Dear Go4 users,

the new Go4 version 2.8-0 (build 20800) is available now!

Inside gsi, you can select this version by
     ". go4login pro" or just ". go4login"
This command selects Go4 version 2.8-0 with ROOT 4.00/08
and Qt 3.1.1. A rebuild of the user analysis (make clean all) is necessary.

Go4 versions available by ". go4login xxx" are now:
"new"   = v2.8-0 (ROOT 4.00/08, Qt 3.1.1. , with future bugfixes)
"pro"   = v2.8-0 (ROOT 4.00/08, Qt 3.1.1. , from release tarball)
"old"   = v2.7-0 (ROOT 4.00/04, Qt 3.1.1.)
Please see ". go4login -h" for complete list.

For installation outside gsi linux cluster,
the complete Go4 framework v2.8 is downloadable as tarball
at the Go4 website http://go4.gsi.de.

New features in Go4 v2.8 (Sep04)

1. Marker editor in view panel allows for marking
 channels or windows. Labels and arrows can be created. All
 marker elements can be saved/restored.

2. New ROOT graphical editor can be called from view panel.
 The editor dynamically adjusts to the graphical object
 selected by LMB.

3. Viewpanel window title: can optionally be set by user and
 may be kept constant. If a TGo4Picture is displayed, the
 picture name defines the viewpanel title.

4. Condition editor: the cursor mode has been removed because the
 functionality is now provided by the markers

5. Condition, markers and labels: Implemented correct root
 streamer (bugfix), i.e. saving and loading these objects
 in root files is possible with fully recovered functionality
 and graphical properties. Support of pad display in
 lin/log scale (bugfix). Additional controls in RMB menu
 root (set ranges, location, save default properties,
 reset). Default label setup stored with go4 GUI settings.

6. Polygon condition: Implemented statistics functions for
 work histogram under the cut (integral, mean, rms, etc.).

Enabled "InsertPoint/RemovePoint" function in RMB menu (bugfix).

7. Fit GUI: Selection between sigma and FWHM (default) by
   Settings->Recalculate gauss width. Fit results may be
   printed to terminal or Go4 logfile output.

8. 1D drawing: ROOT "L" (line) "C" (curve) "B" (bar chart)
   "P0" (poly-marker) line styles supported.

9. Histograms: re-binning, projections, and profiles
   supported (standard ROOT methods with RMB). Automatic
   "synchronize with memory" on pad click to get newly
   created histograms.

10. Histogram client: monitoring implemented (auto-update).
    Drag and drop support. Display error message when server
    connection is not available (bugfix). Store server
    specification in Go4 settings.

11. File store: Storing objects into a ROOT file a title is
    prompted. This title can be seen in the Go4 browser and
    the ROOT browser.

12. UserObjects folder: With AddObject(...) histograms,
    parameters and conditions can be put into folders of the
    UserObjects folder. They can be located there by the
    standard Get methods, e.g. GetHistogram. Editors work also
    with objects in these folders. Note: object names must
    be unique!

13. Log window: Empty messages are now suppressed (bug fix).

14. QtROOT interface: bug fix concerning initialization
    order of X11 system (ROOT init now before Qt init).
    Lead to crash of the main gui on newer linux systems
    when using Qt versions > 3.1 (FEDORA2, SuSe9.1)

15. Thread manager: bug fix: adjusted default exception
    handling to work with newer libpthread.so that uses
    one process for all threads (e.g. FEDORA2). This lead
    to a crash when go4 threads were canceled
    (shutdown of the go4 GUI).

16. Analysis Framework: bug fix: analysis without analysis
    step (UserEventFunc only) again possible.

17. Client startup script: full PATH and LD_LIBRARY_PATH
    of the Go4 GUI environment is passed to the
    analysis process.

Please contact us in case of trouble;
requests and bug reports are welcome!

Best regards,

the Go4 developer team