CFP2000 Result

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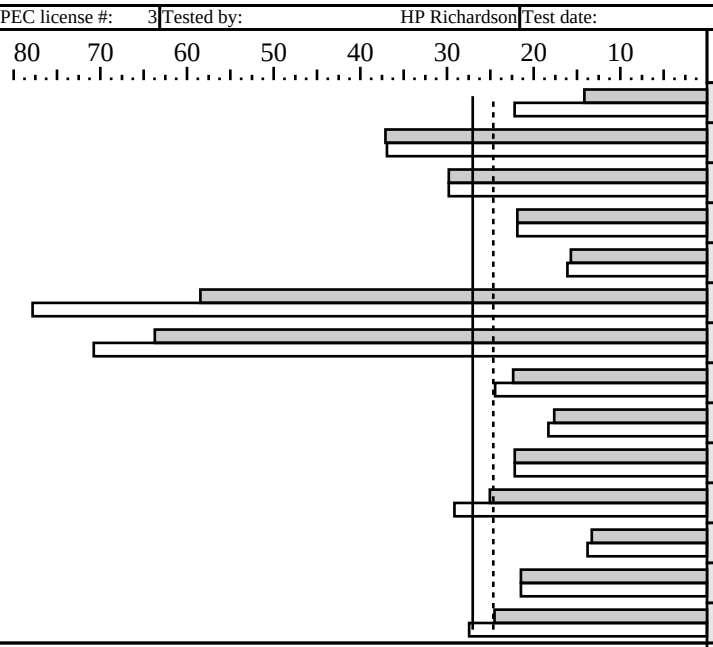
Hewlett-Packard Company

hp server rx5670 (1000 MHz, Itanium 2)

SPECfp_rate2000 = 27.0

SPECfp_rate_base2000 = 24.7

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	2	262	14.1	2	167	22.2
171.swim	2	194	37.1	2	195	36.9
172.mgrid	2	140	29.8	2	140	29.8
173.applu	2	223	21.9	2	223	21.9
177.mesa	2	207	15.7	2	202	16.1
178.galgel	2	115	58.5	2	86.5	77.8
179.art	2	94.7	63.7	2	85.2	70.8
183.equake	2	135	22.4	2	123	24.4
187.facerec	2	250	17.6	2	241	18.3
188.ammp	2	230	22.2	2	230	22.2
189.lucas	2	185	25.1	2	159	29.1
191.fma3d	2	367	13.3	2	354	13.8
200.sixtrack	2	119	21.5	2	119	21.5
301.apsi	2	246	24.5	2	220	27.4

Hardware

CPU:	Intel Itanium 2
CPU MHz:	1000
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 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):
```

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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
```