

Session Leader Tools

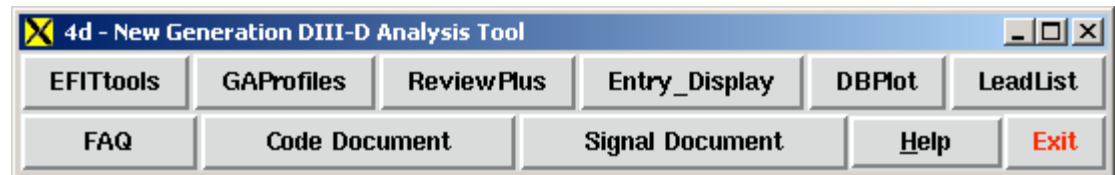
By

The Data Analysis Applications Group (DAAG)

February 2004

LAUNCH 4D FIRST

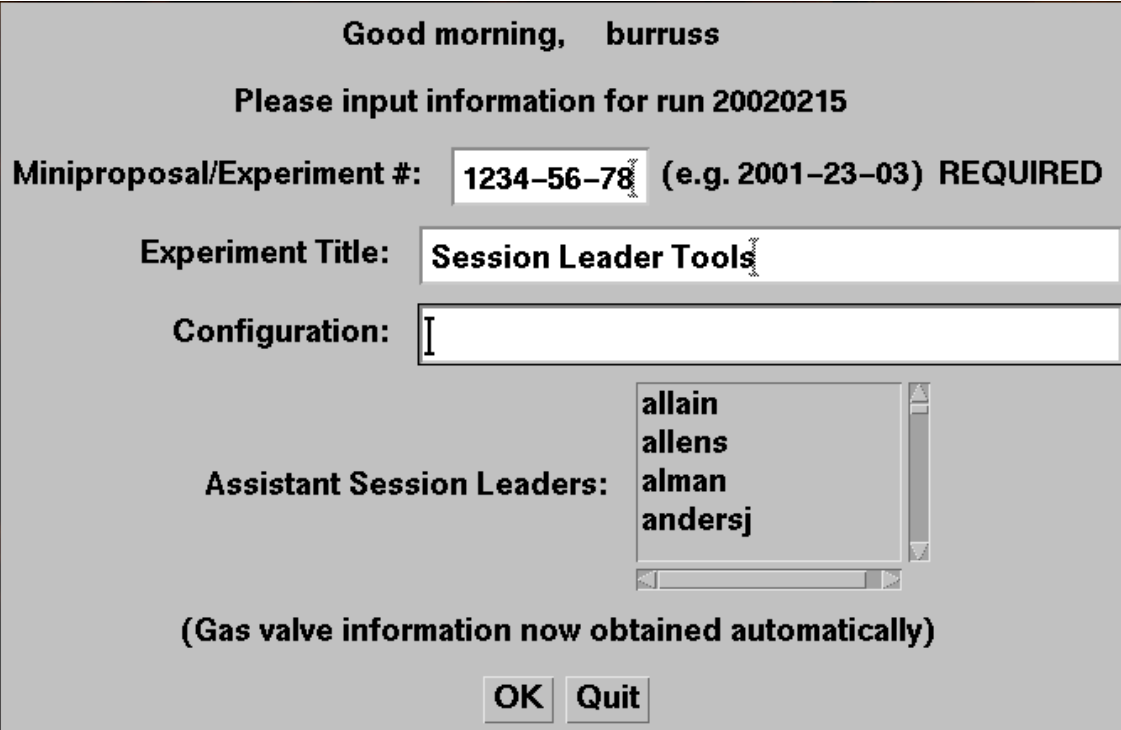
- Type the command `4d` at the UNIX prompt to launch 4d.
- 4d is a group of buttons that can be used to quickly launch several data analysis applications used by session leaders.



- Useful when you forget the name of the program.
- Saves some typing.

RUN **LEADLIST** AT THE START OF THE EXPERIMENT

- Run LeadList to identify yourself as session leader and indicate assistant session leaders.
- Also enter miniproposal number (NOT the date), experiment title, and configuration.



