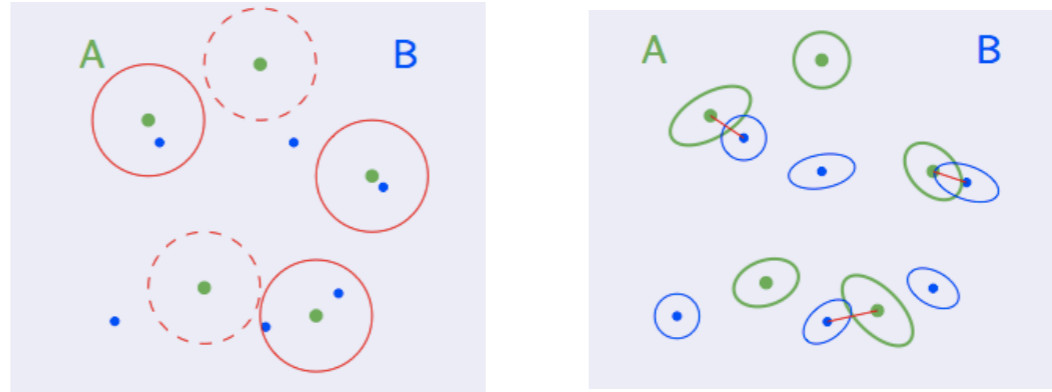


Cross-match service

Thomas Boch
François-Xavier Pineau
Sébastien Derrière

Introduction



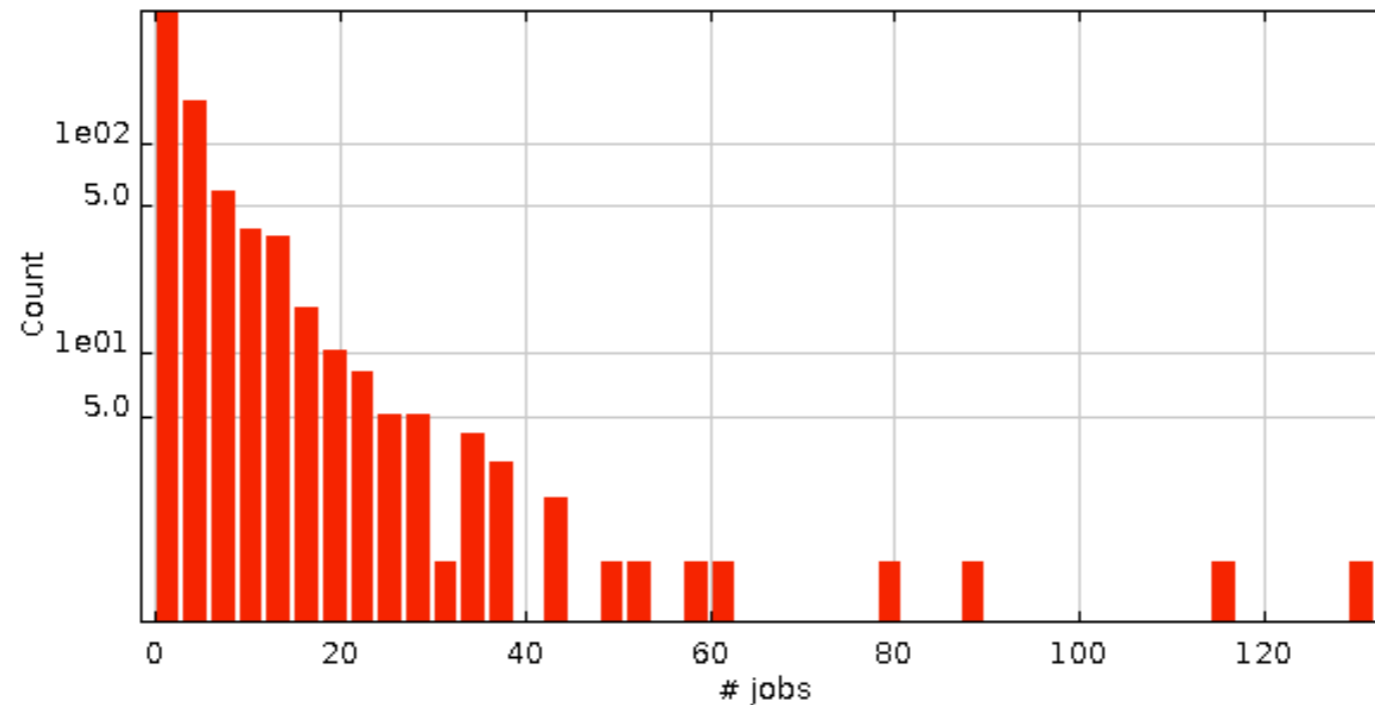
- Purpose
- Positional cross-identification of sources in 2 tables, among:
 - 10,000+ VizieR tables with positions (including large surveys)
 - a view of SIMBAD data
 - user-uploaded tables (in VOTable, FITS or CSV)
- Users retrieve result in VOTable, CSV or ASCII
- Focus on fast large-scale cross-match (*SDSS DR7 vs. 2MASS in less than 20 minutes*)

