Stripping_FMSS_data_files

Goal: to get sample of rawdata events with enhanced signal(s).

Steps: − prepare list of events (from ntuples, for example)

− run ’select_from_fmss’

Documentation on Web: ’SELEX at WORK’/Tools/’Strip FMSS’

1) Select events from ntuples:

nt_list.kumac − sample kumac

nt_list.f − function to select/write event

Output − in file ’d.list’.

2) Prepare SOAP executable linked with special version of ’event_from_list.F’.

3) Look on list of FMSS files to find directory (like ’mss:e781/pz001/out1’):

less $CALIBRATION_DIR/fmss/e781.mss

4) Run ’select_from_fmss’ (Fbatch/Interactive mode):

select_from_fmss d.list ’mss:e781/pz001/out1’ ’pz001_charm_run0’

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select_from_fmss − steering shell script
process_one_fmss_tape.pl − Perl script for each FMSS tape processing

5) Results:

sel_*<run−min>_<run−max>* − resulting files with selected events produced from each ’HS*’ FMSS tape

process_HS*.log − log files for each ’HS*’ FMSS tape processing

total_stat − file with total processing statistics

HS*/ − copy of temporary working directories − only for double check, could be deleted (contain *.soap_log files for each run, statistics, etc)

Tests

1) Selection of D0 (100−103), D+(200/201), Ds+(300/301) from pass1z:

inp	out	factor	Time

```
  1301K   85K   -> 15.3    04:36  interactive ( 3.5h/1M )
                   ??     fbatch      ( ?.?h/1M )
87023 unq  84808 out
-2264 lst= 84759 inp
```

2) Selection of D0 from strip8a by Jurgen's list:

```
SELECT_FROM_FMSS: Started  at Sun Feb 15 17:31:48 CST 1998
SELECT_FROM_FMSS: Finished at Tue Feb 17 18:49:39 CST 1998
          Took in total       2  1:18 = 49:18

  In total for 13,766,783 input events written 73,270, factor = 188.
                          for requested 81,742
```

Some events were lost due to infinite looping in SOAP,
in what cases jobs were interrupted.

Problems:

- **event number format -> a few extra events**
- **looping in SOAP (strip8a) - manual control, fixing SOAP**