

EXCALIBUR
10

CYLC 8: AN ANALYSIS VIEW

Ryan Boulton
Met Office Data Workflows Team
and Knowledge Exchange
Coordinator

06/09/2023



**UK Research
and Innovation**

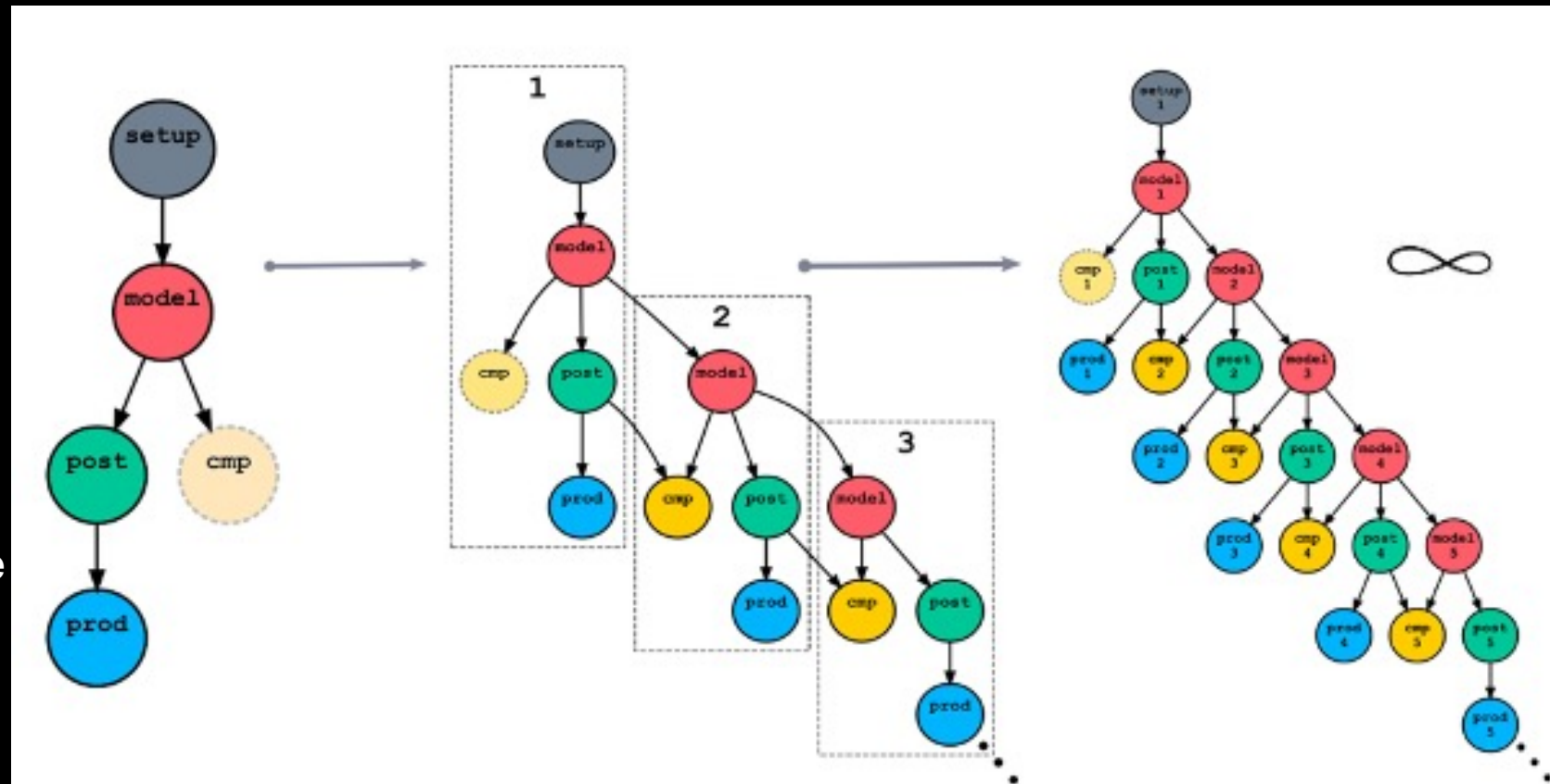


**UK Atomic
Energy
Authority**

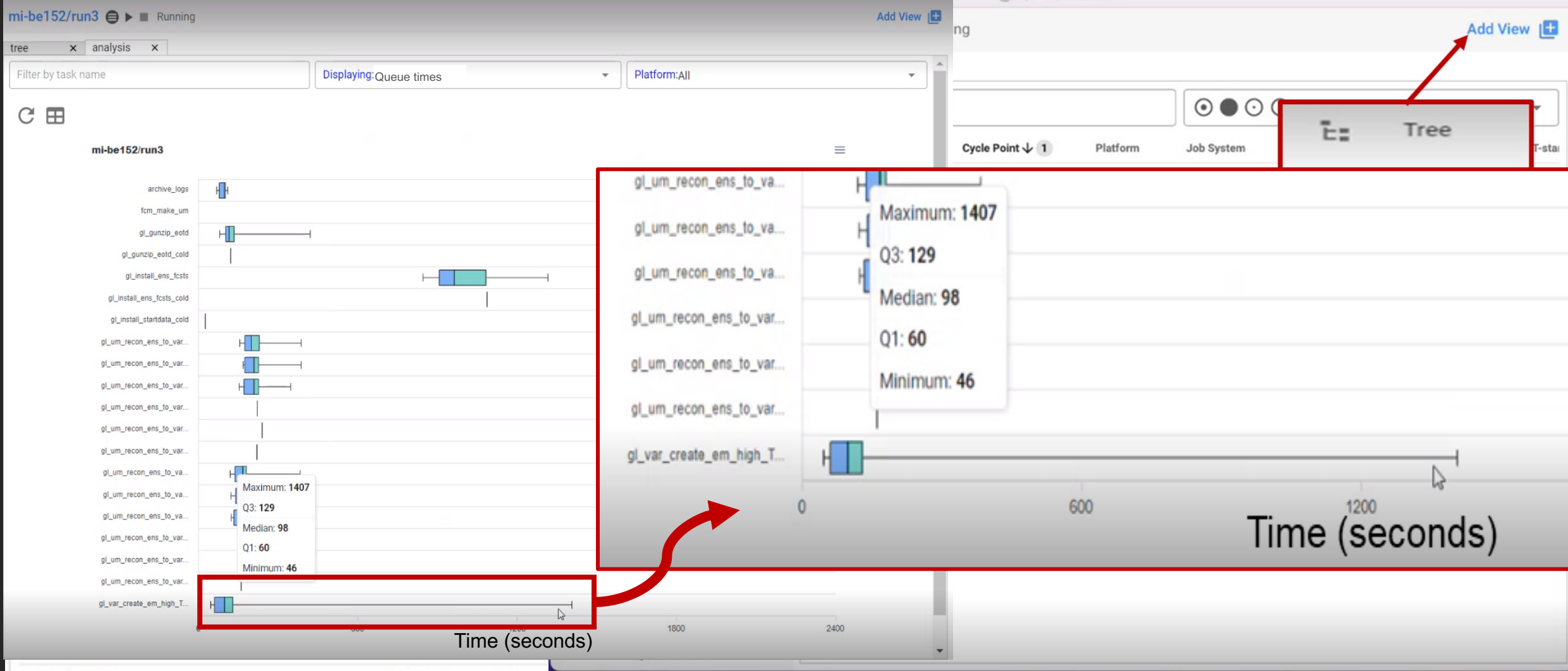
What is Cylc?



