BSC releases COMPS software for large scale parallelisation - Scientific Computing World



http://www.scientific-computing.com/news/news\_story.php?news\_id=2485[23/06/2014 11:10:44]

Project flagship.

CloudConnect, transPLANT, the BSC Severo Ochoa program and the Human Brain

While COMPSs native programming language is Java, a binding for C/C++ was developed in 2010 to give service to existing applications. Now, the new release includes support to Python (PyCOMPSs) expanding the areas of use of COMPSs.

The success of the software has meant more than 500 downloads last year and is used by around 20 groups in real applications. COMPSs has recently attracted interest from areas such as genomics and biodiversity, where specific courses and dissemination actions have been performed.

In the last year the team's efforts have been focusing on emerging virtualisation technologies, adopted by cloud environments. In such systems, COMPSs provides scalability and elasticity features by dynamically adapting the number of resources to the actual workload. COMPSs is designed to be interoperable with both public and private cloud providers like Amazon EC2, OpenNebula, BSC EMOTIVE Cloud and with OCC1 compliant offerings.

The current release includes the following features; PyCOMPSs, a new binding for Python applications ; a new tracing system using the Extrae tool; and Integrated Development Environment (IDE) for COMPSs applications that help in the development of the applications and in its deployment in the distributed environment. This component is available as an Eclipse plugin published in the Eclipse marketplace.

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