orbstat_gui basics

Ring buffer and interactive commands



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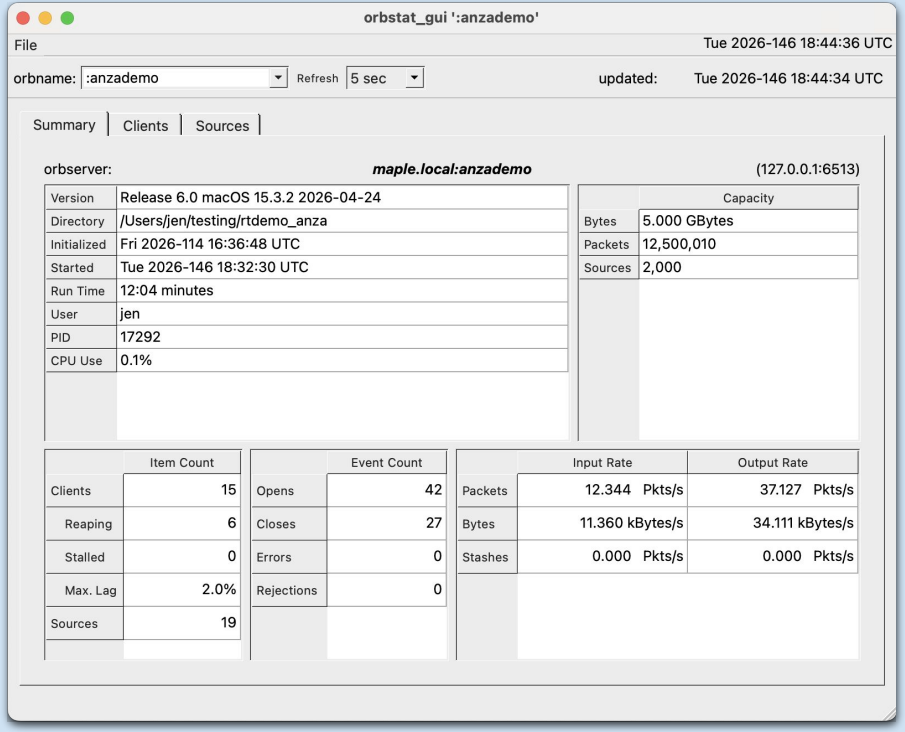
1-3 June, 2026

AUG, Opatija, Croatia

What is orbstat_gui?

- Orb statistics
- Monitoring packet acquisition
- Verifying srcnames
- Checking client connections

Antelope 5.15 orbstat_gui



What is orbstat_gui?

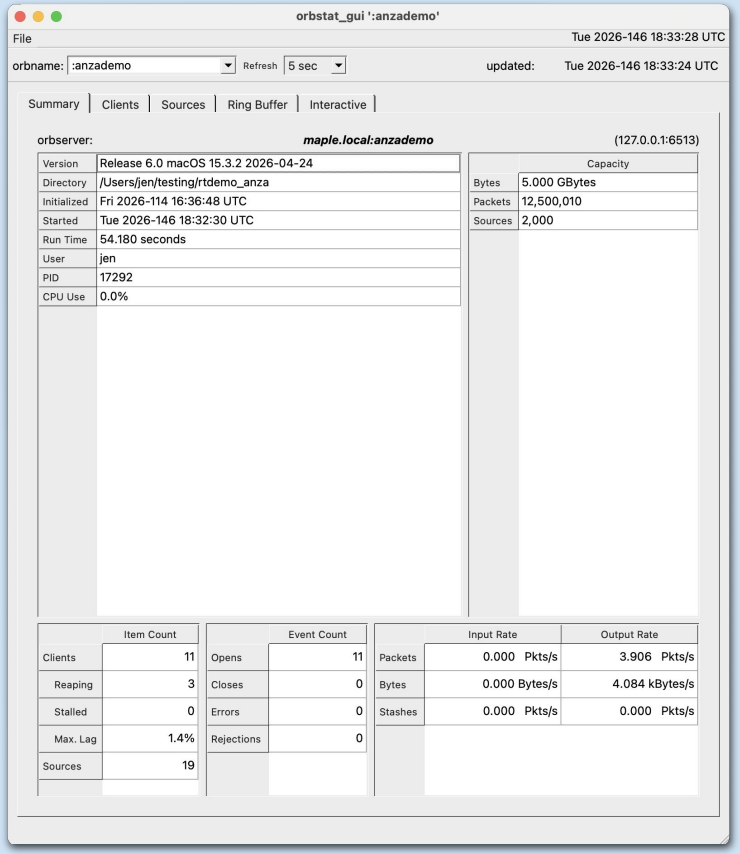
New features:

- Ring buffer image -
  - checking client latencies
- Interactive panel
  - Inspecting packets
  - Collecting packets for support requests

Why rewrite?

- Removing obsolete Tcl/Tk code.

