

## Re: Ultra 1 won't start at all, sometimes

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- *From:* [dnichols@xxxxxxxxxxx](mailto:dnichols@xxxxxxxxxxx) (DoN. Nichols)
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According to Hopla <hopla.tv@xxxxxxxxxxx>:

> Hello everyone,

[ ... ]

> I have an old Ultra 1 Server on which I finally managed to install an

[ ... ]

> Now, I finally got this far and the thing doesn't want to start anymore

>

> some of the time. I hit the powerswitch at the back and \*nothing\*  
> happens, absolutely nothing. Two hours later or a day even, I hit the  
> switch et voilà, it starts making noise! Boots and everything.

>

> I recon it has to do with the PSU, perhaps a fuse that doesn't fit  
> properly anymore? I really can't tell, cause I not very good with  
> electronics and the PSU is all covered up anyway.

>

> Anyone who can help me out?

Well ... it may depend on which version of the Ultra-1, but the one which I have (140 MHz, IIRC) has a small fan mounted over the CPU package, in the middle of a Plexiglass (or other acrylic) structure to guide airflow to the various things which need cooling.

Mine died, and the screen would display "Overtemperature -- shutting down" (or something similar), just about the time that I finished booting from CD-ROM for an install of Solaris 9.

I took it apart, and lubed the fan with instrument oil, but it did not last too long. So -- I pulled it entirely, measured all of the dimensions with digital calipers (IIRC, the MM dimensions were more useful than the inch ones), and dug through my Mouser catalog. I found two which fit as far as dimensions, voltage and all were concerned. One was with sintered bronze bearings, and the other with ball bearings. I opted to spend a bit more for the ball bearing version, and when it arrived, I installed it, and it has since worked perfectly (so far). I got two fan assemblies, so I've got one spare for when it goes out next time.

So -- pull the case open, and power it up. Look for the CPU fan to spin up. If it doesn't you have the same problem. If it doesn't \*have\* a CPU fan, it is a different version of the CPU board (and probably a different speed), and you will have to look for other problem sources.

Best of luck,

Re: Ultra 1 won't start at all, sometimes

DoN.

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Email: <dnichols@xxxxxxxxxxxx> | Voice (all times): (703) 938-4564  
(too) near Washington ~~DC~~; <http://www.d-and-d.com/dnichols/DoN.html>  
--- Black Holes are where God is dividing by zero ---