



Certification Test Results, rhcert 4.4 R20170206 2017-05-02 17:32:45

arch: x86_64
model: Positivo Master D810
make: Positivo
vendor: Positivo Informatica SA
Certification for:
pns_version_id: 22
cert_nid: 2997681
cert_type: system
product_certification: Red Hat Enterprise Linux 7
bug_id: 1440913
product_certification_id: 3
version: 7
minor_version: 7.0
certification_id: 33869
vendor_product_id: 6315
vendor:
Red Hat Enterprise Linux 7.0 localhost.localdomain 192.168.0.102
vendor:
make: Positivo
0.0

test: cpuscaling

non-interactive certification

run 1: 2017-05-02 17:32:47

FAIL

Test Log:

Checking installed rpms:
kernel-tools-3.10.0-514.el7.x86_64
All required packages installed

Capabilities:

System Capabilites:

CPU 0 Model: Intel(R) Core(TM) i7-6700 CPU @ 3.40GHz
System has 8 cpus
Packages:
package 0 has cpus: 0, 1, 2, 3, 4, 5, 6, 7

No supported frequency information

Current Frequencies:

cpu0: 3862718
cpu1: 3876398
cpu2: 3954359
cpu3: 3745179
cpu4: 3944664
cpu5: 3910398
cpu6: 3970429
cpu7: 3887820

Supported Governors:

performance
powersave

Current governors:

cpu0: performance
cpu1: performance
cpu2: performance
cpu3: performance
cpu4: performance
cpu5: performance
cpu6: performance
cpu7: performance

