

# **Session Leader Tools**

**By**

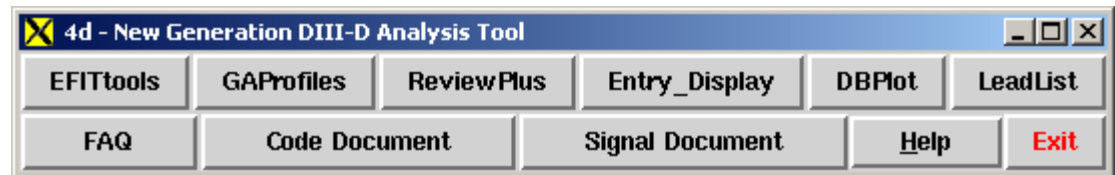
**The Data Analysis Applications Group (DAAG)**

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## LAUNCH 4D FIRST

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- 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.



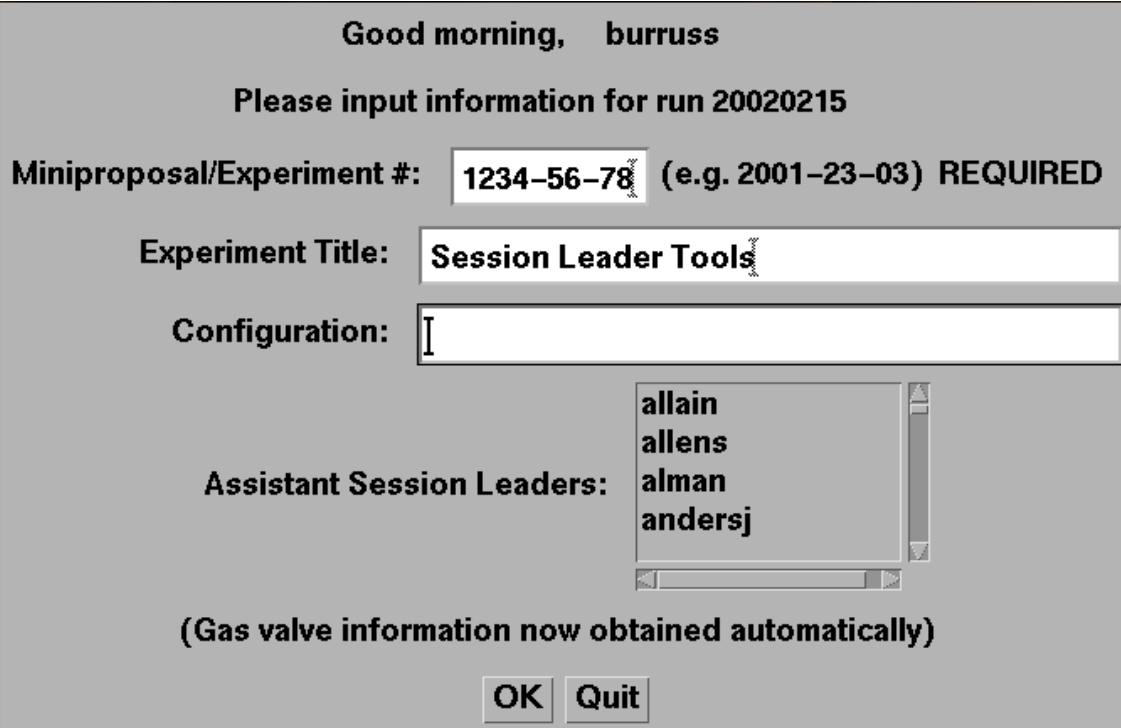
- Useful when you forget the name of the program.
- Saves some typing.

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

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- Run LeadList to identify session leader and assistant session leaders.

- Also enter miniproposal number, 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.

## THE EXPERIMENTAL STATUS PAGE HAS SUMMARY INFO

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- 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.
- Has links to other useful web pages.

## USE **DAM** TO MONITOR DATA ANALYSIS CODES

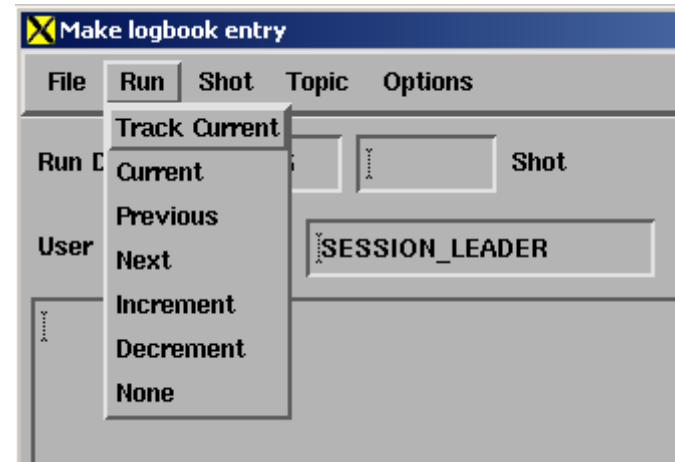
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- Data Analysis codes send DAM their completion status.
  - Failure status indicated in RED.
- Click a link to view the logfile of the code.
- Also lets you keep an eye out for codes that are taking too long to complete.
- The page updates automatically.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

## VIEW AND MAKE ENTRIES USING **ENTRY\_DISPLAY**

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- 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.



## PLOT MDSPLUS SIGNALS AND PTDATA POINTNAMES USING **REVIEWPLUS**

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- 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**

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- 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**

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- **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](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](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.**

## LIST OF KNOWN ISSUES AVAILABLE FROM CTAS

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- **Computing Task Authorization System (CTAS) lists some known issues.**
  - <http://d3dnff.gat.com/ctas>.
- **There are known issues with CERQUICK (CTAS #128).**
  - **Trouble with background subtraction on Linux that is not observed on VMS or HP-UX.**
  - **Trouble seeing the CER VMS disk from Linux.**
- **EFITLoader limit on number of slices (CTAS #161).**
  - **Due to operating system constraints, EFITs with more than ~600 slices can't be loaded into MDSplus.**

## **QUESTIONS? PROBLEMS? CONTACT THE DAAG**

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- **If you have problems with a particular system, try contacting that machine's administrator first:**
  - **Justin Burruss = Atlas (MDSplus) and D3DRDB (SQL RDB)**
  - **Sean Flanagan = NSSRV1 (DAM and Netscape)**
  - **Qian Peng = Star cluster (EFIT, CERQUICK, ZIPFIT)**
  
- **If you have problems with a particular application, try the responsible officer first:**
  - **Justin Burruss = entry\_display, DBPlot, efitloader**
  - **Sean Flanagan = LeadList**
  - **Qian Peng = ReviewPlus, EFITTools, EFITViewer, REFIT**
  
- **Contact information will be posted via email and at the Session Leader terminal in the control room.**