

I2O Callback Thread

- Event data
- DQM histogram data
- Error events
- Init messages

HTTP Callback Thread

- State machine commands (SOAP)
- Consumer requests
- Monitoring webpage

Fragments
(queue)

Commands
(queue)

Fragment Processor Thread

- Process State Machine commands
- Assemble I2O messages into complete events
- Flag events for different consumer
- Distribute events to appropriate queues

Events for consumers
(queues)

DQM histos
(queue)

**Old SM application:
most work
done in a
single thread**

DQM histos for consumers
(queues)

DQM Processor Thread

- Sum histograms from all FUs for each lumi section
- Write the histograms to disk (configurable)

Monitoring Thread

- Collect and update statistics
- Update the InfoSpace

Disk Writer Thread

- Store events into correct stream files
- Provide information for transfer to Tier 0

Events
(queue)