







EPICS Flow of Control: EPICS Workshop at IHEP, Beijing, August 2001





- Set PACT true (processing active)
- ◆ Perform I/O operation
 - For hardware link call device support
 - ♦ For database link
 - ♦ linked records (except scalar NPP NMS input) are in a common lock set.
 - recursive processing may happen
 - inputs processed before data transfer
 - outputs processed after data transfer
 - For channel access link
 - inputs are monitored
 - outputs are handled via a separate task
- Check for record specific alarm conditions

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- Call db_post_event for any fields that change because of record processing
- Request processing of forward link
- ◆ Set PACT false
- ♦ return

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Example CA Put Notify

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- Client issues put notify and flush
- ◆ IOC CA server accepts request
- ♦ dbPutNotify is called
- dbScanLock is called Entire lock set is locked
- ◆ Value is written to record
- Record is processed (if passive and PP true in dbd file)
 A set of records may start and some complete processing
- ◆ dbScanUnlock is called
- When all records complete processing the CA server is notified
- The CA server sends a message back to the client

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