



CFP2000 Result

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

SPECfp2000 = 1305
SPECfp_base2000 = 1178

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	262	611	153	1045	
171.swim	3100	119	2598	111	2780	
172.mgrid	1800	109	1645	109	1645	
173.aplu	2100	190	1103	190	1103	
177.mesa	1400	206	679	201	695	
178.galgel	2900	112	2600	83.5	3475	
179.art	2600	93.7	2776	81.5	3192	
183.earthquake	1300	108	1203	108	1205	
187.facerec	1900	243	782	236	806	
188.amp	2200	230	957	230	957	
189.lucas	2000	163	1228	135	1480	
191.fma3d	2100	342	614	331	635	
200.sixtrack	1100	117	939	117	939	
301.apsi	2600	236	1102	209	1241	

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.ammpp  : 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