Hardware Check

Carlos Abido Core Team

Rev V2



Hard check is tool for validating the hardware and software configuration. For projects that are already in IPU with no hardware changes, it can help to quickly validate the project's (POR) configuration.

Hardware Check is a Python script that runs BoardInfo and compares the YAML configuration file with ZordonSystem.json. BoardInfo scans the target hardware and creates a data.json file. ZordonSystem.json automatically collects data from the data.json file and the Automation Status.

Features:

- Automatically selects between Python 2 and Python 3
- Creates two fail files with different extensions: .html and .log on local host and copy .log to OD
 Collect during a failure in automation.
- There are two options available for running the hardware check: manually or through the loaders Xwrapper or Satellite. Additionally, three flags are available for automation: 'stop-on-error', 'continue-on-error', and 'user_yaml filename'. These flags allow the automation to either stop or continue in case of an error or create a custom YAML configuration file for IDC (e.g., GNR_DP_4DIMM.yaml). A log is generated for further investigation.
- Automatically selects the correct yaml per siliconfamily and units.

BoardInfo

Board Info is a complex python collection scripts that reports the inventory of various installed components of a given system.

Example: DIMM Installation, CPU SN#, CPU Step, PCIe card, etc

A data.json file is created. It contain formatted data from the most recent run (Hardware).

ZordonSystem.json will be upgraded with data.json and software configuration. (Tags, Automation Status)

BoardInfo: C:\SVSHARE\BoardInfo\BoardInfo.py
ZordonSystem.json: C:\SVSHARE\ExecutionScripts\CurrentZordonSystem\ZordonSystem.json

nstallation The hardware_check package is available in Packman.

To install, use the following command:

packman install --name Hardware_check

Hardware Check will be installed in: C:\SVSHARE\User_Apps\Hardwarecheck.

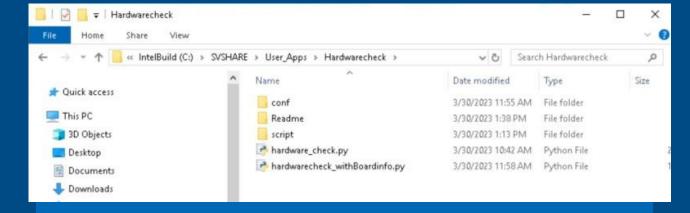
Flags:

--continue_on_error: Continue execution if hardware check encounters an error.

--stop_on_error: Stop execution if hardware check encounters an error.

--user_yaml filename: Create a custom YAML configuration file. Save in the "conf" directory.

(e.g., GNR_DP_4DIMM.yaml).



The following folders are included:

- conf: contains all yaml configuration files
- Readme: This PDF
- script: contains Python 2 and Python 3 scripts
 - hardware_check.py -continue_on_error: calls the appropriate script depending on the Python version. Xwrapper or Satellite.
 - hardwarecheck_withBoardinfo.py: This script calls boardinfo.py –intrusive and hardware_check.py. This script doesn't call the loaders Xwrapper or Satellite. It's call BoardInfo and hardware_check.py with no flag.

Configuration

The yaml will allow an easy way to enable / disable any elements available.

