

## Re: AlphaServer 4100 CPU speed upgrade and/or backplane speed ranges

**Source:** <http://unix.derkeiler.com/Newsgroups/comp.os.vms/2005-08/1351.html>

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**From:** Norman Lastovica ([norman.lastovica\\_at\\_oracle.com](mailto:norman.lastovica_at_oracle.com))

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for certain install all the available VMS patches. it is entirely possible that you've changed timing on the system enough to cause problems that have already been fixed. the TQE format bugcheck sure makes me suspect something in that area.

Duncan Brown wrote:

>

> *Dave Froble wrote:*

>

>> *Like you said, if you're going to run a system, might as well make it a*

>> *good one. :-)*

>>

>> *This is a wild ass guess. I'm not up to speed on some of the larger*

>> *systems. Would the power supplies be an issue? Might the 533 MHz*

>> *boards need more/different power than the 400 MHz boards?*

>

> *Speaking of making it a good one – I have all 3 power supplies*

> *installed! If it needs different power supplies, I haven't found a*

> *reference to that. It's just that I see processor upgrades mentioned*

> *between the two speeds of any given "flavor" of 4100 system, but not*

> *between flavors, which has me wondering if there is some obscure*

> *difference, like a set of backplane termination circuits that is tuned*

> *to the expected processor speeds, or something.*

>

> *I installed DECEvent and perused the error log a bit. (Wow, that sure*

> *goes into scary amounts of detail, compared to the last VMS version*

> *where I studied an error log... I think if I had parked illegally in the*

> *last day, there would have been a line mentioning it in the error log!)*

>

> *The time it crashed after about an hour, it looks like it did so because*

> *of an "Invalid Time Queue Entry Format" whatever that means. The crash*

> *after over a day of uptime left no such clue. There were no entries in*

> *the error log from processor boards in trouble, or anything. Just a*

> *bunch of timestamps and then the reboots.*

>

> *Note that I can't rule out bad hardware. This stuff came from ebay,*

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> *after all... But I thought a multiprocessor machine was supposed to  
> flag and disable bad boards, not just mysteriously crash. And when I  
> started googling on the subject, I could find \*nothing\* that talked  
> about upgrading from a 400MHz board to a 533MHz board in the same  
> machine...and an old post of Hoff's that talked about backplane speed  
> differences between the 5/300 and the 5/400... so I began to think maybe  
> I had done something disallowed, in swapping in the faster boards.*  
>  
> *Duncan*

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opinions expressed here are mine and mine alone  
and certainly are not intended in any way to  
express or represent any opinions or commitment  
of oracle corporation.  
norman lastovica / oracle rdb engineering