

Welcome!

Need something? Please ask!

Mario Cromaz
Augusto Macchiavelli
Patti Kobayashi

Logistics

Networking, Email

- Room equipped with wireless and wired networking.

Food

- Coffee, snacks available here in morning and at breaks.
- Lunch is available at the cafeteria.
- We plan to have a group dinner this evening at ~7:00
 - Let us know if you would like to go

Tour

- We will take a group down to the cyclotron to see the detector prototype following today's afternoon session.

Workshop Goals

1. Review software components of GRETINA
 2. Provide input for requirements document
 3. Develop action items, assign tasks
 4. Produce a slide report and summary
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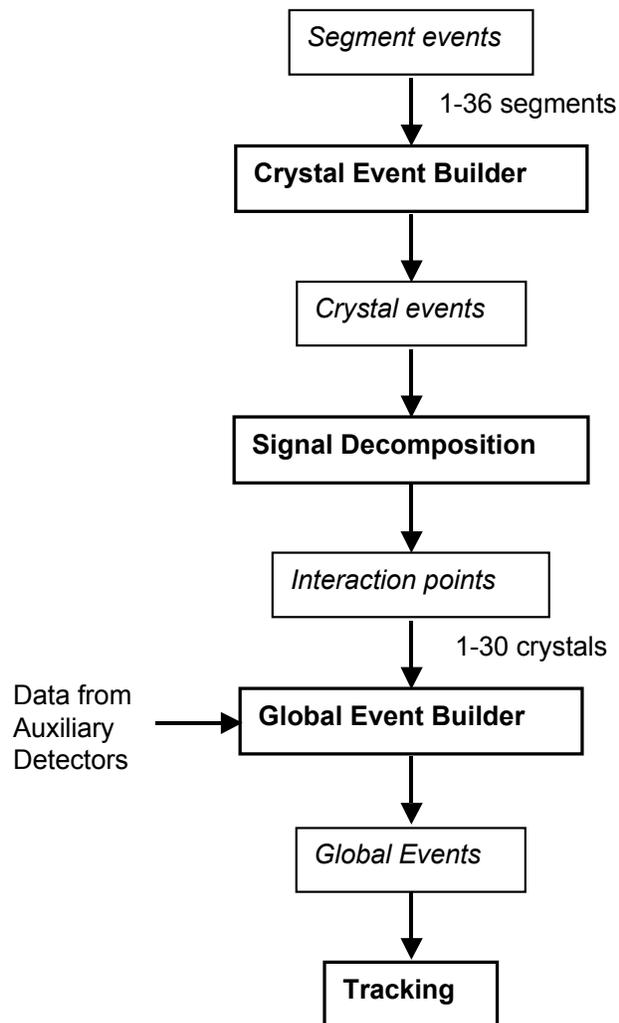
- Meeting is divided into 4 parts:
 - Overview, signal generation, simulation
 - Online data processing (cluster)
 - Controls, readout (non-cluster)
 - Summary, action items
- Each part consists of:
 - Overview talks
 - Extended discussion

Requirements

- Software requirements are an early project deliverable
 - Guides implementation decisions
 - Impacts where software resources are spent
- Some primary computational requirements set in PEP
 - Minimum processed gamma/s: 20000
 - Data storage rate: ≥ 10 MB/s
 - Readout speed: ≥ 10 MB/s/crystal
- Must contain sufficient detail for engineering groups to design system
- Important issues for us:
 - Data rates
 - Bottlenecks
 - Completeness

