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Geant4 Near and Medium Term Strategy

The Geant4 simulation toolkit is now in the 14th year of its production phase. Geant4 is the choice of most current and near future HEP experiments as their simulation engine.

Geant4 is a still evolving code under continuous development and it keeps aiming at improving physics quality and computational speed and at enriching its functionalities. But Geant4, designed on the computing paradigm of the 90', has to face the major challenge of the evolution and adaptation to the new hardware technologies while still maintaining its usability to the wide user community. The Geant4 Collaboration has identified several options and

possibilities. It has accommodated some of these by providing a multi-threading version based on event-level parallelism. This version, distributed as a prototype today, will become the main distributed product from the next major release, in 2013. In this article we discuss the Geant4 Collaboration development strategy for the coming years.

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