Verified cpus are uniform in supported frequencies and governors

Processor Model: Intel(R) Core(TM) i7-6700 CPU @ 3.40GHz
Maximum Model Frequency: 3400 MHz

```
cpufreq driver: intel_pstate
analyzing CPU 0:
  driver: intel_pstate
  CPUs which run at the same hardware frequency: 0
  CPUs which need to have their frequency coordinated by software: 0
  maximum transition latency: Cannot determine or is not supported.
  hardware limits: 800000 MHz - 4.000000 GHz
  available cpufreq governors: performance powersave
  current policy: frequency should be within 800000 MHz and 4.000000 GHz.
                   The governor "performance" may decide which speed to use
                   within this range.
  current CPU frequency: 3.862718 GHz (asserted by call to hardware)
  boost state support:
    Supported: yes
    Active: yes

analyzing CPU 1:
  driver: intel_pstate
  CPUs which run at the same hardware frequency: 1
  CPUs which need to have their frequency coordinated by software: 1
  maximum transition latency: Cannot determine or is not supported.
  hardware limits: 800000 MHz - 4.000000 GHz
  available cpufreq governors: performance powersave
  current policy: frequency should be within 800000 MHz and 4.000000 GHz.
                   The governor "performance" may decide which speed to use
                   within this range.
  current CPU frequency: 3.876398 GHz (asserted by call to hardware)
  boost state support:
    Supported: yes
    Active: yes

analyzing CPU 2:
  driver: intel_pstate
  CPUs which run at the same hardware frequency: 2
  CPUs which need to have their frequency coordinated by software: 2
  maximum transition latency: Cannot determine or is not supported.
  hardware limits: 800000 MHz - 4.000000 GHz
  available cpufreq governors: performance powersave
  current policy: frequency should be within 800000 MHz and 4.000000 GHz.
                   The governor "performance" may decide which speed to use
                   within this range.
  current CPU frequency: 3.954359 GHz (asserted by call to hardware)
  boost state support:
    Supported: yes
    Active: yes

analyzing CPU 3:
  driver: intel_pstate
  CPUs which run at the same hardware frequency: 3
  CPUs which need to have their frequency coordinated by software: 3
  maximum transition latency: Cannot determine or is not supported.
  hardware limits: 800000 MHz - 4.000000 GHz
  available cpufreq governors: performance powersave
  current policy: frequency should be within 800000 MHz and 4.000000 GHz.
                   The governor "performance" may decide which speed to use
                   within this range.
  current CPU frequency: 3.804015 GHz (asserted by call to hardware)
  boost state support:
    Supported: yes
    Active: yes

analyzing CPU 4:
  driver: intel_pstate
  CPUs which run at the same hardware frequency: 4
  CPUs which need to have their frequency coordinated by software: 4
  maximum transition latency: Cannot determine or is not supported.
  hardware limits: 800000 MHz - 4.000000 GHz
  available cpufreq governors: performance powersave
  current policy: frequency should be within 800000 MHz and 4.000000 GHz.
                   The governor "performance" may decide which speed to use
                   within this range.
  current CPU frequency: 3.944664 GHz (asserted by call to hardware)
  boost state support:
    Supported: yes
    Active: yes

analyzing CPU 5:
  driver: intel_pstate
  CPUs which run at the same hardware frequency: 5
  CPUs which need to have their frequency coordinated by software: 5
  maximum transition latency: Cannot determine or is not supported.
  hardware limits: 800000 MHz - 4.000000 GHz
  available cpufreq governors: performance powersave
  current policy: frequency should be within 800000 MHz and 4.000000 GHz.
                   The governor "performance" may decide which speed to use
                   within this range.
  current CPU frequency: 3.910398 GHz (asserted by call to hardware)
  boost state support:
```

```
Supported: yes
Active: yes

analyzing CPU 6:
driver: intel_pstate
CPUs which run at the same hardware frequency: 6
CPUs which need to have their frequency coordinated by software: 6
maximum transition latency: Cannot determine or is not supported.
hardware limits: 800000 MHz - 4.000000 GHz
available cpufreq governors: performance powersave
current policy: frequency should be within 800000 MHz and 4.000000 GHz.
                The governor "performance" may decide which speed to use
                within this range.
current CPU frequency: 3.970429 GHz (asserted by call to hardware)
boost state support:
Supported: yes
Active: yes

analyzing CPU 7:
driver: intel_pstate
CPUs which run at the same hardware frequency: 7
CPUs which need to have their frequency coordinated by software: 7
maximum transition latency: Cannot determine or is not supported.
hardware limits: 800000 MHz - 4.000000 GHz
available cpufreq governors: performance powersave
current policy: frequency should be within 800000 MHz and 4.000000 GHz.
                The governor "performance" may decide which speed to use
                within this range.
current CPU frequency: 3.904421 GHz (asserted by call to hardware)
boost state support:
Supported: yes
Active: yes

CPU: 0
-----
      min: 800000 MHz
      max: 4000 MHz
governors: performance, powersave, performance, powersave

CPU: 1
-----
      min: 800000 MHz
      max: 4000 MHz
governors: performance, powersave, performance, powersave

CPU: 2
-----
      min: 800000 MHz
      max: 4000 MHz
governors: performance, powersave, performance, powersave

CPU: 3
-----
      min: 800000 MHz
      max: 4000 MHz
governors: performance, powersave, performance, powersave

CPU: 4
-----
      min: 800000 MHz
      max: 4000 MHz
governors: performance, powersave, performance, powersave

CPU: 5
-----
      min: 800000 MHz
      max: 4000 MHz
governors: performance, powersave, performance, powersave

CPU: 6
-----
      min: 800000 MHz
      max: 4000 MHz
governors: performance, powersave, performance, powersave

CPU: 7
-----
      min: 800000 MHz
      max: 4000 MHz
governors: performance, powersave, performance, powersave

CPU Flags:
ida: Turbo Boost is supported
aperf/perf: aperf/perf is supported

Measurement Method:
/dev/cpu/0/cpuid indicates aperf/perf is supported
```

Using C sqrt load processes and aperf/mperf effective freq. measurement (aperf.c)

PASS

Testing CPU Package 0
Syncing disks
Waiting for low load...
Current load average: 0.02
Done waiting

User Space, package 0:

Note: The userspace governor is not supported
Using powersave min/max policies to get min and max performance workloads

On Min/Max Power Save Governor Test:

Setting governor to powersave
Setting cpu: 0

Error setting new values. Common errors:

- Do you have proper administration rights? (super-user?)
- Is the governor you requested available and modprobed?
- Trying to set an invalid policy?
- Trying to set a specific frequency, but userspace governor is not available, for example because of hardware which cannot be set to a specific frequency or because the userspace governor isn't loaded?

Error: can't set the governor:

"cpupower -c all frequency-set --governor powersave --min 800000000 --max 3400000" returned 234

Changing cpu frequency from 3911 to 800000 MHz

Setting cpu: 0

Error setting new values. Common errors:

- Do you have proper administration rights? (super-user?)
- Is the governor you requested available and modprobed?
- Trying to set an invalid policy?
- Trying to set a specific frequency, but userspace governor is not available, for example because of hardware which cannot be set to a specific frequency or because the userspace governor isn't loaded?

