



CINT2000 Result

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Hewlett-Packard Company
HP Workstation zx6000 (1500 MHz, Itanium 2)

SPECint2000 = 1315
SPECint_base2000 = 1315

SPEC license #: 3 Tested by: HP Fort Collins Test date: Jun-2003 Hardware Avail: Sep-2003 Software Avail: Sep-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	143	977	143	977	
175.vpr	1400	126	1115	126	1115	
176.gcc	1100	73.2	1503	73.2	1503	
181.mcf	1800	79.4	2266	79.4	2266	
186.crafty	1000	81.4	1228	81.4	1228	
197.parser	1800	182	988	182	988	
252.eon	1300	84.5	1539	84.5	1539	
253.perlbmk	1800	152	1188	152	1188	
254.gap	1100	103	1072	103	1072	
255.vortex	1900	97.9	1940	97.9	1940	
256.bzip2	1500	123	1219	123	1219	
300.twolf	3000	235	1278	235	1278	

Hardware

CPU: Intel Itanium 2
 CPU MHz: 1500
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1-2
 Parallel: no
 Primary Cache: 16KBI + 16KBD (on chip) per CPU
 Secondary Cache: 256KB (on chip) per CPU
 L3 Cache: 6.0MB (on chip) per CPU
 Other Cache: N/A
 Memory: 12GB (12 x 1GB DIMMs)
 Disk Subsystem: 1x36GB 10k RPM SCSI disk
 Other Hardware: N/A

Software

Operating System: HP-UX11i-TCOE B.11.23
 Compiler: HP C/ANSI C Compiler B.11.23
 HP aC++ Compiler B.11.23
 File System: vxfs
 System State: Multi-user

Notes/Tuning Information

Portability Flags

```
176.gcc : -DHOST_WORDS_BIG_ENDIAN
181.mcf : -DWANT_STDC_PROTO
186.crafty : -DHP
252.eon : -I. -DFMAX_IS_DOUBLE -DNDEBUG
          -DSPEC_CPU2000_LP64 (because of 64-bit compile)
253.perlbmk : -DSPEC_CPU2000_HP
254.gap : -DSPEC_CPU2000_HP -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO
          -DSYS_HAS_TIME_PROTO -DSYS_HAS_CALLOC_PROTO
```

Base Flags

```
all : +Oprofile=collect:all/+Oprofile=use
C : +Ofaster -exec +Odatalayout
C++ : +Ofaster +inline_level 2 -minshared +DD64
```

Peak Flags

same as baseline (basepeak=true set globally)

Kernel Tunables:



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Notes/Tuning Information (Continued)

```
maxdsiz          0x7b03a000
maxdsiz_64bit    0x0400000000
maxssiz          0x10000000
maxssiz_64bit    0x40000000
vps_ceiling      16384
vps_pagesize     4096
swapmem_on       0
dbc_max_pct      20
dbc_min_pct      20
```

Note:

EFI shell utility 'cpuconfig' used
to deconfigure processors if necessary