

SPEC[®] CINT2006 Result

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Phytium

(Test Sponsor: guee)

D2000 @ 2.3GHz

SPECint[®]2006 = 15.7

SPECint_base2006 = 15.2

CPU2006 license:

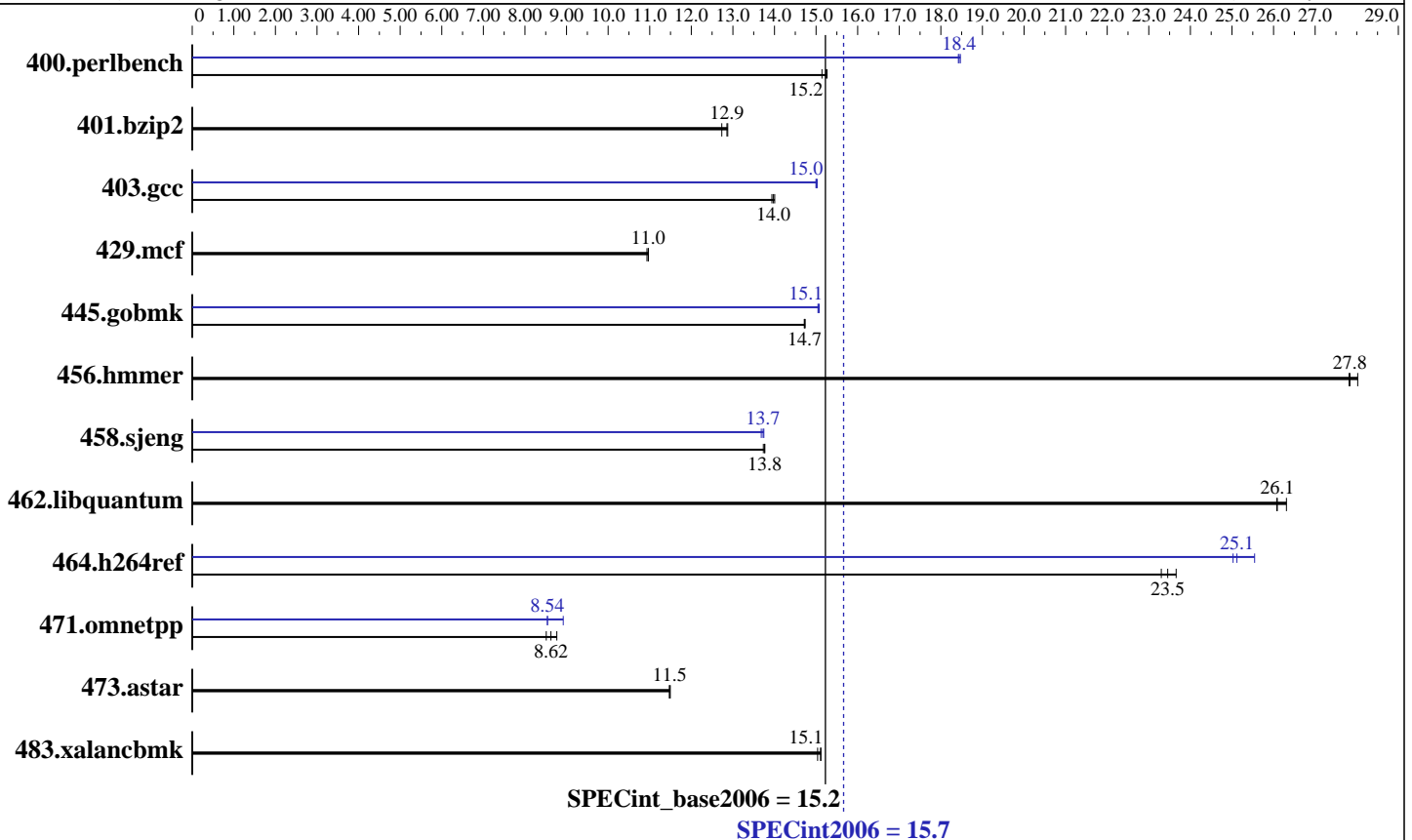
Test sponsor: guee

Tested by: guee

Test date: Aug-2021

Hardware Availability: Mar-2021

Software Availability: July-2021



Hardware

CPU Name: Phytium,D2000/8
CPU Characteristics: D2000 @ 2.3GHz
CPU MHz: 2300
FPU: Integrated
CPU(s) enabled: 8 cores, could not determine chips, 8 cores/chip
CPU(s) orderable: 1
Primary Cache: Unknow
Secondary Cache: 4 MB I+D on 8 cores per chip
L3 Cache: 4 MB I+D on chip per chip
Other Cache: None
Memory: 16 GB (2 x 8 GB DDR4-2666)
15.571 GB fixme: If using DDR3, format is:
'N GB (M x N GB nRxn PCn-nnnnnR-n, ECC)'
Disk Subsystem: 251 GB add more disk info here
Other Hardware: None

Software

Operating System: Kylin V10 SP1
5.4.18-35-generic
Compiler: gcc/g++ (Uos 8.3.0.7-1+dde) 8.3
Auto Parallel: No
File System: ext4
System State: Run level 5 (add definition here)
Base Pointers: 64-bit
Peak Pointers: 64-bit
Other Software: --

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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	645	15.1	640	15.3	641	15.2	530	18.4	529	18.5	530	18.4
401.bzip2	751	12.9	758	12.7	749	12.9	751	12.9	758	12.7	749	12.9
403.gcc	575	14.0	576	14.0	578	13.9	536	15.0	537	15.0	536	15.0
429.mcf	834	10.9	832	11.0	832	11.0	834	10.9	832	11.0	832	11.0
445.gobmk	712	14.7	712	14.7	713	14.7	696	15.1	697	15.0	697	15.1
456.hammer	335	27.8	333	28.0	335	27.8	335	27.8	333	28.0	335	27.8
458.sjeng	881	13.7	879	13.8	879	13.8	882	13.7	884	13.7	880	13.7
462.libquantum	788	26.3	794	26.1	795	26.1	788	26.3	794	26.1	795	26.1
464.h264ref	944	23.5	950	23.3	935	23.7	881	25.1	884	25.0	866	25.5
471.omnetpp	734	8.51	713	8.77	725	8.62	701	8.92	732	8.54	732	8.54
473.astar	612	11.5	612	11.5	611	11.5	612	11.5	612	11.5	611	11.5
483.xalancbmk	457	15.1	459	15.0	456	15.1	457	15.1	459	15.0	456	15.1

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

Platform Notes

```
Sysinfo program /home/guee/cpu2006/Docs/sysinfo
