Applications of parallel computing to science and engineering

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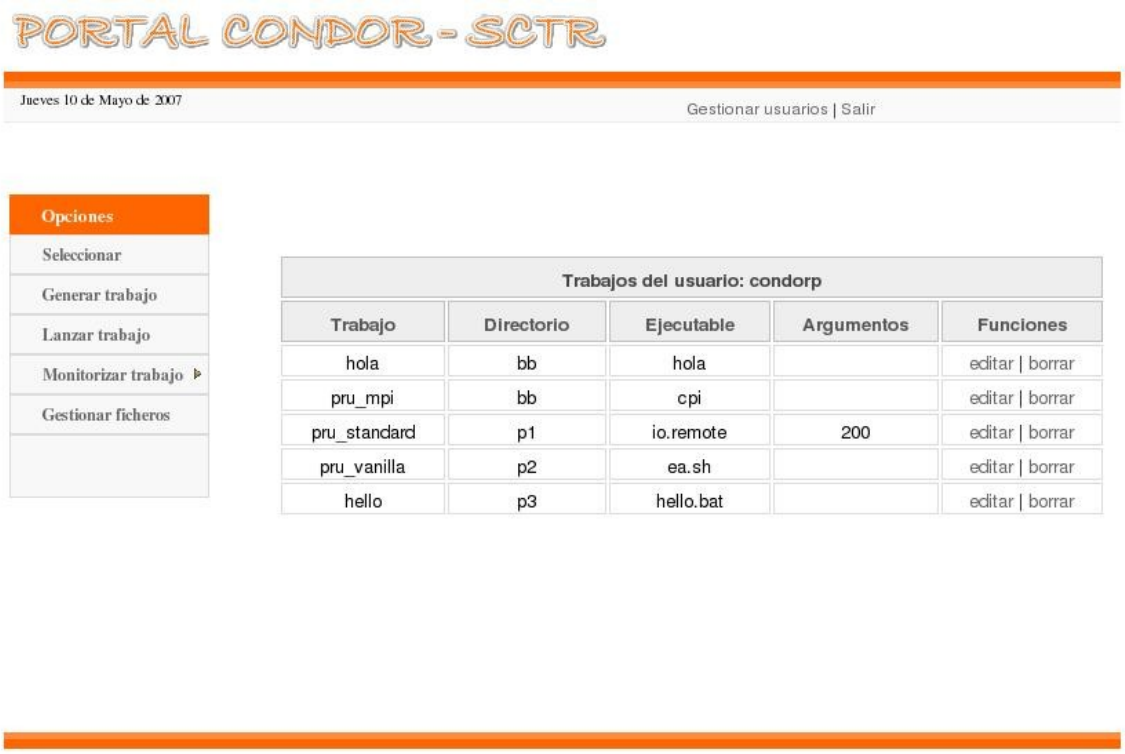
Murcia, 13th June 2007

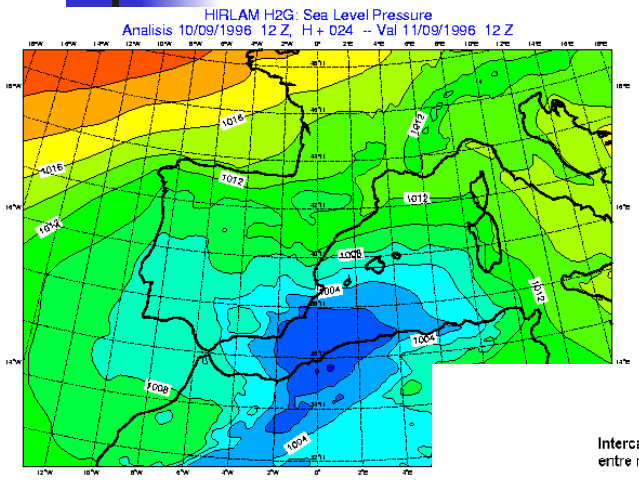
CondorPortal: A Condor-based tool to manage a cluster

