



CINT2000 Result

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Hewlett-Packard Company
HP Integrity BL60p (1.6GHz/3MB Itanium 2)

SPECint2000 = 1454
SPECint_base2000 = 1454

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	131	1065	131	1065
175.vpr	1400	119	1178	119	1178
176.gcc	1100	62.8	1752	62.8	1752
181.mcf	1800	119	1510	119	1510
186.crafty	1000	74.8	1336	74.8	1336
197.parser	1800	169	1067	169	1067
252.eon	1300	62.7	2074	62.7	2074
253.perlbmk	1800	121	1484	121	1484
254.gap	1100	92.7	1186	92.7	1186
255.vortex	1900	82.2	2312	82.2	2312
256.bzip2	1500	109	1370	109	1370
300.twolf	3000	183	1636	183	1636

Hardware

CPU: Intel Itanium 2 (1.6GHz/3MB, 400MHz FSB)
CPU MHz: 1600
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 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.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 +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
```

EFI command "cpuconfig" used prior to booting to deconfigure processors if necessary