



# SPEC<sup>®</sup> CFP2006 Result

Copyright 2006-2016 Standard Performance Evaluation Corporation

Huawei

SPECfp<sup>®</sup>2006 = **NC**

Huawei CH220 V3 (Intel Xeon E5-2660 v4)

SPECfp\_base2006 = **NC**

CPU2006 license: 3175

Test date: May-2016

Test sponsor: Huawei

Hardware Availability: Mar-2016

Tested by: Huawei

Software Availability: Mar-2016

**SPEC has determined that this result is not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, the memory was not**  
a href="http://spec.org/cpu2006/Docs/runrules.html#rule\_1.3.2">SPEC CPU run  
up policy on <a href="https://www.spec.org/osg/policy.html#AppendixC">gener

- 410.bwaves |
- 416.gamess |
- 433.milc |
- 434.zeusmp |
- 435.gromacs |
- 436.cactusADM |
- 437.leslie3d |
- 444.namd |
- 447.dealII |
- 450.soplex |
- 453.povray |
- 454.calculix |
- 459.GemsFDTD |
- 465.tonto |
- 471.lbm |
- 481.wrf |
- 482.sphinx3 |

**Non-Compliant**



# SPEC CFP2006 Result

Copyright 2006-2016 Standard Performance Evaluation Corporation

Huawei

SPECfp2006 = **NC**

Huawei CH220 V3 (Intel Xeon E5-2660 v4)

SPECfp\_base2006 = **NC**

CPU2006 license: 3175

Test date: May-2016

Test sponsor: Huawei

Hardware Availability: Mar-2016

Tested by: Huawei

Software Availability: Mar-2016

**SPEC has determined that this result is not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, the memory was not**  
a href="http://spec.org/cpu2006/Docs/runrules.html#rule\_1.3.2">SPEC CPU run  
up policy on <a href="https://www.spec.org/osg/policy.html#AppendixC">gener

### Hardware

CPU Name: Intel Xeon E5-2660 v4  
 CPU Characteristics: Intel Turbo Boost Technology up to 2.40 GHz  
 CPU MHz: 2000  
 FPU: Integrated  
 CPU(s) enabled: 28 cores, 2 chips, 14 cores/chip  
 CPU(s) orderable: 1,2 chip  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 256 KB I+D on chip per core  
 L3 Cache: 35 MB I+D on chip per chip  
 Other Cache: None  
 Memory: 256 GB (16 x 16 GB 2Rx4 PC 2400T-  
 Disk Subsystem: 1 x 1000 GB SATA, 7200 RPM  
 Other Hardware: None

### Software

Operating System: Red Hat Enterprise Linux Server release 7.2  
 (El7) (ppc)  
 3.10.0-327.el7.x86\_64  
 Compiler: C/C++ version 16.0.0.101 of Intel C++ Studio XE  
 for Linux;  
 Fortran: Version 16.0.0.101 of Intel Fortran  
 Studio XE for Linux  
 Architecture: Parallel Yes  
 File System: ext4  
 System State: Run level 3 (multi-user)  
 Base Pointers: 64-bit  
 Peak Pointers: 32/64-bit  
 Other Software: None

**Non-Compliant**



# SPEC CFP2006 Result

Copyright 2006-2016 Standard Performance Evaluation Corporation

Huawei

SPECfp2006 = **NC**

Huawei CH220 V3 (Intel Xeon E5-2660 v4)

SPECfp\_base2006 = **NC**

CPU2006 license: 3175

Test date: May-2016

Test sponsor: Huawei

Hardware Availability: Mar-2016

Tested by: Huawei

Software Availability: Mar-2016

**SPEC has determined that this result is not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, the memory was not**  
a href="http://spec.org/cpu2006/Docs/runrules.html#rule\_1.3.2">SPEC CPU run  
up policy on <a href="https://www.spec.org/osg/policy.html#AppendixC">gener

## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
416.gamess	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
433.milc	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
434.zeusmp	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
435.gromacs	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
436.cactusADM	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
437.leslie3d	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
444.namd	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
447.dealII	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
450.soplex	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
453.povray	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
454.calculix	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
459.GemsFDTD	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
465.tonto	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
470.lbm	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
481.wrf	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
482.sphinx3	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

## Operating System Notes

each shell to unlimited using "ulimit -s unlimited"