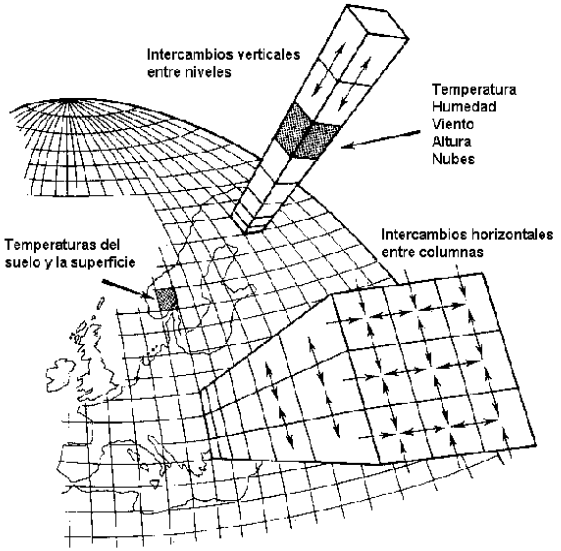


Research Team

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)

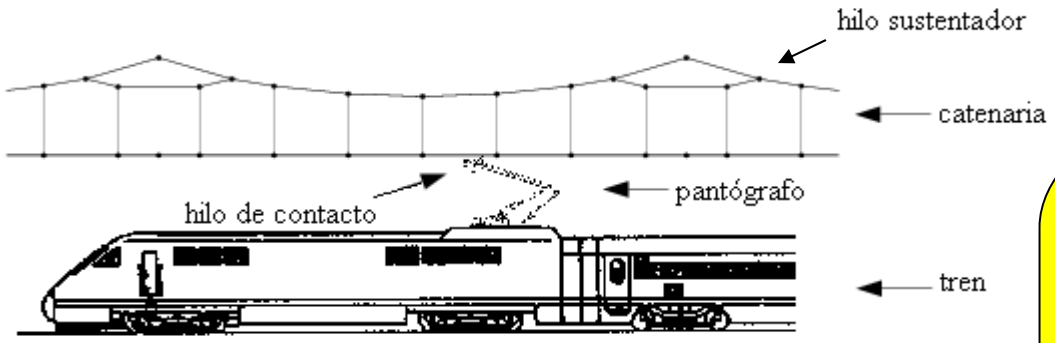
Parallel Algorithms for solving the Differential Riccati Equation

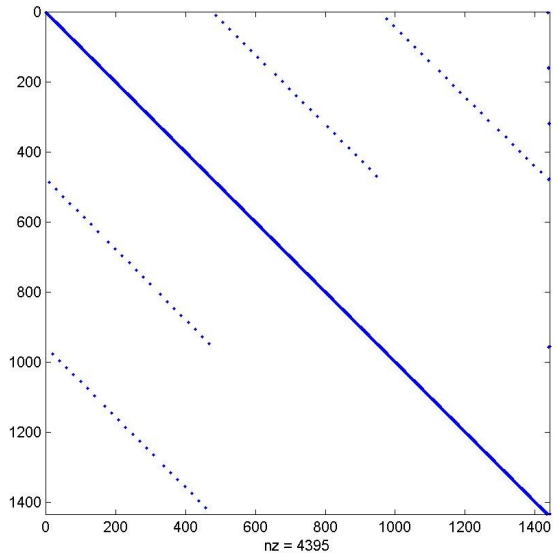
Research Team

GRyCAP (UPV)

ReTiCS (UCLM)

A based-threads parallel implementation of the stiffness problem in high speed railways (CEDIPAC)





