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SIMCON hardware, from 2.0 to 3.1

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Hardware development status for DESY UV-FEL were presented. The SIMCON stands for the microwave, resonant, superconductive accelerator cavity simulator and controller (embracing the hardware and software layers). The current version of the SIMCON is 3.1 which is a considerable step forward from the previous 8-channel version 3.0 which was released at the beginning of 2005 and was made operable in April. The following main differences were implemented in SIMCON 3.1 It is a stand alone VME board (whereas SIMCON 3.0 was modular). It has IP and multiple gigabit optical I/O. It has 10 ADC channels. It bases on the Virtex II Pro 30 chip with two embedded Power PCs and with the DSP blocks. The architecture idea and block diagrams of the PCB for SIMCON 3.1 were presented.

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