



CINT2000 Result

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Hewlett-Packard Company

HP Integrity BL60p (1.6GHz/3MB Itanium 2)

SPECint_rate2000 = 33.4

SPECint_rate_base2000 = 33.4

SPEC license #: 3 Tested by: HP Richardson Test date: Oct-2005 Hardware Avail: Jan-2006 Software Avail: Dec-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	132	24.6	2	132	24.6
175.vpr	2	120	27.0	2	120	27.0
176.gcc	2	63.0	40.5	2	63.0	40.5
181.mcf	2	127	32.9	2	127	32.9
186.crafty	2	74.7	31.1	2	74.7	31.1
197.parser	2	168	24.9	2	168	24.9
252.eon	2	62.4	48.3	2	62.4	48.3
253.perlbnk	2	121	34.6	2	121	34.6
254.gap	2	96.2	26.5	2	96.2	26.5
255.vortex	2	82.4	53.5	2	82.4	53.5
256.bzip2	2	110	31.7	2	110	31.7
300.twolf	2	184	37.9	2	184	37.9

Hardware

CPU: Intel Itanium 2 (1.6GHz/3MB, 400MHz FSB)
CPU MHz: 1600
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip
CPU(s) orderable: 1,2
Parallel: no
Primary Cache: 16KBI + 16KBD on chip, per core
Secondary Cache: 256KB (I+D) on chip, per core
L3 Cache: 3.0MB (I+D) on chip, per core
Other Cache: N/A
Memory: 8GB (4x2GB DIMMs)
Disk Subsystem: 1x73GB 15K SCSI
Other Hardware: N/A

Software

Operating System: HP-UX 11i v2, TCOE (version 11.23.0512)
Compiler: HP C/ANSI C Compiler A.06.05
HP aC++ Compiler A.06.05
File System: vxfs
System State: Multi-user

Notes/Tuning Information

Portability Flags

```
176.gcc : -DHOST_WORDS_BIG_ENDIAN
186.crafty : -DHP
252.eon : -DFMAX_IS_DOUBLE
253.perlbnk : -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 +Otype_safety=ansi
C++ : +Ofaster +Otype_safety=ansi
```

Peak Flags

same as base (basepeak=true set globally)

Kernel Tunables:

```
dbc_max_pct=20
dbc_min_pct=20
maxdsiz=3221225472
```



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Notes/Tuning Information (Continued)

```
maxssiz=401604608
maxdsiz_64bit=4396972761584
maxssiz_64bit=1073741824
vps_pagesize=4096
vps_ceiling=16384
```

Notes:

The system had the HP-UX 11i v2, Technical Computing Operating Environment (TCOE), December, 2005 installed, along with the AR0509 compilers and the following patches:

```
PHSS_33350 aC++ Runtime A.06.05
PHSS_33351 Math Library Cumulative Patch
PHSS_33352 Integrity Unwind Library
PHSS_33357 milli cumulative patch
```