Error: can't set the governor:

"cpupower -c all frequency-set --governor powersave --min 800000000 --max 800000000" returned 237

Warning: Could not verify that cpu frequency is set to the minimum value of 800000000 KHz

Running CPU load test - for all cpus in the package

Running load test for package 0

starting process for cpu 0

using work process: ./aperf 0

starting process for cpu 1

using work process: ./aperf 1

starting process for cpu 2

using work process: ./aperf 2

starting process for cpu 3

using work process: ./aperf 3

starting process for cpu 4

using work process: ./aperf 4

starting process for cpu 5

using work process: ./aperf 5

starting process for cpu 6

using work process: ./aperf 6

starting process for cpu 7

using work process: ./aperf 7

waiting for load processes...

process for cpu 0 is done in 15.39 seconds, at 3797 MHz

process effective frequency: 3708 MHz

process for cpu 1 is done in 15.39 seconds, at 3952 MHz

process effective frequency: 3708 MHz

process for cpu 2 is done in 15.45 seconds, at 3985 MHz

process effective frequency: 3709 MHz

process for cpu 3 is done in 15.36 seconds, at 3943 MHz

process effective frequency: 3708 MHz

process for cpu 4 is done in 15.36 seconds, at 3786 MHz

process effective frequency: 3708 MHz

process for cpu 5 is done in 15.36 seconds, at 3884 MHz

process effective frequency: 3708 MHz

process for cpu 6 is done in 15.45 seconds, at 3991 MHz

process effective frequency: 3710 MHz

process for cpu 7 is done in 15.37 seconds, at 3902 MHz

process effective frequency: 3708 MHz

processes complete

average worker process time: 15.39 seconds

Running load test for package 0

starting process for cpu 0

using work process: ./aperf 0

starting process for cpu 1

using work process: ./aperf 1

starting process for cpu 2

using work process: ./aperf 2

starting process for cpu 3

```
using work process: ./aperf 3
starting process for cpu 4
using work process: ./aperf 4
starting process for cpu 5
using work process: ./aperf 5
starting process for cpu 6
using work process: ./aperf 6
starting process for cpu 7
using work process: ./aperf 7
waiting for load processes...
process for cpu 0 is done in 15.40 seconds, at 3815 MHz
process effective frequency: 3708 MHz
process for cpu 1 is done in 15.43 seconds, at 3936 MHz
process effective frequency: 3709 MHz
process for cpu 2 is done in 15.41 seconds, at 4000 MHz
process effective frequency: 3708 MHz
process for cpu 3 is done in 15.36 seconds, at 3973 MHz
process effective frequency: 3708 MHz
process for cpu 4 is done in 15.34 seconds, at 3749 MHz
process effective frequency: 3708 MHz
process for cpu 5 is done in 15.33 seconds, at 3880 MHz
process effective frequency: 3708 MHz
process for cpu 6 is done in 15.39 seconds, at 3888 MHz
process effective frequency: 3708 MHz
process for cpu 7 is done in 15.37 seconds, at 3965 MHz
process effective frequency: 3708 MHz
processes complete
average worker process time: 15.38 seconds
Minimum frequency average load test time: 15.38
Error: cpu0 in package 0 has a measured frequency of 3708 MHz vs. a requirement of 800000 MHz - 5000/+ 100 MHz
Error: cpu1 in package 0 has a measured frequency of 3709 MHz vs. a requirement of 800000 MHz - 5000/+ 100 MHz
Error: cpu2 in package 0 has a measured frequency of 3708 MHz vs. a requirement of 800000 MHz - 5000/+ 100 MHz
Error: cpu3 in package 0 has a measured frequency of 3708 MHz vs. a requirement of 800000 MHz - 5000/+ 100 MHz
Error: cpu4 in package 0 has a measured frequency of 3708 MHz vs. a requirement of 800000 MHz - 5000/+ 100 MHz
Error: cpu5 in package 0 has a measured frequency of 3708 MHz vs. a requirement of 800000 MHz - 5000/+ 100 MHz
Error: cpu6 in package 0 has a measured frequency of 3708 MHz vs. a requirement of 800000 MHz - 5000/+ 100 MHz
Error: cpu7 in package 0 has a measured frequency of 3708 MHz vs. a requirement of 800000 MHz - 5000/+ 100 MHz
Changing cpu frequency from 3913 to 3400 MHz, performance governor
Setting cpu: 0
Setting cpu: 1
Setting cpu: 2
Setting cpu: 3