Format allow for yaml file: SPR_UP.yaml, SPR_DP.yaml, EMR_UP.yaml, EMR_DP.yaml etc

```
"Source": "BoardInfo",
"SiliconFamily": "SPR",
"NumOfCores": 8,
"NumOfThreads": 16,
"Units": [
        "UnitSerial": "71RF772500534",
        "Product": "SAPPHIRE RAPIDS-SP-XCC",
        "DataSource": "CATTS",
        "Socket": 0,
        "NumOfCores": 4,
        "NumOfThreads": 8,
        "UnitUlt": "D1318650 677 3 -2",
        "QDF": "Q03H",
        "UnitStep": "E0",
        "FuseRevision": ""
        "NPKAddress": "0x72600009",
        "CpuID": "0x806f4",
        "AtomStepping": "",
        "Straps": [
            "Strap BIST ENABLE: ON",
            "Strap SAFE MODE BOOT: OFF",
            "Strap TXT PLT EN: OFF",
            "Strap TXT AGENT: ON"
        "UnitSerial": "71RF772500346",
        "Product": "SAPPHIRE RAPIDS-SP-XCC",
        "DataSource": "CATTS",
        "Socket": 1,
        "NumOfCores": 4,
        "NumOfThreads": 8,
        "UnitUlt": "D1318650 757 -4 4",
        "QDF": "Q03H",
        "UnitStep": "E0",
        "FuseRevision": "",
        "NPKAddress": "0x72400009",
        "CpuID": "0x806f4",
        "AtomStepping": "",
        "Straps": [
            "Strap BIST ENABLE: ON",
```

```
# Source: BoardInfo
SiliconFamily: SPR
# NumOfCores: 8
# NumOfThreads: 16
Units:
- #UnitSerial: 71RF772500534
  # Product: SAPPHIRE RAPIDS-SP-XCC
  # DataSource: CATTS
  Socket: 0
  # NumOfCores: 4
  # NumOfThreads: 8
  # UnitUlt: D1318650 677 3 -2
  # QDF: Q03H
  # UnitStep: E0
  # FuseRevision: ''
  # NPKAddress: '0x72600009'
  # CpuID: '0x806f4'
  # AtomStepping: ''
  - 'Strap BIST ENABLE: ON'
  - 'Strap SAFE MODE BOOT: OFF'
  - 'Strap TXT PLT EN: OFF'
  - 'Strap TXT AGENT: ON'
  #UnitSerial: 71RF772500346
  # Product: SAPPHIRE RAPIDS-SP-XCC
  # DataSource: CATTS
  Socket: 1
  # NumOfCores: 4
  # NumOfThreads: 8
  # UnitUlt: D1318650 757 -4 4
  # QDF: Q03H
  # UnitStep: E0
  # FuseRevision: ''
  # NPKAddress: '0x72400009'
  # CpuID: '0x806f4'
  # AtomStepping: ''
  Straps:
  - 'Strap BIST ENABLE: ON'
  - 'Strap SAFE_MODE_BOOT: OFF'
```

Automation Conf

To enable in Xwrapper, need to add these lines in TargetConfig.xml

```
<CafeConfiguration>
  <CafeInterceptions>
    <Interception0>
      <Event>'PCxmlGenerated'</Event>
      <Script>'python'</Script>
      <Params>'C:\\SVShare\\BoardInfo\\BoardInfo.py --intrusive'</Params>
      <TimeoutSec>300</TimeoutSec>
    </Interception0>
    <Interception1>
    <Interception2>
    <Interception3>
    <Interception4>
    <Interception5>
    <Interception6>
    <Interception7>
      <Event>'PCxmlGenerated'</Event>
      <Script>'python'</Script>
      <Params>'C:\\SVSHARE\\User Apps\\Hardwarecheck\\hardware check.py --continue on error'</Params>
      <TimeoutSec>600</TimeoutSec>
    </Interception7>
  </CafeInterceptions>
```

To enable in Satellite, need to add these lines in board.cfg

```
[AutoDiag_POSTDone]
Enable=1
TimeOutSec = 2400
Cmd0="C:\Python27\Python.exe C:\pythonsv\skylakex\cafe\automation\F6Done.py --dis_mca_break --dis_lmup"
;Cmd1="Cwrapper.cmd skylakex\cafe\automation\cafe_hwcc.py %COMPUTERNAME%"
;Cmd2="Cwrapper.cmd skylakex\cafe\automation\cafe_swcc.py %COMPUTERNAME%"

Cmd2="Cwrapper.cmd skylakex\cafe\automation\cafe_swcc.py %COMPUTERNAME%"

Cmd2="C:\Python27\Python.exe C:\SVSHARE\BoardInfo\BoardInfo.py --intrusive"

Cmd2="C:\Python27\Python.exe C:\SVSHARE\User_Apps\Hardwarecheck\hardware_check.py --continue_on_error"
```