## Platform Notes

```

BIOS configuration:
Set Power Efficiency Mode to Custom
Set Snoop Mode to HS mode
Set Patrol Scrub to Disable
Set Hyper-Threading to Disable
Sysinfo program /spec16/config/sysinfo.rev6914
$Rev: 6914 $ $Date:: 2014-06-25 #$ e3fbb8667b5a285932ceab81e28219e1
running on localhost.localdomain Tue May 10 15:32:05 2016

```

Continued on next page



# SPEC CFP2006 Result

Copyright 2006-2016 Standard Performance Evaluation Corporation

Huawei

SPECfp2006 = **NC**

Huawei CH220 V3 (Intel Xeon E5-2660 v4)

SPECfp\_base2006 = **NC**

CPU2006 license: 3175

Test date: May-2016

Test sponsor: Huawei

Hardware Availability: Mar-2016

Tested by: Huawei

Software Availability: Mar-2016

**SPEC has determined that this result is not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, the memory was not**  
a href="http://spec.org/cpu2006/Docs/runrules.html#rule\_1.3.2">SPEC CPU run  
up policy on <a href="https://www.spec.org/osg/policy.html#AppendixC">gener

## Platform Notes (Continued)

This section contains SUT (System Under Test) info as seen from some common utilities. To remove or add to this section, see: <http://www.spec.org/cpu2006/Docs/config.html#sinfo>

From /proc/cpuinfo

```
model name      : Intel(R) Xeon(R) CPU E5-2660 v4 @ 2.00GHz
 2 "physical id"s (chips)
 28 "processors"
cores, siblings (Caution: containing these is hw and system dependent. The following excerpts from /proc/cpuinfo might not be reliable. Use with caution.)
cpu cores      : 14
siblings       : 14
physical 0:    : cores 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
physical 1:    : cores 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
cache size     : 35840 KB
```

From /proc/meminfo

```
MemTotal:      263568416 kB
HugePages_Total: 0
Hugepagesize:  48 kB
```

From /etc/\*release\* /etc/\*version\*

```
os-release:
NAME="Red Hat Enterprise Linux Server"
VERSION="7.2 (Maipo)"
ID="rhel"
ID_LIKE="fedora"
VERSION_ID="7.2"
PRETTY_NAME="Red Hat Enterprise Linux Server 7.2 (Maipo)"
ANSI_COLOR="0;31"
CPE_NAME="cpe:/o:redhat:enterprise_linux:7.2:GA:server"
redhat-release: Red Hat Enterprise Linux Server release 7.2 (Maipo)
system-release: Red Hat Enterprise Linux Server release 7.2 (Maipo)
system-release-cpe: cpe:/o:redhat:enterprise_linux:7.2:ga:server
```

uname -a:

```
Linux localhost.localdomain 3.10.0-327.el7.x86_64 #1 SMP Thu Oct 29 17:29:29 EDT 2015 x86_64 x86_64 x86_64 GNU/Linux
```

run-level 3 May 10 14:48

SPEC is set to: /spec16

Continued on next page



# SPEC CFP2006 Result

Copyright 2006-2016 Standard Performance Evaluation Corporation

Huawei

SPECfp2006 =

Huawei CH220 V3 (Intel Xeon E5-2660 v4)

SPECfp\_base2006 =

CPU2006 license: 3175

Test sponsor: Huawei

Tested by: Huawei

Test date: May-2016

Hardware Availability: Mar-2016

Software Availability: Mar-2016

**SPEC has determined that this result is not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, the memory was not**  
**up policy on** [http://spec.org/cpu2006/Docs/runrules.html#rule\\_1.3.2](http://spec.org/cpu2006/Docs/runrules.html#rule_1.3.2) **SPEC CPU run**  
**up policy on** <https://www.spec.org/osg/policy.html#AppendixC> **gener**

## Platform Notes (Continued)

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/sda2	ext4	850G	12G	795G	2%	

Additional information from dmidecode:

Warning: Use caution when you interpret this section. The 'dmidecode' program reads system data which is "intended to allow hardware to be accurately determined", but the intent may not be met, as there are frequent changes to hardware, firmware, and the "DMTF SMBIOS" standard.

