SW quality shift report

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developers meeting,
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Summary

- Intel not working for BuildBot
  - expected: current intel compiler cannot handle gcc8 with c++17. We're waiting for a new version.
- seg fault in different validation scripts
- caused increase of red plot during the week
  - test0_BBgeneric_Phase2_GENSIMRECtoDST.py
  - test0_BBgeneric_Phase3_GENSIMRECtoDST.py
  - test0_GenericB_GENSIMRECtoDST.py
  - BabayagaNLOBhabhaSimRec.py
  - EvtGenSimRec.py
- Issue solved today
  - Thomas did a b2code-clean. It seems there were some remnants for which the dependencies were not correctly determined.


Packages

- 2|26 analysis »
- 0|1 arich »
- OK background »
- OK bklm »
- OK cdc »
- OK decfiles »
- OK ecl »
- OK eklm »
- OK generators »
- 0|14 reconstruction »
- 0|3 simulation »
- 0|9 svd »
- 0|2 top »
- 0|143 tracking »
- OK validation »
- OK vxd »

Validation Plot overview

- analysis $2/8 \rightarrow 2/8$
- arich $0/0 \rightarrow 0/1$
  - $\Delta\mathcal{L}_{K/\pi}$: probably fine
- ecl $0/4 \rightarrow 0/3$
- recostruction $0/14 \rightarrow 0/14$
- simulation $0/2 \rightarrow 0/2$
- svd $0/9 \rightarrow 0/9$
- tracking $0/121 \rightarrow 0/121$

Improved documentation (sphinx)

- started from epic **BII-2986** [Moving analysis documentation to Sphinx]
- **BII-2978 Continuum suppression** (PR to Ilya, Umberto)
- **BII-3600 Flavor Tagger** (PR to Ilya, Fernando)
- **BII-3602 Vertex Fitter** (PR to Ilya, Luigi, Francesco)
  - Documentation on algorithms is rather poor
- **BII-3641 PID variable documentation** (PR to Ilya, Umberto)
- Pull request sent to relevant people (I hope)
- Still [open]
  - **BII-3547 MVA package documentation** Jochen
  - **BII-3761 Fix broken outgoing links** Ilya
  - **BII-3786 Move ParticleSelector HOWTO over to sphinx and check it's uptodate** (was unassigned, now to Ilya - sorry Ilya)
  - **BII-4044 Improve sphinx documentation for TauDecayMarkerModule** Michel
- No (m)DST description in sphinx!
  - create **BII-4238 to Ilya** (sorry Ilya)
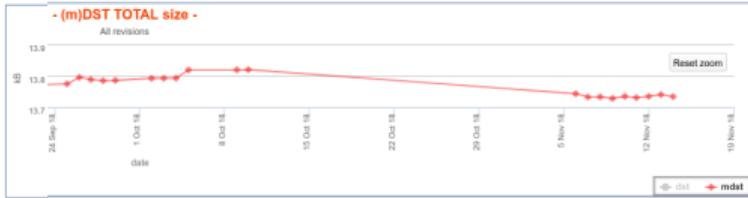
mDST size

mem usage
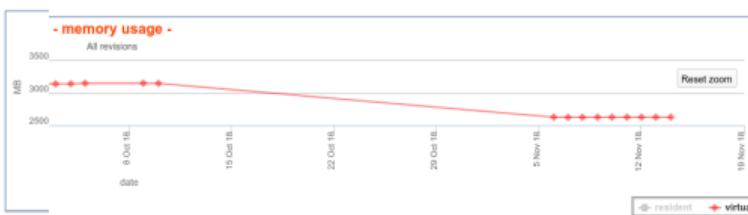
- CPP warning EKLM: $90 \rightarrow 0$
- CPP warning TRG $491 \rightarrow 323$
- (m)DST size stable ($\Delta_{mDST} < 100kb$)
- Virtual memory usage 3.14Gb (10/10) $\rightarrow$ 2.65Gb (15/11)
  - due to valgrind workaround?
- resident stable 1.48Gb