CFP2000 Result

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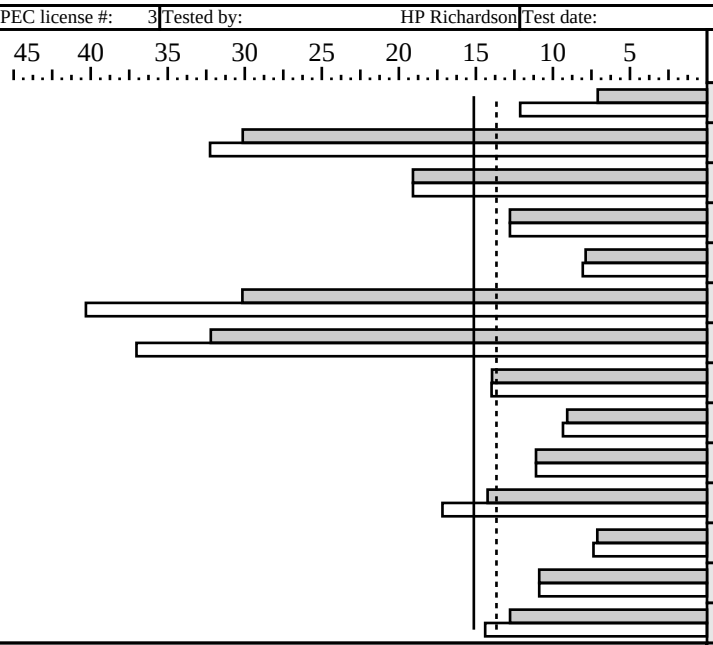
Hewlett-Packard Company
hp server rx5670 (1000 MHz, Itanium 2)

SPECfp_rate2000 = 15.1

SPECfp_rate_base2000 = 13.7

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	1	262	7.09	1	153	12.1
171.swim	1	119	30.1	1	111	32.3
172.mgrid	1	109	19.1	1	109	19.1
173.applu	1	190	12.8	1	190	12.8
177.mesa	1	206	7.88	1	201	8.06
178.galgel	1	112	30.2	1	83.5	40.3
179.art	1	93.7	32.2	1	81.5	37.0
183.equake	1	108	14.0	1	108	14.0
187.facerec	1	243	9.07	1	236	9.35
188.ammp	1	230	11.1	1	230	11.1
189.lucas	1	163	14.2	1	135	17.2
191.fma3d	1	342	7.12	1	331	7.37
200.sixtrack	1	117	10.9	1	117	10.9
301.apsi	1	236	12.8	1	209	14.4

Hardware

CPU:	Intel Itanium 2
CPU MHz:	1000
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:	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
```