Good morning, buruss

Please input information for run 20020215

Miniproposal/Experiment #: (e.g. 2001-23-03) REQUIRED

Experiment Title:

Configuration:

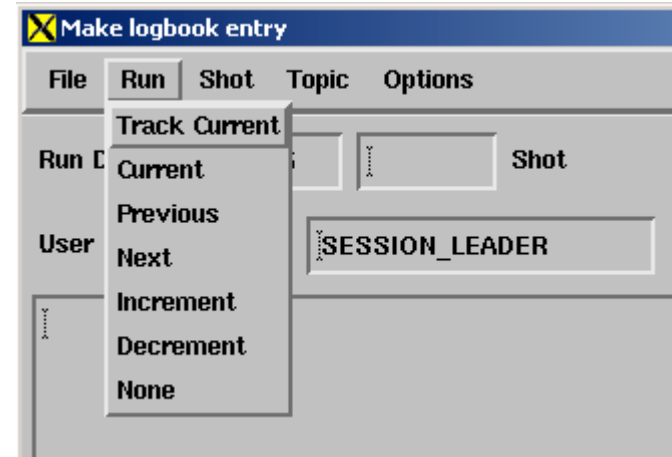
Assistant Session Leaders:

(Gas valve information now obtained automatically)

- To launch LeadList, just press the LeadList button on the 4d toolbar or type **leadlist** at the UNIX prompt.

VIEW AND MAKE ENTRIES USING `ENTRY_DISPLAY`

- Make entries in the Electronic Logbook using `entry_display`.
- Automatically refreshes to display new entries.
- Enter run and shot manually, or select “track current” to make entries for the current run and shot.
- Use status topic for status entries such as “Tokamak is Down” or “Tokamak is back up”.
- Available from 4d, or by entering `entry_display` at the UNIX prompt.



THE EXPERIMENTAL STATUS PAGE HAS SUMMARY INFO

- A snapshot of the current experiment is available at <http://d3dnff.gat.com/summaries/status.asp>
- View run information entered by the Session Leader through LeadList.
- Read recent status and Session Leader entries made through entry_display.
- Useful links section
 - Links to DAM
 - Other summary pages

USE DAM TO MONITOR DATA ANALYSIS CODES

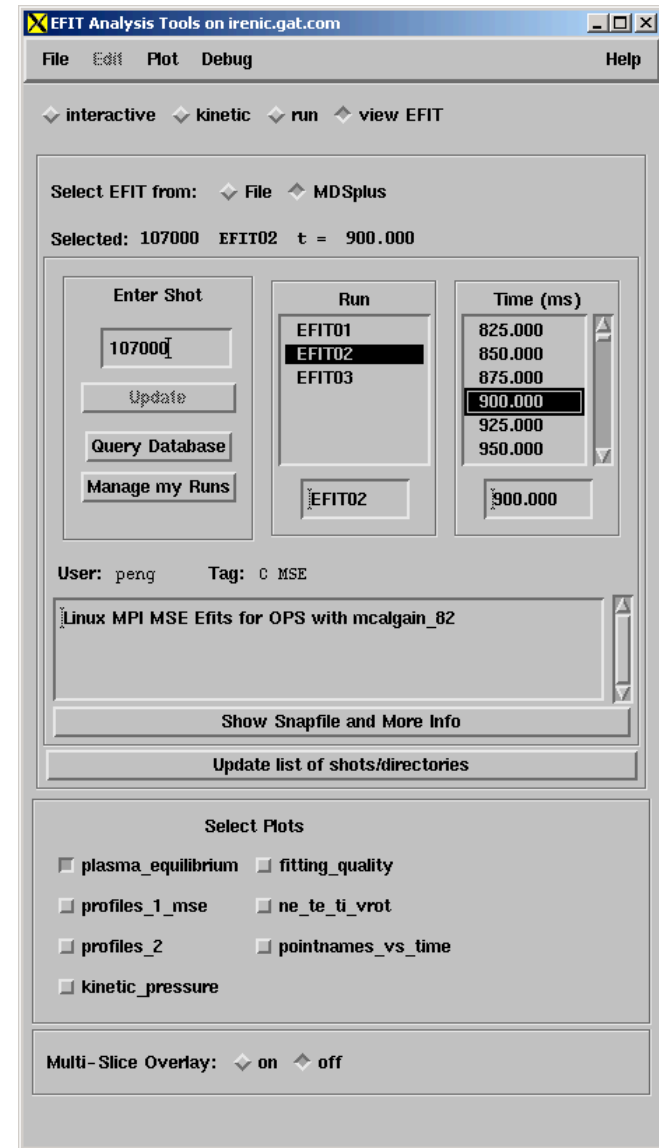
- Available via links on the Experimental Status page, or enter <http://nssrv1.gat.com:8000/dam> directly into your Netscape session (a difficult URL to remember so consider bookmarking).
- Data Analysis codes send DAM their completion status.
 - Failure status indicated in **RED**.
- Click a link to view the logfile of the code.
- Also lets you keep an eye out for codes that are taking too long to complete.
- The page updates automatically.
 - Only supported by Netscape and Mozilla.

