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## Software development for FPGA based cavity controller and simulator SIMCON

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The FPGA based cavity simulator and controller provides the features and performance which is unique in today's 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 environments 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 a unified communication layer designed for FPGA based devices. A possible application of the software environment has been presented.

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