Antelope 6.0 orbstat_gui

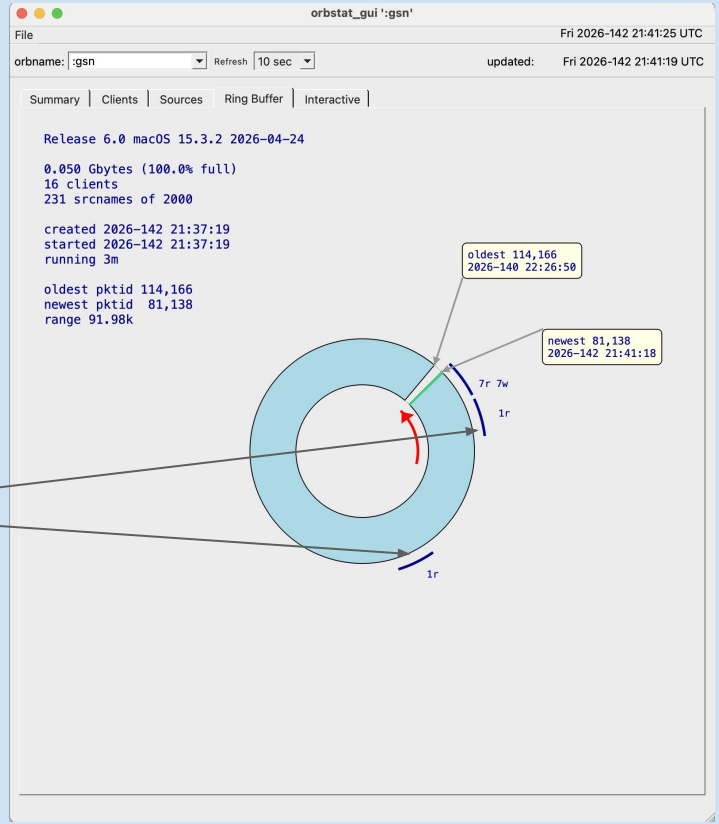


orbstat_gui - *Ring Buffer* panel - trailing reads

New feature!

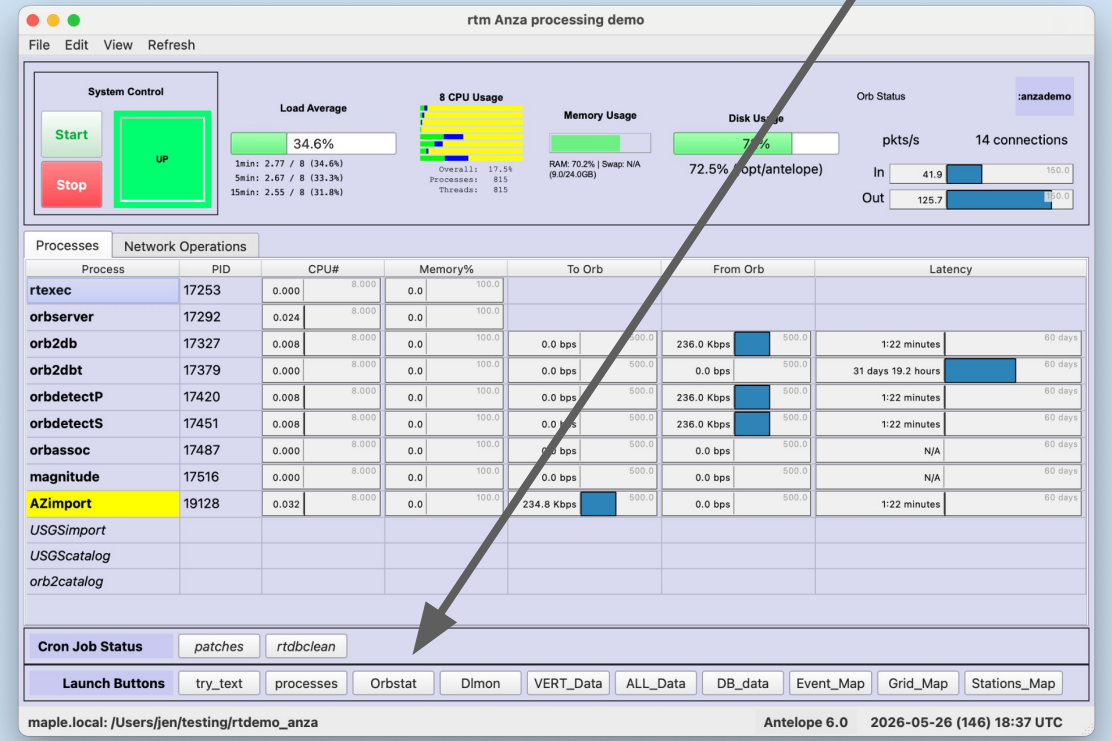
- Similar to old `tkorblag`
- Highlights newest and oldest *time* and *pktids*
- Counts readers and writers

