

Network Computing

L. Mackert

IBM

Pascalstr. 100, D-70569 Stuttgart, Germany

lmackert@vnet.ibm.com

Abstract

Network Computing, the third wave of computing, is quickly evolving, revolutionizing the way we do business and the way we live. The change will even be more profound than with the first two waves, i.e. mainframes and PCs. With Network Computing, information, applications, computing power, and a large variety of services will be accessible through the network, so that the network effectively becomes the information repository, the computer, the database, and the service provider. The most prominent example is the Internet, strongly demonstrating the inherent opportunities and the speed of deployment of this wave of computing.

Technology is a key driver for network computing. The basis are high speed networks carrying data, voice, and multimedia on a single powerful network. The existing protocols are being revisited in order to accommodate new requirements such as realtime information streams, virtual networks, distributed routing and flexible, efficient administration and management of these networks.

The presentation discusses these trends from a market and industry perspective and identifies areas where research is ongoing and needed in order to quickly leverage the benefits of network computing.