BIOS Insyde Corp. 3.09 02/22/2016

Memory:

8x Samsung M393A2G40EB1 CRC 16 GB 1 rank 2400 MHz

8x Samsung M393A2G40EB1 CRC 16 GB 2 rank 2400 MHz

(End of data from sysinfo program)

## General Notes

Environment variables set by runspec before the start of the run:

KMP\_AFFINITY = "granularity=fine,compact,1,0"

LD\_LIBRARY\_PATH = "/spec16/libs/32:/spec16/libs/64:/spec16/sh"

OMP\_NUM\_THREADS = "18"

Binaries compiled on system with 1x Intel Core i5-4670K CPU + 32GB memory using Red Hat EL 7.1

Transparent Huge Pages enabled with:

echo always /sys/kernel/mm/transparent\_hugepage/enabled

runspec command invoked through numactl i.e.:

numactl -intel --mcp=0 --mcp=1 --mcp=2 --mcp=3 --mcp=4 --mcp=5 --mcp=6 --mcp=7 --mcp=8 --mcp=9 --mcp=10 --mcp=11 --mcp=12 --mcp=13 --mcp=14 --mcp=15 --mcp=16 --mcp=17 --mcp=18 --mcp=19 --mcp=20 --mcp=21 --mcp=22 --mcp=23 --mcp=24 --mcp=25 --mcp=26 --mcp=27 --mcp=28 --mcp=29 --mcp=30 --mcp=31 --mcp=32 --mcp=33 --mcp=34 --mcp=35 --mcp=36 --mcp=37 --mcp=38 --mcp=39 --mcp=40 --mcp=41 --mcp=42 --mcp=43 --mcp=44 --mcp=45 --mcp=46 --mcp=47 --mcp=48 --mcp=49 --mcp=50 --mcp=51 --mcp=52 --mcp=53 --mcp=54 --mcp=55 --mcp=56 --mcp=57 --mcp=58 --mcp=59 --mcp=60 --mcp=61 --mcp=62 --mcp=63 --mcp=64 --mcp=65 --mcp=66 --mcp=67 --mcp=68 --mcp=69 --mcp=70 --mcp=71 --mcp=72 --mcp=73 --mcp=74 --mcp=75 --mcp=76 --mcp=77 --mcp=78 --mcp=79 --mcp=80 --mcp=81 --mcp=82 --mcp=83 --mcp=84 --mcp=85 --mcp=86 --mcp=87 --mcp=88 --mcp=89 --mcp=90 --mcp=91 --mcp=92 --mcp=93 --mcp=94 --mcp=95 --mcp=96 --mcp=97 --mcp=98 --mcp=99 --mcp=100 --mcp=101 --mcp=102 --mcp=103 --mcp=104 --mcp=105 --mcp=106 --mcp=107 --mcp=108 --mcp=109 --mcp=110 --mcp=111 --mcp=112 --mcp=113 --mcp=114 --mcp=115 --mcp=116 --mcp=117 --mcp=118 --mcp=119 --mcp=120 --mcp=121 --mcp=122 --mcp=123 --mcp=124 --mcp=125 --mcp=126 --mcp=127 --mcp=128 --mcp=129 --mcp=130 --mcp=131 --mcp=132 --mcp=133 --mcp=134 --mcp=135 --mcp=136 --mcp=137 --mcp=138 --mcp=139 --mcp=140 --mcp=141 --mcp=142 --mcp=143 --mcp=144 --mcp=145 --mcp=146 --mcp=147 --mcp=148 --mcp=149 --mcp=150 --mcp=151 --mcp=152 --mcp=153 --mcp=154 --mcp=155 --mcp=156 --mcp=157 --mcp=158 --mcp=159 --mcp=160 --mcp=161 --mcp=162 --mcp=163 --mcp=164 --mcp=165 --mcp=166 --mcp=167 --mcp=168 --mcp=169 --mcp=170 --mcp=171 --mcp=172 --mcp=173 --mcp=174 --mcp=175 --mcp=176 --mcp=177 --mcp=178 --mcp=179 --mcp=180 --mcp=181 --mcp=182 --mcp=183 --mcp=184 --mcp=185 --mcp=186 --mcp=187 --mcp=188 --mcp=189 --mcp=190 --mcp=191 --mcp=192 --mcp=193 --mcp=194 --mcp=195 --mcp=196 --mcp=197 --mcp=198 --mcp=199 --mcp=200 --mcp=201 --mcp=202 --mcp=203 --mcp=204 --mcp=205 --mcp=206 --mcp=207 --mcp=208 --mcp=209 --mcp=210 --mcp=211 --mcp=212 --mcp=213 --mcp=214 --mcp=215 --mcp=216 --mcp=217 --mcp=218 --mcp=219 --mcp=220 --mcp=221 --mcp=222 --mcp=223 --mcp=224 --mcp=225 --mcp=226 --mcp=227 --mcp=228 --mcp=229 --mcp=230 --mcp=231 --mcp=232 --mcp=233 --mcp=234 --mcp=235 --mcp=236 --mcp=237 --mcp=238 --mcp=239 --mcp=240 --mcp=241 --mcp=242 --mcp=243 --mcp=244 --mcp=245 --mcp=246 --mcp=247 --mcp=248 --mcp=249 --mcp=250 --mcp=251 --mcp=252 --mcp=253 --mcp=254 --mcp=255 --mcp=256 --mcp=257 --mcp=258 --mcp=259 --mcp=260 --mcp=261 --mcp=262 --mcp=263 --mcp=264 --mcp=265 --mcp=266 --mcp=267 --mcp=268 --mcp=269 --mcp=270 --mcp=271 --mcp=272 --mcp=273 --mcp=274 --mcp=275 --mcp=276 --mcp=277 --mcp=278 --mcp=279 --mcp=280 --mcp=281 --mcp=282 --mcp=283 --mcp=284 --mcp=285 --mcp=286 --mcp=287 --mcp=288 --mcp=289 --mcp=290 --mcp=291 --mcp=292 --mcp=293 --mcp=294 --mcp=295 --mcp=296 --mcp=297 --mcp=298 --mcp=299 --mcp=300 --mcp=301 --mcp=302 --mcp=303 --mcp=304 --mcp=305 --mcp=306 --mcp=307 --mcp=308 --mcp=309 --mcp=310 --mcp=311 --mcp=312 --mcp=313 --mcp=314 --mcp=315 --mcp=316 --mcp=317 --mcp=318 --mcp=319 --mcp=320 --mcp=321 --mcp=322 --mcp=323 --mcp=324 --mcp=325 --mcp=326 --mcp=327 --mcp=328 --mcp=329 --mcp=330 --mcp=331 --mcp=332 --mcp=333 --mcp=334 --mcp=335 --mcp=336 --mcp=337 --mcp=338 --mcp=339 --mcp=340 --mcp=341 --mcp=342 --mcp=343 --mcp=344 --mcp=345 --mcp=346 --mcp=347 --mcp=348 --mcp=349 --mcp=350 --mcp=351 --mcp=352 --mcp=353 --mcp=354 --mcp=355 --mcp=356 --mcp=357 --mcp=358 --mcp=359 --mcp=360 --mcp=361 --mcp=362 --mcp=363 --mcp=364 --mcp=365 --mcp=366 --mcp=367 --mcp=368 --mcp=369 --mcp=370 --mcp=371 --mcp=372 --mcp=373 --mcp=374 --mcp=375 --mcp=376 --mcp=377 --mcp=378 --mcp=379 --mcp=380 --mcp=381 --mcp=382 --mcp=383 --mcp=384 --mcp=385 --mcp=386 --mcp=387 --mcp=388 --mcp=389 --mcp=390 --mcp=391 --mcp=392 --mcp=393 --mcp=394 --mcp=395 --mcp=396 --mcp=397 --mcp=398 --mcp=399 --mcp=400 --mcp=401 --mcp=402 --mcp=403 --mcp=404 --mcp=405 --mcp=406 --mcp=407 --mcp=408 --mcp=409 --mcp=410 --mcp=411 --mcp=412 --mcp=413 --mcp=414 --mcp=415 --mcp=416 --mcp=417 --mcp=418 --mcp=419 --mcp=420 --mcp=421 --mcp=422 --mcp=423 --mcp=424 --mcp=425 --mcp=426 --mcp=427 --mcp=428 --mcp=429 --mcp=430 --mcp=431 --mcp=432 --mcp=433 --mcp=434 --mcp=435 --mcp=436 --mcp=437 --mcp=438 --mcp=439 --mcp=440 --mcp=441 --mcp=442 --mcp=443 --mcp=444 --mcp=445 --mcp=446 --mcp=447 --mcp=448 --mcp=449 --mcp=450 --mcp=451 --mcp=452 --mcp=453 --mcp=454 --mcp=455 --mcp=456 --mcp=457 --mcp=458 --mcp=459 --mcp=460 --mcp=461 --mcp=462 --mcp=463 --mcp=464 --mcp=465 --mcp=466 --mcp=467 --mcp=468 --mcp=469 --mcp=470 --mcp=471 --mcp=472 --mcp=473 --mcp=474 --mcp=475 --mcp=476 --mcp=477 --mcp=478 --mcp=479 --mcp=480 --mcp=481 --mcp=482 --mcp=483 --mcp=484 --mcp=485 --mcp=486 --mcp=487 --mcp=488 --mcp=489 --mcp=490 --mcp=491 --mcp=492 --mcp=493 --mcp=494 --mcp=495 --mcp=496 --mcp=497 --mcp=498 --mcp=499 --mcp=500 --mcp=501 --mcp=502 --mcp=503 --mcp=504 --mcp=505 --mcp=506 --mcp=507 --mcp=508 --mcp=509 --mcp=510 --mcp=511 --mcp=512 --mcp=513 --mcp=514 --mcp=515 --mcp=516 --mcp=517 --mcp=518 --mcp=519 --mcp=520 --mcp=521 --mcp=522 --mcp=523 --mcp=524 --mcp=525 --mcp=526 --mcp=527 --mcp=528 --mcp=529 --mcp=530 --mcp=531 --mcp=532 --mcp=533 --mcp=534 --mcp=535 --mcp=536 --mcp=537 --mcp=538 --mcp=539 --mcp=540 --mcp=541 --mcp=542 --mcp=543 --mcp=544 --mcp=545 --mcp=546 --mcp=547 --mcp=548 --mcp=549 --mcp=550 --mcp=551 --mcp=552 --mcp=553 --mcp=554 --mcp=555 --mcp=556 --mcp=557 --mcp=558 --mcp=559 --mcp=560 --mcp=561 --mcp=562 --mcp=563 --mcp=564 --mcp=565 --mcp=566 --mcp=567 --mcp=568 --mcp=569 --mcp=570 --mcp=571 --mcp=572 --mcp=573 --mcp=574 --mcp=575 --mcp=576 --mcp=577 --mcp=578 --mcp=579 --mcp=580 --mcp=581 --mcp=582 --mcp=583 --mcp=584 --mcp=585 --mcp=586 --mcp=587 --mcp=588 --mcp=589 --mcp=590 --mcp=591 --mcp=592 --mcp=593 --mcp=594 --mcp=595 --mcp=596 --mcp=597 --mcp=598 --mcp=599 --mcp=600 --mcp=601 --mcp=602 --mcp=603 --mcp=604 --mcp=605 --mcp=606 --mcp=607 --mcp=608 --mcp=609 --mcp=610 --mcp=611 --mcp=612 --mcp=613 --mcp=614 --mcp=615 --mcp=616 --mcp=617 --mcp=618 --mcp=619 --mcp=620 --mcp=621 --mcp=622 --mcp=623 --mcp=624 --mcp=625 --mcp=626 --mcp=627 --mcp=628 --mcp=629 --mcp=630 --mcp=631 --mcp=632 --mcp=633 --mcp=634 --mcp=635 --mcp=636 --mcp=637 --mcp=638 --mcp=639 --mcp=640 --mcp=641 --mcp=642 --mcp=643 --mcp=644 --mcp=645 --mcp=646 --mcp=647 --mcp=648 --mcp=649 --mcp=650 --mcp=651 --mcp=652 --mcp=653 --mcp=654 --mcp=655 --mcp=656 --mcp=657 --mcp=658 --mcp=659 --mcp=660 --mcp=661 --mcp=662 --mcp=663 --mcp=664 --mcp=665 --mcp=666 --mcp=667 --mcp=668 --mcp=669 --mcp=670 --mcp=671 --mcp=672 --mcp=673 --mcp=674 --mcp=675 --mcp=676 --mcp=677 --mcp=678 --mcp=679 --mcp=680 --mcp=681 --mcp=682 --mcp=683 --mcp=684 --mcp=685 --mcp=686 --mcp=687 --mcp=688 --mcp=689 --mcp=690 --mcp=691 --mcp=692 --mcp=693 --mcp=694 --mcp=695 --mcp=696 --mcp=697 --mcp=698 --mcp=699 --mcp=700 --mcp=701 --mcp=702 --mcp=703 --mcp=704 --mcp=705 --mcp=706 --mcp=707 --mcp=708 --mcp=709 --mcp=710 --mcp=711 --mcp=712 --mcp=713 --mcp=714 --mcp=715 --mcp=716 --mcp=717 --mcp=718 --mcp=719 --mcp=720 --mcp=721 --mcp=722 --mcp=723 --mcp=724 --mcp=725 --mcp=726 --mcp=727 --mcp=728 --mcp=729 --mcp=730 --mcp=731 --mcp=732 --mcp=733 --mcp=734 --mcp=735 --mcp=736 --mcp=737 --mcp=738 --mcp=739 --mcp=740 --mcp=741 --mcp=742 --mcp=743 --mcp=744 --mcp=745 --mcp=746 --mcp=747 --mcp=748 --mcp=749 --mcp=750 --mcp=751 --mcp=752 --mcp=753 --mcp=754 --mcp=755 --mcp=756 --mcp=757 --mcp=758 --mcp=759 --mcp=760 --mcp=761 --mcp=762 --mcp=763 --mcp=764 --mcp=765 --mcp=766 --mcp=767 --mcp=768 --mcp=769 --mcp=770 --mcp=771 --mcp=772 --mcp=773 --mcp=774 --mcp=775 --mcp=776 --mcp=777 --mcp=778 --mcp=779 --mcp=780 --mcp=781 --mcp=782 --mcp=783 --mcp=784 --mcp=785 --mcp=786 --mcp=787 --mcp=788 --mcp=789 --mcp=790 --mcp=791 --mcp=792 --mcp=793 --mcp=794 --mcp=795 --mcp=796 --mcp=797 --mcp=798 --mcp=799 --mcp=800 --mcp=801 --mcp=802 --mcp=803 --mcp=804 --mcp=805 --mcp=806 --mcp=807 --mcp=808 --mcp=809 --mcp=810 --mcp=811 --mcp=812 --mcp=813 --mcp=814 --mcp=815 --mcp=816 --mcp=817 --mcp=818 --mcp=819 --mcp=820 --mcp=821 --mcp=822 --mcp=823 --mcp=824 --mcp=825 --mcp=826 --mcp=827 --mcp=828 --mcp=829 --mcp=830 --mcp=831 --mcp=832 --mcp=833 --mcp=834 --mcp=835 --mcp=836 --mcp=837 --mcp=838 --mcp=839 --mcp=840 --mcp=841 --mcp=842 --mcp=843 --mcp=844 --mcp=845 --mcp=846 --mcp=847 --mcp=848 --mcp=849 --mcp=850 --mcp=851 --mcp=852 --mcp=853 --mcp=854 --mcp=855 --mcp=856 --mcp=857 --mcp=858 --mcp=859 --mcp=860 --mcp=861 --mcp=862 --mcp=863 --mcp=864 --mcp=865 --mcp=866 --mcp=867 --mcp=868 --mcp=869 --mcp=870 --mcp=871 --mcp=872 --mcp=873 --mcp=874 --mcp=875 --mcp=876 --mcp=877 --mcp=878 --mcp=879 --mcp=880 --mcp=881 --mcp=882 --mcp=883 --mcp=884 --mcp=885 --mcp=886 --mcp=887 --mcp=888 --mcp=889 --mcp=890 --mcp=891 --mcp=892 --mcp=893 --mcp=894 --mcp=895 --mcp=896 --mcp=897 --mcp=898 --mcp=899 --mcp=900 --mcp=901 --mcp=902 --mcp=903 --mcp=904 --mcp=905 --mcp=906 --mcp=907 --mcp=908 --mcp=909 --mcp=910 --mcp=911 --mcp=912 --mcp=913 --mcp=914 --mcp=915 --mcp=916 --mcp=917 --mcp=918 --mcp=919 --mcp=920 --mcp=921 --mcp=922 --mcp=923 --mcp=924 --mcp=925 --mcp=926 --mcp=927 --mcp=928 --mcp=929 --mcp=930 --mcp=931 --mcp=932 --mcp=933 --mcp=934 --mcp=935 --mcp=936 --mcp=937 --mcp=938 --mcp=939 --mcp=940 --mcp=941 --mcp=942 --mcp=943 --mcp=944 --mcp=945 --mcp=946 --mcp=947 --mcp=948 --mcp=949 --mcp=950 --mcp=951 --mcp=952 --mcp=953 --mcp=954 --mcp=955 --mcp=956 --mcp=957 --mcp=958 --mcp=959 --mcp=960 --mcp=961 --mcp=962 --mcp=963 --mcp=964 --mcp=965 --mcp=966 --mcp=967 --mcp=968 --mcp=969 --mcp=970 --mcp=971 --mcp=972 --mcp=973 --mcp=974 --mcp=975 --mcp=976 --mcp=977 --mcp=978 --mcp=979 --mcp=980 --mcp=981 --mcp=982 --mcp=983 --mcp=984 --mcp=985 --mcp=986 --mcp=987 --mcp=988 --mcp=989 --mcp=990 --mcp=991 --mcp=992 --mcp=993 --mcp=994 --mcp=995 --mcp=996 --mcp=997 --mcp=998 --mcp=999 --mcp=1000

