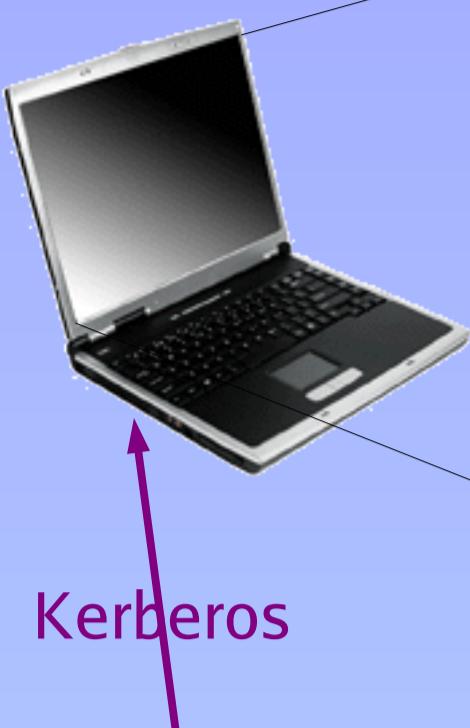


# SINGLE CAF MONITORING

# Command-line monitoring

Real time connections, strong authentication



The diagram illustrates the architecture of the Condor monitoring system. At the top center is a purple box labeled "Head node". A green oval labeled "Condor" is positioned below it. To the right of "Condor" is an orange rectangle labeled "Monitor". Below "Monitor" is a yellow rounded rectangle labeled "Monitoring library". At the bottom left is a drawing of a hard drive. An arrow points from "Log files" (written vertically next to the hard drive) to the hard drive itself. Another arrow points from the hard drive to the "Monitoring library". A double-headed arrow connects "Condor" and "Monitoring library". Arrows also point from "Monitoring library" to both "Monitor" and "XML Monitor" (which is located at the bottom right).

```
graph TD; HeadNode[Head node] --> Condor((Condor)); Condor <--> MonitoringLibrary([Monitoring library]); Condor --> LogFiles[Log files]; LogFiles --> HardDrive[Hard drive]; HardDrive --> MonitoringLibrary; MonitoringLibrary --> Monitor[Monitor]; MonitoringLibrary --> XMLMonitor[XML Monitor]
```

# Web monitoring

# Cache data for faster response

A diagram illustrating a data flow process. At the top right, the text "Web server" is displayed above a rectangular box containing the text "Httpd". To the left of the "Httpd" box is a smaller rectangular box containing the text "Poll every N minutes". A curved arrow points from the "Web server" text towards the "Httpd" box. Below the "Httpd" box is a photograph of a 3.5-inch hard disk drive. A vertical arrow points downwards from the "Poll every N minutes" box to the center of the hard disk drive. A horizontal arrow points from the bottom right corner of the hard disk drive towards the "Httpd" box.

# Extensive system monitoring

The figure displays three side-by-side screenshots of the Condor CAF system overview interface, showing different views of the cluster status:

