ToF-AMS DAQ

Joel Kimmel
Aerodyne Research
Jose, this is the version you ran at CalNex (3.0.31 or 32) with a new name. It is now a public release, meaning we consider it very stable. Upgrading is not a requirement, but we STRONGLY encourage. (The usual arguments ...)

- **Heavily tested** during CALNEX Campaign
- **Release Notes** outline major Changes
- **Manual** (.pdf) is current
- **Simple Upgrade**
  Requires only the download of .exe
Just want to remind people what support resources exist
This is the first place people should check when they run into a bug. Often, I get emails about known problems that have already been fixed or for which a workaround has been proposed. At present, there are no known bugs for 3.1. So, here I show the archive to demonstrate what the table looks like.
I now keep careful track of changes in the Release notes. When upgrading, you can read about all changes by reading notes for current version back to the last version you ran (that is, the version you are upgrading from). Notes include new features and fixes.
I am still happy to receive emails. But, I have been told that many people do not have email on their AMS computer. So, if on the web, you can send me a note with Control-J from the main screen... opens web-based bug reporting / feature-request form
As the software has grown, so has the number of options. To reduce the complexity of the interface (fewer buttons), many controls have been moved to menus. Most menu options also have key commands.
The process for setting baseline has long been
(1) Measure average (2) Reset baseline offset
... Repeat 1-2 until measured value was close enough to intended baseline bit (for example, 7.01 above is compared to menu value of 7)
You now have the option of having the software repeat this cycle automatically until value is within user-defined precision
A major question after the implementation of the SI mass list was “What masses to include”
New window measures peak probability for all masses and lets you define region to include in list.
These peaks (shown in red) are then used for the ensemble measurement
Bitwise on-the-hour has seen use by some groups. I don’t have a good sense if people are happy with it ....
But, in addition to measuring SI area, one can now have baseline reset (using same auto procedure from Bitwise window)
Mike C reported a problem with this feature at CalNex (first run after hour), but James never mentioned anything similar
Trying to refine Bitwise based on what we have learned ....
Front panel will emphasize the SI Mass List. Including new procedures that threshold the collection of SI peaks and report % lost to each threshold
Work on displays ...
Some new diagnostic windows that John has suggested
Upgrading NIDAQ to be consistent with Tofdaq
- May add TAG features using Tofdaq (save GC data in Tofwerk format)
- Some AMS users run Tofdaq with Sandra or Katrin from Tofwerk for diagnostics