## **Extracting data (the** $\Delta$ **ppm(time))**

- The detector outputs "ppm" and "timestamps" in every 15 sec
- I wrote a short shell script that realign them in columns;

ppm, time (in seconds), error

where error = (±50 + rel. 2%) ppm.

This shell script then gives the table in a text file .

- One could then read this text file by ROOT, Excel, MNFIT, paw, Mathematica...etc.
- I wrote a short ROOT script that:
  - Reads the above text file.
  - Makes a histogram with a given bin width(default is 15 seconds).
  - Save the resultant ROOT histogram to a file.
  - Perform a fit to the distribution (ppm vs time) with a linear polynomial.
  - This can be improved further: calculate/print fitted chi-square value? show in "min" instead of "sec"?

## **Extracting data (the** $\Delta$ **ppm(time))**

- An example fit.
- I'll post the shell and ROOT scripts to our WiKi page.



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