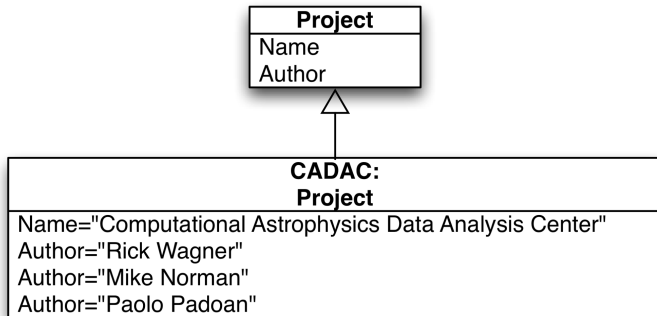


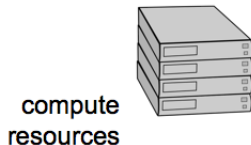
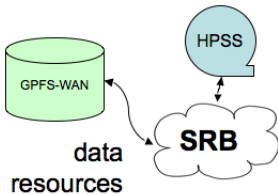
CADAC Simulation Catalog

Rick Wagner

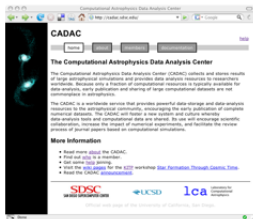
Laboratory for Computational Astrophysics,
San Diego Supercomputer Center

May 26, 2009





web site



user community

SDSC
SAN DIEGO SUPERCOMPUTER CENTER

UCSD

lca Laboratory for Computational Astrophysics

Simulation Catalog: Goals

- Simple web service API
- Separate human/machine interfaces to the metadata
- Custom pages for different data collections
- Classes that can be mapped to/from VO data model
- Extensible

Simulation Catalog: Current Design

- Built on top of Django¹, a Python web framework
 - Django provide a clean separate of concerns: ORM; URL dispatch; template rendering
 - Sites are built as a collection/stack of applications
- Base application, SimCat², with:
 - Core SimDB-like classes
 - REST API using JSON serialization/deserialization of objects
- Custom CADAC application for generating human-readable pages

¹<http://www.djangoproject.com>

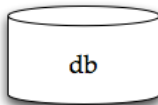
²<http://code.google.com/p/simcat>

Apache

cadac-data api

simcat

django



<http://cadac-dev.ucsd.edu/data/simcat/api/>

<http://cadac-dev.ucsd.edu/data/>

Three Easy Step to a SimDB Service

- 1 Database views to match SimDB schema
- 2 TAP standard (a SimDB one would be good, too)
- 3 TAP implementation (current plan is to use the VAO DALServer Toolkit)