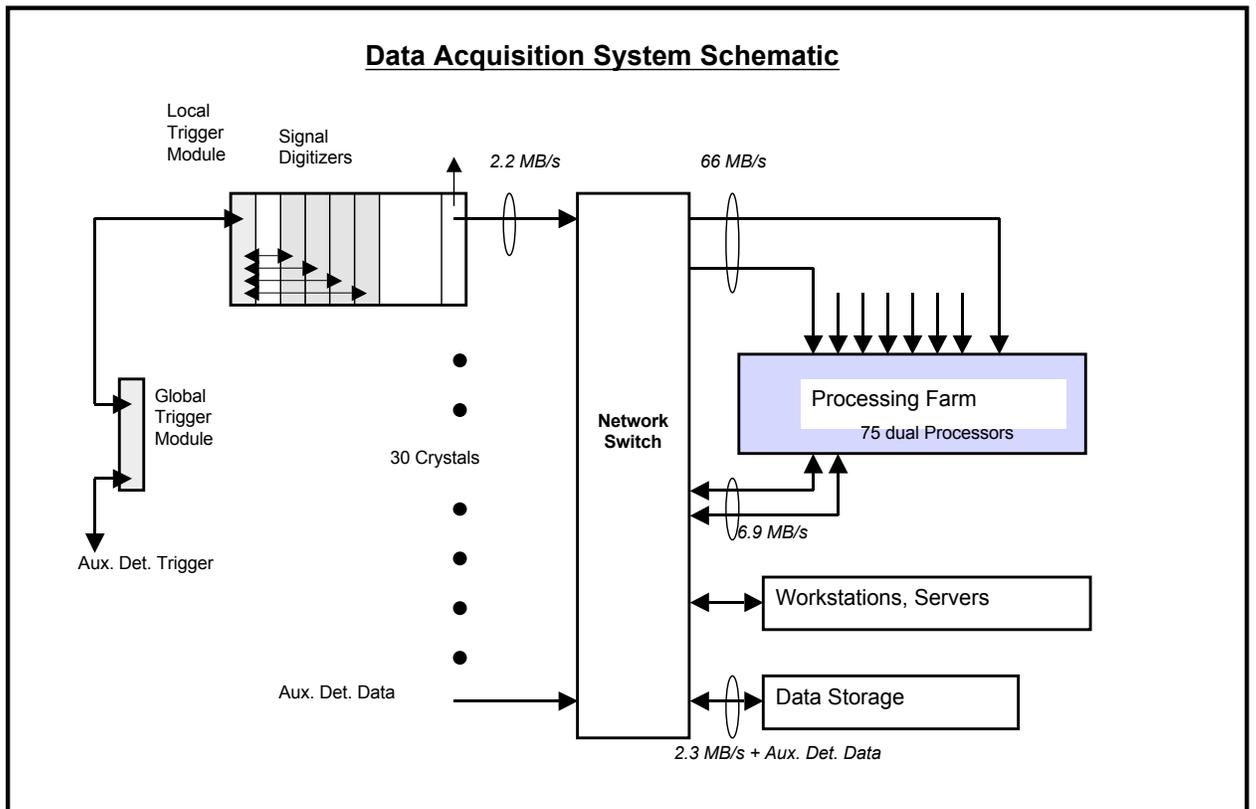
Algorithmic Steps

Event Building Data Flow Diagram



Conceptual Design

- CDR - Goal to develop a workable design / implementation



GRETINA Software Working Group Meeting
Lawrence Berkeley National Laboratory
Bldg. 2, Room 100B

June 22 , Tuesday

8:30-9:00am	Registration
9:00-9:15am	Introduction, workshop goals - Mario Cromaz
9:15-9:45am	Gretina Project Overview - I-Yang Lee
9:45-10:15am	Signal Generation and Simulation - Martina Descovich
10:15-10:30am	Break
10:30am-12:00pm	Discussion (signal generation, simulation)
12:00-1:15pm	Lunch
1:15-1:45pm	Signal Decomposition (David Radford)
1:45-2:15pm	Tracking (I-Yang Lee)
2:15-2:30pm	Event Building (Mario Cromaz)
2:30-2:45pm	Computing Clusters (Gary Jung)
2:45-3:00pm	Break
3:00-5:00pm	Discussion (online signal processing, cluster environment)

June 23 , Wednesday

8:45-9:05am	Physics Cases (Augusto Macchiavelli)
9:05-9:30am	Data Rates (Mario Cromaz)
9:30-10:00am	Controls, Readout System (Carl Lionberger)
10:00-10:15am	Online Analysis Software (TBD)
10:15-10:30am	Break
10:30am-12:00pm	Discussion (rate requirements, readout, controls)
12:00-1:15pm	Lunch
1:15-1:30pm	Summary
1:30-3:30pm	Discuss open questions, develop set of action items, identify people to work on them