Focus Area

HIGH PERFORMANCE COMPUTING AND NETWORK

CRS4's High Performance Computing and Network platform provides users with state of the art tools to face scientific challenges. The computer center, that is ranked among world's top 500, relies on 47 tflops of computing power and several petabytes of storage capacity.

CRS4 is also equipped with a local network and an advanced external link to allow users to share data while they are working on projects. The Center is part of CyberSAR (8 links @10Gbps) and *Rete telematica regionale per la ricerca (RTR-R),* a network based on dark fiber and DWDM (Dense Wavelength Division Multiplexing) technologies.

This platform supports interdisciplinary research activities that space from bioinformatics to geophysical applications, from genome sequencing to meteorology. Some of the projects include climate studies, short-term weather forecasting, human genome mapping to discover new treatments for genetic diseases.

HPCN team optimizes these informatic resources to serve the demands of scientific research: cloud computing and virtual cluster services have been recently enabled to empower researchers'work.

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