



# CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

Hewlett-Packard Company  
ProLiant DL585 (AMD Opteron (TM) 880)

SPECint\_rate2000 = 73.9  
SPECint\_rate\_base2000 = 66.5

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Aug-2005 Hardware Avail: Sep-2005 Software Avail: Apr-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	96.1	67.6	4	97.1	66.9
175.vpr	4	125	52.1	4	120	54.3
176.gcc	4	67.7	75.4	4	69.7	73.3
181.mcf	4	320	26.1	4	197	42.4
186.crafty	4	49.0	94.8	4	47.7	97.3
197.parser	4	163	51.3	4	133	62.6
252.eon	4	56.5	107	4	51.3	118
253.perlbnk	4	111	75.3	4	99.7	83.7
254.gap	4	74.6	68.4	4	72.3	70.6
255.vortex	4	80.2	110	4	75.8	116
256.bzip2	4	114	61.3	4	114	61.3
300.twolf	4	231	60.3	4	180	77.4

### Hardware

CPU: AMD Opteron (TM) 880  
CPU MHz: 2400  
FPU: Integrated  
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip  
CPU(s) orderable: 2,4  
Parallel: No  
Primary Cache: 64KBI + 64KBD (on chip) per core  
Secondary Cache: 1024KB(I+D) (on chip) per core  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8x2048MB PC3200 CL3.0  
Disk Subsystem: 1x36.4GB 15K Ultra320 SCSI  
Other Hardware:

### Software

Operating System: SuSE Linux Enterprise Server 9 (x86\_64) SP 1  
SuSE kernel 2.6.5-7.139-smp  
Compiler: PathScale EKOPath(TM) Compiler Suite, Release 2.1  
File System: Linux/ext2  
System State: Multi-user run level 3

## Notes/Tuning Information

```
+FDO: PASS1= -fb_create fbdata PASS2= -fb_opt fbdata
Base tuning for C programs: -Ofast +FDO
Base tuning for C++ programs: -Ofast +FDO
Portability flags:
176.gcc: srcalt=64bitgcc
186.crafty: -DLINUX_i386
252.eon: -DHAS_ERRLIST -DSPEC_CPU2000_LP64 srcalt=fmax_errno
253.perlbnk: -DSPEC_CPU2000_LINUX_I386 -DSPEC_CPU2000_NEED_BOOL
-DSPEC_CPU2000_GLIBC22 -DSPEC_CPU2000_LP64
254.gap: -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO
-DSYS_HAS_CALLOC_PROTO -DSPEC_CPU2000_LP64
255.vortex: -DSPEC_CPU2000_LP64 srcalt=closed_files
Peak tuning:
164.gzip: -O3 -ipa -WOPT:val=0 -OPT:unroll_size=0 +FDO
175.vpr: -O2 -ipa -OPT:alias=disjoint -CG:p2align_freq=500000
-INLINE:aggressive=on
-IPA:space=300:plimit=10000:callee_limit=5000:linear=on +FDO
176.gcc: -O3 -IPA:plimit=10000 -LNO:opt=0 -OPT:goto=off +FDO
181.mcf: -O3 -ipa -IPA:field_reorder=on -m32 +FDO
186.crafty: -Ofast -CG:local_fwd_sched=on -LNO:opt=0 -WOPT:val=0 +FDO
```



# CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

Hewlett-Packard Company  
ProLiant DL585 (AMD Opteron (TM) 880)

SPECint\_rate2000 = 73.9  
SPECint\_rate\_base2000 = 66.5

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Aug-2005 Hardware Avail: Sep-2005 Software Avail: Apr-2005

## Notes/Tuning Information (Continued)

197.parser: -O3 -ipa -m32 -IPA:ctype=on +FDO  
252.eon: -Ofast -CG:gcm=off:p2align\_freq=1:prefetch=off -IPA:plimit=4000  
-OPT:treeheight=on -TENV:X=4:frame\_pointer=off -fno-exceptions  
-LNO:fu=10:full\_unroll\_outer=on -GRA:optimize\_boundary=on +FDO  
253.perlbnk: -O2 -ipa -OPT:Ofast:transform\_to\_memlib=off  
-fno-math-errno -IPA:plimit=10000 +FDO  
254.gap: -Ofast -IPA:min\_hotness=5 -OPT:alias=disjoint -CG:movnti=1 +FDO  
255.vortex: -Ofast -OPT:goto=off +FDO  
256.bzip2: basepeak=true  
300.twolf: -O2 -CG:gcm=off:p2align\_freq=100000  
-OPT:Ofast:unroll\_times\_max=8:unroll\_size=256:alias=disjoint  
-WOPT:mem\_opnds=on -m32 +FDO

### BIOS Configuration Notes

Node Interleaving Disabled

### Other Configuration Notes

Taskset utility used to bind process to CPU(s)