Example of lagging reads



Launching orbstat_gui - rtm

From `rtm`



Launching orbstat_gui - command line

From command line:

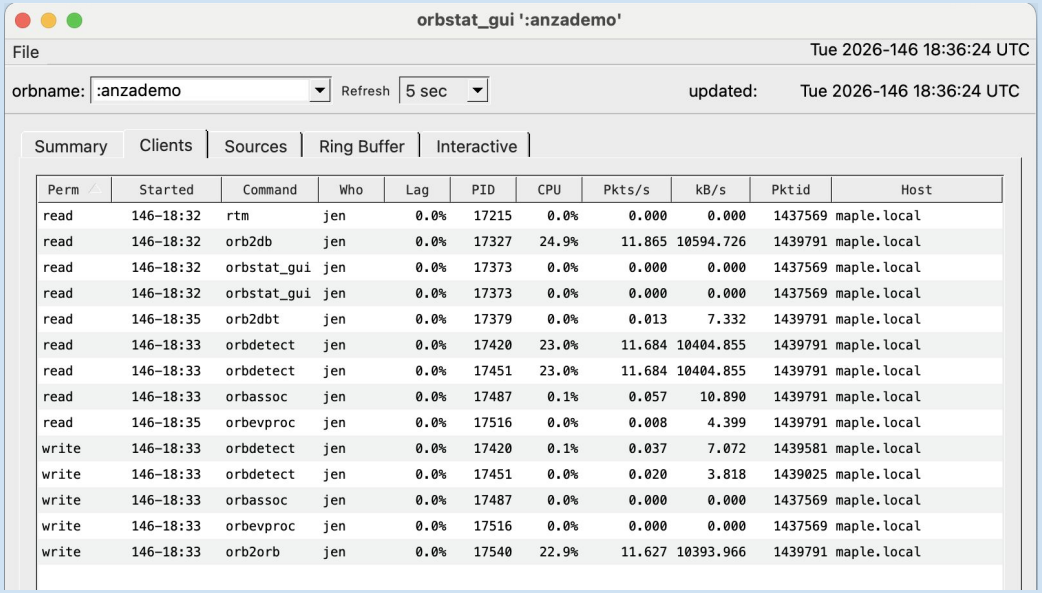
```
orbstat_gui [-c|s|r|i] [-p pfname] $ORB
```

- Launch focused on a panel with `-c`, `-s`, `-r` , or `-i`
- Edit `orbstat_gui.pf`
  - Add orb names for drop down menu
  - Update interval
  - Time format
  - Default focused tab on launch

orbstat_gui - *clients* panel

New features for *clients* panel:

