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The challenge of adapting HEP physics software applications to run on many-core cpus

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Computing in these years zero has been caracterized by the advent of "multicore cpus". Effective exploitation
of this new kind of computing architecture requires
the adaptation of legacy software and
enventually a shift of the programming paradigms to massive parallel.
In this talk we will introduce the reasons that brough to the introduction
of "multicore" hardware and the consequencies on system and application
software.
The activities initiated in HEP to adapt current software will be reviewed
before presenting the perspective for the future

2

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He is currently the leader of a R&D project to adapt HEP software to run
efficiently on new multicore computing platforms.

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