OMPM2001 Result

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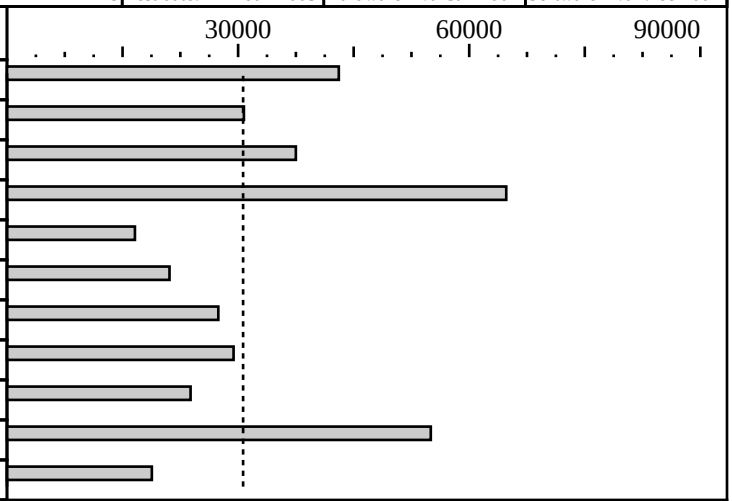
NEC
NEC TX7 i9510 (1500MHz, Itanium 2)

SPECompMpeak2001 = --

SPECompMbase2001 = 30649

SPEC license #: HPG0057A | Tested by: HLRS | Test site: HLRS | Test date: Jan-2005 | Hardware Avail: Jan-2004 | Software Avail: Dec-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
310.wupwise_m	6000	139	43072		
312.swim_m	6000	195	30753		
314.mgrid_m	7300	195	37496		
316.applu_m	4000	61.7	64807		
318.galgel_m	5100	307	16605		
320.equake_m	2600	123	21095		
324.apsi_m	3400	124	27430		
326.gafort_m	8700	296	29411		
328.fma3d_m	4600	193	23829		
330.art_m	6400	116	55011		
332.ammp_m	7000	372	18801		



Hardware

CPU:	Intel Itanium 2
CPU MHz:	1500
FPU:	Integrated
CPU(s) enabled:	32 cores, 32 chips, 1 core/chip
CPU(s) orderable:	8-32
Primary Cache:	16KBI + 16KBD (on chip) per CPU
Secondary Cache:	256KB (on chip) per CPU
L3 Cache:	6.0MB (on chip) per CPU
Other Cache:	N/A
Memory:	512 GB
Disk Subsystem:	Seagate ST373307LC
Other Hardware:	None

Software

OpenMP Threads:	32
Parallel:	OpenMP
Operating System:	NEC Linux 3.4
Compiler:	Intel(R) Fortran Compiler for Linux 8.1 Build 20041123 Intel(R) C++ Compiler for Linux 8.1 Build 20041123
File System:	ext2 filesystem
System State:	Multi-user

Notes/Tuning Information

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Tested by HLRS
 Baseline optimization flags:
   C programs:       -openmp -O3 -IPF_fp_relaxed -ipo -ansi -ansi_alias (ONESTEP)
   Fortran programs: -openmp -O3 -IPF_fp_relaxed -ipo (ONESTEP)

 Portability Flags:
   318.galgel_m: -FI -132

 Extra Flags:
   330.art_m: -DINTS_PER_CACHELINE=32 -DDBLS_PER_CACHELINE=16

 Baseline user environment:
   OMP_NUM_THREADS 32
   limit stacksize 64000
   KMP_STACKSIZE 31M
   KMP_LIBRARY TURNAROUND
   OMP_DYNAMIC FALSE
   KMP_SCHEDULE static,balanced


 For all benchmarks threads were bound to cores using the following submit command:
 fplace -r -o 1,2 $command,
 This  instructs fplace to skip placement of the lightweight
```

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Notes/Tuning Information (Continued)

OpenMP monitor thread, which is created prior to the slave threads.

For a description of HLRS's compiler flags, portability flags, and system parameters used to generate this result, please refer to the HLRS-20050119-Linux-Intel8.1-IPF.txt file in the flags directory.