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## Introduction

Intranet Web servers, centralized file and compute servers, data warehousing, groupware, medical imaging, CAD/CAM applications, 3-D modeling, animation, video, pre-press applications, server farms, seismic processing...

The list goes on and on. The demand for high-speed network connections is proliferating at a pace almost as rapid as the speed requirements of the applications themselves. Evidence is everywhere: the rapid acceptance of 10/100 Mbps connections on today's desktop computers, Ethernet switching at the department level, and the deployment of Fast Ethernet switches in corporate backbones are a few examples of the need for faster and faster networks.

And still, bottlenecks remain. Server network connections have been limited to 100 Mbps since FDDI was shipping in volume in the late 1980's. Fast Ethernet made it easier to build internetworking products, but did not provide a faster server interface. Today, centralized servers are often configured with multiple 100 Mbps network connections to meet bandwidth requirements. Enter Gigabit Ethernet.

It couldn't happen at a better time. Multimedia over IP is just starting to take off with the proposed IETF standards, real-time transfer protocol (RTP) and resource reservation protocol (RSVP). These protocols, combined with gigabit networks, high-performance desktops, and Internet technology, will quickly change the way corporations access information.

Ethernet. Fast Ethernet. Gigabit Ethernet. Networking made simple!

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