



Queen Mary
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Calorimeter trigger offline simulation

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- Update on progress
- What's missing?
- Summary

Progress(1):

◆ **Documentation:**

- ◆ I've made some minor changes to the webpage for release 5.0.0

◆ **Overall:**

- ◆ Made several changes to fix problems caused by Thomas re-organising his code.

◆ **ROD:**

- ◆ Finished
 - ◆ Now reads Jet Rols and produces JEP Slink objects
 - ◆ Adds EnergyRols to JEPSlink objects (EnergyCTP objects produced by EnergyTrigger)

Progress:

- ◆ **Em/Tau Simulation:**

- ◆ **Finished!!!!**

- ◆ **Em/Tau Simulation:**

- ◆ **Finished!!!!**

- ◆ **Energy Simulation:**

- ◆ **Finished*!!!!**

- ◆ (*No FwdJet trigger, but very easy to add ... just need to complete summing algorithm).

Missing Functionality:

- ♦ **No coordinate dependent thresholds**
 - ♦ However TrigT1Calo is designed to support them, and implementation shouldn't be too hard.
- ♦ **No FWD Jet Trigger / Jet E_T**
 - ♦ Again, implentation should be pretty easy but I don't understand how the FCAL is summed into Jet Elements.
 - ♦ Jet E_T – this is mentioned in e.g. Norman's Compendium, but not explained in module specifications.
- ♦ **No noise/BCID etc.**
 - ♦ Beyond scope of my simulation

And finally...

♦ **Todo:**

- ♦ Do some tidying up of code.
- ♦ Continue validation.
- ♦ Check for memory leaks etc. (using valgrind, if I find a computer powerful enough to run it).
- ♦ I'm now concentrating on writing up, but I'll keep maintaining code/web pages etc. and also try and tidy up the code.

♦ **Summary**

- ♦ I'm running some final tests and then I intend to tag release **01-00-00** of TrigT1Calo.
- ♦ I consider it complete enough, and I don't think there's anything vitally important missing.
- ♦ It works in release 5.0.0 and I don't intend to support later releases (or at least, I'll only make trivial changes from now on).