- Clearer *read/write* breakdown
- Added option to **Freeze**

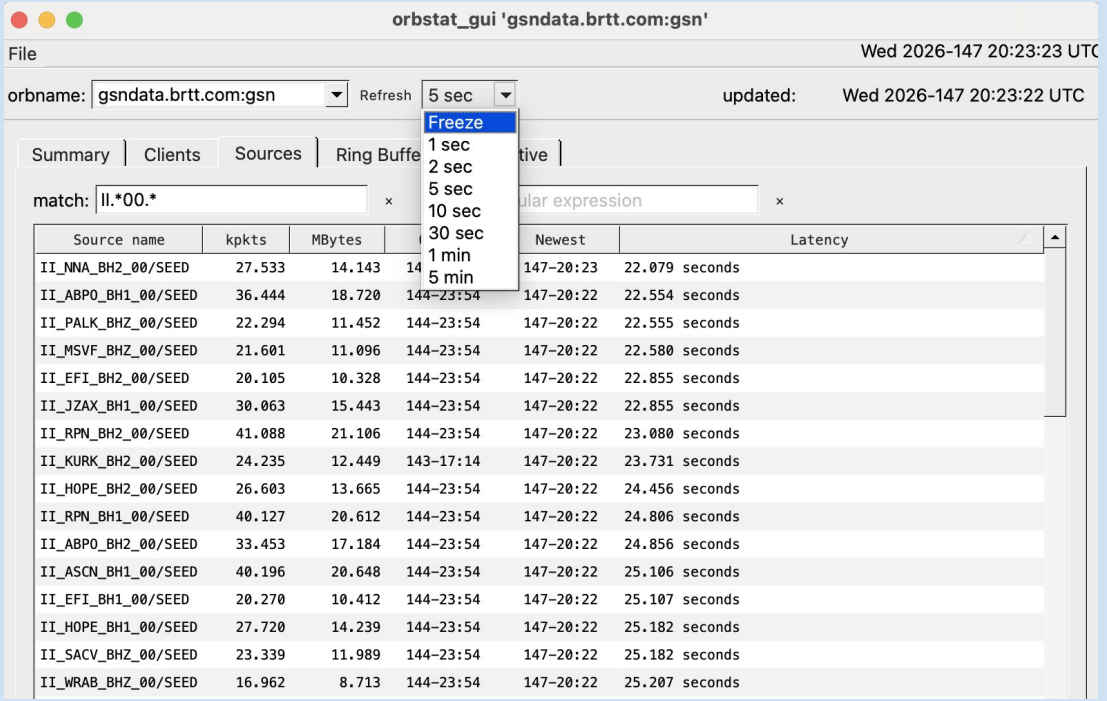


Perm	Started	Command	Who	Lag	PID	CPU	Pkts/s	kB/s	Pktid	Host
read	146-18:32	rtm	jen	0.0%	17215	0.0%	0.000	0.000	1437569	maple.local
read	146-18:32	orb2db	jen	0.0%	17327	24.9%	11.865	10594.726	1439791	maple.local
read	146-18:32	orbstat_gui	jen	0.0%	17373	0.0%	0.000	0.000	1437569	maple.local
read	146-18:32	orbstat_gui	jen	0.0%	17373	0.0%	0.000	0.000	1437569	maple.local
read	146-18:35	orb2dbt	jen	0.0%	17379	0.0%	0.013	7.332	1439791	maple.local
read	146-18:33	orbdetect	jen	0.0%	17420	23.0%	11.684	10404.855	1439791	maple.local
read	146-18:33	orbdetect	jen	0.0%	17451	23.0%	11.684	10404.855	1439791	maple.local
read	146-18:33	orbassoc	jen	0.0%	17487	0.1%	0.057	10.890	1439791	maple.local
read	146-18:35	orbevproc	jen	0.0%	17516	0.0%	0.008	4.399	1439791	maple.local
write	146-18:33	orbdetect	jen	0.0%	17420	0.1%	0.037	7.072	1439581	maple.local
write	146-18:33	orbdetect	jen	0.0%	17451	0.0%	0.020	3.818	1439025	maple.local
write	146-18:33	orbassoc	jen	0.0%	17487	0.0%	0.000	0.000	1437569	maple.local
write	146-18:33	orbevproc	jen	0.0%	17516	0.0%	0.000	0.000	1437569	maple.local
write	146-18:33	orb2orb	jen	0.0%	17540	22.9%	11.627	10393.966	1439791	maple.local

orbstat_gui - *sources* panel

New features for *sources* panel

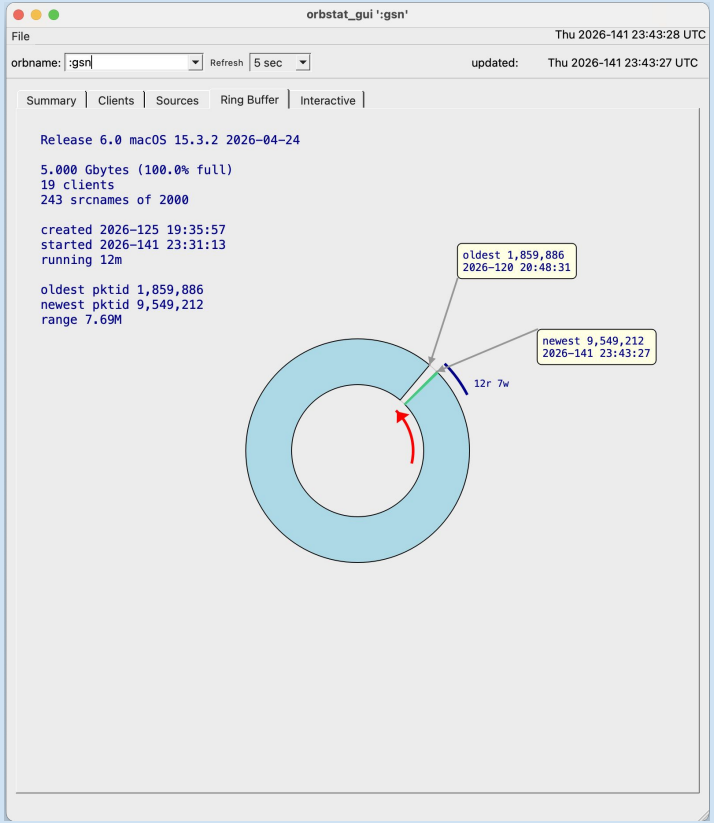
- Added match/reject
- Added option to **Freeze**



orbstat_gui - *Ring Buffer* panel

New feature!

