



Mini White Paper

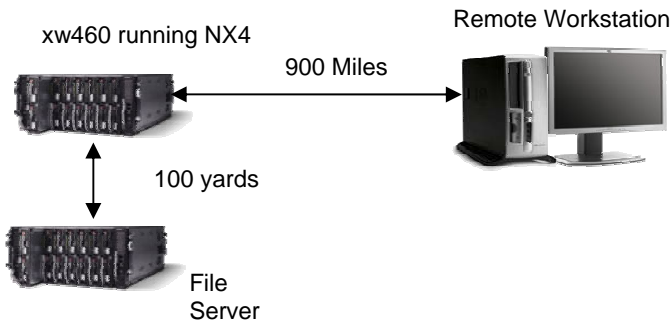
HP Workstations
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Remote Load performance: xw460c/RGS vs. Remote Workstation

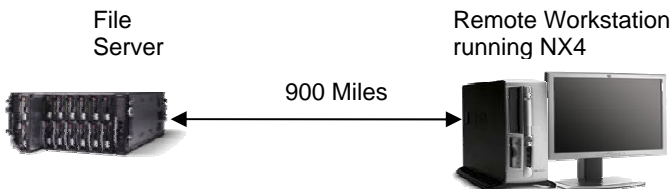
Introduction: One of the advantages of the xw460c Workstation Blade is that it can be located in the back room close to the file servers. While the machine running the RGS receiver can be anywhere in the world, load times for applications running on the xw460c can be very fast.

Example: Consider the following configuration:



In the above configuration, the remote workstation is located in California, while the xw460c and the file server are located in Colorado. Connecting with RGS to the xw460c and running NX4, the loading of an 11.6MByte file from the file server only takes about 37 seconds for the load to complete.

Contrast this to the following configuration where NX4 is running on the remote workstation in California:



In this case, the remote workstation must load the model from the file server across the network from 900 miles away. This time, the model loads in 23 minutes. Your mileage may vary depending on network performance and model size.

Here are some load times for the various configurations tested:

Workstation and xw460c located in Colorado – no file server used

12 seconds

Workstation, xw460c, and file server located in Colorado

35 seconds

Workstation located in California, and xw460c and file server located in Colorado

37 seconds

Workstation located in California running NX4, and file server in Colorado. No xw460c in this configuration

23 minutes 15 seconds

Network: During this time, the network between Colorado and California was running with a 41 msec latency. This allowed us to maintain an average frame rate of close to 6 updates per second while spinning the model. This was a sufficient frame rate to still allow the user to manipulate the model relatively easily.

Summary: The xw460c/RGS solution allows users of CAD applications to work remotely while still maintaining fast load performance, and good interactive performance.