CINT2000 Result

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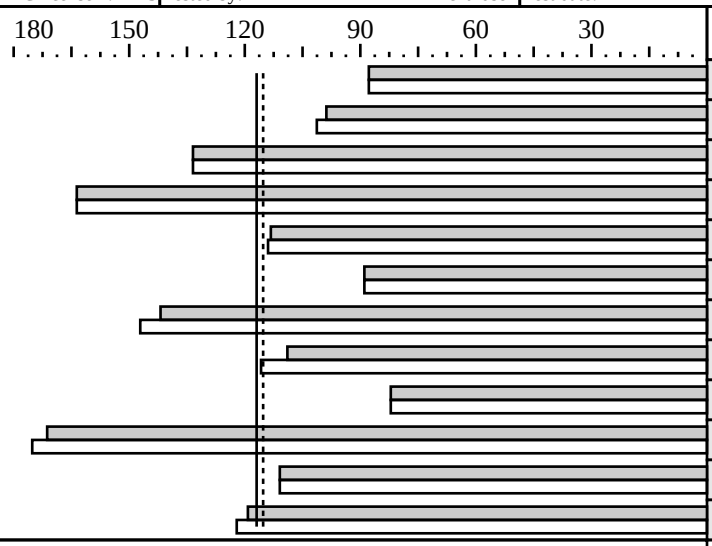
Hewlett-Packard Company

HP Integrity rx8620 (1500 MHz Itanium 2)

SPECint_rate2000 = 117

SPECint_rate_base2000 = 115

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	148	87.8	8	148	87.8
175.vpr	8	131	98.8	8	128	101
176.gcc	8	76.5	133	8	76.5	133
181.mcf	8	102	164	8	102	164
186.crafty	8	82.0	113	8	81.4	114
197.parser	8	188	89.0	8	188	89.0
252.eon	8	85.0	142	8	82.0	147
253.perlbmk	8	153	109	8	144	116
254.gap	8	124	82.1	8	124	82.1
255.vortex	8	103	171	8	101	175
256.bzip2	8	126	111	8	126	111
300.twolf	8	234	119	8	228	122

Hardware

CPU:	Intel Itanium 2
CPU MHz:	1500
FPU:	Integrated
CPU(s) enabled:	8 cores, 8 chips, 1 core/chip
CPU(s) orderable:	2,4,6,8,10,12,14,16
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 (64 * 512MB DIMMs)
Disk Subsystem:	10x36GB 10K rpm SCSI (striped)
Other Hardware:	N/A

Software

Operating System:	HPUX11i-TCOE B.11.23
Compiler:	HP C/ANSI C Compiler A.05.52 HP aC++ Compiler A.05.52
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
  all       : +Oprofile=collect:all/+Oprofile=use
  C         : +Ofaster -exec +Odatalayout
  C++       : +Ofaster +inline_level 2 -minshared

Peak Flags
 164.gzip    : basepeak=true
 175.vpr     : +Oprofile=collect:all/+Oprofile=use +Ofaster -exec +Odatalayout
               +Onoptrs_to_globals +Onorecovery
 176.gcc     : basepeak=true
 181.mcf     : basepeak=true
 186.crafty  : +Oprofile=collect:all/+Oprofile=use +Ofaster -exec +Odatalayout
```

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Notes/Tuning Information (Continued)

```
                +Otype_safety=ansi
 197.parser  : basepeak=true
 252.eon     : +Oprofile=collect:all/+Oprofile=use +Ofaster +inline_level 2
               -minshared +Otype_safety=ansi
 253.perlbmk : +Oprofile=collect:all/+Oprofile=use +Ofaster -exec +Odatalayout
               +Onoptrs_to_globals
               LIBS = /opt/langtools/lib/hpux32/fastmem.o
 254.gap     : basepeak=true
 255.vortex  : +Oprofile=collect:all/+Oprofile=use +Ofaster -exec +Odatalayout
               +Onoptrs_to_globals +Onorecovery
 256.bzip2   : basepeak=true
 300.twolf   : +Oprofile=collect:all/+Oprofile=use +Ofaster -exec +Odatalayout
               +Onoptrs_to_globals
               LIBS = /opt/langtools/lib/hpux32/effmem.o

Kernel Tunables:
  dbc_max_pct=20
  dbc_min_pct=20
  maxdsiz=3221225472
  maxssiz=401604608
  maxdsiz_64bit=4396972761584
  maxssiz_64bit=1073741824
  vps_pagesize=4096
  vps_ceiling=16384

The system under test had the HP-UX 11i v2 (version 11.23)
  Technical Computing Operating Environment and compilers
  installed, with the following patches applied:

  PHSS_29655  aC++ compiler (A.05.52)
  PHSS_29656  HP C Compiler (A.05.52)
  PHSS_29657  u2comp/be/plugin library Patch
  PHSS_29663  Fortran Product Patch, v2.7 to v2.7.2

Notes:

  System was configured with 1/2 of memory interleaved and
    1/2 of memory local to each cell

  System configured as a single partition with 4 cells and
    2 processors per cell
     (unused processors disabled by firmware comand cpuconfig)

  Processes were assigned to localities using the
    HP-UX mpsched utility

  Filesystem used for spec runs mounted "tmplog"
```