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Host-based data acquisition system to control pulsed facilities of the accelerator

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The talk discusses development of the host-based systems for carrying out measurements and data acquisition to control a great number of pulse parameters and pulsed facilities of accelerators. We consider possible modes of timing and allocation of measuring operations and storage, processing and the data output for groups of channels, or tasks. The time period or intensity of operations and the number of the data for the tasks are coordinated with the system characteristics of the channels. Estimations of a period of waiting time and the data-flow rate demonstrate performance of the system. The technique is developed to provide checking of groups of pulse parameters and control the facilities of the linear accelerator of electrons LUE-200 for the neutron source IREN at JINR (Dubna).

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