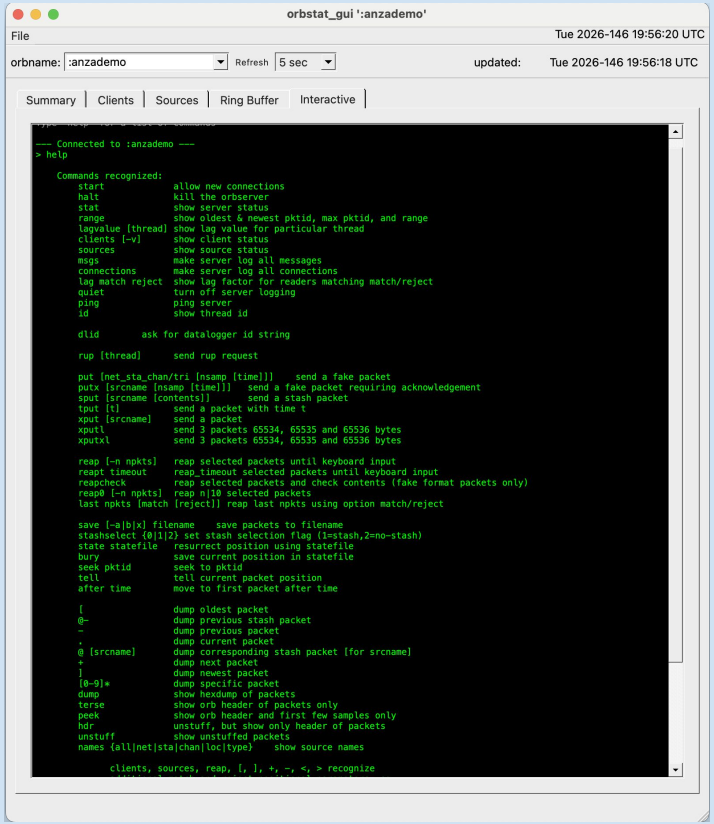
- Similar to old `tkorblag`
- Highlights newest and oldest *time* and *pktids*
- Counts readers and writers



orbstat_gui - *Interactive* panel

New feature!

- `orbstat -i` command line now available within `orbstat_gui` program



orbstat interactive - *collecting packets*

Can be required for BRTT support debugging

- Subset srcnames
- Move to time window
- Create a save file
- Reap packets
- Stop reap

orbstat interactive - *collecting packets*

- Subset srcnames
- Move to time window
- Create a save file

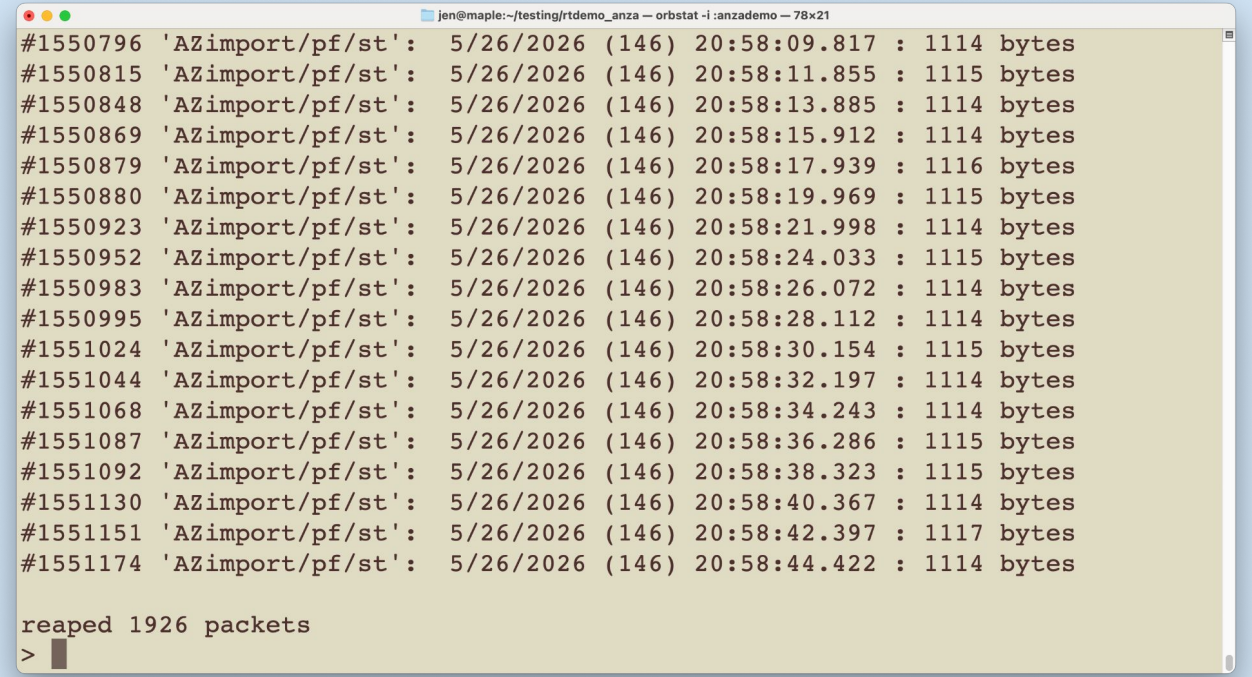
```
> select .*pf.*|.*st.*|.*log.*
5 sources slected
> after 05/26/2026 18:00:00
New pktid is 1437570
> save my_saved_pkts.pkt
Saving packets to ‘my_saved_pkts.pkt’
```

