CFP2000 Result

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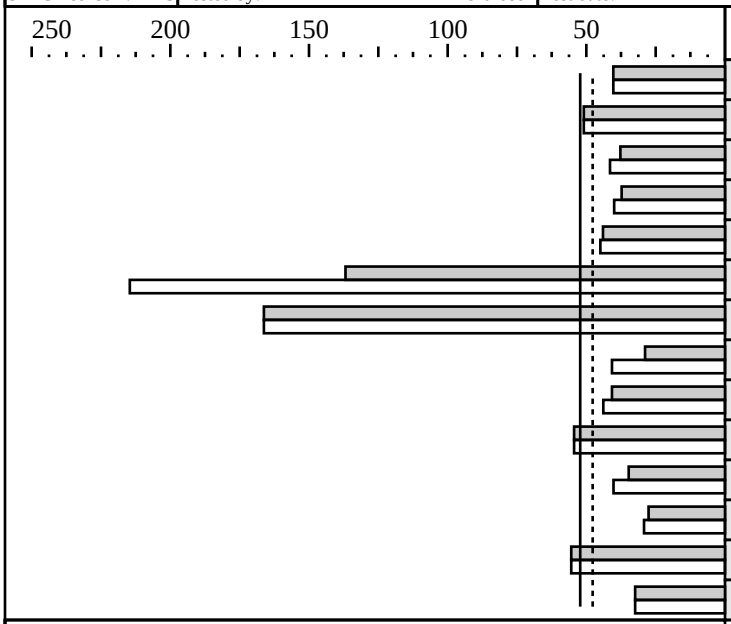
Hewlett-Packard Company

HP Integrity rx7620 (1300 MHz Itanium 2)

SPECfp_rate2000 = 52.2

SPECfp_rate_base2000 = 47.7

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	184	40.3	4	184	40.3
171.swim	4	283	50.9	4	283	50.9
172.mgrid	4	221	37.7	4	201	41.5
173.applu	4	261	37.3	4	244	40.0
177.mesa	4	148	44.0	4	145	44.9
178.galgel	4	98.3	137	4	62.7	215
179.art	4	72.6	166	4	72.6	166
183.equake	4	209	28.8	4	148	40.7
187.facerec	4	216	40.8	4	201	43.9
188.ammp	4	188	54.4	4	188	54.4
189.lucas	4	267	34.7	4	231	40.2
191.fma3d	4	354	27.6	4	334	29.2
200.sixtrack	4	92.1	55.4	4	92.1	55.4
301.apsi	4	372	32.4	4	372	32.4

Hardware

CPU:	Intel Itanium 2
CPU MHz:	1300
FPU:	Integrated
CPU(s) enabled:	4 cores, 4 chips, 1 core/chip
CPU(s) orderable:	2,4,6,8
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:	8GB (16 * 512MB DIMMs)
Disk Subsystem:	1x36GB 10K rpm SCSI
Other Hardware:	N/A

Software

Operating System:	HPUX11i-TCOE B.11.23
Compiler:	HP C/ANSI C Compiler A.05.52 HP Fortran90 Compiler B.11.23
File System:	vxfs
System State:	Multi-user

Notes/Tuning Information

```
Portability Flags
  178.galgel: +source=fixed

Base Flags
  f90      : +Oprofile=collect:all/+Oprofile=use +Ofaster -minshared
  C        : +Oprofile=collect:all/+Oprofile=use +Ofaster +Otype_safety=ansi -exec

Peak Flags:

  168.wupwise   : basepeak=true
  171.swim      : basepeak=true
  172.mgrid     : +Ofaster -minshared +Oprefetch_latency=1280
  173.applu     : +Ofast +O3 -minshared
  177.mesa      : +Oprofile=collect:all/+Oprofile=use +Ofaster +Otype_safety=ansi
                  -exec +Oprefetch_latency=1280
  178.galgel    : +Oprofile=collect:all/+Oprofile=use +Ofast +Onoptrs_to_globals
                  -minshared +O3 +Oloop_unroll=11 +DD64
```

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Notes/Tuning Information (Continued)

```
                RM_SOURCES = lapak.f90 LIBS = -llapack
  179.art       : basepeak=true
  183.equake    : +Oprofile=collect:all/+Oprofile=use +Ofaster +Onorecovery
                  +Onoptrs_to_globals +Otype_safety=strong -exec
                  LIBS = -Bprotected /opt/langtools/lib/hpux32/effmem.o
  187.facerec   : +Ofast +Onoptrs_to_globals -minshared +O3 +Oloop_unroll=2
  188.ammp      : basepeak=true
  189.lucas     : +Ofast +Onoptrs_to_globals -minshared +O3
  191.fma3d     : +Oprofile=collect:all/+Oprofile=use +Ofast +Onoptrs_to_globals
                  -minshared +O3
  200.sixtrack  : basepeak=true
  301.apsi      : basepeak=true

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

Other notes:

  System configured as a single partition with 1 cell and
    4 processors

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