## Base Compiler Invocation

C benchmarks:

icc -m64

C++ benchmarks:

icpc -m64

Fortran benchmarks:

ifort -m64

Continued on next page



# SPEC CFP2006 Result

Copyright 2006-2016 Standard Performance Evaluation Corporation

Huawei

SPECfp2006 =

Huawei CH220 V3 (Intel Xeon E5-2660 v4)

SPECfp\_base2006 =

CPU2006 license: 3175

Test date: May-2016

Test sponsor: Huawei

Hardware Availability: Mar-2016

Tested by: Huawei

Software Availability: Mar-2016

SPEC has determined that this result is not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, the memory was not [http://spec.org/cpu2006/Docs/runrules.html#rule\\_1.3.2](http://spec.org/cpu2006/Docs/runrules.html#rule_1.3.2) SPEC CPU run up policy on <https://www.spec.org/osg/policy.html#AppendixC> gener

## Base Compiler Invocation (Continued)

Benchmarks using both Fortran and C:  
icc -m64 ifort -m64

## Base Portability Flags

410.bwaves: -DSPEC\_CPU\_LP64  
416.gamess: -DSPEC\_CPU\_LP64  
433.milc: -DSPEC\_CPU\_LP64  
434.zeusmp: -DSPEC\_CPU\_LP64  
435.gromacs: -DSPEC\_CPU\_LP64 -nofor\_main  
436.cactusADM: -DSPEC\_CPU\_LP64 -nofor\_main  
437.leslie3d: -DSPEC\_CPU\_LP64  
444.namd: -DSPEC\_CPU\_LP64  
447.dealII: -DSPEC\_CPU\_LP64  
450.soplex: -DSPEC\_CPU\_LP64  
453.povray: -DSPEC\_CPU\_LP64  
454.calculix: -DSPEC\_CPU\_LP64 -nofor\_main  
459.GemsFDTD: -DSPEC\_CPU\_LP64  
465.tonto: -DSPEC\_CPU\_LP64  
470.lbm: -DSPEC\_CPU\_LP64  
481.wrf: -DSPEC\_CPU\_LP64 -DSPEC\_CPU\_CASE\_FLAG -DSPEC\_CPU\_LINUX  
482.sphinx3: -DSPEC\_CPU\_LP64

## Base Optimization Flags

C benchmarks:  
-xCORE-AVX2 -ipo -O3 -no-prec-div -parallel -opt-prefetch  
-ansi-alias  
C++ benchmarks:  
-xCORE-AVX2 -ipo -O3 -no-prec-div -opt-prefetch -ansi-alias  
Fortran benchmarks:  
-xCORE-AVX2 -ipo -O3 -no-prec-div -parallel -opt-prefetch  
Benchmarks using both Fortran and C:  
-xCORE-AVX2 -ipo -O3 -no-prec-div -parallel -opt-prefetch  
-ansi-alias



# SPEC CFP2006 Result

Copyright 2006-2016 Standard Performance Evaluation Corporation

Huawei

SPECfp2006 = **NC**

Huawei CH220 V3 (Intel Xeon E5-2660 v4)

SPECfp\_base2006 = **NC**

CPU2006 license: 3175

Test date: May-2016

Test sponsor: Huawei

Hardware Availability: Mar-2016

Tested by: Huawei

Software Availability: Mar-2016

SPEC has determined that this result is not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, the memory was not [http://spec.org/cpu2006/Docs/runrules.html#rule\\_1.3.2](http://spec.org/cpu2006/Docs/runrules.html#rule_1.3.2) SPEC CPU run up policy on <https://www.spec.org/osg/policy.html#AppendixC> gener