Collect Conf

To enable copy the log file to OD Collect flow during a failure. Add the path Of the log file into collect_config.py

```
C:\SVSHARE\User_Apps\OD_confiq_package\flows\collect\collect_config.py - Notepad++ [Administrator]
       Search View Encoding Language Settings Tools Macro Run Plugins Window ?
Collect_config.py 🔀 📴 update_tools py 🖸 📑 requires_pyrv.txt 🗵 🚆 requires_pyrv.txt 🔾 🚆 Py2PySVDeployerSHA py 🖸 🚆 pyrv_freeze.txt 🖸 🚆 Board origin cfg 😢 🔡 SeedFall.py 🔀 😭 toobox.py 🔀 🕌 __init__ py 🗵
                            environment.loader dir + r"\Target.ini",
74
                            environment.loader dir + r"\Board.cfg",
75
                            config.target.platform config xml path,
 76
                            r'C:\SVShare\Satellite\Satellite.log',
 77
                            r'C:\SVShare\XWrapper\Log\xwrapper.log'
 78
 79
80
     Files to copy.extend([r'C:\Inventory\Packages\SystemVersion.txt',
81
                             r'C:\SVSHARE\Logs\PythonSv\id decode\ID Decode.log',
 82
                             r'C:\pythonsv\version.ini',
83
                             r'C:\SVSHARE\ExecutionScripts\ZordonEnvironment.py',
84
                             r'C:\SVSHARE\ExecutionScripts\ZordonEnvironment.bat',
85
                             r'C:\SVShare\User_Apps\WA_Package\version.txt',
                             r'C:\SVSHARE\BiosVersion.ini',
86
87
                             r'C:\SVSHARE\User Apps\SysCfg\output\TargetOutput.xml',
 88
                             r'C:\SVShare\BootScript.py',
89
                             r'C:\SVSHARE\User Apps\WA Package\waConfigs\waConfig '+os.environ["SiliconFamily"]+'.cfg',
 90
                             r'C:\SVShare\ConfigurationToolSignature.ini',
91
                             r'C:\SVShare\ConfigurationTool.log',
 92
                             r'C:\SVShare\.evtar\TargetConfig.xml',
 93
                             r'C:\SVSHARE\User Apps\WA Package\PackageLogger.log',
94
                             r'C:\Temp\pmsb reg0.log',
95
                             r'C:\Temp\pmsb reg1.log',
 96
                             r'C:\Temp\pmsb reg2.log',
97
                             r'C:\Temp\pmsb reg3.log',
98
                             r'C:\Temp\pmsb reg4.log',
99
                             r'C:\Temp\pmsb reg5.log',
                             r'C:\Temp\pmsb reg6.log',
                             r'C:\Temp\pmsb reg7.log',
104
106
       abort analysis on missing platform config = False
107
       local generation = True
```

This is the output when the harwarecheck_withBoardinfo.py is run and hardware check passes:

```
Administrator: C:\Windows\System32\cmd.exe
Executing scripts on: XmlCli v1.5.0 | Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2010, 16:30:26) [MSC v.1500 64 bit (AMD6
4)]
INFO: Please run flexconUtils.readProjectCfgFile(['<YourProject+Focus>.ini'] prior to manually using any functions in fl
exconUtils
2023-03-30 11:52:57 - INFO - Resuming unit
2023-03-30 11:52:58 - INFO - Unit resumed
2023-03-30 11:52:58 - INFO - Detecting connected probe(s) on the system
2023-03-30 11:53:03 - INFO - XDP HW was detected on the system
2023-03-30 11:53:03 - INFO - About to parse xml file: C:\SVSHARE\BoardInfo\Configuration.ini
2023-03-30 11:53:03 - INFO - Directory: C:\SVShare\BoardInfo\Output already exists
2023-03-30 11:53:03 - INFO - About to parse xml file: C:\SVSHARE\BoardInfo\Configuration.ini
2023-03-30 11:53:03 - INFO - Reporting unit D6B47Y2500240 to Unit Location Service
2023-03-30 11:53:03 - INFO - Sending POST URL='http://unitlocationservice-prod.apps1-lc-int.icloud.intel.com/api/v1/unit
Location' with body: {'scanDateTime': '2023-03-30 16:53:03.128000', 'vid': u'D6B47Y2500240', 'hostName': 'AN4COREPRT053'
, 'comments': '', 'toolName': 'BoardInfo', 'hostLocation': u'AN-Austin'}
2023-03-30 11:53:04 - INFO - Got response: {u'scanDateTime': u'2023-03-30T16:53:03.128', u'vid': u'D6B47Y2500240', u'hos
tName': u'AN4COREPRT053', u'comments': u'', u'toolName': u'BoardInfo', u'hostLocation': u'AN-Austin'}
2023-03-30 11:53:04 - INFO - Reporting unit D6847Y2500275 to Unit Location Service
2023-03-30 11:53:04 - INFO - Sending POST URL='http://unitlocationservice-prod.apps1-lc-int.icloud.intel.com/api/v1/unit
Location' with body: {'scanDateTime': '2023-03-30 16:53:04.644000', 'vid': u'D6B47Y2500275', 'hostName': 'AN4COREPRT053
, 'comments': '', 'toolName': 'BoardInfo', 'hostLocation': u'AN-Austin'}
2023-03-30 11:53:05 - INFO - Got response: {u'scanDateTime': u'2023-03-30T16:53:04.644', u'vid': u'D6B47Y2500275', u'hos
tName': u'AN4COREPRT053', u'comments': u'', u'toolName': u'BoardInfo', u'hostLocation': u'AN-Austin'}
2023-03-30 11:53:05 - INFO - Trying to close OpenIPC connection
2023-03-30 11:53:05 - INFO - Parsing MasterFrame config for timeout before killing the process
2023-03-30 11:53:05 - INFO - Timeout value is 0, Dal will be kept open
Shutting down ITP Commands Library...
Executing hardware check.py
[INFO] - HARDWARE CHECK PASSED!
C:\SVSHARE\User_Apps\Hardwarecheck>_
```

