

CDS registry effort

Pierre Fernique
CDS

The Glu registry

- Presently, the CDS uses the Glu registry network (30 sites, 500 records) for its own services (*automatic url generations in HTML pages and the Aladin tool*)
- Glu = registry + URL generator
- It is scalable, reliable, authenticated, it manages mirrored resources and supports any http/url syntaxes by converting automatically the query parameters (*ex: object identifier -> coord*)

note : on simbad site: 40,000 Glu req/hour

How to manage the transition to the future IVOA registry ?

- **First step** : CDS will maintain in parallel the Glu registry network
- **Second step**: when the IVOA registry(ies) will implement similar functionalities, we will adapt the Glu clients to query directly IVOA registry instead of the Glu registry

In practice (1)

- As soon as IVOA registry(ies) are sufficiently stable,
- the CDS would like to incorporate all entries from the future IVOA repository in the Glu repository network.
 - only for the records with a granularity compatible with the Glu description level
 - requires dump methods on the future IVOA repository

In practice (2)

- To be studied: the evolution of functionalities of the IVOA registry. May be interesting to interface with Glu to provide certain additional functionalities.

Tools available

- Two new Glu clients available:
 - A SOAP access – (*available*)
 - A java client class – (*available for tests*) – *No daemon required, uses the nearest repository sites, offers dictionary and resolution functions*

=> <http://simbad.u-strasbg.fr/registry/registry.htx>

An example using the Glu java client

The screenshot shows a Java application window titled "Usage example of the Java GLU class". It features a left-hand pane with two columns: "Domains" and "Resource IDs". The "Domains" column lists various astronomical databases like ALADIN, ASTRO, CDS, and SSDS.astronomy. The "Resource IDs" column lists specific query endpoints, with "CDS/extern/Heasarc.query" selected. To the right of this pane, there are input fields for "Resource ID:" (containing "CDS/extern/Heasarc.query") and "(Parameters:)", along with three buttons: "Get URL", "Get result", and "Display result".

The main display area shows the XML metadata for the selected resource:

```
<?xml version="1.0" standalone="no"?>
<!DOCTYPE GLU SYSTEM "http://simbad.u-strasbg.fr/glu/glu.dtd">
<GLUDIC VERS="1.0"
  ORIGIN="aladin.u-strasbg.fr"
  GMT="2003/05/09 14:23:58">

  <RESOURCE ID="CDS/extern/Heasarc.query">
    <NAME>Heasarc.query</NAME>
    <DESCRIPTION>
      HEASARC archive query by object name or coordinates
    </DESCRIPTION>
    <QUERY>
      <URL>
        http://legacy.gsfc.nasa.gov/cgi-bin/W3Browse/w3nquery.pl?Action=Submit-
      </URL>
      <VAR NAME="1">
        <DESCRIPTION>
          J2000 coordinates or object name
        </DESCRIPTION>
        <TYPE REF="J2000"/>
        <TYPE REF="simbad/I"/>
      </VAR>
      <VAR NAME="2">
        <DESCRIPTION>Archive selection</DESCRIPTION>
        <VALUE DEFAULT="true">

```

At the bottom of the window, there are radio buttons for "MetaData syntax", "XML" (which is selected), "long parfile", and "short parfile".