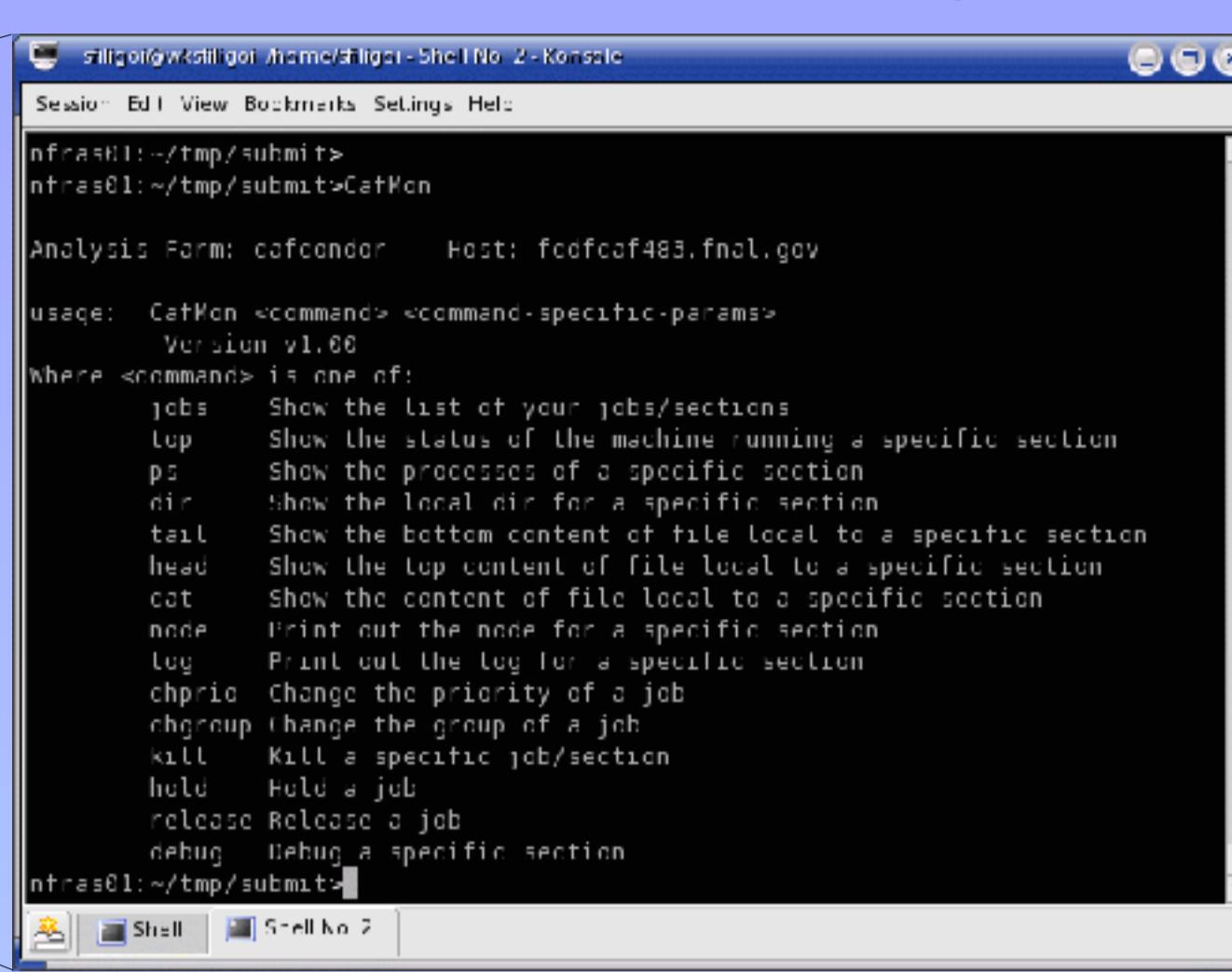
- Screenshot 1 (Left):** Shows a grid of nodes with their names, IP addresses, and status (Claimed or Unclaimed). The nodes are color-coded by status: green for Claimed and yellow for Unclaimed.
- Screenshot 2 (Middle):** Shows a similar grid but includes more detailed information such as Node ID, Status, Load, and User.
- Screenshot 3 (Right):** Shows a detailed table with columns for Node, Status, Load, Node load, Number, Node unclaimed, User, Group, JobSection, Cluster, Start time, and End time. It also features two line graphs at the bottom showing resource usage over time.

