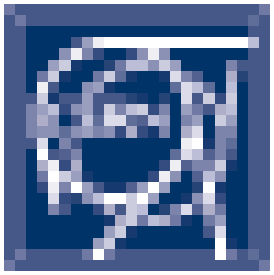

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# Software development for FPGA based cavity controller and simulator SIMCON

*Tuesday 11 October 2005 16:07 (10 minutes)*

The FPGA based cavity simulator and controller provides the features and performance
which is unique in todays control devices used in LLRF system. The software which is
provided for the hardware operation can be used also for algorithms development. It consists of two control enviroments DOOCS and Matlab based. The first one is dedicated for the regular device operation during the experiment. The second one is the main testing tool used during firmware algorithm development. Both systems use unified communication layer designed for FPGA based devices. A possible applicaions of the software environment have been presented.

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