TNA Access: JASMIN at STFC

What is JASMIN?

JASMIN provides the UK and European climate and earth-system science communities with an efficient data analysis environment. Many datasets, particularly model data, are too big to be easily shipped around: JASMIN enables scientists to bring their processing to the data. More information at www.jasmin.ac.uk .

What resources are available?

The CEDA Data Archive is hosted on JASMIN: thousands of data collections, including CMIP6 simulations, re-analysis datasets and large satellite datasets. Full details are in the catalogue at http://archive.ceda.ac.uk/.

The JASMIN analysis cluster allows users to log onto servers which have direct access to the data in the archive, so that analysis of large datasets can be carried out without transferring large data volumes between computer centres. Access to JASMIN compute services is open to UK research scientists and their collaborators and also to consortia awarded access via the IS-ENES3 TNA activity. More details on the mode of access are described here: https://help.jasmin.ac.uk/article/204-interactive-computing-overview

In addition to the basic login access, which provides users with limited resources which may be used to explore the archive, teams can apply for Group Work Spaces and dedicated virtual machines. Group Work Spaces provide teams with a shared area of disk space which can be used for storage and exchange of analysis results. More details here: https://help.jasmin.ac.uk/article/199-introduction-to-group-workspaces . Through the TNA process we envisage supporting projects with Group Workspace ranging from 5TB to 20TB storage allocation.

Dedicated virtual machines allow teams to deploy their own software systems in an environment which they control. More details here: https://help.jasmin.ac.uk/article/174-project-specific-servers . This servers are suitable for projects with complex software requirements.

For heavy computing work there is a batch system available: https://help.jasmin.ac.uk/category/107-batch-computing-on-lotus . Work which requires significant execution time should be submitted to the batch system to avoid overloading the interactive servers.