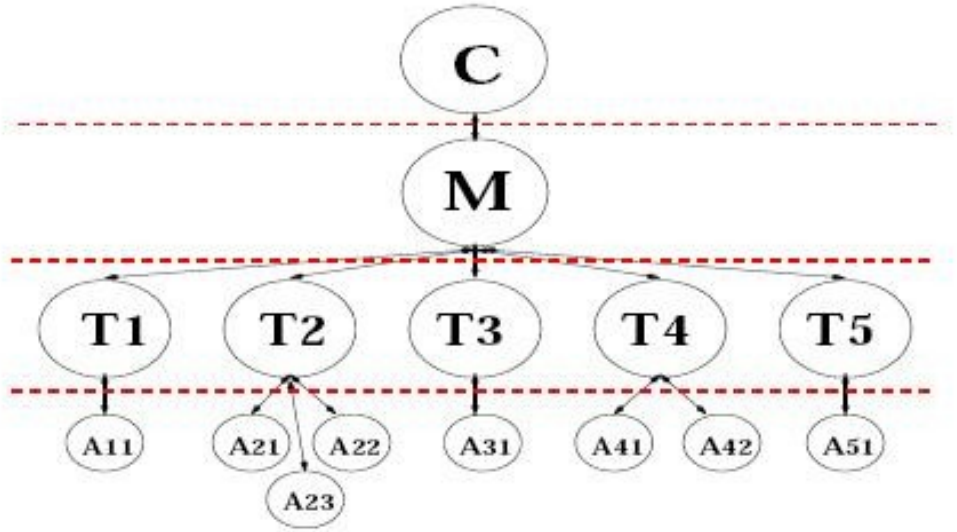
Research Team

ReTiCS (UCLM)

AM (UCLM)

ADIF

DATASEG: a security events analysis using datamining techniques on a HTC platform



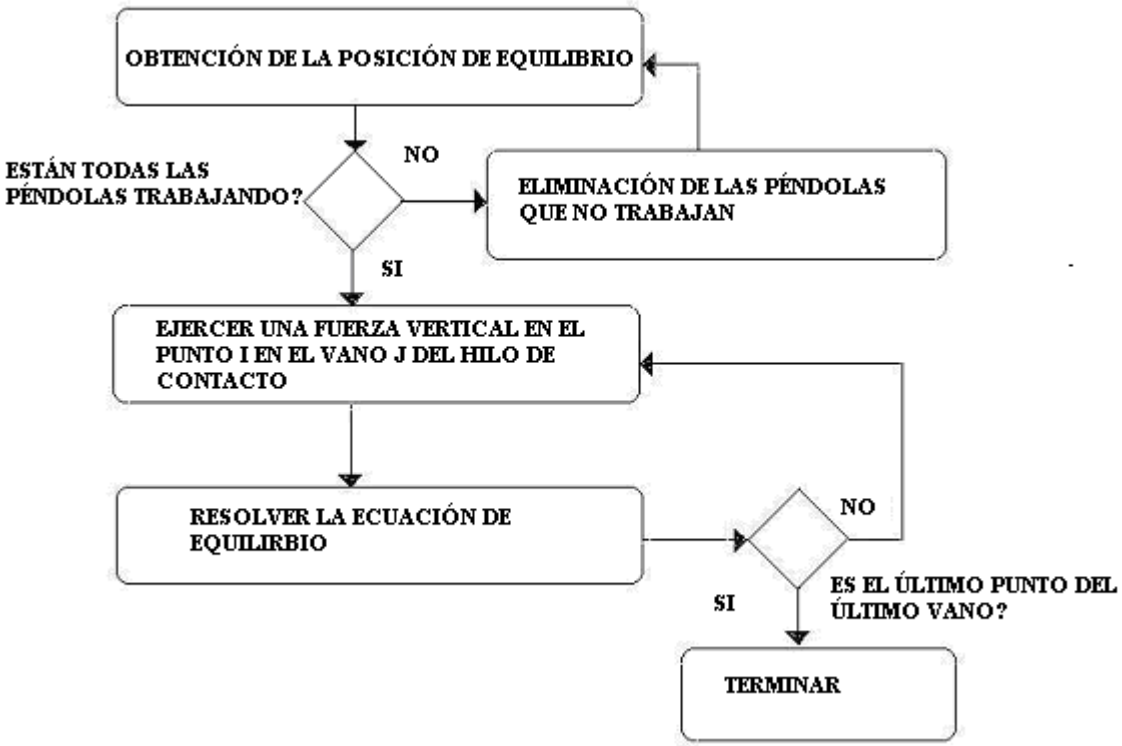
Research Team

ReTiCS (UCLM)

SIMD (UCLM)

Grupo-S2

A HTC platform based on BOINC for solving the stiffness problem in high speed railways (CEDIPAC)



Research Team

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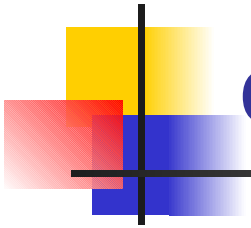
AM (UCLM)

ADIF



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)