



Homepage for the World's Supercomputing Professionals

**Main Menu**

- [Home](#)
- [Features](#)
- [Industry News](#)
- [Academia News](#)
- [Government News](#)
- [Financials & Personnel](#)
- [Product News](#)
- [Careers](#)
- [Events](#)
- [Archive](#)
- [Advertising, Editorial Information & Frequently Asked Questions](#)
- Personalization**
- [Your Account](#)
- [Recommend Us](#)
- [Submit News](#)

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 Presentation of the 27th TOP5 Supercomputer List at ISC200 [Adver](#)

**Galicia To Install Europe's Highest Capacity Shared Memory S**

Friday, Mar 31 @ 07:02 PST

**CESGA, HP and Intel collaborate to install "Finis Terrae" high computing (HPC) scientific solution, in order to support research are currently hard to manage in Spain** -- At an event attended by and Galician authorities in the Supercomputing Center of Galicia (CER Supercomputación de Galicia - CESGA), CESGA, HP and Intel today a collaboration with Xunta de Galicia and the Higher Council of Scientific install the largest memory-shared supercomputer in Europe. The new "Finis Terrae", will be based in the supercomputing center located in Compostela. With it, Spanish and particularly Galician researchers will more complex research projects than previously possible, with the new providing enough computing and storage capacity to respond to the most scientific challenges

Finis Terrae will be a worldwide reference point for scientific and technical will benefit e-Science initiatives both in Spain and all across Europe, collaborations with international external research groups. Finis Terrae execution time of current applications and overcome performance challenges faced in Spain when managing HPC projects.

"The existence of important groups of researchers among CESGA and CSIC users in Galicia make this community an ideal option for the implementation of this supercomputer," explains Javier García Tobío, Director of GESGA. "Thanks to 'Finis Terrae', CESGA is becoming a reference center at an European and worldwide level, supplying high level computing technology with which the international scientific community will be able to conduct important research projects".



Public and private R&D strongly committed to Spanish research in Santiago.- The decision to set up a reference center responds directly to advancements in R&D by research groups from universities in Galicia and the CSIC in the area of high performance computing. The three partners in this collaboration interest in developing projects in the following areas: design, development optimization of scientific applications and specific software for shared (SMP); design and enhancement of new computing architectures as well optimization of free-software based scientific applications into shared reference center will participate in conducting benchmarks of applications new developments.

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"Finis Terrae", one of the world's largest shared memory supercomputer by mid 2007.-

As a direct result of this collaboration agreement, the "Finis Terrae" supercomputer will be installed in CESGA, with more than 2,500 lead Itanium 2 processor cores. This exceptional infrastructure, dedicated memory architecture of more than 19,000 GB (Gigabytes) and a high Infiniband network. The supercomputer will work with code based on Lustre, Globus) and will have a hierarchical disk storage of 390,000 (million GB) automated tape library.

"Finis Terrae" will run on 142 nodes of 16 Itanium 2 processor cores memory each. It will also include two nodes of 128 processor cores e of memory and the other with 1,024 GB). The Intel Itanium 2 proces installed will be from the latest generation of the Itanium 2 family, de scientists' and researchers' needs, thanks to excellent performance in operations, powerful memory bandwidth and high volume data mana supercomputer will occupy 140 square meters and weigh 33.500 Kg.

For Jesús Maximoff, General Manager of Intel Corporation Iberia "Finis supercomputing capacity in Spain as an essential tool for innovation, for Intel in the research carried out in the country. We are proud that CESGA researchers, has opened doors for us to be integrated into a v research centres that are present in more than 20 countries. It will a biggest infrastructure for numerical simulation available in Spain to r CSIC."

#### A €60 million project

The value of the equipment exceeds €60 million, and each of the par collaboration agreement will supply part of this cost. The contributor in infrastructure, operation and management, first level maintenance R&D projects. Intel collaborates in the project with processors, softw projects, training, and a reference center. Finally, HP will provide the maintenance, software tools, training, R&D projects and a reference Salustiano Mato, President of CESGA and general manager of R&D; " collaboration agreement announced today provides possibilities and c very positively influence the incorporation of the competitive differen our companies and institutions into a sustainable development frame social welfare. We are not therefore talking of the purchase of a supe long-term collaboration in which the partners work together to compl and training that promote the creation of projects that benefit society

#### New shared memory supercomputer to benefit research.-

"Finis Terrae" will allow supporting scientific research that has been i with current resources. Santiago Cortés, President of HP Española sa project, which we have been working on for more than a year, repres continuity with the R&D impulse in our country, a task which we worl which we have dedicated a significant part of our profits. We are fully needs to become an important reference for knowledge, innovation a Furthermore, "Finis Terrae" is bringing us closer to Galicia and its per the country's research unit, which is very valuable to all of us". This c represents an important step towards addressing research challenges Spain and specially Galicia, into an international model for HPC servic technical calculation, applied to the public and private sectors. This s today be among the top 20 most famous supercomputers in the "Top gives Spain a supercomputer that will increase the level of research i extend its presence in the field of high performance computing.

The machine will deliver computing power and storage that will answ

most ambitious scientific projects in important areas such as enginee  
chemical, biomedicine, health science, astrophysics, meteorology and

The following people took part in the presentation of the agreement:  
Education and Research from the Ministry of Education and Science,  
Innovation and Industry Councillor, Fernando Blanco; President of CS  
President of CESGA and General Manager of R&D, Salustiano Mato; P  
Packard Española, Santiago Cortés; General Manager of INTEL Corpo  
Maximoff and Director of CESGA, Javier García Tobío.

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**Features Index**

**Most read story in Features:**  
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