# CINT2000 Result

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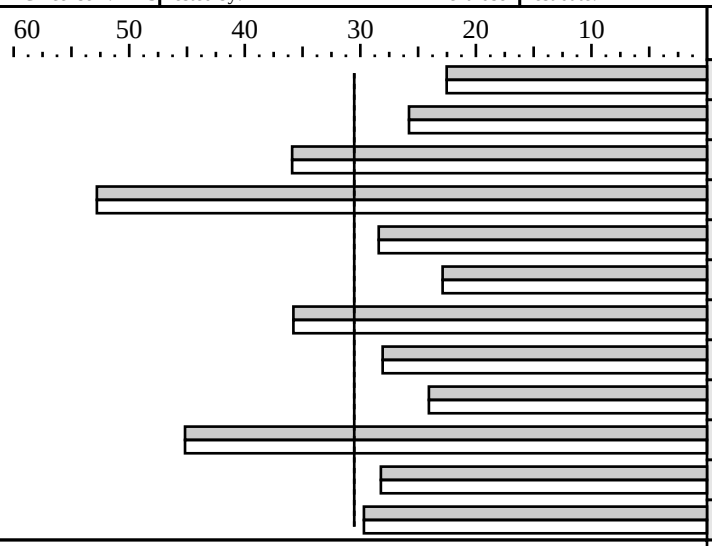
## Hewlett-Packard Company

HP Integrity Server rx2600 (1500 MHz, Itanium 2)

SPECint_rate2000 = 30.5

SPECint_rate_base2000 = 30.5

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




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 164.gzip | 2 | 144 | 22.5 | 2 | 144 | 22.5 |
| 175.vpr | 2 | 126 | 25.8 | 2 | 126 | 25.8 |
| 176.gcc | 2 | 71.1 | 35.9 | 2 | 71.1 | 35.9 |
| 181.mcf | 2 | 79.1 | 52.8 | 2 | 79.1 | 52.8 |
| 186.crafty | 2 | 81.7 | 28.4 | 2 | 81.7 | 28.4 |
| 197.parser | 2 | 183 | 22.9 | 2 | 183 | 22.9 |
| 252.eon | 2 | 84.3 | 35.8 | 2 | 84.3 | 35.8 |
| 253.perlbmk | 2 | 149 | 28.1 | 2 | 149 | 28.1 |
| 254.gap | 2 | 106 | 24.1 | 2 | 106 | 24.1 |
| 255.vortex | 2 | 97.6 | 45.2 | 2 | 97.6 | 45.2 |
| 256.bzip2 | 2 | 123 | 28.2 | 2 | 123 | 28.2 |
| 300.twolf | 2 | 234 | 29.7 | 2 | 234 | 29.7 |

### Hardware

| | |
|---|---|
| CPU: | Intel Itanium 2 |
| CPU MHz: | 1500 |
| 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: | 6.0MB (on chip) per CPU |
| Other Cache: | N/A |
| Memory: | 12GB (12 * 1GB DIMMs) |
| Disk Subsystem: | 1x36GB 10k 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 |
| 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    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
```