orbstat interactive - *collecting packets*

- Reap packets

```
> reap
```

- Stop reap with any key



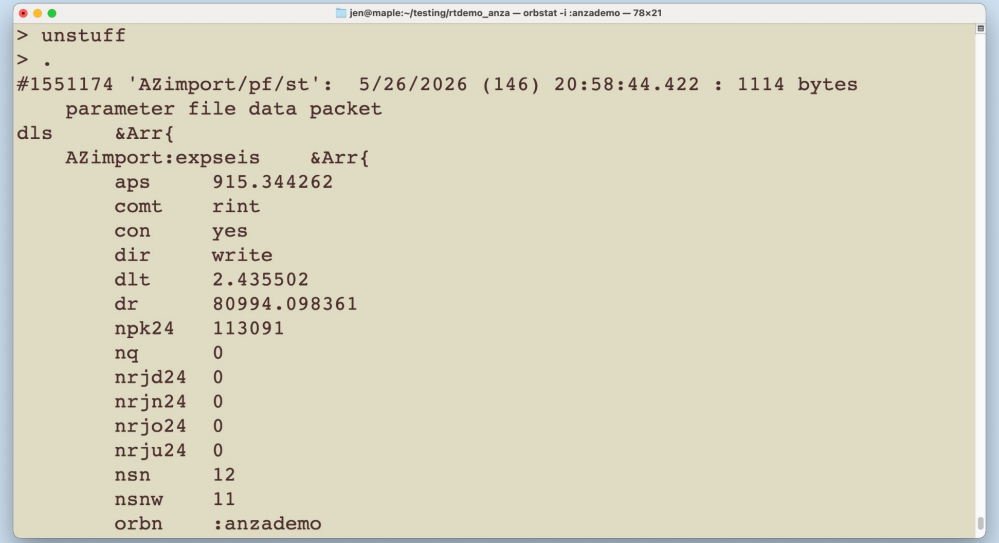
orbstat interactive - *inspecting packets*

- Unstuff packets for review

```
> unstuff
```

- Select which packet (see help for first, last, current)

