sync_event_get | |
| supported | |
| task_remote_net_sync_event_notify_set | |
| supported | |
| task_remote_net_sync_event_notify_add | |
| supported | |
| max_send_queue_size | 32768 |
| max_rcv_queue_size | 32768 |
| max_send_buf_list_len | 13 |
| max_message_size | |
| 1073741824 | |
| sha | |
| sha1 | |
| unsupported | |
| sha256 | |
| unsupported | |
| sha512 | |
| unsupported | |
| sha1_partial | |
| unsupported | |
| sha256_partial | |
| unsupported | |

```

        sha512_partial
unsupported
        max_list_num_elem           0
        max_src_buf_size            0
        sha1_min_dst_buf_size       0
        sha256_min_dst_buf_size     0
        sha512_min_dst_buf_size     0
        sha1_partial_hash_block_size 0
        sha256_partial_hash_block_size 0
        sha512_partial_hash_block_size 0
PCI: 0000:03:00.0
    common
        mmap_export_pci
supported
        mmap_create_from_export_pci
supported
        hotplug_manager
unsupported
        rep_filter_all
unsupported
        rep_filter_net
unsupported
        rep_filter_emulated
unsupported
        aes_gcm
            task_encrypt
supported
                task_encrypt_get_max_iv_len    12
                task_encrypt_tag_96
supported
                task_encrypt_tag_128
supported
                task_encrypt_128b_key
supported
                task_encrypt_256b_key
supported

```

| | | |
|-------------|------------------------------------|---------|
| | task_encrypt_max_buf_size | 2097152 |
| | task_encrypt_max_list_buf_num_elem | 128 |
| | task_decrypt | |
| supported | | |
| | task_decrypt_get_max_iv_len | 12 |
| | task_decrypt_tag_96 | |
| supported | | |
| | task_decrypt_tag_128 | |
| supported | | |
| | task_decrypt_128b_key | |
| supported | | |
| | task_decrypt_256b_key | |
| supported | | |
| | task_decrypt_max_buf_size | 2097152 |
| | task_decrypt_max_list_buf_num_elem | 128 |
| | max_num_tasks | 65536 |
| cc | | |
| | server | |
| unsupported | | |
| | client | |
| supported | | |
| | max_name_len | 120 |
| | max_msg_size | 4080 |
| | max_recv_queue_size | 8192 |
| | max_send_tasks | 8192 |
| | max_clients | 0 |
| | consumer | |
| supported | | |
| | consumer_max_num_tasks | 65536 |
| | consumer_max_buf_size | 2097152 |
| | producer | |
| supported | | |
| | producer_max_num_tasks | 65536 |
| | producer_max_buf_size | 2097152 |
| | comm_channel | |
| | max_service_name_len | 120 |

| | |
|--|---------|
| max_message_size | 4080 |
| max_send_queue_size | 8192 |
| max_recv_queue_size | 8192 |
| service_max_num_connections | 0 |
| compress | |
| task_compress_deflate | |
| unsupported | |
| task_compress_deflate_get_max_buf_size | 0 |
| task_compress_deflate_get_max_buf_list_len | 0 |
| task_decompress_deflate | |
| supported | |
| task_decompress_deflate_get_max_buf_size | 2097152 |
| task_decompress_deflate_get_max_buf_list_len | 128 |
| task_decompress_lz4 | |
| supported | |
| task_decompress_lz4_get_max_buf_size | 2097152 |
| task_decompress_lz4_get_max_buf_list_len | 128 |
| max_num_tasks | 65536 |
| dma | |
| task_memcpy | |
| supported | |
| max_buf_size | 2097152 |
| max_buf_list_len | 64 |
| max_num_tasks | 65536 |
| dpa | |
| dpa | |
| supported | |
| max_threads_per_kernel | 128 |
| kernel_max_run_time | 12 |
| erasure_coding | |
| task_galois_mul | |
| supported | |
| task_create | |
| supported | |
| task_update | |
| supported | |

