CFP2000 Result

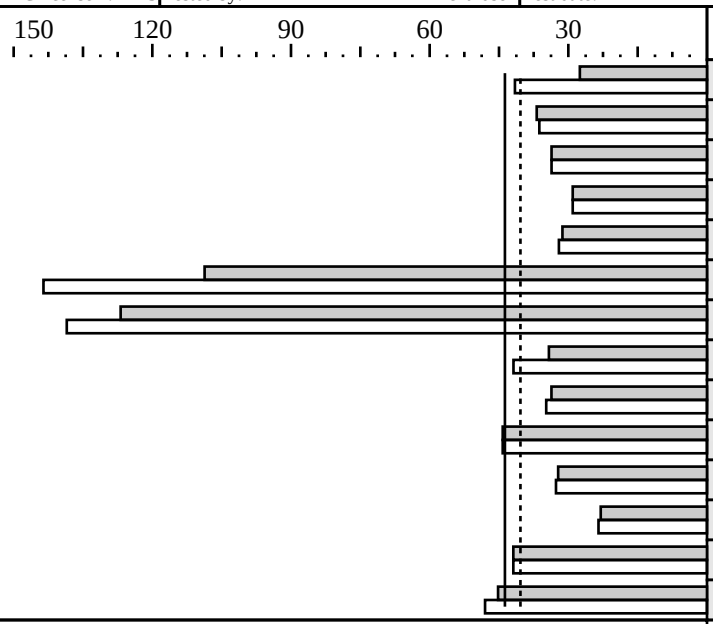
Copyright ©1999-2004, Standard Performance Evaluation Corporation

Hewlett-Packard Company
hp server rx5670 (1000 MHz, Itanium 2)

SPECfp_rate2000 = 43.7

SPECfp_rate_base2000 = 40.4

SPEC license #: 3 | Tested by: HP Richardson | Test date: Jul-2002 | Hardware Avail: Sep-2002 | Software Avail: Oct-2002



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	270	27.5	4	179	41.6
171.swim	4	390	36.8	4	397	36.3
172.mgrid	4	248	33.6	4	248	33.6
173.applu	4	335	29.1	4	335	29.1
177.mesa	4	208	31.3	4	203	32.0
178.galgel	4	124	109	4	93.7	144
179.art	4	95.1	127	4	87.1	139
183.equake	4	176	34.2	4	144	41.9
187.facerec	4	262	33.7	4	253	34.8
188.ammp	4	231	44.2	4	231	44.2
189.lucas	4	288	32.2	4	284	32.7
191.fma3d	4	424	23.0	4	415	23.5
200.sixtrack	4	122	41.9	4	122	41.9
301.apsi	4	267	45.2	4	251	48.0

Hardware

CPU:	Intel Itanium 2
CPU MHz:	1000
FPU:	Integrated
CPU(s) enabled:	4 cores, 4 chips, 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:	12GB
Disk Subsystem:	1x9GB SCSI disk (root + swap) 1x9GB SCSI disk (swap)
Other Hardware:	N/A

Software

Operating System:	HPUX11i-TCOE B.11.22
Compiler:	HP C/ANSI C Compiler B.11.22 HP Fortran 90 Compiler B.11.22 HP MLIB B.11.22
	PHSS_27281: f90 product PHSS_27286: C product PHSS_27287: U2comp PHSS_27288: Linker PHSS_27291: PBO PHSS_27293: milli.a Caliper v2.1 www.hp.com/go/caliper
File System:	VxFS
System State:	Multi-user

Notes/Tuning Information

```
C compiler invoked as:
  /opt/ansic/bin/cc -AOe

Portability Flags:
  178.galgel:  +source=fixed

Base Flags:
  All  : +Oprofile=collect/+Oprofile=use
  f90  : +Ofast +O3 -minshared
  C    : +Ofaster +Onorecovery -exec
  Note : By default, f90 links in MLIB libraries if installed

Peak Flags (all use the following except where noted below):
```

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Notes/Tuning Information (Continued)

```
    All     : LIBS =
    f77/f90 : +Ofast +Onoptrs_to_globals -minshared +O3
    C       : +Oprofile=collect/+Oprofile=use +Ofaster +Onorecovery
              +Onoptrs_to_globals +Otype_safety=strong -exec -Wl,-aarchive_shared

    168.wupwise  : +Ofast +O3 +cat +Onoptrs_to_globals -minshared
                   ONESTEP = 1
    172.mgrid    : basepeak=true
    173.applu    : basepeak=true
    177.mesa     : LIBS = -Bprotected
    178.galgel   : +Ofast +Onoptrs_to_globals -minshared +O3
                   RM_SOURCES = lapak.f90
                   LIBS = -llapack
    179.art      : LIBS = -Bprotected_data /opt/langtools/lib/hpux32/effmem.o
    183.equake   : LIBS = -Bprotected /opt/langtools/lib/hpux32/effmem.o
    188.ammp     : basepeak=true
    189.lucas    : +Ofast +Onoptrs_to_globals -minshared +O3 +Oinlinebudget=100
    200.sixtrack : basepeak=true

  Kernel Tunables:
    maxdsiz          0x7b03a000
    maxdsiz_64bit 0x4000000000
    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 other processors
```