This is the output when the harwarecheck_withBoardinfo.py is run and hardware check fails:

```
Administrator: C:\Windows\System32\cmd.exe
                                                                                                           [SKX C55 T0] Wait for SIPI loop break at 0xF000:00000000000000000
2023-03-30 12:07:59 - INFO - Unit halted
Executing scripts on: XmlCli v1.5.0 | Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2018, 16:30:26) [MSC v.1500 64 bit (AMD6
INFO: Please run flexconUtils.readProjectCfgFile(['<YourProject+Focus>.ini'] prior to manually using any functions in fl
2023-03-30 12:08:00 - INFO - Resuming unit
2023-03-30 12:08:02 - INFO - Unit resumed
2023-03-30 12:08:02 - INFO - Detecting connected probe(s) on the system
2023-03-30 12:08:06 - INFO - XDP HW was detected on the system
2023-03-30 12:08:06 - INFO - About to parse xml file: C:\SVSHARE\BoardInfo\Configuration.ini
2023-03-30 12:08:06 - INFO - Directory: C:\SVShare\BoardInfo\Output already exists
2023-03-30 12:08:06 - INFO - About to parse xml file: C:\SVSHARE\BoardInfo\Configuration.ini
2023-03-30 12:08:06 - INFO - Reporting unit D6B47Y2500240 to Unit Location Service
2023-03-30 12:08:06 - INFO - Sending POST URL='http://unitlocationservice-prod.apps1-lc-int.icloud.intel.com/api/v1/unit
Location' with body: {'scanDateTime': '2023-03-30 17:08:06.364000', 'vid': u'D6B47Y2500240', 'hostName': 'AN4COREPRT053'
, 'comments': '', 'toolName': 'BoardInfo', 'hostLocation': u'AN-Austin'}
2023-03-30 12:08:08 - INFO - Got response: {u'scanDateTime': u'2023-03-30T17:08:06.364', u'vid': u'D6847Y2500240', u'hos
tName': u'AN4COREPRT053', u'comments': u'', u'toolName': u'BoardInfo', u'hostLocation': u'AN-Austin'}
2023-03-30 12:08:08 - INFO - Reporting unit D6B47Y2500275 to Unit Location Service
2023-03-30 12:08:08 - INFO - Sending POST URL='http://unitlocationservice-prod.apps1-lc-int.icloud.intel.com/api/v1/unit
Location' with body: {'scanDateTime': '2023-03-30 17:08:08.020000', 'vid': u'D6847Y2500275', 'hostName': 'AN4COREPRT053'
, 'comments': '', 'toolName': 'BoardInfo', 'hostLocation': u'AN-Austin'}
2023-03-30 12:08:08 - INFO - Got response: {u'scanDateTime': u'2023-03-30T17:08:08.02', u'vid': u'D6B47Y2500275', u'host
Name': u'AN4COREPRT053', u'comments': u'', u'toolName': u'BoardInfo', u'hostLocation': u'AN-Austin'}
2023-03-30 12:08:08 - INFO - Trying to close OpenIPC connection
2023-03-30 12:08:08 - INFO - Parsing MasterFrame config for timeout before killing the process
2023-03-30 12:08:08 - INFO - Timeout value is 0, Dal will be kept open
Shutting down ITP Commands Library...
Executing hardware check.py
[WARNING] - HARDWARE CHECK FAILED!
 WARNING] - Log files created at C:\SVSHARE\User_Apps\Hardwarecheck
[INFO] - no flag.
C:\SVSHARE\User Apps\Hardwarecheck>_
```

