

# ixbps

**Library scope:** global  
**Named arguments:** supported

## Introduction

provides functions for Ixia Breaking Point

Breaking Point testers setting is set by `tester` section in `local.yaml`. Users need to specify the physical ports used by the test by its card and port number.

Setting example:

```
ixbps01:  
  device: ixbps01  
  config: test.bpt  
  real-port:  
    - card: 1  
      port: 0  
    - card: 1  
      port: 1
```

**Notes:** Ignore the *self* parameters when using those keywords. The module requires Breaking Point Python library installedd properly to work.

## Shortcuts

Cleanup Tests · Close · Get Card Config · Get Card Mode · Get Test Report · Load Config · Set Card Config · Start Test · Stop Test · Wait Until Finish

## Keywords

Keyword	Arguments	Documentation
Cleanup Tests	<i>self</i>	Cleans up running test and release their ports
Close	<i>self</i>	Closes the connection to the BP box
Get Card Config	<i>self</i> , <i>slot_num</i>	Get card configuration for <i>slot_num</i>  Parameter: <ul style="list-style-type: none"><li>▪ <i>slot_num</i> is <i>all</i> or an integer start from 1</li></ul> Result is a json formatted string contains the informaiton for specific slot or <i>all</i> slots.
Get Card Mode	<i>self</i> , <i>slot_num</i>	Gets the <i>mode</i> of a specific slot
Get Test Report	<i>self</i> , <i>report_name=result</i> , <i>format=csv</i>	Gets and saves the test report to local disk  The report will be in PDF format. If <code>export_csv</code> is <code>True</code> then test results are also exported by CSV format.
Load Config	<i>self</i> , <i>config_name=</i> , <i>force=True</i>	Loads test configuration <i>config_name</i> is defined in <code>local.yaml</code> or specific by user in the main scenario.
Set Card Config	<i>self</i> , <i>slot</i> , <i>action=mode</i> , <i>param=ixload</i>	Changes the configuration of BPS card  Parameters: <ul style="list-style-type: none"><li>▪ slot: slot number</li><li>▪ action: <code>mode</code> or <code>perfacc</code></li><li>▪ param: depending on <i>action</i></li></ul> Values of <i>param</i> : <ul style="list-style-type: none"><li>▪ if <i>action</i> is <code>mode</code> then <i>param</i> should be <code>ixload</code>, <code>bp</code> or <code>bpl23</code> (BreakingPoint L2/3)</li><li>▪ if <i>action</i> is <code>perfacc</code> then <i>param</i> should be <code>\$(TRUE)</code> or <code>\$(FALSE)</code></li></ul>
Start Test	<i>self</i> , <i>test_name=None</i> , <i>force=True</i>	Starts a test by its name  The system automatically reserve the ports defined in <code>local.yaml</code> . The reserved ports are released when the test is stopped  <i>test_name</i> is the name of the testmodel saved in the configuration. If <i>test_name</i> is <code>None</code> , the 1st testmodel will be used.  If <i>force</i> is <code>True</code> then all running tests and their reserved ports will be released.
Stop Test	<i>self</i> , <i>wait=5s</i>	Stops a running test
Wait Until Finish	<i>self</i> , <i>interval=30s</i> , <i>timeout=30m</i> , <i>verbose=False</i>	Waits until the test finished or timeout  <b>Notes:</b> This is a blocking keyword

Altogether 10 keywords.

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