Statistics (1/2)

- 2012 vs. 2013

	2012	2013 (10 months)
# jobs	3769	4314
# users	510	840

- Number of jobs per user in 2013



Statistics (2/2)

- Most used catalogues in 2013:
 - 2MASS (8%)
 - SIMBAD (4%)
 - WISE (4%)
- 55% of xmatch jobs submitted in 2013 include a user-uploaded table

What's new ?

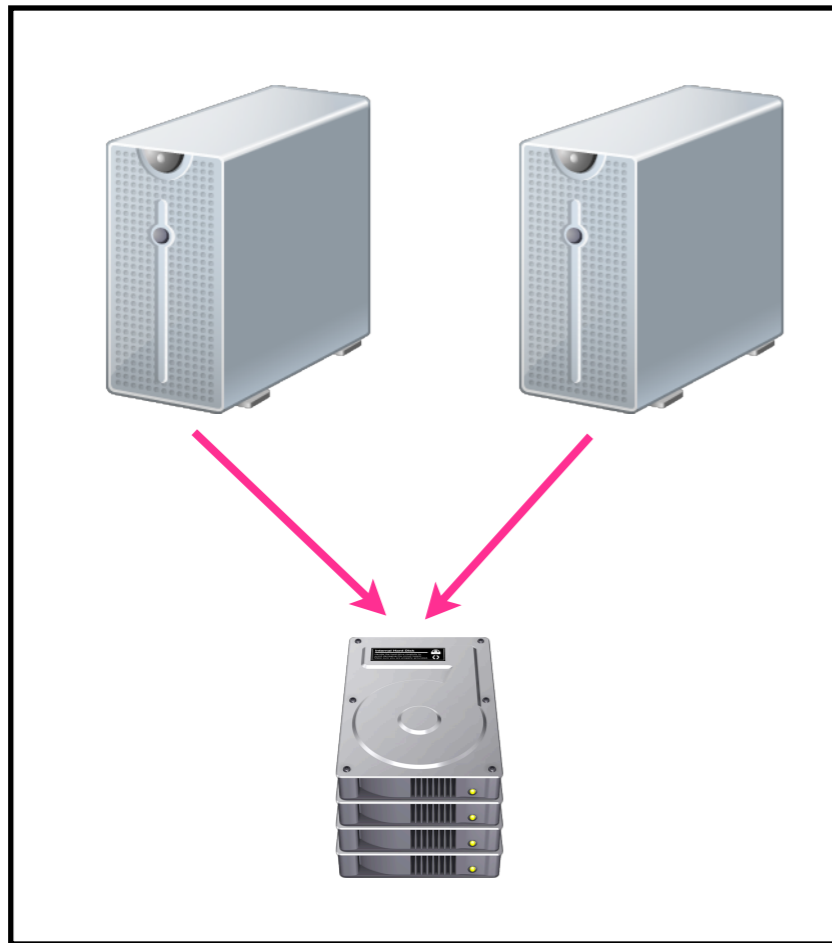
- Cross-match API
- Hardware changes
- Multi-catalogues, probabilistic cross-match R&D (ARCHES project)

