OMPM2001 Result

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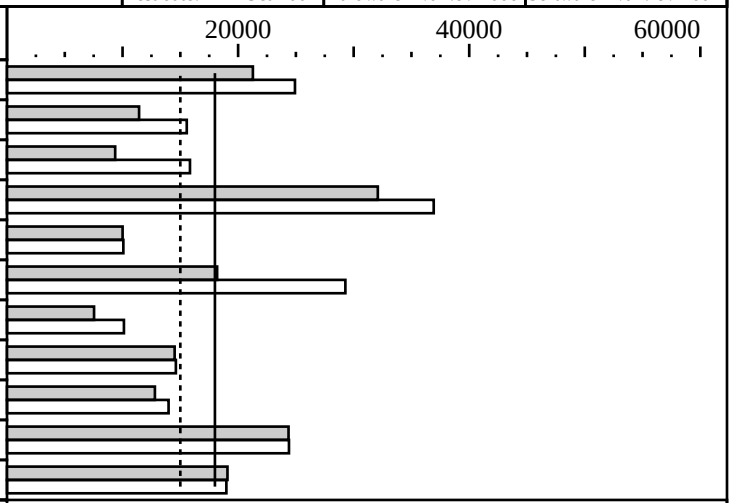
Unisys ES7000/1

SPECompMpeak2001 = 17994

SPECompMbase2001 = 14999

SPEC license #:	HPG0013A	Tested by:	Intel Corporation	Test site:	--	Test date:	Oct-2007	Hardware Avail:	Nov-2006	Software Avail:	Nov-2007

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
310.wupwise_m	6000	282	21279	241	24920
312.swim_m	6000	525	11430	386	15557
314.mgrid_m	7300	780	9362	461	15834
316.applu_m	4000	125	32090	108	36927
318.galgel_m	5100	510	10003	507	10069
320.equake_m	2600	143	18185	88.8	29282
324.apsi_m	3400	451	7534	336	10119
326.gafort_m	8700	600	14508	595	14613
328.fma3d_m	4600	359	12799	329	13983
330.art_m	6400	263	24364	262	24401
332.ammp_m	7000	367	19079	369	18984



Hardware

CPU:	Dual-Core Intel(R) Xeon(R) Processor 7140M
CPU MHz:	3400
FPU:	Integrated
CPU(s) enabled:	64 cores, 32 chips, 2 cores/chip
CPU(s) orderable:	1-32 chips
Primary Cache:	32KB(I)+32KB(D)/core on chip
Secondary Cache:	4096KB/chip (I+D) on chip
L3 Cache:	16MB/chip
Other Cache:	N/A
Memory:	128 GB
Disk Subsystem:	SCSI
Other Hardware:	

Software

OpenMP Threads:	32
Parallel:	OpenMP
Operating System:	SUSE Linux Enterprise Server 10 (x86_64)
Compiler:	GCC 4.1.0
File System:	Linux ext3
System State:	Default

Notes/Tuning Information

```
Baseline optimization flags:
 COPTIMIZE = -O3 --fopenmp -ansi -fwhole-program -combine
 FOPTIMIZE = -O3 -fopenmp


export KMP_LIBRARY=turnaround
export KMP_STACKSIZE=31M
export KMP_BLOCKTIME=infinite
export OMP_DYNAMIC=FALSE
export KMP_STACKSIZE=31m
ONESTEP=yes
ulimit -s 1048576


base tuning
  export KMP_AFFINITY=none
peak tuning
   export KMP_AFFINITY=compact,1
   export KMP_CPUINFO_FILE=/etc/cpuinfo

   Portability Flags:
       318.galgel_m: -ffixed-form -ffixed-line-length-132
```

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Notes/Tuning Information (Continued)

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


    New alternate sources
       mgrid standard conformance to OpenMP 2.5; src.alt/intel

    Intel replacement library for libgomp.so
        -L/opt/intel/cce/10.1.008/lib -liomp5

Flags file: Intel-ic10.1-intel64-linux-flags-file-20071211.html
```