## Peak Compiler Invocation

C benchmarks:  
icc -m64

C++ benchmarks:  
icpc -m64

Fortran benchmarks:  
ifort -m64

Benchmarks using both Fortran and C:  
icc -m64 ifort -m64

## Peak Portability Flags

Same as Base Portability Flags

## Peak Optimization Flags

C benchmarks:

433.milc: basepeak = yes

470.lbm: basepeak = yes

482.splix3: basepeak = yes

C++ benchmarks:

444.namd: -xCORE-AVX2(pass 2) -prof-gen:threadsafe(pass 1)  
-ipo(pass 2) -O3(pass 2) -no-prec-div(pass 2)  
-par-num-threads=1(pass 1) -prof-use(pass 2) -fno-alias  
-auto-ilp32

447.dealII: basepeak = yes

450.soplex: basepeak = yes

453.povray: -xCORE-AVX2(pass 2) -prof-gen:threadsafe(pass 1)  
-ipo(pass 2) -O3(pass 2) -no-prec-div(pass 2)  
-par-num-threads=1(pass 1) -prof-use(pass 2) -unroll4  
Continued on next page





# SPEC CFP2006 Result

Copyright 2006-2016 Standard Performance Evaluation Corporation

Huawei

SPECfp2006 = **NC**

Huawei CH220 V3 (Intel Xeon E5-2660 v4)

SPECfp\_base2006 = **NC**

CPU2006 license: 3175

Test date: May-2016

Test sponsor: Huawei

Hardware Availability: Mar-2016

Tested by: Huawei

Software Availability: Mar-2016

SPEC has determined that this result is not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, the memory was not [http://spec.org/cpu2006/Docs/runrules.html#rule\\_1.3.2](http://spec.org/cpu2006/Docs/runrules.html#rule_1.3.2) SPEC CPU run up policy on <https://www.spec.org/osg/policy.html#AppendixC> gener

## Peak Optimization Flags (Continued)

453.povray (continued):  
-ansi-alias

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: -xCORE-AVX2(pass 2) -prof-gen:threadsafe(pass 1)  
-ipo(pass 2) -O3(pass 2) -no-prec-div(pass 2)  
-par-num-threads=1(pass 1) -prof-use(pass 2) -unroll2  
-inline-level=0 -scalar-r

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: -xCORE-AVX2(pass 2) -prof-gen:threadsafe(pass 1)  
-ipo(pass 2) -O3(pass 2) -no-prec-div(pass 2)  
-par-num-threads=1(pass 1) -prof-use(pass 2) -unroll2  
-inline-level=0 -opt-prefetch -parallel

465.tonto: -xCORE-AVX2(pass 2) -prof-gen:threadsafe(pass 1)  
-ipo(pass 2) -O3(pass 2) -no-prec-div(pass 2)  
-par-num-threads=1(pass 1) -prof-use(pass 2) -inline-alloc  
-opt-alloc-options=3 -auto -unroll4

Benchmarks using both Fortran and C:

435.gromacs: basepeak = yes

436.gromacs-ADM: basepeak = yes

454.calculix: -xCORE-AVX2 -ipo -O3 -no-prec-div -auto-ilp32 -ansi-alias

481.wrf: basepeak = yes

The flags files that were used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic16.0-official-linux64.html>

<http://www.spec.org/cpu2006/flags/Huawei-Platform-Settings-BDW-V1.0.html>





# SPEC CFP2006 Result

Copyright 2006-2016 Standard Performance Evaluation Corporation

Huawei

SPECfp2006 = **NC**

Huawei CH220 V3 (Intel Xeon E5-2660 v4)

SPECfp\_base2006 = **NC**

CPU2006 license: 3175

Test date: May-2016

Test sponsor: Huawei

Hardware Availability: Mar-2016

Tested by: Huawei

Software Availability: Mar-2016

**SPEC has determined that this result is not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, the memory was not**  
a href="http://spec.org/cpu2006/Docs/runrules.html#rule\_1.3.2">SPEC CPU run  
up policy on <a href="https://www.spec.org/osg/policy.html#AppendixC">gener

You can also download the XML flags sources by saving the following links:

<http://www.spec.org/cpu2006/flags/Intel-ic16.0-official-linux64.xml>

<http://www.spec.org/cpu2006/flags/Huawei-Platform-Settings-BDW-V1.0.xml>

**Non-Compliant**

SPEC and SPECfp are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

Tested with SPEC CPU2006 v1.2.  
Report generated on Fri Oct 21 17:36:09 2016 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 26 July 2016.