# Comprehensive history overview

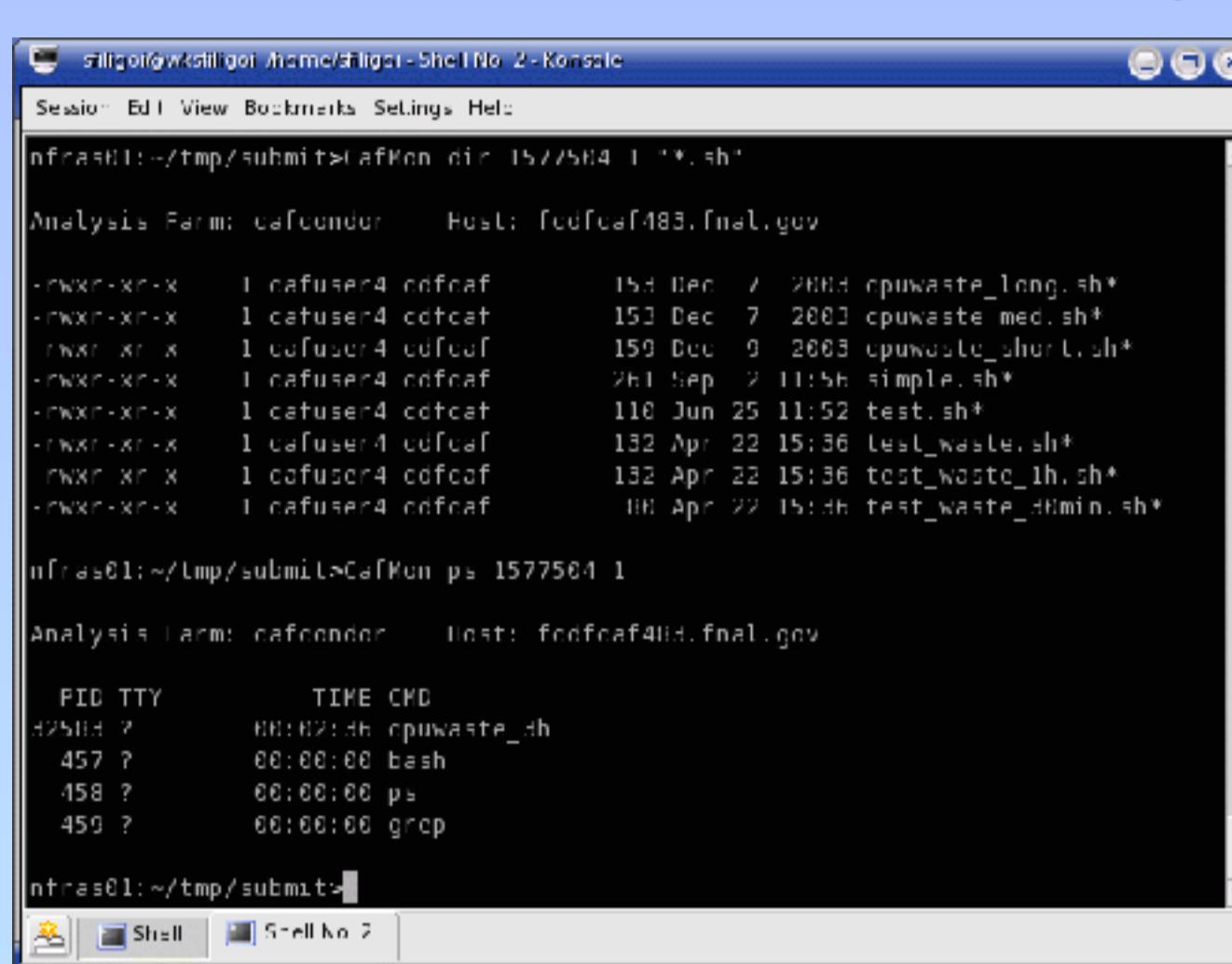
# Various accounting information

plemented

