

# Re: [opensuse] Best CPU for OSS 10.3 Small Home Network Server

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*Source:* <http://linux.derkeiler.com/Mailing-Lists/SuSE/2007-10/msg03787.html>

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- *From:* Aaron Kulkis <[akulkis00@xxxxxxxxxxx](mailto:akulkis00@xxxxxxxxxxx)>
  - *Date:* Sun, 28 Oct 2007 07:24:09 -0400
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kbboykin@xxxxxxxxxxx wrote:

----- Original message -----  
From: Aaron Kulkis <[akulkis00@xxxxxxxxxxx](mailto:akulkis00@xxxxxxxxxxx)>

kbboykin@xxxxxxxxxxx wrote:

Hello All,  
I am going to upgrade my home network server from a

>>> Pentium 4 S478 1.7 Mhz to a S775 MB with 1066 FSB.

I don't want to spend a lot of money. Is a Pentium

>>> D okay as a CPU for this or should I go with the next  
>>> one up? Celeron not good either?

I'm assuming that you're not going to use this as a "compute server" ... something that you submit computationally intensive tasks to from other machines.

On that assumption, to maximize your benefit/cost ratio, you want to use as cheap a CPU as you can find (because even slow CPU's are thousands of times faster than the fastest disk drives), and lots of memory. Further improvement comes from having lots of small (in today's world) disk drives instead of one huge disk ... many disks = more track-seeks that can be performed simultaneously.

Don't buy into the propaganda that CPU speed is the primary determinant of system performance...and that a "server" needs the fastest thing out there. File serving is NOT a CPU intensive task, and printing is a task which CAN BE CPU intensive but is also feeding to a tediously slow physical device...and no CPU in the world is going to speed up your printer.

Re: [opensuse] Best CPU for OSS 10.3 Small Home Network Server

I'm sorry. I went and checked and it has a P3 S478 20

- > Celeron Processor. I have had it so long, I forgot what
- > was in there. No no CPU intensive task. Just to be able
- > to have the kids all connect simultaneously to store
- > and retrieve their stored work from their mobile laptops.
- > I already have the mobo (P4M800PRO-M v2.0), but don't
- > have a CPU. I have enough memory to put 768 MB RAM in
- > it.
- > I also have a P4 2.4 Ghz on a mobo that is \_not\_ SATA
- > and could also put the RAM in it. Before I start to
- > swap out, which is better?

I don't think there will be ANY noticeable difference between the two. First, any file-write is going to be first buffered in memory on the laptop... and then the laptop's OS is going to send the file to your server. The server's two bottlenecks are the network connection, and the disk drives...both of which are slow compared to the operating speed of the CPUs in question.

So, on that basis, do what ever is most convenient for you and which gives you the most flexibility in the future.

Thanks,

Keith Boykin

You are what you think – so always think positively!

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