

Tevatron BPM Upgrade Offline Software Status Report

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Overview

- Things that work now must continue to work.
- What do we mean by offline software:
 - Enormous overlap with online software and DAQ. Overlap with other independent efforts such as SDA and Jean's group.
 - What about this?
 - Identify existing offline applications and port them to be usable by the operators.
 - the stuff Valeri Lebedev talked about a few weeks ago.
 - Preparing the ground for this is probably on project.

Things to Think About

- Understand what data needs what sort of meta data:
 - Needed for both internal consistency testing and for archiving.
 - The ACNET primitive (ie the packed data format describing the BPM info from a house) needs some meta data.
 - An orbit also needs meta-data.
 - Are these the same? Is one a sub set of the other? Who defines what meta-data when?
 - What about an ensemble of orbits?

Things to Think About

- Jean's group is studying improved calibration procedures.
 - Since we need to change lots of things anyway, this is a good chance to give them the hooks they need, even if the hooks are not used immediately.
 - We have an improved instrument, will it require improved calibration procedures?

Things to Think About

- Presume that we will
 - Operate with a mixture of old and new BPM's.
 - Have orbits in the database with all old, mixed and all new.
- We can do much of the work for this before the new data formats are fully defined!
 - May require retro-fitting of data bases and therefore has an impact on both VMS and JAVA.

Things I am Working On

- Will work with Brian Hendricks to annotate his list of programs which will be affected by this change (at request of Jean).
- Will meet with Valeri Lebedev to discuss porting some of his code to be usable by operators (not really on this project but ...)