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20 million supercomputing hours for science

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Last year, the Spanish National Network was established with the aim of sharing the supercomputing experience and resources for Spanish scientists.

Anzeige

Every four months the Access Committee, formed by 44 well-know external scientists, evaluate individually each received project to be executed in the following seven nodes included in the RES network: the Barcelona Supercomputing Center (BSC) with MareNostrum; the Politechnical University of Madrid, with Magerit; the Instituto de Astrofísica de Canarias (IAC) with LaPalma; the Cantabria University, with Altamira; the Malaga University, with Picasso, the University of Valencia, with Tirant and Zaragoza University, with CaesarAugusta. These 87 scientist projects are divided into the four scientific areas: Astronomy, Space and Earth Sciences, Biomedicine and Health Sciences, Physics and Engineering, and Chemistry and Material Science and Technology.



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"The RES network is a powerful platform at the service of the Spanish scientific community. I hope that these 87 scientific projects selected by the Access Committee can improve their results especially thanks to the RES calculation capacity. In this way, society can take profit mid term", says Francesc Subirada, Associate Director of BSC, coordinator of the RES network.

Two examples of scientific projects included in the computing hours allocated to the RES network are the cosmological project called GHALO, done by a group of the University of Valencia (Spain), and another one focused on quantum simulation of biological processes that contribute to form or break chemical bonds, led by a research group of the University of Barcelona.

The first project, done by a team led by the principal researcher Vicent Quilis of the University of Valencia (Spain), studies about the formation and evolution of a halo of dark material similar to the Milky Way through a computational simulation of 3.000 millions of particles.

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The second project, headed by Prof. Carme Rovira from the University of Barcelona, studies a multi-functional enzyme which activates isoniazid (INH), a drug used to treat tuberculosis. This project aims to intend to model the KatG enzyme mechanism and find the most likely binding site for the INH drug in order to understand the mechanism of drug activation. In this sense, this research project pretends to design new drugs as well as variables of the enzyme.

In March 2007, the Spanish Ministry of Education and Science (Ministerio de Educación y Ciencia) constitutes the Spanish National Networks (Red Española de Supercomputación) through the main coordinator BSC. In order to get access to this network and its resources, scientists can apply online at www.bsc.es/RES.

Renata Giménez Binder | Quelle: alphagalileo
Weitere Informationen: www.bsc.es/RES

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