$Rev: 6775 $ $Date:: 2011-08-16 #$ 8787f7622badcf24e01c368b1db4377c
running on d2000 Tue Aug 24 02:42:13 2021
```

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

```
From /proc/cpuinfo
  model name : Phytium,D2000/8
*
* 0 "physical id" tags found. Perhaps this is an older system,
* or a virtualized system. Not attempting to guess how to
* count chips/cores for this system.
*
  8 "processors"
  cores, siblings (Caution: counting these is hw and system dependent. The
  following excerpts from /proc/cpuinfo might not be reliable. Use with
  caution.)
```

```
From /proc/meminfo
  MemTotal:      16327564 kB
  HugePages_Total:      0
  Hugepagesize:    2048 kB
```

```
/usr/bin/lsb_release -d
  Kylin V10 SP1
```

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Platform Notes (Continued)

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

debian_version: bullseye/sid

os-release:

NAME="Kylin"

VERSION="é"ŕæ²³é°'é°ÿæ;Œé•çæ"•ä½œç³»ç»ÿV10 (SP1)"

VERSION_US="Kylin Linux Desktop V10 (SP1)"

ID=kylin

ID_LIKE=debian

PRETTY_NAME="Kylin V10 SP1"

VERSION_ID="v10"

HOME_URL="http://www.kylinos.cn/"

uname -a:

Linux d2000 5.4.18-35-generic #21-KYLINOS SMP Tue Jul 20 13:31:32 UTC 2021
aarch64 aarch64 aarch64 GNU/Linux

run-level 5 Aug 24 02:41

SPEC is set to: /home/guee/cpu2006

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/nvme0nlp2	ext4	251G	22G	218G	9%	/

(End of data from sysinfo program)

Base Compiler Invocation

C benchmarks:

gcc

C++ benchmarks:

g++

Base Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64 -std=gnu89
-fno-strict-aliasing(*)
401.bzip2: -DSPEC_CPU_LP64
403.gcc: -DSPEC_CPU_LP64
429.mcf: -DSPEC_CPU_LP64
445.gobmk: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
464.h264ref: -DSPEC_CPU_LP64 -fsigned-char
471.omnetpp: -DSPEC_CPU_LP64
473.astar: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX -include cstdlib
-include cstring -include ctime

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Base Portability Flags (Continued)

483.xalancbmk (continued):

(*) Indicates a portability flag that was found in a non-portability variable.

