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# Don't Look For Gentoo's CPU Optimization Options To Land In The Mainline Linux Kernel

By *Roy Schestowitz*

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Gentoo's Linux kernel build has long offered various CPU options in allowing those building their distribution to optimize their kernel build to the CPU being used. Every so often the patch is suggested for upstreaming to the mainline Linux kernel before being quickly rejected by the upstream maintainers.

This week the kernel CPU options patch was suggested for mainlining in the Linux kernel. The patch adds extra CPU options to the kernel configuration (Kconfig) area for adjusting the GCC optimization values for various generations of Intel/AMD CPUs. It allows building the kernel ranging from `-march=k8-sse3` to `-march=cannonlake`, among other prominent generations of Intel/AMD processors over the years.

[3]

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