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C++ evolves!

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High Energy Physics is unthinkable without C++. But C++ is not the language it used to be: today it evolves continuously to respond to new requirements, and to benefit from the streamlined delivery process of new language features to compilers. How should HEP react?

After a short, subjective overview of parallel languages and extensions, the main features of C++11 will be presented, including the new concurrency model. A simple migration strategy for HEP will be discussed. A second theme will focus on structs-of-arrays and limits of auto-vectorization. The evolution of C++ including vectorization and concurrency will be presented.

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