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Benchmarking AMD64 and EMT64

Wednesday, 15 February 2006 16:00 (20 minutes)

We report on the ongoing evaluation of new 64 Bit processors as they become available
to us. We present the results of benchmarking these systems in various operating
modes and also measured the power consumption. To measure the performance we use HEP
and CMS specific applications including: the analysis tool ROOT (C++), the MonteCarlo
generator Pythia (FORTRAN), OSCAR (C++) the GEANT 4 based CMS detector simulation
program and ORCA(C++) the CMS event reconstruction program. Processors we tested
include: single and dual core AMD Opteron AMD64 processors at various clock speeds
Intel Xeon EMT64 processors AMD Athlon AMD64 processors

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