PLOT SIGNALS AND POINTNAMES USING **REVIEWPLUS**

- Plot MDSplus signals by entering the tagname.
 - Example: AMINOR
- Plot PTDATA pointnames by entering the pointname.
 - Example: IP
- Not sure what you want to plot? Search the menu of signals and pointnames.
- Also has an autoupdate feature to refresh signals automatically.
- Uses the powerful GA Plot Objects library.
 - Plot multiple signals/pointnames at once.
 - Overlay signals from different shots.
- Available from 4d or by entering **reviewplus** at the UNIX prompt.

VIEW OR RUN EFITS USING EFITTOOLS

- View existing EFITs using EFITTools.
 - Can read from MDSplus or files.
- Plot several EFIT quantities.
 - Can select diagnostic overlays.
- Also uses GA Plot Objects library.
- Not sure which EFIT run you want? Query the database.
- Click the “Manage My Runs” button to view your EFITs.
- Available from 4d or by entering `efittools` at the UNIX prompt.



LIST OF DATA LOADED BETWEEN SHOTS AVAILABLE ONLINE

- **A general overview of how data are loaded into MDSplus between shots is available at**
http://web.gat.com/comp/analysis/mdsplus/mdsplus_between_shot_loading.html
- **A list of the datasets loaded between shots is available at**
http://web.gat.com/comp/analysis/mdsplus/dataset_spreadsheet.html
- **Loader codes typically triggered by one or more phases.**
 - **Example: EFIT02 triggered by NB, MAG, and CO2 phases.**
- **Most of these datasets are loaded by codes that update DAM with status information.**

VISITING RESEARCHERS ASKING FOR HELP? SEND THEM HERE:

- A “getting started page” is available from the DIII-D data page.
 - <http://fusion.gat.com/diii-d/data/started.html>
- A “short list” of important signals is here:
 - <http://web.gat.com/diii-d/data/shortlist.html>
- Let them know about the “DAAG Tools” presentation

QUESTIONS? PROBLEMS? CONTACT THE DAAG

- If you have problems with a particular system, try contacting that machine's administrator first:
 - Justin Burruss = Atlas and D3DRDB
 - Sean Flanagan = NSSRV1
 - Qian Peng = Star cluster
- If you have problems with a particular application, try the responsible officer first:
 - Justin Burruss = entry_display, DBPlot, efitloader, ReviewPlus
 - Sean Flanagan = LeadList, DAM
 - Qian Peng = EFITTools, EFITViewer, REFIT
- Updated contact information will be posted via email and at the Session Leader terminal in the control room.
 - Justin's personal cell phone number has not changed
 - Qian and Sean will checkout GA cell phones, so numbers will probably be different