| | |
|---------------------------|---------|
| task_recover | |
| supported | |
| max_block_size | 1048576 |
| max_buf_list_len | 128 |
| eth | |
| rxq_cyclic_cpu | |
| supported | |
| rxq_cyclic_gpu | |
| supported | |
| rxq_managed_mempool_cpu | |
| supported | |
| rxq_managed_mempool_gpu | |
| supported | |
| rxq_regular_cpu | |
| supported | |
| rxq_regular_gpu | |
| supported | |
| rxq_max_recv_buf_list_len | 32 |
| rxq_max_packet_size | 16384 |
| rxq_max_burst_size | 32768 |
| txq_regular_cpu | |
| supported | |
| txq_regular_gpu | |
| supported | |
| txq_max_send_buf_list_len | 48 |
| txq_max_lso_header_size | 256 |
| txq_txq_max_lso_msg_size | 262144 |
| txq_l3_chksum_offload | |
| supported | |
| txq_l4_chksum_offload | |
| supported | |
| txq_wait_on_time_type | |
| unsupported | |
| flow_ct | |
| flow_ct | |
| unsupported | |

```

    ipsec
        task_sa_create
unsupported
        task_sa_destroy
unsupported
        nvrdr_transport
            task_write
supported
                rc_max_src_buf_list_len           0
                dc_max_src_buf_list_len           0
    pcc
        pcc
unsupported
        pcc_np
unsupported
            min_num_threads                       0
            max_num_threads                       0
    rdma
        task_send
supported
            task_send_imm
supported
            task_read
supported
            task_write
supported
            task_write_imm
supported
            task_atomic_cmp_swap
supported
            task_atomic_fetch_add
supported
            task_receive
supported
            rc_transport_type
supported

```


| | |
|--|-------|
| dc_transport_type | |
| unsupported | |
| rc_task_receive_get_max_dst_buf_list_len | 31 |
| dc_task_receive_get_max_dst_buf_list_len | 0 |
| task_remote_net_sync_event_get | |
| supported | |
| task_remote_net_sync_event_notify_set | |
| supported | |
| task_remote_net_sync_event_notify_add | |
| supported | |
| max_send_queue_size | 32768 |
| max_rcv_queue_size | 32768 |
| max_send_buf_list_len | 13 |
| max_message_size | |
| 1073741824 | |
| sha | |
| sha1 | |
| unsupported | |
| sha256 | |
| unsupported | |
| sha512 | |
| unsupported | |
| sha1_partial | |
| unsupported | |
| sha256_partial | |
| unsupported | |
| sha512_partial | |
| unsupported | |
| max_list_num_elem | 0 |
| max_src_buf_size | 0 |
| sha1_min_dst_buf_size | 0 |
| sha256_min_dst_buf_size | 0 |
| sha512_min_dst_buf_size | 0 |
| sha1_partial_hash_block_size | 0 |
| sha256_partial_hash_block_size | 0 |
| sha512_partial_hash_block_size | 0 |

```

PCI: 0000:03:00.1
  common
    mmap_export_pci
supported
    mmap_create_from_export_pci
supported
    hotplug_manager
unsupported
    rep_filter_all
unsupported
    rep_filter_net
unsupported
    rep_filter_emulated
unsupported
    aes_gcm
      task_encrypt
supported
        task_encrypt_get_max_iv_len           12
        task_encrypt_tag_96
supported
        task_encrypt_tag_128
supported
        task_encrypt_128b_key
supported
        task_encrypt_256b_key
supported
        task_encrypt_max_buf_size             2097152
        task_encrypt_max_list_buf_num_elem    128
        task_decrypt
supported
        task_decrypt_get_max_iv_len           12
        task_decrypt_tag_96
supported
        task_decrypt_tag_128
supported