Cross-match API

(Application Programming Interface)

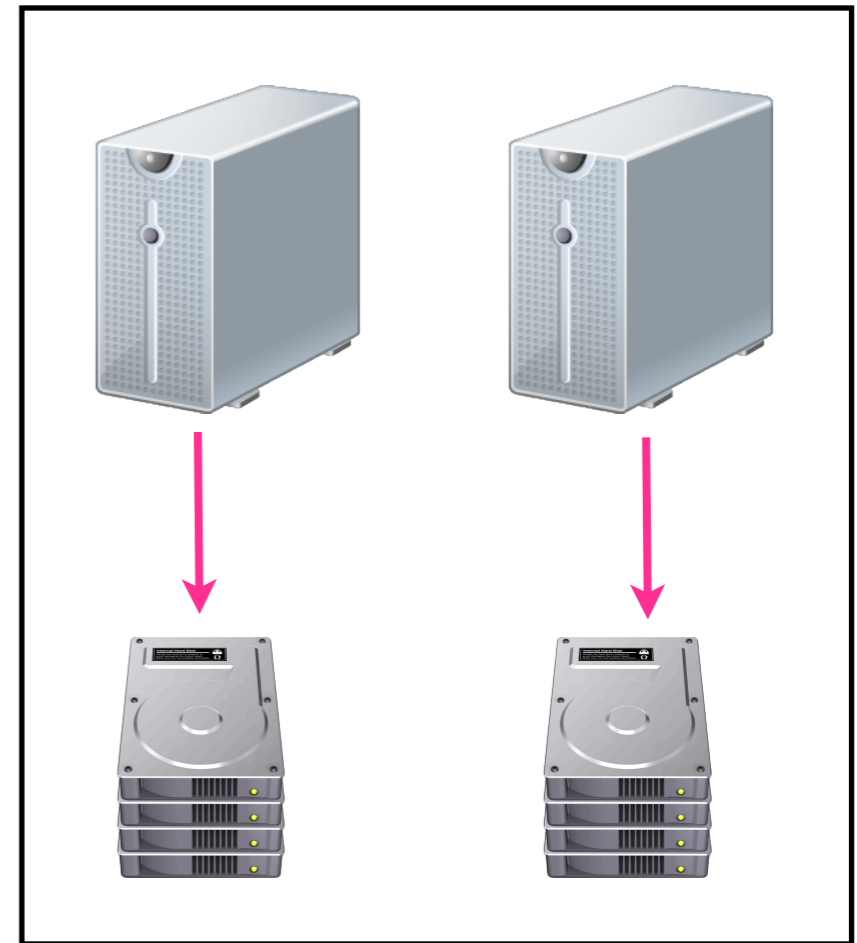
- Released in January 2013
- Allows access to CDS cross-match engine from external tools/software
- Simple to use:
- Tested by VAO portal, JMMC (Grenoble)
- Will be used by TOPCAT in the coming year
- Documentation available at <http://cdsxmatch.u-strasbg.fr/xmatch/doc/cross-match-API.html>

Hardware changes



Before:

2 computing servers
accessing the same
6TB RAID drive



Now:

each computing server
has each own dedicated
12TB RAID drive

Cross-match in ARCHES project

- François-Xavier Pineau presentation

Planned developments

- Improved user interface
 - easier selection of catalogues
 - easier upload of tables
- New features
 - selection of output fields
 - filtering