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Subject: Event mixing and time stamps in FairRoot/PandaRoot  
Posted by [Mohammad Al-Turany](#) on Fri, 24 Jun 2011 13:19:15 GMT  
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Hallo,

Event mixing and new time stamps are now implemented in the base classes of FairRoot, An example is also available (pandaroot/macro/run/example\_mix), three macros to produce background and two signals are the and a digi macro which take all three files as an input and mix them according to the user setting.

Time stamps can now be set also after simulation from macro:

```
fRun->SetEventMeanTime( Tau);
```

This will create a random time for each event taken from the formula:  $(1/\text{Tau})\text{Exp}(-x/\text{Tau})$ .

The output file contains now additional information about list of tasks used to produce the file, and list (with some info) of input files. In the EventHeader there is also additional information which can be used to figure out later where the event comes from (signal/background).

The old functionality should not be effected, please test it and let me know.

Cheers,

Mohammad