







# SPEC CFP2006 Result

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## Sugon

I620-G10 (Intel Xeon E5-2680 v2, 2.80 GHz)

**SPECfp\_rate2006 = 638**

**CPU2006 license:** 9046

**Test date:** Nov-2013

**Test sponsor:** Sugon

**Hardware Availability:** Nov-2013

**Tested by:** Sugon

**Software Availability:** Nov-2013

## Platform Notes (Continued)

Turbo boost set to enabled  
DDR Speed set to force 1866  
Sysinfo program /home/spec/config/sysinfo.rev6818  
\$Rev: 6818 \$ \$Date::: 2012-07-17 #\$ e86d102572650a6e4d596a3cee98f191  
running on linux-tn7k Wed Nov 13 06:04:45 2013

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 : Intel(R) Xeon(R) CPU E5-2680 v2 @ 2.80GHz
      2 "physical id"s (chips)
      40 "processors"
cores, siblings (Caution: counting these is hw and system dependent. The
following excerpts from /proc/cpuinfo might not be reliable. Use with
caution.)
      cpu cores : 10
      siblings   : 20
      physical 0: cores 0 1 2 3 4 8 9 10 11 12
      physical 1: cores 0 1 2 3 4 8 9 10 11 12
cache size : 25600 KB
```

```
From /proc/meminfo
MemTotal:        264516912 kB
HugePages_Total:     0
Hugepagesize:      2048 kB
```

```
/usr/bin/lsb_release -d
SUSE Linux Enterprise Server 11 (x86_64)
```

```
From /etc/*release* /etc/*version*
SuSE-release:
      SUSE Linux Enterprise Server 11 (x86_64)
VERSION = 11
PATCHLEVEL = 3

uname -a:
Linux linux-tn7k 3.0.76-0.11-default #1 SMP Fri Jun 14 08:21:43 UTC 2013
(ccab990) x86_64 x86_64 x86_64 GNU/Linux

run-level 3 Nov 12 17:52 last=S

SPEC is set to: /home/spec
Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/md125p1    ext3  784G   41G  704G   6% /home/spec
```

Additional information from dmidecode:  
BIOS American Megatrends Inc. 3.0a 10/10/2013  
Memory:  
16x 16 GB  
16x Hynix Semiconductor HMT42GR7AFR4C 16 GB 1866 MHz







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I620-G10 (Intel Xeon E5-2680 v2, 2.80 GHz)

**SPECfp\_rate2006 =** 638

**SPECfp\_rate\_base2006 =** 623

**CPU2006 license:** 9046

**Test date:** Nov-2013

**Test sponsor:** Sugon

**Hardware Availability:** Nov-2013

**Tested by:** Sugon

**Software Availability:** Nov-2013

## Peak 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
        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

```

## Peak Optimization Flags

C benchmarks:

```
433.milc: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
    -no-prec-div(pass 2) -opt-mem-layout-trans=3(pass 2)
    -prof-use(pass 2) -auto-ilp32
```

```
470.lbm: basepeak = yes
```

```
482.sphinx3: -xAVX -ipo -O3 -no-prec-div -opt-mem-layout-trans=3
    -unroll2
```

C++ benchmarks:

```
444.namd: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
    -no-prec-div(pass 2) -opt-mem-layout-trans=3(pass 2)
    -prof-use(pass 2) -fno-alias -auto-ilp32
```

```
447.dealII: basepeak = yes
```

```
450.soplex: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
    -no-prec-div(pass 2) -opt-mem-layout-trans=3(pass 2)
    -prof-use(pass 2) -opt-malloc-options=3
```

```
453.povray: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
    -no-prec-div(pass 2) -opt-mem-layout-trans=3(pass 2)
    -prof-use(pass 2) -unroll4 -ansi-alias
```

Fortran benchmarks:

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