Keynote Address

High-Performance Computing and Communications

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This talk will describe the Presidential initiative on High-Performance Computing and Communications and the strategic vision that it brings. The topics to be covered include the principal participating agencies, the major components of the program, and the significant goals and objectives.

One of the less obvious aspects of the initiative is its underlying strategy. Through its technological thrusts, the program is designed to achieve a unification between: scientific and business computing, technology and application, computing and communications. In the process, it will add new dimensions to computing, networks and their applications. Visualization is one of the key areas that will be profoundly affected by both the technological advances and the increased access to high-performance computing and communications.

Biographical Sketch

Eugene Wong is Associate Director for Industrial Technology in the White House Office of Science and Technology Policy (OSTP). He has served since April 1990 as an Associated Director of OSTP, nominated by President Bush for that position in January 1990 and confirmed by the U.S. Senate on April 4, 1990. His initial responsibility was for Physical Sciences and Engineering, and he assumed his present duties on October 1, 1991. Before going to Washington, he had served in a dual capacity as Professor and Chairman in the Department of Electrical Engineering and Computer Sciences at the University of California, Berkeley.

Dr. Wong began his research career in 1955 with IBM where he served until 1956 and again from 1960 to 1962. He served as Assistant Professor from 1962 to 1965, an Associate Professor from 1965 to 1969, a Professor from 1969, and Chairman from 1985 to 1989, all in the Electrical Engineering and Computer Sciences Department at the University of California, Berkeley. In addition, he has been a consultant to several leading U.S. corporations and was a founder of INGRES Corporation, a major software company. From 1980 to 1990, he helped to develop INGRES into a company with 1,400 employees and annual revenues of $170 million.

Dr. Wong has been a National Science Foundation Fellow, a Guggenheim Fellow, a Vinton Hayes Fellow at Harvard, and a Miller Professor at Berkeley. He was elected to the National Academy of Engineering in 1987.

Dr. Wong received his B.S., A.M. and Ph.D. degrees in Electrical Engineering from Princeton University in 1955, 1958, and 1959 respectively. His areas of research include stochastic processes and database management systems.

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