STRESS TESTING THE MU2E TRIGGER

PERFORMANCE REPORT

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Abstract

The Mu2e Trigger has a timing budget of 4 ms per event. This time ceiling must be maintained in unexpected conditions in the detector. I performed various stress tests of the Mu2e trigger in the Offline and Online Environments to assess the timing performance of each art module under stress. I found that the trigger is more vulnerable to memory spikes than CPU spikes...

1   Introduction

The timing budget for the Mu2e trigger is 4 ms per event.

2   Results in Offline World

I stress tested CPU spikes in the Offline World.... Insert results here.

3 Results in Online World

I tested against CPU, MEM, and MEM and CPU in the Online world. I found that the Calo-only trigger... (link to appendix for graphs, show graph of one of the tests in the body)

4 Conclusions

Conclusions go here

Acknowledgments

Thank you Giani and Sarah

References

[1] G. Pezzullo, *Fcl files*, Mu2e docid=xxxx