

Re: DDR questions

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I sympathize !!

It's getting a bit daft now – i.e. hardware spec's and configuration. I used to find it interesting and reasonably easy to understand but, during the past year or two I haven't had the time to "read up for pleasure" and keep up to date with the various newer motherboard features and marketing CRAP !!!!!

Which leaves me wondering why the "hyperthreading" feature, in the bios, on AMD cpu based / single memory channel Socket 754 boards seems happy to set itself to 800mhz when the board is only fitted with ddr333/pc2700, because it's only fitted with a Sempron 2800 which only requires ddr333 (fsb running at 166mhz),could this be something to do with a quad-pumped "something or other" inside the cpu...LOL !!! ...in other words the marketing CRAP seems always to cause unnecessary confusion !!!

AEONS ago, 72 pin SIMM memory based motherboards used to feature "page interleave" or "memory bank switching" and it was just there – as a necessary hardware design feature – that provided some necessary improvement in performance. ..then it was quietly dropped / or only featured on more expensive motherboards. ...then Intel introduced a Celeron cpu WITH NO Level 2 CACHE ..and people started wondering why their hard-disks sounded like they had terminal flatulence !! :->) ...then .. WOW!!!! ...page interleave came back again as "dual channel"

.... I wouldn't be surprised if the motherboard industry suddenly decided put sockets for memory controller memory on motherboards, and secretly doing away with integrating memory controller circuitry on the cpu itself, ...that seems to be happening nowadays unless I've misread something somewhere !

....and as for Socket 754 going by the wayside, ..for AM2I'm beginning to think that AMD don't deserve my "support" !!!

regards, Richard

"Alon Brodski" <abrodski@xxxxxxxxxxxxxxxxxxxxx> wrote in message

Re: DDR questions

news:e4gPDwVvGHA.1372@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

Hello!

Couple of things are unclear to me about DDR technology.

1) Dual-channel DDR...the memory modules (actually the pairs of 2 identical ones) that are used...Are they REGULAR DDR modules that CAN be used on a single channel Mo-bo just fine in one by one configuration, or are they specially designed for dual-channeling?

My guess-it's the 1st...

2)I heard that the best thing for the PC performance if FSB and memory runs at the same speed.Say 800 MHz FSB and dual-channel DDR400 or 800 MHz FSB and DDR2-800 etc.

So my question is...is it a REQUIREMENT or a preference? In other words,say if I have 400 MHz FSB and DDR333...Can I still use this kinda configuration? Won't it damage anything? or it would work fine,just a little slower only?

Alon