



Redundant IOC improvements by LANL

Goal: Rather than 2 IOCs talking on the same bus, as at DESY. We want to command redundant hardware as part of our new master timer system.

Improvements that may be useful for everyone:

- Added support for syncing field with SPC_DBADDR (waveform records)
 - Modified the Continuous Control Executive (CCEXEC) to support larger fields.
- Made it possible to specify which records should be synced
 - Configurable via info nodes.
 - Modified e2db so that CapFast can be used to configure info nodes.

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Redundant hardware specific improvements

- Added an option to only pause the channel access server instead of the entire IOC.
- Call `post_event` on the slave when the database becomes synced with the master (`CCEXEC_SLV_INSYNC` state) so that passive records can be made to process on the slave.
 - Uses event-driven fanout records.
 - Can control the processing order.
 - Particularly useful for commands.

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