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Computing at SuperB

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Developing a computing model for the next generation of Super Flavor Factories, like SuperB and SuperKEKB, present significant challenges.

With a nominal luminosity above $10^{36} \text{ cm}^{-2} \text{ s}^{-1}$, we estimate that, after few years of operation, the size of the data sample will be of the order of 500 PB and the amount of CPU required to process it will be close to 5000 KHep-Spec06.

The new many and multi core technologies need to be effectively exploited in order to manage very large data set and this has a potential large impact on the computing model for SuperB. In addition, the computing resources available to SuperB, as is already the case for LHC experiments, will be distributed and accessed through a Grid or eventually a cloud infrastructure and a suite of efficient and reliable tools need to be provided to the users. A dedicated R&D program to explore these issues is in progress and it is presented here.

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