

# Unpacking main difference between versions

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# RAM usage & root tree entries

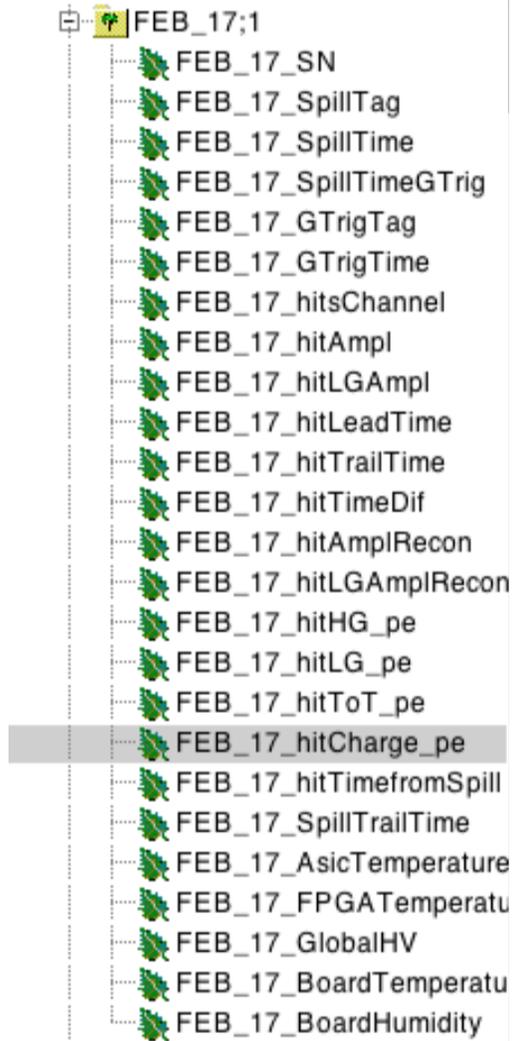
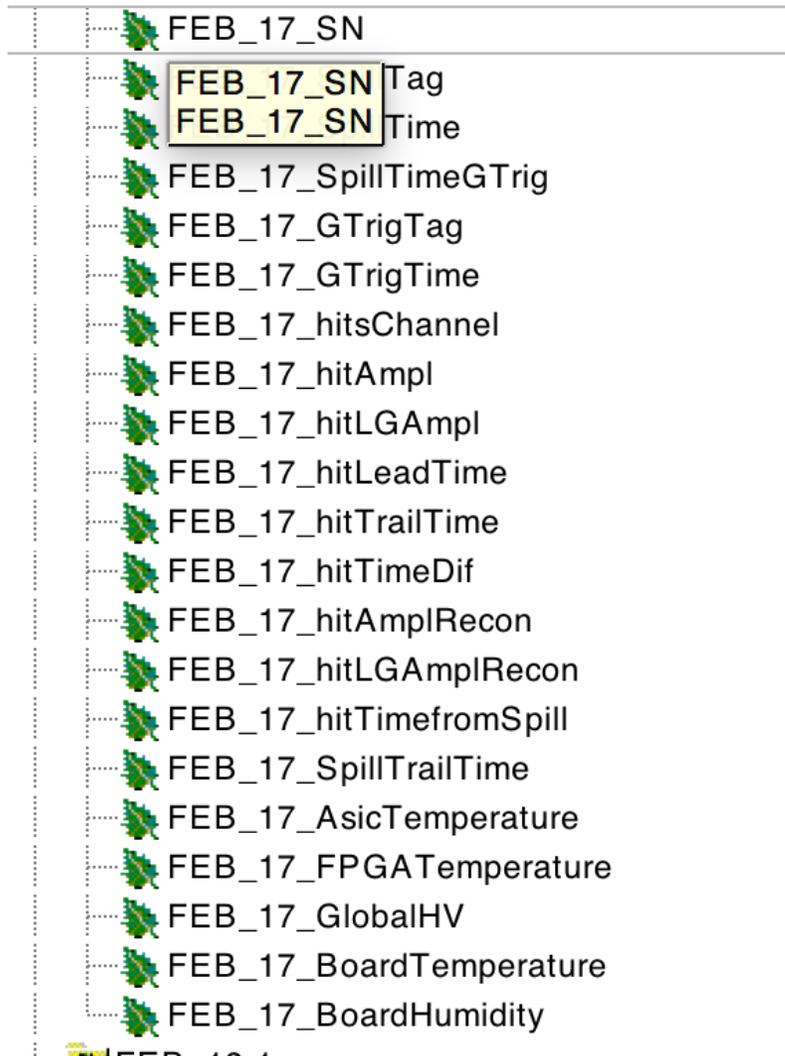
- Unpacking V1

- RAM + swap = (Data file size) x 3;
- All events in data file is one entry in the root tree:
  - Doesn't matter how many spills lost;
  - Synchronization done by GTrigTag.

- Unpacking V2

- RAM + swap = 2GB;
- Each spill is separate entry in the root tree;
  - Each spill should exist like separate entry;
  - Synchronization done by spills, GTrigTag and time from spill start.

# \*\_all.root branches



Added:

```
FEB_*_hitHG_pe  
FEB_*_hitLG_pe  
FEB_*_hitToT_pe  
FEB_*_hitCharge_pe
```

```
if (reconHG_pe>0 && FEB[ih].hitAmpl->at(iev)<3000){  
    FEB[ih].hitCharge_pe.push_back(reconHG_pe);  
} else if (reconLG_pe>0 && FEB[ih].hitLGAmpl->at(iev)<3000){  
    FEB[ih].hitCharge_pe.push_back(reconLG_pe);  
} else {  
    FEB[ih].hitCharge_pe.push_back(reconToT_pe);  
}
```

# Available packages in Unpacking\_\*\_v2.2

- TDM Unpack
- Unpack
- HG vs LG calibration
- HG vs ToT calibration
- LG vs ToT calibration
- Stopping Proton
- T9 root file analysis

# Procedure for analysis:

- TDM unpack
- Unpack
- Put proper calibration in bin/\*\_calib
- HG reconstructed
- Stopping Proton or/and T9 root file analysis (now it is not using any calibration files)

# Stopping proton & T9RootFileAnalysis

- Proton stop

- Line 186

- `int NumberEvDis = 10000;`

NumberEvDis is default number or trigger to check or create Event display.

- T9 root file analysis

- Line 188

- `int NumberEvDis = 10000;`