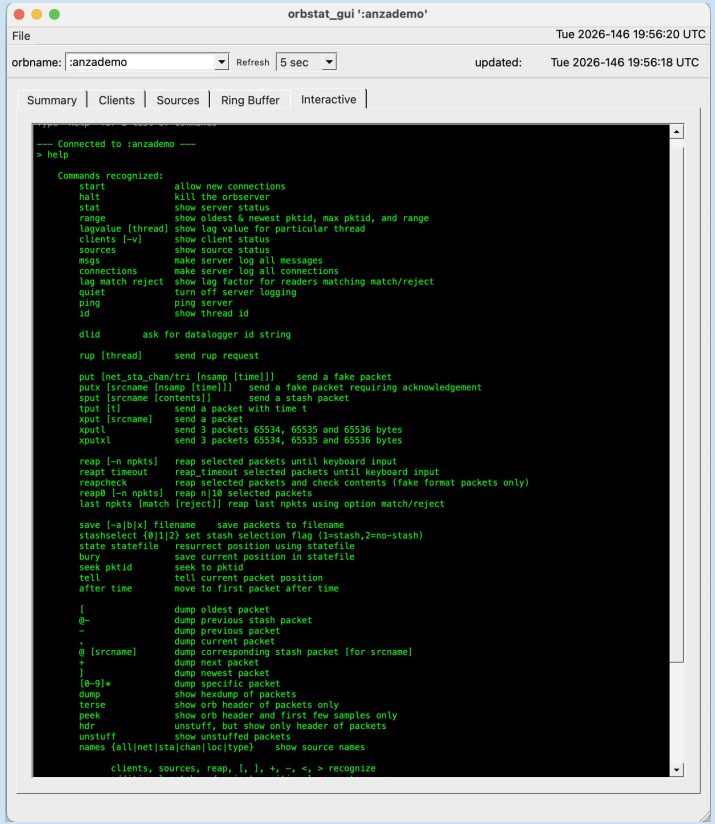
```
> .
```



orbstat_gui - future developments

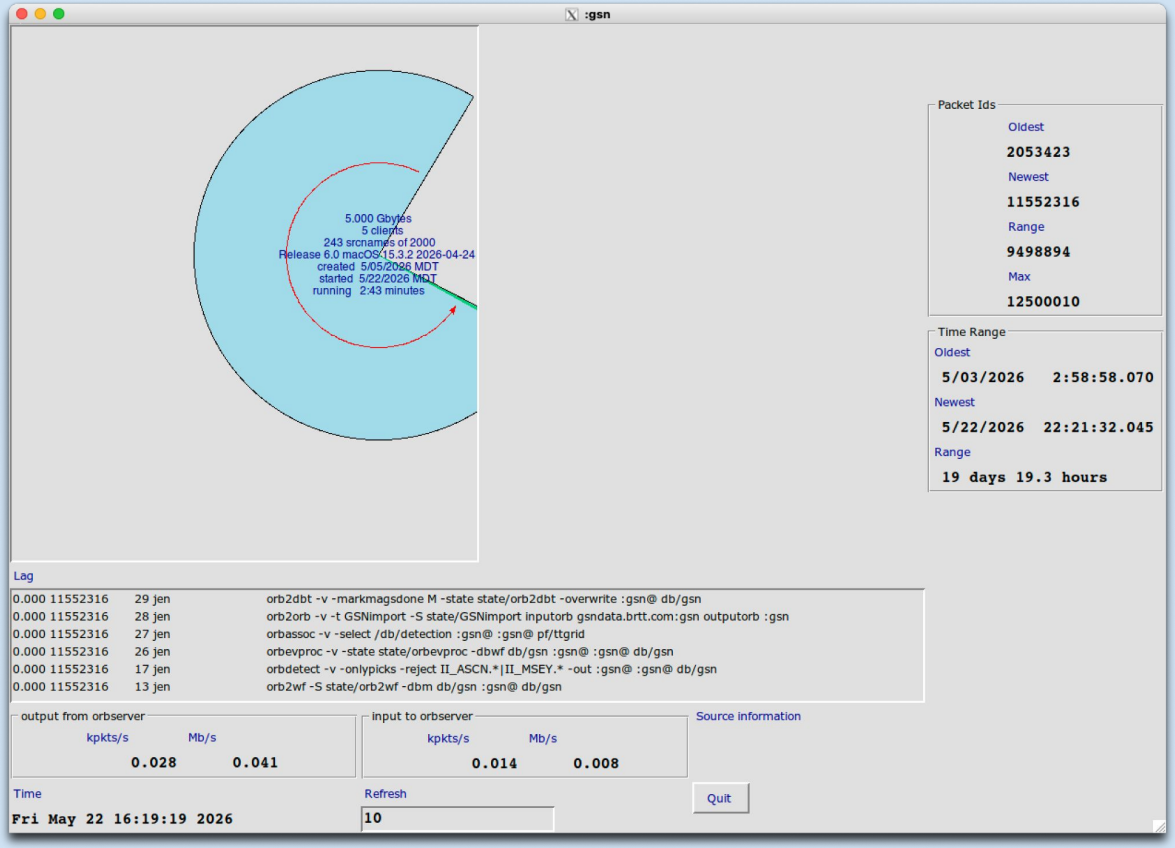
More features!

- Add helpful “Pac-Man” features from `tkorblag`
  - Wide/Narrow opening indicating distance between oldest/newest *pktids*
- Warning indicators?
  - Old data incoming
  - ???