Setting cpu: 4
Setting cpu: 5
Setting cpu: 6
Setting cpu: 7
Warning: Could not verify that cpu frequency 3913 MHz is set to the maximum value of 3400 MHz
Running CPU load test - for all cpus in the package
Running load test for package 0
starting process for cpu 0
using work process: ./aperf 0
starting process for cpu 1
using work process: ./aperf 1
starting process for cpu 2
using work process: ./aperf 2
starting process for cpu 3
using work process: ./aperf 3
starting process for cpu 4
using work process: ./aperf 4
starting process for cpu 5
using work process: ./aperf 5
starting process for cpu 6
using work process: ./aperf 6
starting process for cpu 7
using work process: ./aperf 7
waiting for load processes...
process for cpu 0 is done in 16.77 seconds, at 3400 MHz
process effective frequency: 3407 MHz
process for cpu 1 is done in 16.76 seconds, at 3280 MHz
process effective frequency: 3407 MHz
process for cpu 2 is done in 16.79 seconds, at 3400 MHz
process effective frequency: 3407 MHz
process for cpu 3 is done in 16.75 seconds, at 3400 MHz
process effective frequency: 3407 MHz
process for cpu 4 is done in 16.72 seconds, at 3371 MHz
process effective frequency: 3407 MHz
process for cpu 5 is done in 16.71 seconds, at 3400 MHz
process effective frequency: 3407 MHz
process for cpu 6 is done in 16.77 seconds, at 3400 MHz
process effective frequency: 3407 MHz
process for cpu 7 is done in 16.70 seconds, at 3371 MHz
process effective frequency: 3407 MHz
processes complete
average worker process time: 16.75 seconds
Running load test for package 0
starting process for cpu 0
using work process: ./aperf 0
starting process for cpu 1
```

```
using work process: ./aperf 1
starting process for cpu 2
using work process: ./aperf 2
starting process for cpu 3
using work process: ./aperf 3
starting process for cpu 4
using work process: ./aperf 4
starting process for cpu 5
using work process: ./aperf 5
starting process for cpu 6
using work process: ./aperf 6
starting process for cpu 7
using work process: ./aperf 7
waiting for load processes...
process for cpu 0 is done in 16.79 seconds, at 3400 MHz
process effective frequency: 3407 MHz
process for cpu 1 is done in 16.80 seconds, at 3400 MHz
process effective frequency: 3407 MHz
process for cpu 2 is done in 16.74 seconds, at 3400 MHz
process effective frequency: 3407 MHz
process for cpu 3 is done in 16.74 seconds, at 3400 MHz
process effective frequency: 3407 MHz
process for cpu 4 is done in 16.74 seconds, at 3400 MHz
process effective frequency: 3407 MHz
process for cpu 5 is done in 16.69 seconds, at 3400 MHz
process effective frequency: 3407 MHz
process for cpu 6 is done in 16.73 seconds, at 3382 MHz
process effective frequency: 3407 MHz
process for cpu 7 is done in 16.70 seconds, at 3400 MHz
process effective frequency: 3407 MHz
processes complete
average worker process time: 16.74 seconds
Maximum frequency average load test time: 16.74
```

```
CPU Frequency Speed Up: 0.00
CPU 0 Measured Speed Up: 0.92
Warning: measured speedup 0.92 greater than the maximum speedup of -0.49
```

```
CPU Frequency Speed Up: 0.00
CPU 1 Measured Speed Up: 0.92
Warning: measured speedup 0.92 greater than the maximum speedup of -0.49
```

```
CPU Frequency Speed Up: 0.00
CPU 2 Measured Speed Up: 0.92
Warning: measured speedup 0.92 greater than the maximum speedup of -0.49
```

```
CPU Frequency Speed Up: 0.00
CPU 3 Measured Speed Up: 0.92
Warning: measured speedup 0.92 greater than the maximum speedup of -0.49
```

```
CPU Frequency Speed Up: 0.00
CPU 4 Measured Speed Up: 0.92
Warning: measured speedup 0.92 greater than the maximum speedup of -0.49
```

```
CPU Frequency Speed Up: 0.00
CPU 5 Measured Speed Up: 0.92
Warning: measured speedup 0.92 greater than the maximum speedup of -0.49
```

```
CPU Frequency Speed Up: 0.00
CPU 6 Measured Speed Up: 0.92
Warning: measured speedup 0.92 greater than the maximum speedup of -0.49
```

```
CPU Frequency Speed Up: 0.00
CPU 7 Measured Speed Up: 0.92
Warning: measured speedup 0.92 greater than the maximum speedup of -0.49
```

