

jORCA: easily integration



jORCA is a Java desktop Client to efficiently access any type of web services repositories by mapping metadata over a virtual definition enabling scalable service discovery and achieving flexible tools inter-communication.

jORCA can be defined in three words: usability, extensibility and integration.

jORCA is an user-friendly advanced Web-resources integration tool, with the following features:



Broad access to repositories:

- Moby-Central at moby.ucalgary.ca
- MOWServ www.inab.org/MOWServ (INB)
- ACGT at <http://chirimoyo.ac.uma.es/acgt>
- WSDL (e.g. EBI web services) and Taverna and ... easily extensible to other repositories



New types of data can be described even with local file specifications.



Diverse invocation protocols: BioMoby, local scripts, command line, grid secure execution ...



Broadly customizable: initial links, look and feel, by default settings ...



Web service discovering engine (google-like): 'did you mean' suggestions and user profiling.



Automatic workflows composition: from source to target data through a set of pipelined services.



Learning from user experience:

- Drag and drop edition styles.
- Wizards assistance for data standardization.
- New service invocation models can be easily added.
- Easy incorporation of viewers for specific data types (text config).
- Custom Favorite's section for fast access.
- On-line updated documentation, help, training and getting started guides.



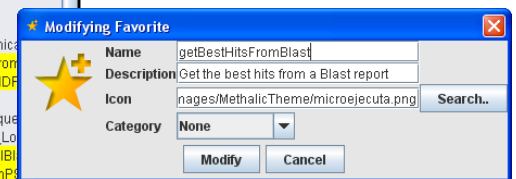
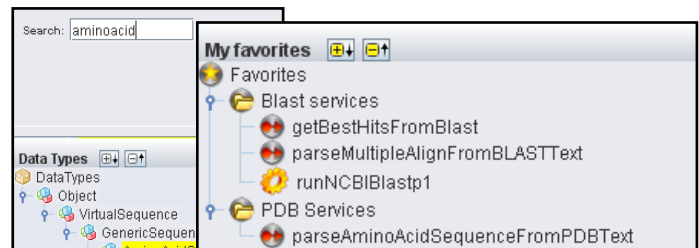
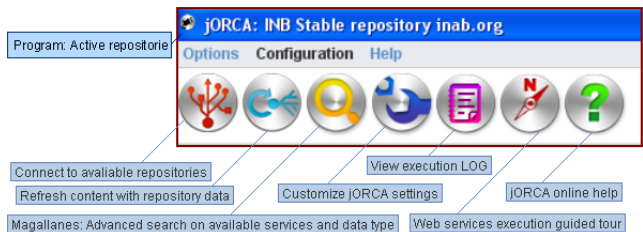
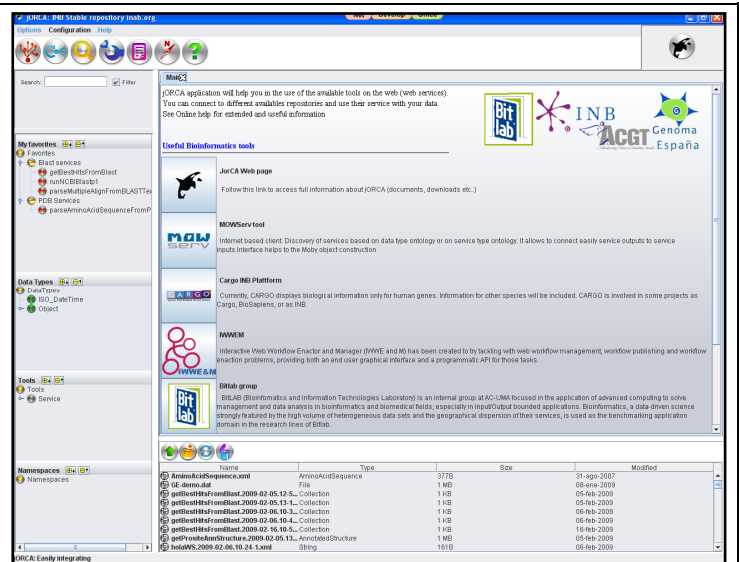
jORCA works with a cache system to accelerate data retrieval (typically around five seconds are needed to re-load the cache). Pre-fetched cache files are provided in the installation kit for the main repositories



DISCOVERING OF RESULTS WITH jORCA

Several methods are provided to help user to identify appropriated data with the desired tool:

- Input text box for fast search.
- Compatible services related to a file.
- Advanced *keyword*-based searching.
- 'Did you mean' suggestions.





USING TOOLS

- Automatic interface builder.
- Pipelining of results (I/O compatibility).
- Mirroring of services (scheduling).
- Asynchronous calls.
- Execution tracing (editable log with record of events).



STANDARDIZING DATA

- Support input data via clipboard.
- Object and Collection Editors.
- On-the-fly object creation services.



VISUALIZATION TOOLS

- Provides full interaction for browsing and exploring results.
- System assistance to identify file content.
- Customizable link between types of data and associated viewers (text config. file).



FILE SYSTEM

- Local file system management.
- Heuristics to determine the file type.
- Edit your files with the object editor.
- Specialized and default viewers for object's files.
- Launch tools directly from the file system.



EXTENDING JORCA

- Programmatic Java API to incorporate new repositories and service invocation methods.
- Any type of tool repository resource can be added by simple mapping on virtual metadata model.



Availability:

- Just download, un-compress, launch and start to enjoy JORCA (freely available at www.bitlab-es.com/jorca)



Minimum Requirements:

OS Supported:

- Windows 9x/Nt4/Win2k/WinXP/Vista
- Unix-Like: Kernel: 2.6 or later, XFree86-4.0 or later.

Pentium IV 1.5GHz or faster. 512 MB RAM (1GB recommended), 50 MB free hard disk space

Needs Java Virtual Machine 6.x or later.



Contact Information:

Ask for team support to develop new access methods to map new repositories and to define new invocation and visualization methods.

- www.bitlab-es.com/jorca
- ots@ac.uma.es

