Applications of parallel computing to science and engineering

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CondorPortal: A Condor-based tool to manage a cluster

Research Team
ReTiCS group
Development of a regional climate model

Research Team
MOMAC (UCLM)
ReTiCS (UCLM)
MODAM (UPM)
DATSI (UPM)
Parallelization of TISEAN library

TISEAN: Nonlinear Time Series Analysis

Research Team
ReTiCS (UCLM)
GI²SD (UCLM)
Parallel Algorithms for solving the Differential Riccati Equation

Research Team
GRyCAP (UPV)
ReTiCS (UCLM)
A based-threads parallel implementation of the stiffness problem in high speed railways (CEDIPAC)
DATASEG: a security events analysis using datamining techniques on a HTC platform

Research Team
ReTiCS (UCLM)
SIMD (UCLM)
Grupo-S2
A HTC platform based on BOINC for solving the stiffness problem in high speed railways (CEDIPAC)
Conclusions

The HPC/HTC research on ReTiCS group has achieved

- To close these technologies to enterprises as an added value
  - An enterprise technologically advanced (DATASEG Project)
  - Better product (DATASEG Project)
- To innovate on new fields of science and engineering
  - Dealing with new challenges (CEDIPAC Project)
  - Providing new solutions (Climate Project)