- Cylc is an open-source workflow engine we use at the Met Office and as do other large organisations.
- We use it in weather, climate, and environmental forecasting on HPC, but is not specialised to those domains.
- Cylc handles workflow cycles excellently.
- Cylc handles inter- and intra-cycle dependence equally
- Cylc supports Directed Cyclic graphs (DCGs) and Directed Acyclic Graphs (DAGs)

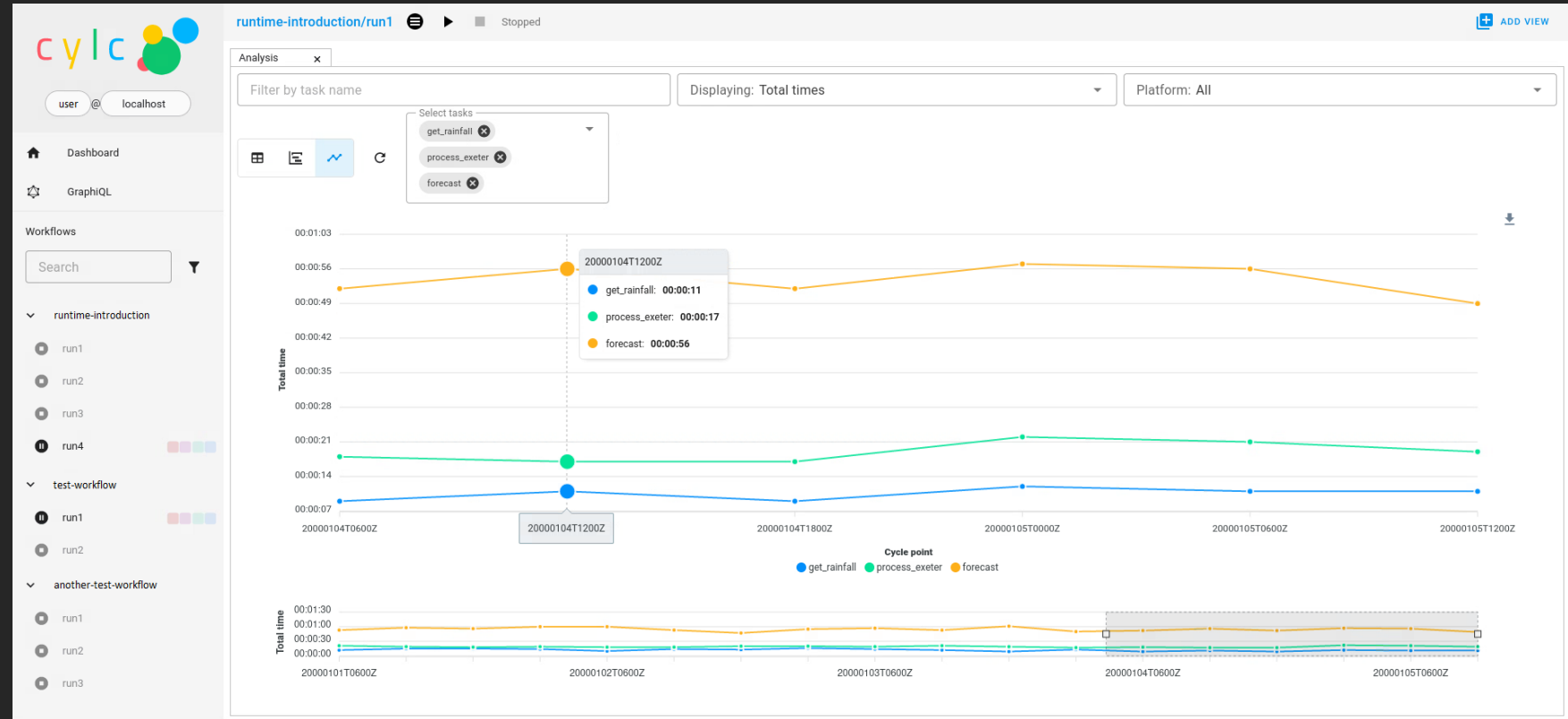


Cylc8 Analysis View



Future Work

- Early feedback is very positive
- We are using user feedback to guide future progress
- Future Visualisation additions:
 - Box and whisker plots
 - Gantt charts
 - Time series graphs
- Comparing jobs between the same/different workflows
- Resource usage efficiency



Summary

Credits

Development work:

Jamie Allen, Christopher Bennett

Support:

Oliver Sanders, Ronnie Dutta

Any questions?

Email: ryan.boult@metoffice.gov.uk