FAIL

Power Save, package 0:

Single CPU Power Save Test:

```
-----
Setting governor to powersave (min: 800000 MHz, max: 3400 MHz)
Setting cpu: 0
```

Error setting new values. Common errors:

- Do you have proper administration rights? (super-user?)
- Is the governor you requested available and modprobed?
- Trying to set an invalid policy?
- Trying to set a specific frequency, but userspace governor is not available, for example because of hardware which cannot be set to a specific frequency or because the userspace governor isn't loaded?

Error: can't set the governor:

```
"cpupower -c all frequency-set --governor powersave --min 800000000 --max 3400000" returned 234
Waiting 5 seconds... done.
```

```
Using cpu 1 to test Single CPU On Demand.
Running CPU load test - for only cpu 1
Running load test for package 0
Single CPU Test: Loading only cpu1
starting process for cpu 1
using work process: ./aperf 1
waiting for load processes...
process for cpu 1 is done in 15.74 seconds, at 3373 MHz
process effective frequency: 3407 MHz
processes complete
average worker process time: 15.74 seconds
Running load test for package 0
Single CPU Test: Loading only cpu1
starting process for cpu 1
using work process: ./aperf 1
waiting for load processes...
process for cpu 1 is done in 15.74 seconds, at 3242 MHz
process effective frequency: 3407 MHz
processes complete
average worker process time: 15.74 seconds
Single CPU load test time: 15.74
Single CPU Power Save Speedup: 1.0
Warning: measured speedup 0.98 greater than the maximum speedup of -0.49
FAIL
```

Performance, package 0:

```
Performance Governor Test:
-----
Setting governor to performance
Setting cpu: 0
Setting cpu: 1
Setting cpu: 2
Setting cpu: 3
Setting cpu: 4
Setting cpu: 5
Setting cpu: 6
Setting cpu: 7
Running CPU load test - for all cpus in the package
Running load test for package 0
starting process for cpu 0
using work process: ./aperf 0
starting process for cpu 1
using work process: ./aperf 1
starting process for cpu 2
using work process: ./aperf 2
starting process for cpu 3
using work process: ./aperf 3
starting process for cpu 4
using work process: ./aperf 4
starting process for cpu 5
using work process: ./aperf 5
starting process for cpu 6
using work process: ./aperf 6
starting process for cpu 7
using work process: ./aperf 7
waiting for load processes...
process for cpu 0 is done in 16.77 seconds, at 3400 MHz
process effective frequency: 3407 MHz
process for cpu 1 is done in 16.80 seconds, at 3400 MHz
process effective frequency: 3408 MHz
process for cpu 2 is done in 16.75 seconds, at 3400 MHz
process effective frequency: 3407 MHz
process for cpu 3 is done in 16.74 seconds, at 3400 MHz
process effective frequency: 3407 MHz
process for cpu 4 is done in 16.72 seconds, at 3400 MHz
process effective frequency: 3407 MHz
process for cpu 5 is done in 16.70 seconds, at 3399 MHz
process effective frequency: 3408 MHz
process for cpu 6 is done in 16.78 seconds, at 3400 MHz
process effective frequency: 3408 MHz
process for cpu 7 is done in 16.72 seconds, at 3400 MHz
process effective frequency: 3408 MHz
processes complete
average worker process time: 16.75 seconds
Running load test for package 0
starting process for cpu 0
using work process: ./aperf 0
starting process for cpu 1
using work process: ./aperf 1
starting process for cpu 2
using work process: ./aperf 2
starting process for cpu 3
```

```

using work process: ./aperf 3
starting process for cpu 4
using work process: ./aperf 4
starting process for cpu 5
using work process: ./aperf 5
starting process for cpu 6
using work process: ./aperf 6
starting process for cpu 7
using work process: ./aperf 7
waiting for load processes...
process for cpu 0 is done in 16.71 seconds, at 3400 MHz
process effective frequency: 3407 MHz
process for cpu 1 is done in 16.86 seconds, at 3400 MHz
process effective frequency: 3408 MHz
process for cpu 2 is done in 16.72 seconds, at 3400 MHz
process effective frequency: 3407 MHz
process for cpu 3 is done in 16.74 seconds, at 3400 MHz
process effective frequency: 3408 MHz
process for cpu 4 is done in 16.70 seconds, at 3400 MHz
process effective frequency: 3407 MHz
process for cpu 5 is done in 16.78 seconds, at 3400 MHz
process effective frequency: 3408 MHz
process for cpu 6 is done in 16.73 seconds, at 3400 MHz
process effective frequency: 3407 MHz
process for cpu 7 is done in 16.74 seconds, at 3400 MHz
process effective frequency: 3408 MHz
processes complete
average worker process time: 16.75 seconds
Performance load test time: 16.75
CPU 0 Performance Speedup: 0.92
Warning: measured speedup 0.92 greater than the maximum speedup of -0.49
CPU 1 Performance Speedup: 0.92
Warning: measured speedup 0.92 greater than the maximum speedup of -0.49
CPU 2 Performance Speedup: 0.92
Warning: measured speedup 0.92 greater than the maximum speedup of -0.49
CPU 3 Performance Speedup: 0.92
Warning: measured speedup 0.92 greater than the maximum speedup of -0.49
CPU 4 Performance Speedup: 0.92
Warning: measured speedup 0.92 greater than the maximum speedup of -0.49
CPU 5 Performance Speedup: 0.91
Warning: measured speedup 0.91 greater than the maximum speedup of -0.49
CPU 6 Performance Speedup: 0.92
Warning: measured speedup 0.92 greater than the maximum speedup of -0.49
CPU 7 Performance Speedup: 0.92
Warning: measured speedup 0.92 greater than the maximum speedup of -0.49
PASS

