CINT2000 Result

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Hewlett-Packard Company

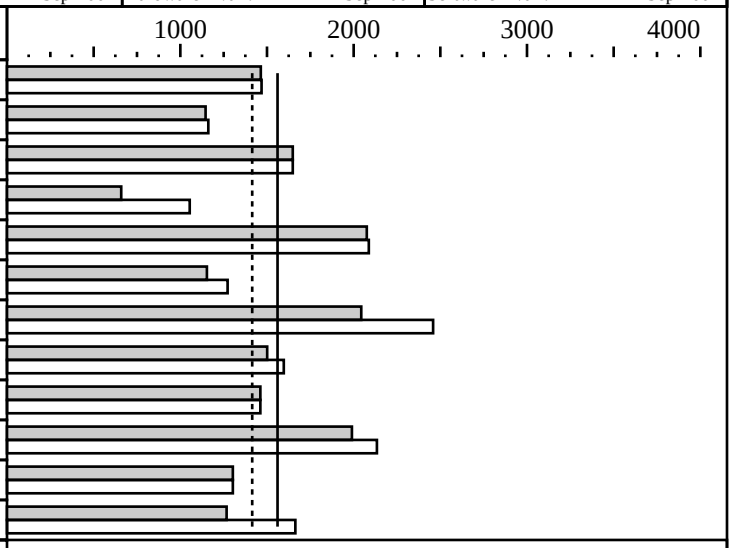
ProLiant DL145 (AMD Opteron (TM) 250)

SPECint2000 = 1561

SPECint_base2000 = 1415

SPEC license #: 3 | Tested by: Hewlett-Packard Company | Test date: Sep-2004 | Hardware Avail: Sep-2004 | Software Avail: Sep-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	95.6	1464	95.3	1469
175.vpr	1400	122	1146	121	1161
176.gcc	1100	66.7	1649	66.7	1649
181.mcf	1800	273	659	171	1054
186.crafty	1000	48.2	2076	47.9	2087
197.parser	1800	156	1153	141	1273
252.eon	1300	63.6	2044	52.9	2458
253.perlbmk	1800	120	1501	113	1597
254.gap	1100	75.3	1462	75.3	1462
255.vortex	1900	95.5	1990	89.0	2134
256.bzip2	1500	115	1303	115	1303
300.twolf	3000	237	1267	180	1664



Hardware

CPU:	AMD Opteron (TM) 250
CPU MHz:	2400
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1,2
Parallel:	No
Primary Cache:	64KBI + 64KBD on chip
Secondary Cache:	1024KB(I+D) on chip
L3 Cache:	N/A
Other Cache:	N/A
Memory:	4x2048MB PC2700 CL2.5
Disk Subsystem:	1x40GB ATA100
Other Hardware:	

Software

Operating System:	SuSE Linux Enterprise Server 8 for AMD64 (SP3) SuSE kernel 2.4.21-143-numa
Compiler:	PathScale EKO Compiler Suite, Release 1.3
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:   -O3 -ipa +FDO
Base tuning for C++ programs: -Ofast +FDO
Portability flags:
  175.vpr:      -DSPEC_CPU2000
  181.mcf:      -DWANT_STDC_PROTO
  186.crafty:    -DLINUX_i386 -DSPEC_CPU2000
  252.eon:      -DHAS_ERRLIST -DSPEC_CPU2000_LP64 srcalt=fmax_errno
  253.perlbmk:  -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_SIGNAL_PROTO  -DSYS_HAS_ANSI -DSYS_HAS_CALLOC_PROTO
                -DSPEC_CPU2000_LP64
  255.vortex:   -DSPEC_CPU2000_LP64
  300.twolf:    -DSPEC_CPU2000 -DHAVE_SIGNED_CHAR
Peak tuning:
  164.gzip:     -Ofast +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:      basepeak=yes
```

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Notes/Tuning Information (Continued)

```
    181.mcf:      -O3 -ipa -IPA:field_reorder=on -m32 +FDO
    186.crafty:   -Ofast +FDO
    197.parser:   -O3 -ipa -m32 -IPA:ctype=on +FDO
    252.eon:     -Ofast -CG:gcm=off:p2align_freq=1:prefetch=off -OPT:treeheight=on
                -TENV:X=4:frame_pointer=off -fno-exceptions -LNO:fu=10:full_unroll_outer=1
                 +FDO -IPA:plimit=4000:pu_reorder=1
    253.perlbmk:  -O3 -ipa -TENV:X=3 +FDO -IPA:min_hotness=5:plimit=20000
    254.gap:     basepeak=yes
    255.vortex:   -Ofast -IPA:space=70:plimit=3000 -LNO:opt=0 -TENV:X=4
                 -OPT:goto=off:unroll_analysis=off:unroll_size=0:unroll_times_max=8 +FDO
    256.bzip2:    basepeak=yes
    300.twolf:    -O2 -OPT:unroll_times_max=8:unroll_size=256:alias=disjoint:Ofast
                  -CG:gcm=off:p2align_freq=100000 -WOPT:mem_opnds=on -m32 +FDO
  BIOS Configuration Notes
    Node Interleaving Disabled
  Other Configuration Notes
    Taskset utility used to bind process to CPU(s)
```