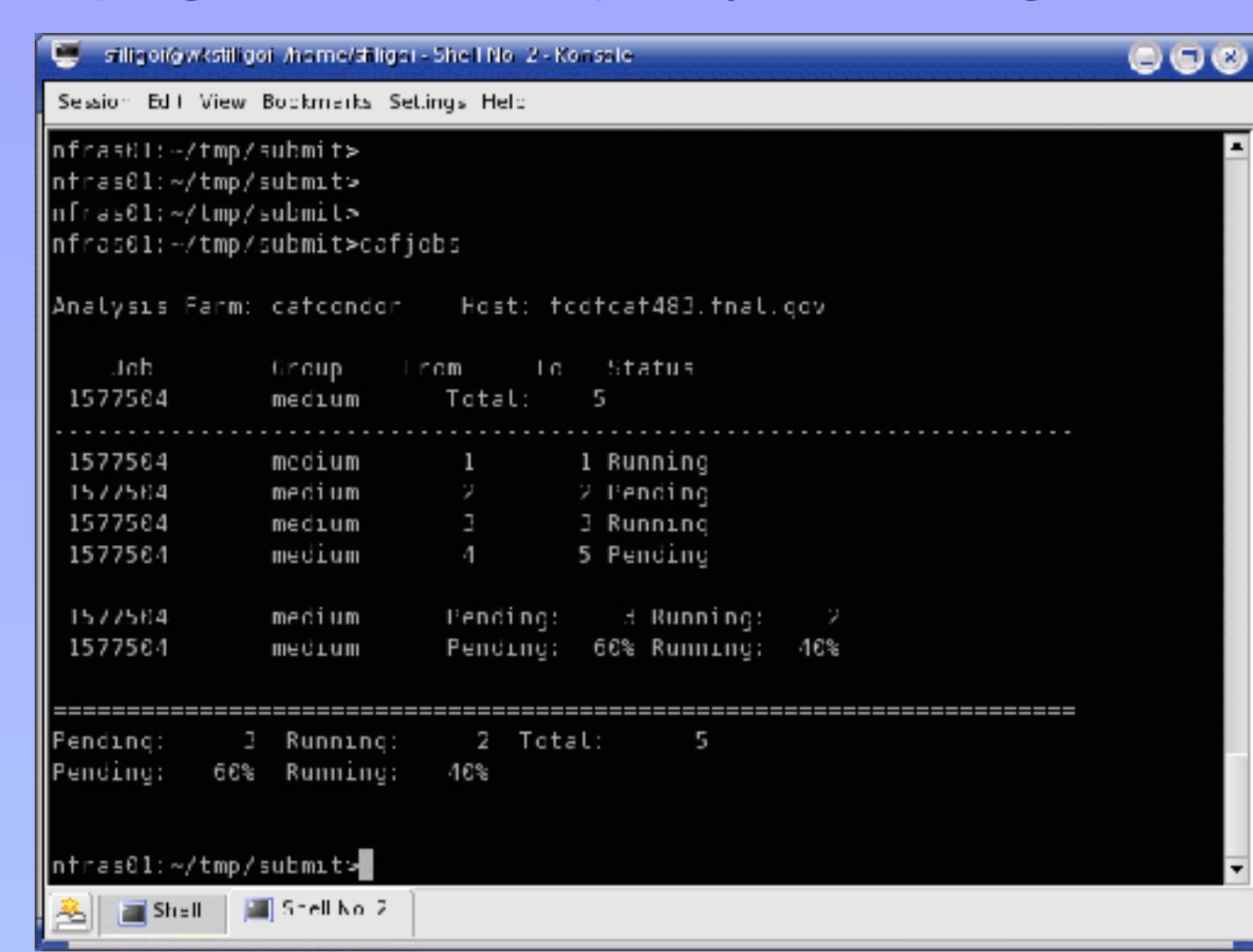
Keeping track of how your job is doing is a must