```

| | |
|--|---------|
| task_decrypt_128b_key | |
| supported | |
| task_decrypt_256b_key | |
| supported | |
| task_decrypt_max_buf_size | 2097152 |
| task_decrypt_max_list_buf_num_elem | 128 |
| max_num_tasks | 65536 |
| cc | |
| server | |
| unsupported | |
| client | |
| supported | |
| max_name_len | 120 |
| max_msg_size | 4080 |
| max_recv_queue_size | 8192 |
| max_send_tasks | 8192 |
| max_clients | 0 |
| consumer | |
| supported | |
| consumer_max_num_tasks | 65536 |
| consumer_max_buf_size | 2097152 |
| producer | |
| supported | |
| producer_max_num_tasks | 65536 |
| producer_max_buf_size | 2097152 |
| comm_channel | |
| max_service_name_len | 120 |
| max_message_size | 4080 |
| max_send_queue_size | 8192 |
| max_recv_queue_size | 8192 |
| service_max_num_connections | 0 |
| compress | |
| task_compress_deflate | |
| unsupported | |
| task_compress_deflate_get_max_buf_size | 0 |
| task_compress_deflate_get_max_buf_list_len | 0 |

```

        task_decompress_deflate
supported
        task_decompress_deflate_get_max_buf_size      2097152
        task_decompress_deflate_get_max_buf_list_len  128
        task_decompress_lz4
supported
        task_decompress_lz4_get_max_buf_size          2097152
        task_decompress_lz4_get_max_buf_list_len     128
        max_num_tasks                                 65536
    dma
        task_memcpy
supported
        max_buf_size                                  2097152
        max_buf_list_len                              64
        max_num_tasks                                 65536
    dpa
        dpa
supported
        max_threads_per_kernel                        128
        kernel_max_run_time                           12
    erasure_coding
        task_galois_mul
supported
        task_create
supported
        task_update
supported
        task_recover
supported
        max_block_size                                1048576
        max_buf_list_len                              128
    eth
        rxq_cyclic_cpu
supported
        rxq_cyclic_gpu
supported

```

| | |
|---------------------------|--------|
| rxq_managed_mempool_cpu | |
| supported | |
| rxq_managed_mempool_gpu | |
| supported | |
| rxq_regular_cpu | |
| supported | |
| rxq_regular_gpu | |
| supported | |
| rxq_max_recv_buf_list_len | 32 |
| rxq_max_packet_size | 16384 |
| rxq_max_burst_size | 32768 |
| txq_regular_cpu | |
| supported | |
| txq_regular_gpu | |
| supported | |
| txq_max_send_buf_list_len | 48 |
| txq_max_lso_header_size | 256 |
| txq_txq_max_lso_msg_size | 262144 |
| txq_l3_chksum_offload | |
| supported | |
| txq_l4_chksum_offload | |
| supported | |
| txq_wait_on_time_type | |
| unsupported | |
| flow_ct | |
| flow_ct | |
| unsupported | |
| ipsec | |
| task_sa_create | |
| unsupported | |
| task_sa_destroy | |
| unsupported | |
| nvrdr_transport | |
| task_write | |
| supported | |
| rc_max_src_buf_list_len | 0 |

| | |
|--|----|
| dc_max_src_buf_list_len | 0 |
| pcc | |
| pcc | |
| unsupported | |
| pcc_np | |
| unsupported | |
| min_num_threads | 0 |
| max_num_threads | 0 |
| rdma | |
| task_send | |
| supported | |
| task_send_imm | |
| supported | |
| task_read | |
| supported | |
| task_write | |
| supported | |
| task_write_imm | |
| supported | |
| task_atomic_cmp_swp | |
| supported | |
| task_atomic_fetch_add | |
| supported | |
| task_receive | |
| supported | |
| rc_transport_type | |
| supported | |
| dc_transport_type | |
| unsupported | |
| rc_task_receive_get_max_dst_buf_list_len | 31 |
| dc_task_receive_get_max_dst_buf_list_len | 0 |
| task_remote_net_sync_event_get | |
| supported | |
| task_remote_net_sync_event_notify_set | |
| supported | |

```

        task_remote_net_sync_event_notify_add
supported
        max_send_queue_size                32768
        max_recv_queue_size                32768
        max_send_buf_list_len              13
        max_message_size
1073741824
        sha
            sha1
unsupported
            sha256
unsupported
            sha512
unsupported
            sha1_partial
unsupported
            sha256_partial
unsupported
            sha512_partial
unsupported
        max_list_num_elem                    0
        max_src_buf_size                    0
        sha1_min_dst_buf_size              0
        sha256_min_dst_buf_size            0
        sha512_min_dst_buf_size            0
        sha1_partial_hash_block_size        0
        sha256_partial_hash_block_size      0
        sha512_partial_hash_block_size      0

```

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