University of Oregon
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mini-Workshop
L1 Upgrade Software
Purpose

• Identify work to be done
• Make 'grand design' decisions
• Write down schedule/work plan

Scope

• Production L1Sim code
• Online software used in above (TC, config)
• Other offline software needed (config...)

Schedule

• Thursday - technical details
• Friday - schedule, planning, resources
L1 Simulation Roadmap

- L1 Simulation Module
  - L1 Emittance Module
    - L1 Emitter Module
  - L1 DigiSim Sequence
    - L1 GltDigi
      - L1 DZpdDigi
      - L1 DPtdDigi
      - L1 DBltDigi
      - L1 DZpdDigis
    - L1 GltSimSequence
      - L1 GltMakeDigi
      - L1 FctMakeDigis
      - L1 FAcceptFilter
      - L1 FctDigi
    - L1 EmittanceSimModule
      - L1 EmittanceSimDigi
      - L1 DigiDigi
      - L1 DigiSimSequence
      - L1 GltInputs
    - L1 DigiDigi
      - L1 DctDigi
      - L1 EmittanceDigi
      - L1 DigiDigi
Can we write down a list of these items today?

Needed/Provided online

- Global old (PTD) - new (ZPD) system flag
- LUT board layout?

Global

- Hardcode this??

PTD

- Latency, algo. parameters (phi bins, etc.)
- LUTs, DM algorithm

ZPD

- Stretch details, tick window,
- LUT

TSF

(Not an exhaustive list...)
Question

For simulation, how to switch between old and new?

Partial answer:

Define two sequences, disable one during BeginJob.

But where to get information?

glib answer: LIDictEnv

But where to get information?

GLT Interface

Disable one during BeginJob.

Define two sequences,

Partial answer:

between old and new?

For simulation, how to switch
Need things to be correct the first time...

Expediency is a distinct virtue.

Resources

involved and should be finished ASAP?

Which items have long calendar time?

Schedule

in an efficient and non-disruptive manner?

How do we put this code into production?

Deployment

What extra things are needed for simulation?

What parameters are needed online anyways?

Configuration