



CINT2000 Result

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

SPECint_rate2000 = 16.9
SPECint_rate_base2000 = 16.9

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.zip	1	132	12.3	1	132	12.3
175.vpr	1	119	13.7	1	119	13.7
176.gcc	1	62.5	20.4	1	62.5	20.4
181.mcf	1	119	17.5	1	119	17.5
186.crafty	1	74.9	15.5	1	74.9	15.5
197.parser	1	168	12.4	1	168	12.4
252.eon	1	62.4	24.2	1	62.4	24.2
253.perlbnk	1	121	17.3	1	121	17.3
254.gap	1	92.5	13.8	1	92.5	13.8
255.vortex	1	82.1	26.9	1	82.1	26.9
256.bzip2	1	110	15.8	1	110	15.8
300.twolf	1	184	18.9	1	184	18.9

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.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
```

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