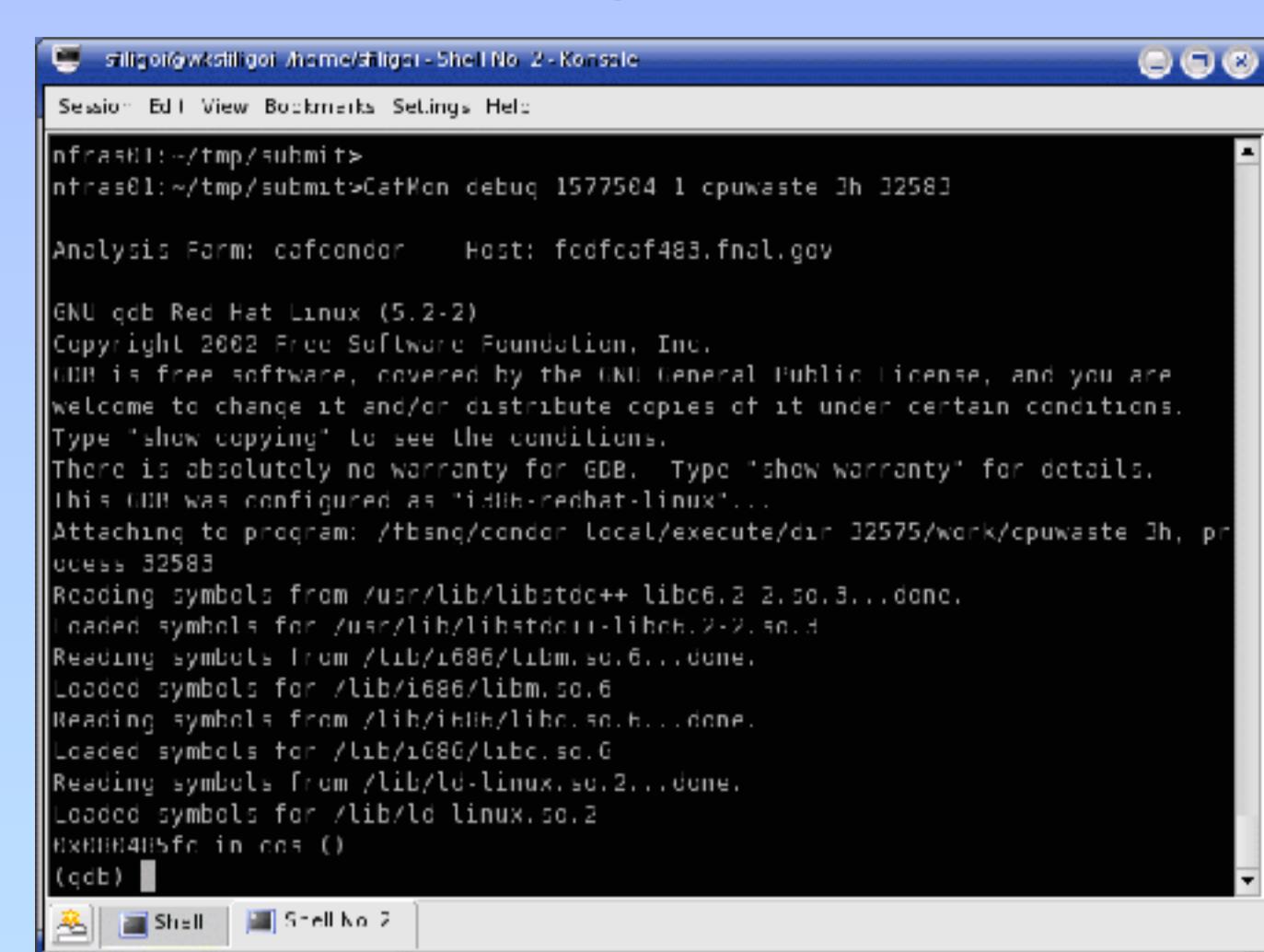
But also look at what a section is doing



For more information about the study, please contact Dr. John D. Cawley at (609) 258-4626 or via email at [jdcawley@princeton.edu](mailto:jdcawley@princeton.edu).

