CINT2000 Result

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Hewlett-Packard Company

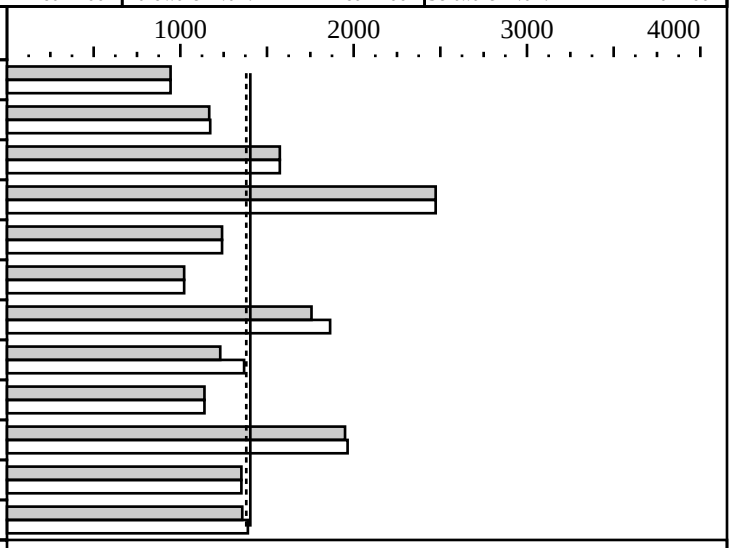
HP Integrity Server rx4640 (1500 MHz, Itanium 2)

SPECint2000 = 1404

SPECint_base2000 = 1380

SPEC license #: 3 | Tested by: HP Richardson | Test date: Jan-2004 | Hardware Avail: Jan-2004 | Software Avail: Mar-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	148	944	148	944
175.vpr	1400	120	1167	119	1172
176.gcc	1100	69.9	1574	69.9	1574
181.mcf	1800	72.8	2473	72.8	2473
186.crafty	1000	80.6	1241	80.6	1241
197.parser	1800	176	1022	176	1022
252.eon	1300	74.0	1757	69.7	1864
253.perlbmk	1800	146	1230	132	1368
254.gap	1100	96.6	1139	96.6	1139
255.vortex	1900	97.4	1950	96.7	1965
256.bzip2	1500	111	1352	111	1352
300.twolf	3000	221	1357	216	1390



Hardware

CPU:	Intel Itanium 2
CPU MHz:	1500
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1-4
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:	32GB (16 * 2GB 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 C.05.55
	HP aC++ Compiler C.05.55
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
  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.mfc    : basepeak=true
```

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Notes/Tuning Information (Continued)

```
186.crafty : basepeak=true
197.parser : basepeak=true
252.eon    : PBO +Ofaster +Odatalayout +Otype_safety=ansi
               +inline_level 2 -minshared
253.perlbmk: 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:
  maxssiz             268435456
  vps_ceiling             16384
  vps_pagesize             4096
  swapmem_on                  1
  dbc_max_pct                20
  dbc_min_pct                20

Note:
  EFI shell utility 'cpuconfig' used
  to deconfigure processors if necessary
```