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Paired Redundant IOCs with Redundant Hardware

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Last year we installed a dual redundant master timing system at LANSCE. A fiber-optic fanout concentrator module acts as a switch to select which timing generator is used to control the accelerator. Each generator consists of two IOCs, which must fail over as a pair. We modified the redundant IOC software from DESY to be able to synchronize some PVs but not others, and allow both IOCs to control hardware simultaneously. If the master stops generating timing signals, our software on the slave first commands the switch and then tells the IOCs to follow suit. I will discuss the modifications we made, and our experience in operating these IOCs.

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