

## Re: Minimum Hardware Requirements

**Source:**

<http://www.tech-archive.net/Archive/Win2000/microsoft.public.win2000.printing/2004-04/0388.html>

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Date: Fri, 23 Apr 2004 11:12:52 -0700

A big resource hit on the print server is the number and type of clients connecting to the server. If all the clients are Win2k or XP the connection protocol type is RPC. Win9x clients connect over SMB. SMB overhead is less since this is like coping a file to a share.

As Tony stated, forcing the clients to render the data, rather than adding this to the server load, will allow greater scalability.

There is a white paper on this but it does not state that with x Win2k clients and y Win9x clients sending 75% EMF and 25% RAW formatted jobs one needs this much ram and this much processing power.

<http://www.microsoft.com/windows2000/technologies/fileandprint/print/scalability.asp>

The hardware required depends on these factors

- Number of clients
- Clients' operating system version
- Number, size, and frequency of jobs
- Type of jobs
- Number of printers
- Type of drivers
- Type of printers

Also review the other white papers at this site for additional print information

<http://www.microsoft.com/windows2000/technologies/fileandprint/print>

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Alan Morris

Windows Printing Team

Search the Microsoft Knowledge Base here:

[http://support.microsoft.com/default.aspx?scid=fh;\[ln\];kbhowto](http://support.microsoft.com/default.aspx?scid=fh;[ln];kbhowto)

## microsoft.public.win2000.printing: Re: Minimum Hardware Requirements

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"Tony Edgecombe" <nospam@nospam.com> wrote in message

news:uhnBNERKEHA.556@tk2msftngpl3.phx.gbl...

> If you are blocked on processor usage you might get an improvement in  
> performance by turning off "Enable advanced printing features" for each  
> printer. This will force the workstations to rip the jobs taking the load  
> away from the server. A potential downside is the print files may become  
> larger although it shouldn't be too bad for the PCL6 driver from HP.

>

> --

> Tony Edgecombe

> [www.frogmorecs.com/ng](http://www.frogmorecs.com/ng)

> Software for printing

>

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> "Wojer" <anonymous@discussions.microsoft.com> wrote in message

> news:570930A0-A608-4040-AA36-054FC62022A5@microsoft.com...

> > I have a Win2k Print server with about 450 print queues on it, all HP  
4000

> and up. We are experiencing some performance problems so I have been  
looking

> at the load on the server and I am trying to figure out if upping the  
> hardware will help. This is what I am seeing please let me know what you  
> think I should be using for hardware.

> >

> > Over a normal 5 hour time period the server is printing about 6000 jobs  
> consisting of about 12000 pages, an average job size is about 1.5MB but  
can

> go as high as 20MB. I would like to have enough headroom to handle a  
40-50%

> increase in volume.

> >

> > Please help Microsoft has NO guidelines to help size print servers - BAD  
> BILL - it only one of the core operations in EVERY company.

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