

3: 13:30-13:40. PRIMAVERA's use of the JASMIN super-data-cluster for the analysis of high-resolution multi-model climate datasets

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Abstract

The PRIMAVERA project was a European Union funded climate modelling project with the aim of producing a new generation of advanced and well-evaluated high-resolution global climate models and generating simulations and predictions of regional climate with unprecedented fidelity. Seven different climate models were run at supercomputer facilities across Europe, generating 1.6 pebibytes of output data. This data was analysed by partners from 20 institutes throughout Europe. Downloading this volume of data for analysis at each institute was not feasible and so the approach of taking the analysis to the data was used, using the JASMIN super-data-cluster. Here we describe JASMIN and how PRIMAVERA used this central analysis facility. As climate models increase in resolution and produce larger volumes of data we describe the benefits that other projects can gain from the use of a central analysis facility such as JASMIN.