CINT2000 Result

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Hewlett-Packard Company

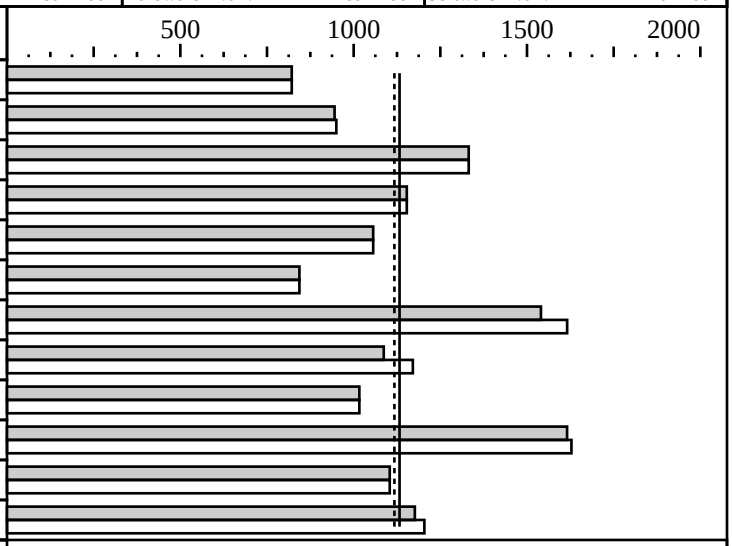
HP Integrity Server rx4640 (1300 MHz, Itanium 2)

SPECint2000 = 1132

SPECint_base2000 = 1117

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	170	821	170	821
175.vpr	1400	148	945	147	950
176.gcc	1100	82.6	1332	82.6	1332
181.mcf	1800	156	1153	156	1153
186.crafty	1000	94.7	1056	94.7	1056
197.parser	1800	213	843	213	843
252.eon	1300	84.4	1540	80.5	1616
253.perlbmk	1800	166	1087	154	1171
254.gap	1100	108	1016	108	1016
255.vortex	1900	118	1616	117	1628
256.bzip2	1500	136	1104	136	1104
300.twolf	3000	255	1176	249	1204



Hardware

CPU:	Intel Itanium 2
CPU MHz:	1300
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:	3.0MB (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
```