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July 26, 2013

IBERDROLA and the Barcelona Supercomputing Center Develop the 'Sedar Project'

July 26 -- IBERDROLA and the Barcelona Supercomputing Center - Centro Nacional de Supercomputación (BSC-CNS), are jointly developing a major R&D&I initiative known as the 'Sedar Project (High Resolution Wind Simulation)'.

SEDAR is an innovative project aimed at developing a new computer model to improve estimates of electrical energy production in windfarms before their construction.

Current models have a significant limitation in their calculation times, and this project has succeeded in overcoming this shortcoming through the use of supercomputing techniques. Furthermore, the project will develop improvements for the resolution of physical models which, so far, have been constrained by computing times.

guarantees, as it will provide the most suitable locations for installing the wind turbines and reduce the uncertainty involved in investing in this type of study. This phase of the project, which is done using Alya Green software, can be applied in future onshore and offshore wind farms.

For the Sedar Project, IBERDROLA and the Barcelona Supercomputing Center are using Spain's most important supercomputer, the MareNostrum, one of the most powerful in the world. Both organisations have agreed to carry out the development of the model and its subsequent deployment in IBERDROLA's new windfarm projects in the facilities of the BCS-CNS.

Source: IBERDROLA SA



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[PGI 2013: OpenMP 1.5X faster than GCC, new GNU-compatible OpenACC C++ compiler, CUDA 5 and Tesla K20 support, and more. \(/ct/e/V7gsREP60tZZUtJVRcGj0K32n8_eOcstdyksG16Zo90=\)](#)

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<p>July 26, 2013</p> <p>4th Annual International Summer School on HPC Challenges in Computational Sciences Recap (/hpcwire/2013-07-26/4th-annual-international-summer-school-iberdrola-and-the-barcelona-supercomputing-center-dev...)</p>		

Feature Articles

[Intel Hits Refresh on Datacenter Vision \(/hpcwire/2013-07-26/intel_hits_refresh_on_datacenter_vision.html\)](#)

This week at the Intel "Reimagine the Datacenter" event in San Francisco, we talked with the company's HPC lead, Raj Hazra about the general themes that emerged during a series of presentations around efficiency, performance and a new approach to integration across the stack. While not an HPC-oriented set of announcements, Hazra said...

[Read more... \(/hpcwire/2013-07-26/intel_hits_refresh_on_datacenter_vision.html\)](#)

[ALTAMIRA Boosts Scientific Discovery at Spanish University \(/hpcwire/2013-07-23/altamira_boosts_scientific_discovery_at_spanish_univer](#)

Researchers at the Universidad de Cantabria in northern Spain are just beginning to tap into the power of ALTAMIRA, a new 80-teraflop supercomputer cluster installed at the university in 2012.

[Read more... \(/hpcwire/2013-07-23/altamira_boosts_scientific_discovery_at_spanish_univer](#)

[HPC to Ride ARM's Lengthening Tail \(/hpcwire/2013-07-18/hpc_to_ride_64-bit_arm_long_tail.html\)](#)

These past couple of weeks we've been looking at what some new additions to the HPC processor arsenal mean for the future of supercomputing--both commercially and in research. While much of the attention has been on Xeon Phi and GPUs, the subject of ARM, now that 64-bit is on the horizon, is also worth...

[Read more... \(/hpcwire/2013-07-18/hpc_to_ride_64-bit_arm_long_tail.html\)](#)

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FhGFS Designed for Scalability, Flexibility in HPC Clusters (/hpcwire/2013-07-24 /fhgfs_designed_for_scalability_flexibility_in_hpc_clusters.html)

Jul 24, 2013 | When researchers in Germany sat down nearly a decade ago to create a brand new parallel file system for HPC clusters, they had three goals: maximum scalability, maximum flexibility, and ease of use. What they came up with was the Fraunhofer Parallel File System (FhGFS), which is now in use on supercomputers.

Read more... (/hpcwire/2013-07-24 /fhgfs_designed_for_scalability_flexibility_in_hpc_clusters.html)

New HPC Cluster Frees Scottish Researchers From Administrative Burden (/hpcwire/2013-07-22 /new_hpc_cluster_frees_scottish_researchers_from_administrative_burden.html)

Jul 22, 2013 | The University of Aberdeen has gone live with Maxwell, a new HPC cluster from Dell that will provide researchers with a faster, more centralized, and easier to manage HPC resource than the university previously had. The system is slated to begin a new era of cross-department collaboration and scientific discovery at the 518-year-old Scottish university.

