

Better Support & Performance For OpenACC Kernels Is Coming To GCC

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While the GNU Compiler Collection has supported OpenACC for a few years now as this parallel programming standard popular with GPUs/accelerators, the current implementation has been found to be inadequate for many real-world HPC workloads leveraging OpenACC. Fortunately, Siemens has been working to improve GCC's OpenACC kernels support.

GCC's existing OpenACC kernels construct has been found to be "unable to cope with many language constructs found in real HPC codes which generally leads to very bad performance." Fortunately, improvements are on the way and could potentially be mainlined in time for next year's GCC 12 stable release.

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