```

```

Restoring original governor to None
Setting cpu: 0
Error setting new values. Common errors:
- Do you have proper administration rights? (super-user?)
- Is the governor you requested available and modprobed?
- Trying to set an invalid policy?
- Trying to set a specific frequency, but userspace governor is not available,
  for example because of hardware which cannot be set to a specific frequency
  or because the userspace governor isn't loaded?
Error: can't set the governor:
"cpupower -c all frequency-set --governor None" returned 237

```

Summary:

Summary for Package 0:

CPU Effective Frequency:

	User Min	User Max	Performance
expected	800000 MHz	3400 MHz	3400 MHz
cpu 0	3708 (15.40s)	3407 (16.79s)	3407 (16.71s)
cpu 1	3709 (15.43s)	3407 (16.80s)	3408 (16.86s)
cpu 2	3708 (15.41s)	3407 (16.74s)	3407 (16.72s)
cpu 3	3708 (15.36s)	3407 (16.74s)	3408 (16.74s)
cpu 4	3708 (15.34s)	3407 (16.74s)	3407 (16.70s)
cpu 5	3708 (15.33s)	3407 (16.69s)	3408 (16.78s)
cpu 6	3708 (15.39s)	3407 (16.73s)	3407 (16.73s)
cpu 7	3708 (15.37s)	3407 (16.70s)	3408 (16.74s)

CPU Workload Test:

Expected Speedup: 0.00
 Allowable Speedup: 0.50 to -0.49

Power Save


```
-----  
cpu 1    0.98 (3407 MHz)
```

Error Summary:

```
-----  
User Space (min): Error: cpu0 in package 0 has a measured frequency of 3708 MHz vs. a requirement of 800000 MHz - 5000/+ 100 MHz  
User Space (min): Error: cpu1 in package 0 has a measured frequency of 3709 MHz vs. a requirement of 800000 MHz - 5000/+ 100 MHz  
User Space (min): Error: cpu2 in package 0 has a measured frequency of 3708 MHz vs. a requirement of 800000 MHz - 5000/+ 100 MHz  
User Space (min): Error: cpu3 in package 0 has a measured frequency of 3708 MHz vs. a requirement of 800000 MHz - 5000/+ 100 MHz  
User Space (min): Error: cpu4 in package 0 has a measured frequency of 3708 MHz vs. a requirement of 800000 MHz - 5000/+ 100 MHz  
User Space (min): Error: cpu5 in package 0 has a measured frequency of 3708 MHz vs. a requirement of 800000 MHz - 5000/+ 100 MHz  
User Space (min): Error: cpu6 in package 0 has a measured frequency of 3708 MHz vs. a requirement of 800000 MHz - 5000/+ 100 MHz  
User Space (min): Error: cpu7 in package 0 has a measured frequency of 3708 MHz vs. a requirement of 800000 MHz - 5000/+ 100 MHz
```

FAIL