



CINT2000 Result

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Hewlett-Packard Company
HP Integrity Server rx2600 (1300 MHz, Itanium 2)

SPECint_rate2000 = 24.8
SPECint_rate_base2000 = 24.5

SPEC license #: 3 | Tested by: HP Richardson | Test date: Oct-2003 | Hardware Avail: Sep-2003 | Software Avail: Sep-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	166	19.6	2	166	19.6
175.vpr	2	155	21.0	2	150	21.7
176.gcc	2	85.8	29.8	2	85.8	29.8
181.mcf	2	176	23.8	2	176	23.8
186.crafty	2	95.9	24.2	2	95.9	24.2
197.parser	2	222	18.8	2	222	18.8
252.eon	2	97.8	30.8	2	94.1	32.1
253.perlbnk	2	175	23.8	2	169	24.8
254.gap	2	119	21.4	2	119	21.4
255.vortex	2	119	37.0	2	116	38.0
256.bzip2	2	151	23.1	2	151	23.1
300.twolf	2	270	25.8	2	264	26.3

Hardware

CPU: Intel Itanium 2
 CPU MHz: 1300
 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 CPU
 Secondary Cache: 256KB (on chip) per CPU
 L3 Cache: 3.0MB (on chip) per CPU
 Other Cache: N/A
 Memory: 12GB (12 x 1024MB DIMMs)
 Disk Subsystem: 1x36GB 15k RPM SCSI disk
 Other Hardware: N/A

Software

Operating System: HPUX11i-TCOE B.11.23
 Compiler: HP C/ANSI C Compiler B.11.23
 HP aC++ Compiler B.11.23
 PHSS_29655 aC++ Compiler
 PHSS_29656 HP C Compiler
 PHSS_29657 u2comp/be/plugin library Patch
 PHSS_29658 Aries
 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

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

Peak Flags

164.gzip : basepeak=true
 175.vpr : PBO +Ofaster +Odatalayout +Onorecovery
 +Onoptrs_to_globals -exec
 LIBS = -Wl,-aarchive_shared -Bprotected
 176.gcc : basepeak=true
 181.mcf : basepeak=true



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Notes/Tuning Information (Continued)

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186.crafty : basepeak=true
197.parser : basepeak=true
252.eon    : PBO +Ofaster +Odatalayout +Otype_safety=ansi
           +inline_level 2 -minshared
253.perlbnk: PBO +Ofaster +Odatalayout +Onoptrs_to_globals -exec
           LIBS = -Wl,-aarchive_shared -Bprotected_def fastmem.o
254.gap    : basepeak=true
255.vortex : PBO +Ofaster +Odatalayout +Onorecovery
           +Onoptrs_to_globals -exec
           LIBS = -Wl,-aarchive_shared -Bprotected
256.bzip2  : basepeak=true
300.twolf  : PBO +Ofaster +Odatalayout +Onoptrs_to_globals -exec
           LIBS = -Wl,-aarchive_shared -Bprotected_data effmem.o

```

Kernel Tunables:

```

maxdsiz          0x7b03a000
maxdsiz_64bit    0x04000000000
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

```