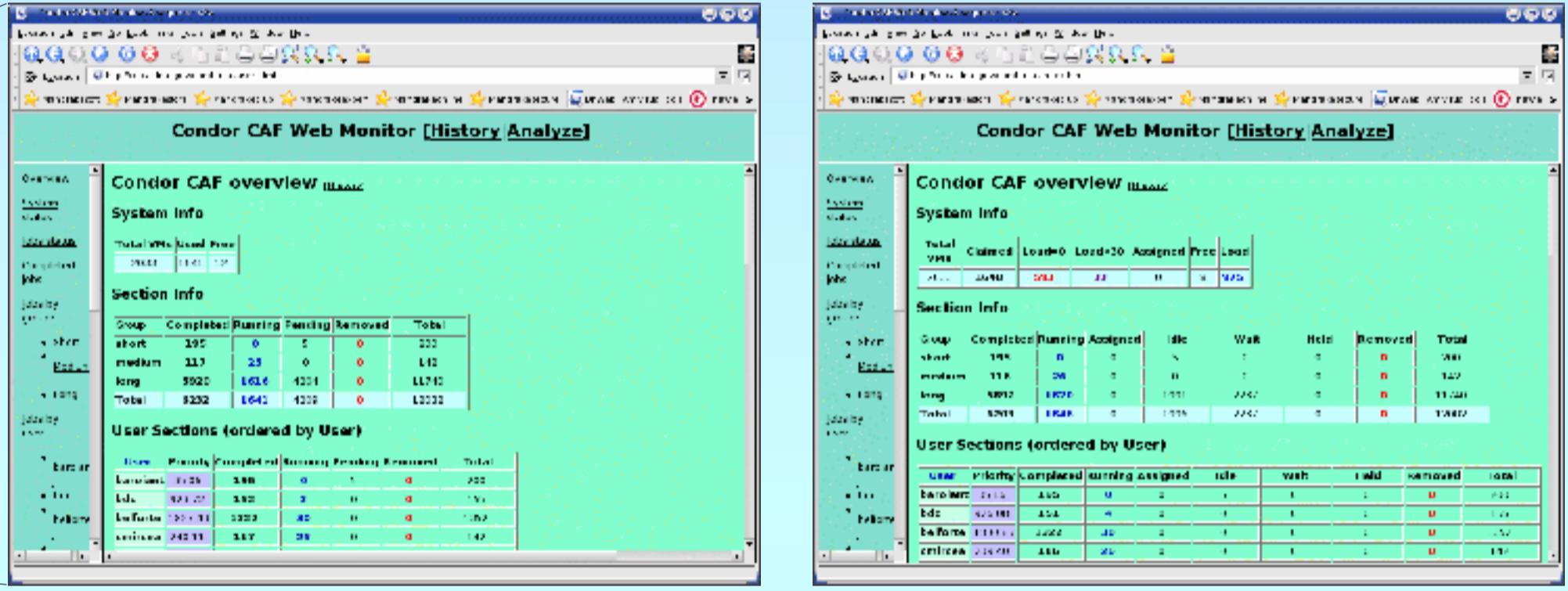


## Even debug, if necessary



Digitized by srujanika@gmail.com

Different detail level for users and administrators



Extensive job monitoring, down to the highest details

SN	Port	Name	Initial Command	Input Router
2	521	C	JavaOgrean x	NET terminal
3	514	C	JavaOgrean x	ETC terminal
4	514	C	JavaOgrean x	NET terminal
5	518	C	JavaOgrean x	NET terminal
6	222	C	JavaOgrean x	ETC terminal
7	224	C	JavaOgrean x	NET terminal
8	225	C	JavaOgrean x	NET terminal

