Dona L. Crawford
Associate Director Computation
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As Associate Director for Computation at Lawrence Livermore National Laboratory (LLNL), Dona L. Crawford is responsible for a staff of roughly 1000 who develop and deploy an integrated computing environment for terascale simulations of complex physical phenomena such as understanding global climate warming, clean energy creation, biodefense, and non-proliferation. This environment includes high performance computers, scientific visualization facilities, high-performance storage systems, network connectivity, multi-resolution data analysis, mathematical models, scalable numerical algorithms, computer applications, and necessary services to enable Laboratory mission goals and scientific discovery through simulation. An icon for the computing environment provided is the Advanced Simulation and Computing (ASC) Program's BlueGene/Q Sequoia machine (peak 20 quadrillion floating-point operations per second (PF)). This is among the fastest computers in the world.

Prior to her LLNL appointment in July 2001, Ms. Crawford was with Sandia National Laboratories since 1976, serving on many leadership projects, including the Accelerated Strategic Computing Initiative (ASCI), the Nuclear Weapons Policy Board and the Nuclear Weapons Strategic Business Unit.

Ms. Crawford has served on advisory committees for the National Research Council, the National Science Foundation, and the Council on Competitiveness. She is active in the conference series for high-performance computing, networking, storage, and analysis (SC 20xy). She is also on the Civilian Research and Development Foundation (CRDF) Board, is a member of the Institute of Electrical and Electronics Engineers (IEEE) and the Association for Computing Machinery (ACM), and participates in community outreach activities to promote math and science.