Driver for PCI Endpoint Test Function

This driver should be used as a host side driver if the root complex is connected to a configurable PCI endpoint running `pci_epf_test` function driver configured according to [1].

The "pci_endpoint_test" driver can be used to perform the following tests.

The PCI driver for the test device performs the following tests:

1. verifying addresses programmed in BAR
2. raise legacy IRQ
3. raise MSI IRQ
4. raise MSI-X IRQ
5. read data
6. write data
7. copy data

This misc driver creates /dev/pci-endpoint-test.<num> for every `pci_epf_test` function connected to the root complex and "ioctls" should be used to perform the above tests.

ioctl

PCITEST_BAR:
  Tests the BAR. The number of the BAR to be tested should be passed as argument.
PCITEST_LEGACY_IRQ:
  Tests legacy IRQ
PCITEST_MSI:
  Tests message signalled interrupts. The MSI number to be tested should be passed as argument.
PCITEST_MSIX:
  Tests message signalled interrupts. The MSI-X number to be tested should be passed as argument.
PCITEST_SET_IRQTYPE:
  Changes driver IRQ type configuration. The IRQ type should be passed as argument (0: Legacy, 1:MSI, 2:MSI-X).
PCITEST_GET_IRQTYPE:
  Gets driver IRQ type configuration.
PCITEST_WRITE:
  Perform write tests. The size of the buffer should be passed as argument.
PCITEST_READ:
  Perform read tests. The size of the buffer should be passed as argument.
PCITEST_COPY:
  Perform read tests. The size of the buffer should be passed as argument.

[1]   Documentation/PCI/endpoint/function/binding/pci-test.rst