Naming conventions for trending variables and QA WEB directory

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This file explains the definition of the naming convention for trending variables and the QA WEB directory. You can also find a presentation explaining the naming conventions for the trending variables here: `https://indico.cern.ch/getFile.py/access?contribId=4&resId=0&materialId=slides&confId=171449` . As well as a presentation explaining the naming conventions for the QA WEB directory here: `https://indico.cern.ch/getFile.py/access?contribId=3&resId=0&materialId=slides&confId=235865`.

1 Trending variables

1.1 General

- Seperate 'properties' by a '_' :

  Variable name as main identifyer — Statisctics and fit propertie

  Type_ SideA/C_ ChargePlus/Minus_ StatisicType(StatMean/StatRMS/StatChi2/FitSlope/FitMean/FitSigma)_ Err

  SideA/C, ChargePlus/Minus: Further type specifications

  Err: Error of another variable

- Further description:
  Type: Variable name as main identifyer
  SideA/C and ChargePlus/Minus: Further type specifications → Side and particle type
  StatisicType: Statisctics and fit properties
  Err: Indicates that this is an error of another variable with the same name

- IROC vs OROC: Differentiate variables which are different for IRCO's and OROC's by: _ IROC_ or _OROC _

1.2 Special variables

To avoid confusions between similar short cuts for variables please respect the following capital and small letters!!!

- velocity vs voltage

  v = velocity (small)
  V = voltage (capital)

- time vs temperature

  t = time (small)
  T = temperature (capital)

- momentum vs pressure

  p = momentum (small)
  P = pressure (capital)

1.3 Statistic vs Gauß fit variables

Please use the prefix 'Stat' or 'Fit' to diffenrentiate between statistic and Gauß fit variables:

StatMean — FitMean
StatRMS — FitSigma

1.4 Examples

The following examples should illustrate the naming convention and help you to implement it.

1.4.1 QA tree

Old	New
meanTPCnclF	TPCnclF_ StatMean
slopeATPCnclF	TPCnclF_ SideA_ FitSlope
SlopeATPCnclFErr	TPCnclF_ SideA_ FitSlope_ Err
SlopedZAErrPos	dZ_ SideA_ ChargePlus_ FitSlope_ Err

1.4.2 OCDB tree

Old	New
VIROC	V_ IROC
medianVIROC	V_ IROC_ StatMedian
rocGainIROC	rocGain_ IROC
rocGAinERRIROC	rocGain_ IROC_ Err

2 QA WEB directory

The generic path, where everything goes, has to follow this convention:

PATH=$prefix/$datatype/$year/$period/$recopass/$suffix

- with prefix according to the website of the respective institute and detector
- e.g. at GSI:

  Official: prefix = http://www-alice.gsi.de/TPC/PWG1train

  Development: prefix = http://web-docs.gsi.de/~username/TPC/PWG1train

- datatype: datatype = data or datatype = sim (nothing like data_year anymore!)
- suffix: StandardQA or ExpertQA or CalibrationQA or ExpertCalibrationQA

Also to be used by all detectors which will merge trending trees with the TPC

- rootfiles with the trees should have a static name, e.g. trending.root, TRDtree.root, ...