Base Optimization Flags

C benchmarks:

-O3 -ffast-math -fomit-frame-pointer -finline-functions
-ftree-vectorize -flto -march=armv8.1-a+crc+fp+crypto -funroll-loops
-fprefetch-loop-arrays -faggressive-loop-optimizations -static

C++ benchmarks:

-O3 -ffast-math -fomit-frame-pointer -finline-functions
-ftree-vectorize -flto -march=armv8.1-a+crc+fp+crypto -funroll-loops
-fprefetch-loop-arrays -faggressive-loop-optimizations -static

Peak Compiler Invocation

C benchmarks:

gcc

C++ benchmarks:

g++

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64 -std=gnu89
-fno-strict-aliasing(*)
401.bzip2: -DSPEC_CPU_LP64
403.gcc: -DSPEC_CPU_LP64
429.mcf: -DSPEC_CPU_LP64
445.gobmk: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
464.h264ref: -DSPEC_CPU_LP64 -fsigned-char
471.omnetpp: -fno-aggressive-loop-optimizations(*) -DSPEC_CPU_LP64
473.astar: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX -include cstdlib
-include cstring -include ctime

(*) Indicates a portability flag that was found in a non-portability variable.

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Peak Optimization Flags

C benchmarks:

400.perlbench: -fprofile-generate(pass 1) -fprofile-use(pass 2) -static
-O3 -march=armv8.1-a+crc+fp+crypto -fno-fast-math
-fno-unroll-loops -fomit-frame-pointer -flto
-fno-tree-slp-vectorize -fno-prefetch-loop-arrays
-finline-functions -fno-loop-parallelize-all

401.bzip2: basepeak = yes

403.gcc: -fprofile-generate(pass 1) -fprofile-use(pass 2) -static
-O3 -march=armv8.1-a+crc+fp+crypto -fno-fast-math
-funroll-loops -fomit-frame-pointer -flto
-fno-tree-vectorize -ftree-slp-vectorize -finline-functions
-fno-loop-parallelize-all --param
max-inline-recursive-depth=0

429.mcf: basepeak = yes

445.gobmk: -fprofile-generate(pass 1) -fprofile-use(pass 2) -O3
-march=armv8.1-a+crc+fp+crypto -fno-fast-math
-fno-unroll-loops -fomit-frame-pointer -flto
-ftree-vectorize -ftree-slp-vectorize -finline-functions
-fno-loop-parallelize-all -faggressive-loop-optimizations

456.hmmer: basepeak = yes

458.sjeng: -fprofile-generate(pass 1) -fprofile-use(pass 2) -static
-O3 -march=armv8.1-a+crc+fp+crypto -ffast-math
-fomit-frame-pointer -flto -ftree-vectorize
-fno-tree-slp-vectorize -fprefetch-loop-arrays
-faggressive-loop-optimizations

462.libquantum: basepeak = yes

464.h264ref: -fprofile-generate(pass 1) -fprofile-use(pass 2) -static
-O3 -march=armv8.1-a+crc+fp+crypto -funroll-loops
-fno-omit-frame-pointer -flto -fno-tree-slp-vectorize
-fprefetch-loop-arrays -fno-loop-parallelize-all
-faggressive-loop-optimizations

C++ benchmarks:

471.omnetpp: -fprofile-generate(pass 1) -fprofile-use(pass 2) -static
-O3 -march=armv8.1-a+crc+fp+crypto -ffast-math
-funroll-loops -fomit-frame-pointer -flto
-fno-tree-vectorize -fno-tree-slp-vectorize
-fno-prefetch-loop-arrays -fno-loop-nest-optimize --param
max-inline-recursive-depth=55

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Peak Optimization Flags (Continued)

473.astar: basepeak = yes

483.xalancbmk: basepeak = yes

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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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