This is the output showing hardware check passing in Xwrapper:

```
XWrapper 1.0.100 with XMON 3.3.4.4
                         StdOut] C:\SVSHARE\XWrapper>exit 0
                       [XmonInterface] Process Completed.
                       [XmonInterface] returnCode: 0
                       [XmonInterface] Executing python.
                       [XmonInterface] Regular call script name : C:\Windows\System32\cmd.exe /c python C:\SVSHARE\User Apps\hardwarecheck
hardware check.py --continue-on-error
                       [XmonInterface] Args: /c python C:\SVSHARE\User Apps\hardwarecheck\hardware check.py --continue_on_error
                       [XmonInterface] Working Dir: C:\SVSHARE\XWrapper
                       [XmonInterface] Waiting process to finish...
                         StdOut] [INFO] - HARDWARE CHECK PASSED!
                       XmonInterfacel returnCode: 0
                       [XmonInterface] SaveGBT second False.
                       [XmonInterface] GeneratePcXmlAfterEachBoot secondFalse.
                       [XmonInterface] Regular call script name : C:\SVSHARE\XWrapper\PC2TargetIniConv.exe -s
                       [XmonInterface] Converting Target.ini
                       [XmonInterface] Waiting process to finish...
                       [XmonInterface] Args: -s
                       [XmonInterface] Working Dir: C:\SVSHARE\XWrapper
                       6000001 Timeout value is
                        StdOut] Loading HalMessageComWrapper...
                         StdOut] (Message) GBT Version 3.0901 Creating target ini with pci-devices section
                       [XmonInterface] Process Completed.
                       [XmonInterface] returnCode: 0
                       [XWrapper] Reboot completed
                       XWrapper | PlatformConfig archived - C:\SVSHARE\XWrapper\PlatformConfig-03-30-23-114503.xml
                       [XWrapper] Idle - Waiting for seed
```