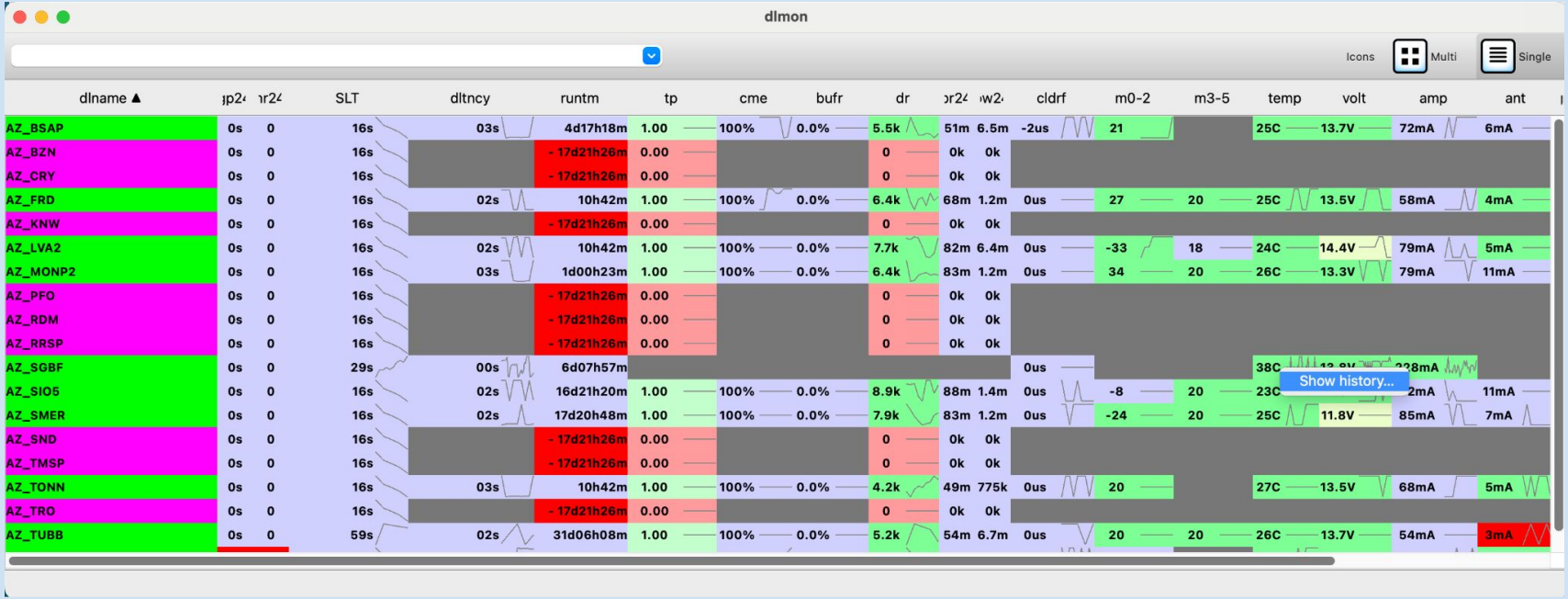
tkorbstat - where we were

Obsolete due to Tcl/Tk

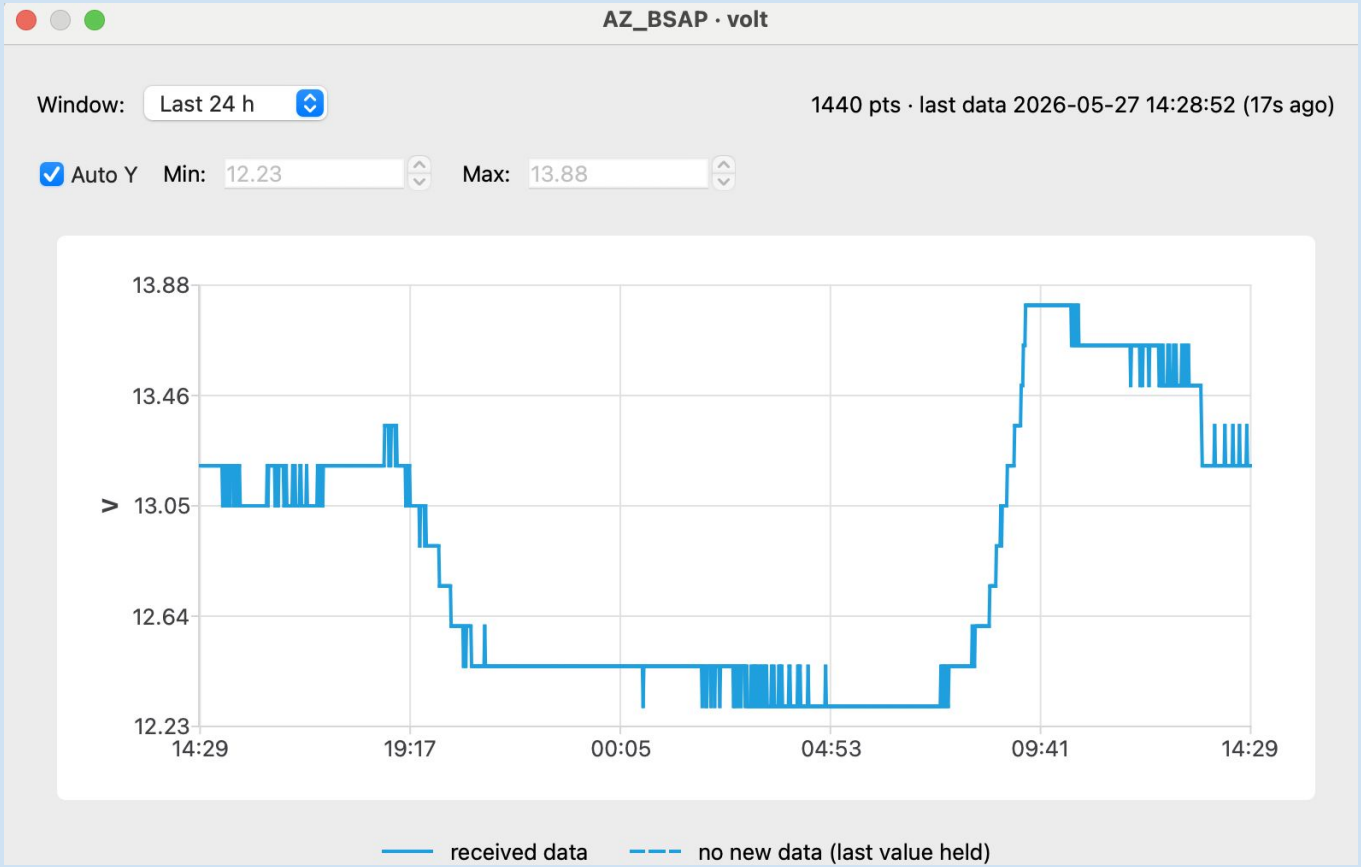


dlmon rewrite

- Spark Lines! Small graphs next to some parameters.
- History plotting is back!



dlmon rewrite



dlmon on Antelope Platform