Condor CAF Section 1548095/2185

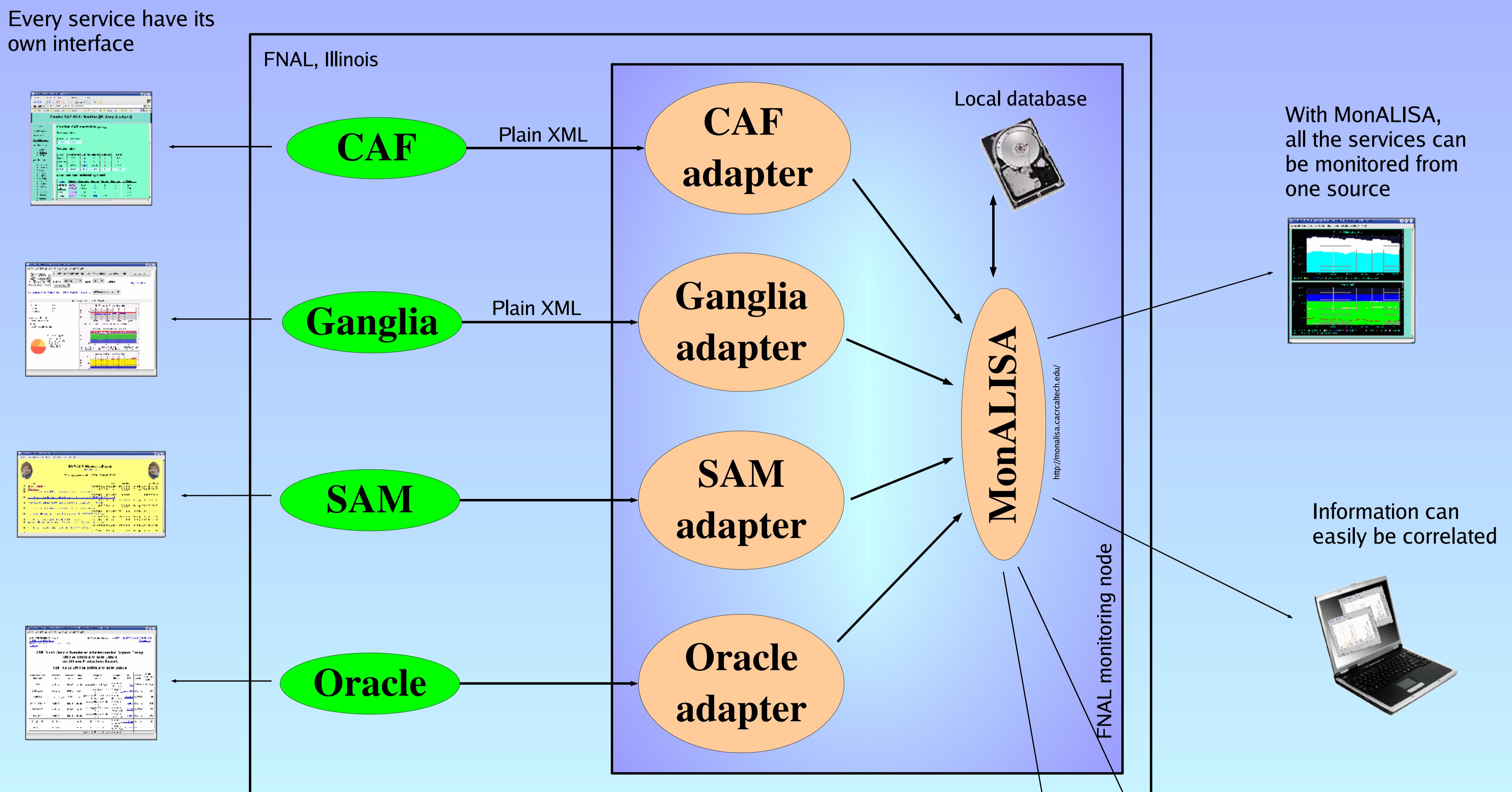
User	Device	Group	Type
Input	ADC	Database	Module
source			
storage	Scanned	Scanned	File
storagepath	scanned/1548095		
storageid	1548095-1548095		
unadjusted	1548095-1548095		
VME	PCI	PCI	Module

All history saved, some values saved as RRDs

# MONITORING THE DISTRIBUTED CDF COMPUTING FARM

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The whole infrastructure is replicated at each site