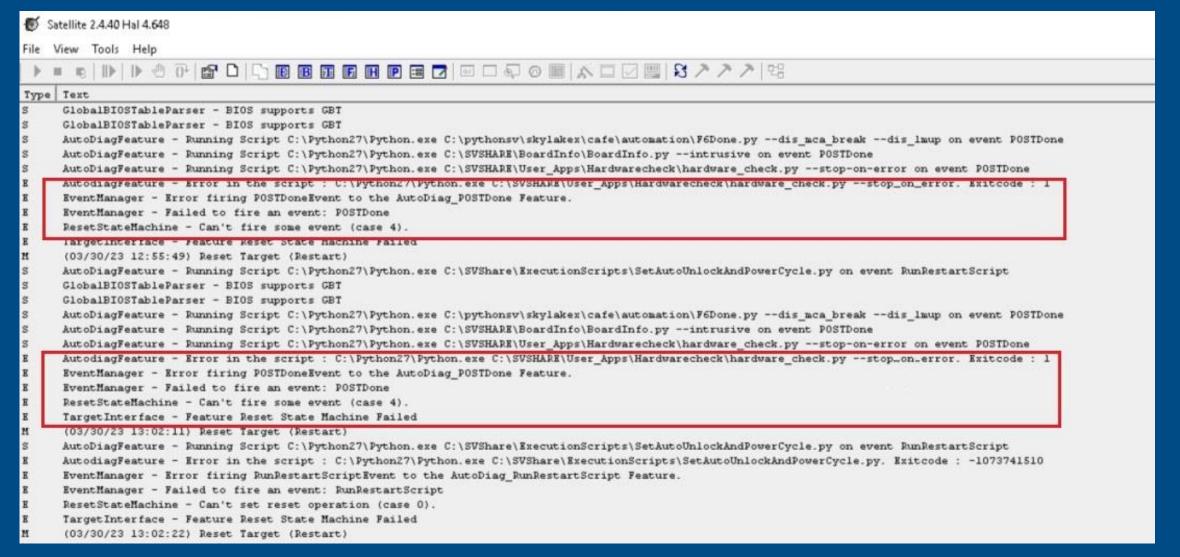
This is the output showing hardware check failed in Xwrapper with -continue_on_error flags

```
Mrapper 1.0.100 with XMON 3.3.4.4
                        [XmonInterface] Process Completed.
                       [XmonInterface] returnCode: 0
                        [XmonInterface] Executing python.
                        [XmonInterface] Regular call script name : C:\Windows\System32\cmd.exe /c python C:\SVSHARE\User Apps\hardwarecheck
hardware check.py --continue-on-error
                        [XmonInterface] Working Dir: C:\SVSHARE\XWrapper
                       [XmonInterface] Waiting process to finish...
                          600000] Timeout value is
                       [XmonInterface] Args: /c python C:\SVSHARE\User Apps\hardwarecheck\hardware check.py --continue_on_error
                         StdOut] [WARNING] - HARDWARE CHECK FAILED!
                          StdOut] [WARNING] - Log files created at C:\SVSHARE\User Apps\hardwarecheck
                                  [WARNING] - Continuing execution due to --continue-on-error flag
                       (xmonincerface) Process Completed.
                        XmonInterface| returnCode: 0
                        XmonInterface | SaveGBT second False.
                        XmonInterface | GeneratePcXmlAfterEachBoot secondFalse.
                        [XmonInterface] Regular call script name : C:\SVSHARE\XWrapper\PC2TargetIniConv.exe -s
                        XmonInterface | Converting Target.ini
                        'XmonInterface' Working Dir: C:\SVSHARE\XWrapper
                        [XmonInterface] Waiting process to finish...
                         600000] Timeout value is
                        [XmonInterface] Args: -s
                        StdOut] Loading HalMessageComWrapper...
                         StdOut] (Message) GBT Version 3.0901 Creating target ini with pci-devices section
                        XmonInterface| Process Completed.
                        [XmonInterface] returnCode: 0
                       [XWrapper] Reboot completed
  03/30/2023 11:21:46| [XWrapper] PlatformConfig archived - C:\SVSHARE\XWrapper\PlatformConfig-03-30-23-112146.xml
                       [XWrapper] Idle - Waiting for seed
```

This is the output showing hardware check failed in Xwrapper with - -stop_on_error flags

```
Mrapper 1.0.100 with XMON 3.3.4.4
                       [XmonInterface] Executing python.
hardware check.py --stop-on-error
                       [XmonInterface] Args: /c python C:\SVSHARE\User Apps\hardwarecheck\hardware check.py --stop_on_error
                       [XmonInterface] Working Dir: C:\SVSHARE\XWrapper
                         600000] Timeout value is
                       [XmonInterface] Waiting process to finish...
 03/30/2023 11:04:16] StdOut | WARNING -- HARDWARE CHECK FAILED!
                         StdOut] [WARNING] - Log files created at C:\SVSHARE\User Apps\hardwarecheck
                         StdOut] [WARNING] - Stopping execution due to --stop-on-error flag
                       [Amoninterface] Process Completed With error:
                       [XmonInterface] Regular call script name : C:\Windows\System32\cmd.exe /c python C:\SVSHARE\User Apps\hardwarecheck
hardware check.py --stop_on_error
                       [XmonInterface] returnCode: 1
                         600000] Timeout value is
                       [XmonInterface] Waiting process to finish...
                       [XmonInterface] Args: /c python C:\SVSHARE\User Apps\hardwarecheck\hardware check.py --stop-on-error
                       [XmonInterface] Working Dir: C:\SVSHARE\XWrapper
                        StdOut] [WARNING] - HARDWARE CHECK FAILED!
                         StdOut] [WARNING] - Log files created at C:\SVSHARE\User Apps\hardwarecheck
                         StdOut] [WARNING] - Stopping execution due to --stop_on_error flag
                       [XmonInterface] Process Completed with error!
                       [XmonInterface] returnCode: 1
 03/30/2023 11:04:18 ERROR | XmonInterface
Detail
ailed to execute PC hack script.
                       [XWrapper] Workflow Stopped.
                       [XWrapper] Reboot Failed
                       [XWrapper] Halted!!
```

This is the output showing hardware check failed in Satellite with - -stop_on_error flags