Read more... (/hpcwire/2013-07-22 /new_hpc_cluster_frees_scottish_researchers_from_administrative_burden.html)

Green Flash Heralds Potential Breakthrough in Climate Modeling, Exascale Design (/hpcwire/2013-07-18 /green_flash_heralds_potential_breakthrough_in_climate_modeling_exascale_design.html)

Jul 18, 2013 | Researchers across scientific disciplines are clamoring for exascale systems that can handle bigger, more complex models. When it comes to the climate modeling and weather forecasting business, researchers are finding promise in using new HPC architectures, such as the one used in the Green Flash cluster, to get closer to the exascale goal.

Read more... (/hpcwire/2013-07-18 /green_flash_heralds_potential_breakthrough_in_climate_modeling_exascale_design.html)

Considerations in HPC Cluster Network Selection (/hpcwire/2013-07-17 /considerations_in_hpc_cluster_network_selection.html)

Jul 17, 2013 | There's a lot going on in the networks of HPC clusters, and selecting the right network fabric, equipment, and topology is important to ensuring good performance for given applications. A "one size fits all" approach rarely works, and architects will do well to tailor the network to the needs of the application.

Read more... (/hpcwire/2013-07-17 /considerations_in_hpc_cluster_network_selection.html)



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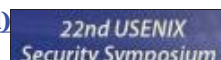
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 United States



<https://www.usenix.org/sec13>

[/sound_synthesizers_get_performance_boost_from_gpus](#)

Jul 16, 2013 | For decades, musicians have been using sound synthesizers to generate audio to replace or complement acoustic instruments. However, some types of complex south synthesis have not been possible on traditional CPUs. Now, sound researchers are turning to GPUs to give them the processing power needed to take on tougher audio challenges.

[Read more... \(/hpcwire/2013-07-16\)](#)

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Sponsored Whitepapers

[The UberCloud HPC Experiment: Compendium of Case Studies \(/whitepapers/2013-06-25/the_ubercloud_hpc_experiment:compendium_of_case](#)

06/25/2013 | Intel | The UberCloud HPC Experiment has achieved the volunteer participation of 500 organizations and individuals from 48 countries with the aim of exploring the end-to-end process employed by digital manufacturing engineers to access and use remote computing resources in HPC centers and in the cloud. This Compendium of 25 case studies is an invaluable resource for engineers, managers and executives who believe in the strategic importance of applying advanced technologies to help drive their organization's productivity to perceptible new levels.

[Best Practices in Big Data Storage \(/whitepapers/2013-05-10/best_practices_in_big_data_storage.html\)](#)

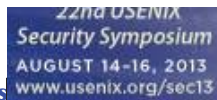
05/10/2013 | Cleversafe, Cray, DDN, NetApp, & Panasas | From Wall Street to Hollywood, drug discovery to homeland security, companies and organizations of all sizes and stripes are coming face to face with the challenges – and opportunities – afforded by Big Data. Before anyone can utilize these extraordinary data repositories, however, they must first harness and manage their data stores, and do so utilizing technologies that underscore affordability, security, and scalability.

[View the White Paper Library \(/whitepapers/topic/hpcwhitepapers?limit=10\)](#)

Sponsored Multimedia

[Xyratex, presents ClusterStor at the Vendor Showdown at ISC13 \(/multimedia/2013-07-15/xyratex_presents_clusterstor_at_the_vendor_showdown](#)

Ken Claffey, SVP and General Manager at Xyratex,



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September 9, 2013 - September 09,

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[HPCwire Live! Atlanta's Big Data Kick Off Week Meets HPC \(/multimedia/2013-06-14](#)

[/hpcwire_live_atlanta_s_big_data_kick_off_week_meets_hpc_what_does_the_future_holds_for_hpc_.html\)](#)

Join HPCwire Editor Nicole Hemsoth and Dr. David Bader from Georgia Tech as they take center stage on opening night at Atlanta's first Big Data Kick Off Week, filmed in front of a live audience. Nicole and David look at the evolution of HPC, today's big data challenges, discuss real world solutions, and reveal their predictions. Exactly what does the future holds for HPC?

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