

bw division to do list

Eric 24/07/204



ECS

FSM **commands** and **states**

**BW division
(TMVA) master
FSM**

**BW division
jobs**

Configure

Configure

Ready

Ready

Start

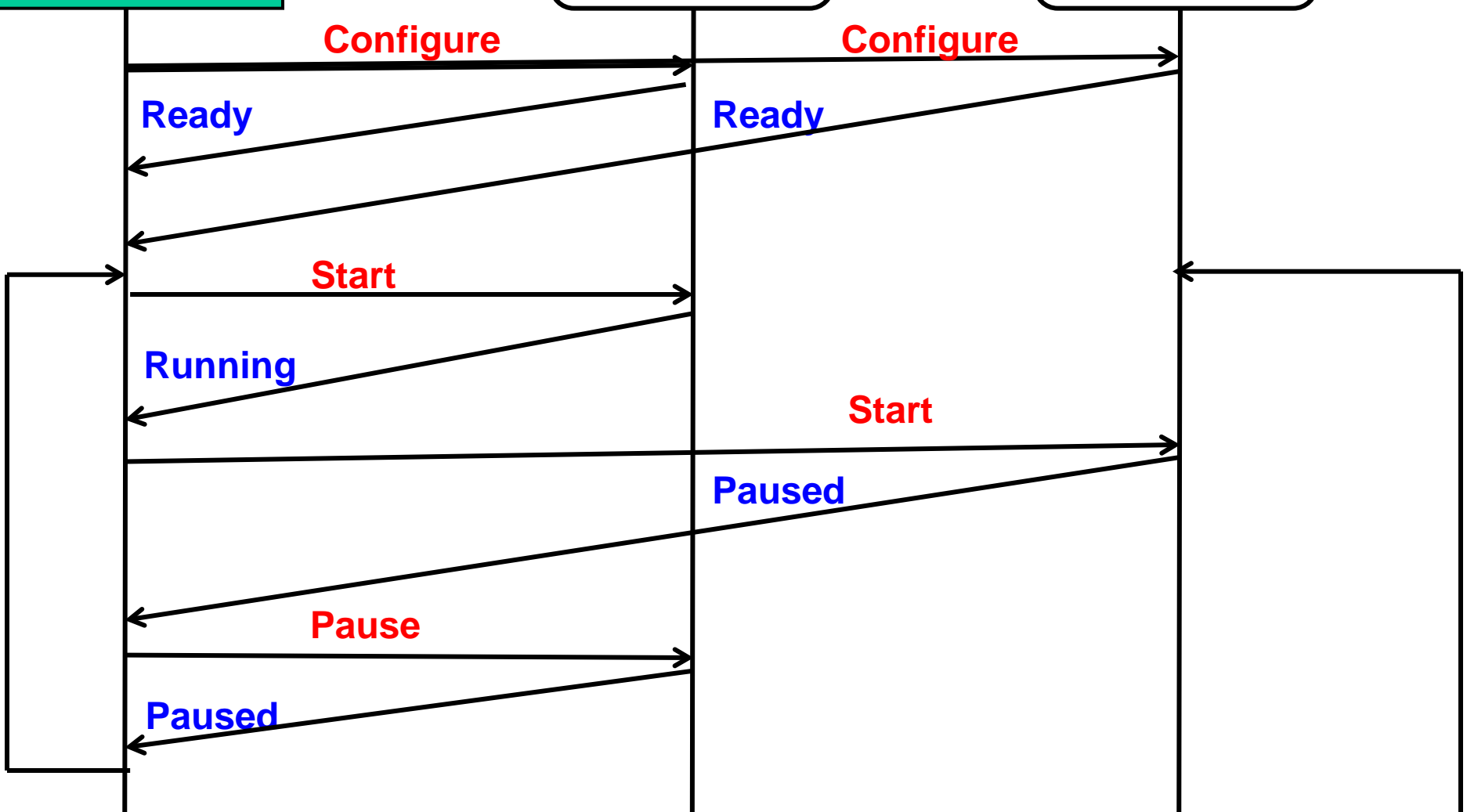
Running

Start

Paused

Pause

Paused



FSM commands and states

- 1. ECS sends configure to BW Master & jobs**
- 2. When Master & Jobs are loaded they sends back the ready state to the ECS.**
- 3. ECS sends start to Master. It writes the parsets file and sends back the running state to the ECS.**
- 4. When the Master is running, the ECS sends start to the jobs. They read the parsets file & run over events, fill histograms and when done, send the paused state to the ECS.**
- 5. When all jobs are in paused, the ECS sends the pause command to the Master. He calculates the X^2 values and sends the paused state to the ECS.**
- 6. When the system is in paused, the ECS sends the start command to the Master for the next cycle.**

BW division master

- ◆ **Compile TMVA-dev on plus and slc6**
- ◆ **Send a vector with X^2 values (fitness) to TMVA (GeneticAlgorithm)**
- ◆ **Extract the counters from the Dim histogram services (instead of from a root file) using**
 - `/cvmfs/lhcb.cern.ch/lib/lhcb/ONLINE/ONLINE_v5r9/Online/GaichoAppl/src/Test/HistTest.cpp`
- ◆ **Copy the FSM from**
 - `~eric/TMVA-dev/test/StandaloneGenetic.cxx`

TMVA modifications

- ◆ **Make a DimInfo that subscribes the GeneticAlgorithm to the master status service (TMVA/status)**
- ◆ **When the master status is 'READY', the GeneticAlgorithm should write out the file with parameter sets**
- ◆ **Some other states may also require actions**

The BW division slave

- ◆ **Miriam to fix L0_noHlt1_histos.py as per Eric's email**
- ◆ **Check that running it online (plus) creates DimServices with histograms**
- ◆ **Add the FSM as shown on slide 2/3**
- ◆ **For how to use pyDim, look on plus at**
 - `/group/hlt/VANDERMEER/VANDERMEER_v5r1/Monitor/BWTest/python/BWTest/runOnlineBWTest.oldpy`
- ◆ **Make a startup script that can be used by the control system**
- ◆ **Do the same for Hlt1**
- ◆ **Integrate L0 & Hlt1 in a single script, or should we run them separately (in parallel?)**

Run control

- ◆ To test, the BW jobs can probably be configured using an “Hlt2 deferred”-like architecture
- ◆ See how to use the OT-scan “step” structure

SPD distributions

- ◆ **Get SPD distributions from NoBias data**
- ◆ **Make a procedure for this**

Testing on plus

- ◆ **Copy the data from castor/lxplus to plus**
- ◆ **Make an architecture**
- ◆ **Check with Markus that the slave startup script runs ok**