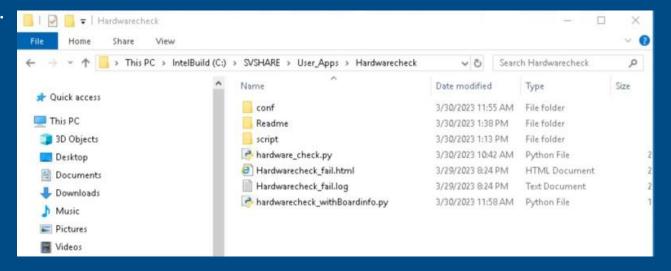
This is the output showing hardware check passed in Satellite with - -continue_on_error flags

```
Satellite 2.4.40 Hal 4.648
File View Tools Help
      Type Text
     GenericFeatures: Version: 4.648$Date: 08/10/16 5:00 pm$ By SA-IDC
     DebuggerFeatures: Version: 4.648$Date: 08/10/16 5:00 pm$ By SA-IDC
     MailBoxFeature : Version: 4.648$Date: 08/10/16 5:00 pm$ By PSV-BDC
     AutodiagFeature: Version: 4.648$Date: 08/10/16 5:00 pm$ By PSV-BDC
     CPUFeatures : Version: 4.648$Date: 08/10/16 5:00 pm$ By SA-IDC
     IIOFeatures : Version: 4.648$Date: 08/10/16 5:00 pm$ By PVE-BDC
     SumrisepointICHFeatures: Version: 4.648$Date: 08/10/16 5:00 pm$ By SA-IDC
     ----
     KfirFeatures: Version: 4.648$Date: 08/10/16 5:00 pm$ By SA-IDC
     ----
     Generic HAL: Version: 4.648$Date: 08/10/16 5:00 pm$
     DynamicGoldenTargetLoader - Failed to get golden obj to load
     NetworkSeedServer - Network seed server inactive.
     SeedManager - Target.ini is too old (age is 63 days)!
     Press the "Auto" button to start execution.
     Kfir in non-transparent mode was detected
     Kfir II was detected
     (04/28/23 11:23:16) Reset Target (Restart)
     AutoDiagFeature - Running Script C:\Python27\Python.exe C:\SVShare\ExecutionScripts\SetAutoUnlockAndPowerCycle.py on event RunRestartScript
     GlobalBIOSTableParser - BIOS supports GBT
     GlobalBIOSTableParser - BIOS supports GBT
     AutoDiagFeature - Running Script C:\Python27\Python.exe C:\pythonsv\skylakex\cafe\automation\F6Done.py --dis mca break --dis lmup on event POSTDone
     AutoDiagFeature - Running Script C:\Python27\Python.exe C:\SVSHARE\BoardInfo\BoardInfo.py --intrusive on event POSTDone
     AutoDiagFeature - Running Script C:\Python27\Python.exe C:\SVSHARE\User Apps\Hardwarecheck\hardware check.py --continue on error on event POSTDone
     SeedManager - Waiting for seed C:\syshare\Run\*.obj
```

When hardware check fails, two files extensions

.html and .log are created.





Hardwarcheck_fail.log

Hardwarecheck_fail.html

Differences between required SPR_DP.yaml (expected) and collected data data.json (actual). Log created: 03/29/23 at 20:24		
Items	SPR_DP.yaml	data.json
['Units', 0, 'Straps', 0, 'Strap_BIST_ENABLE: OFF']	Strap_BIST_ENABLE: OFF	Strap_BIST_ENABLE: ON

Troubleshooting

Creating/upgrading YAML config file from ZordonSystem.json

- I. To validate this new YAML file:
 - Run hardwarecheck_withBoardinfo.py.
 - BoardInfo will scan the hardware and upgrade data.json.
 - ZordonSystem.json will be updated after 2 minutes.
 - If it fails, remove C:\SVSHARE\ExecutionScripts\CurrentZordonSystem\ZordonSystem.json.
 - A new ZordonSystem.json will be created with the updated data.json information.
 - If it fails again, please check the YAML file, as there may be a format problem.
- Run hardware_check.py -continue_on_error.
 This should display HARDWARE_CHECK PASSED.
 At this point, the system is ready to run in Automation.
- 3. This validation is ONLY necessary when a new or changed YAML configuration file or new host.

Conclusion

In conclusion, the Hardware Check always calls BoardInfo to scan hardware and update the data.json file, which is then compared to the YAML configuration file.

#