JMMC

SearchCal
Technical Presentation
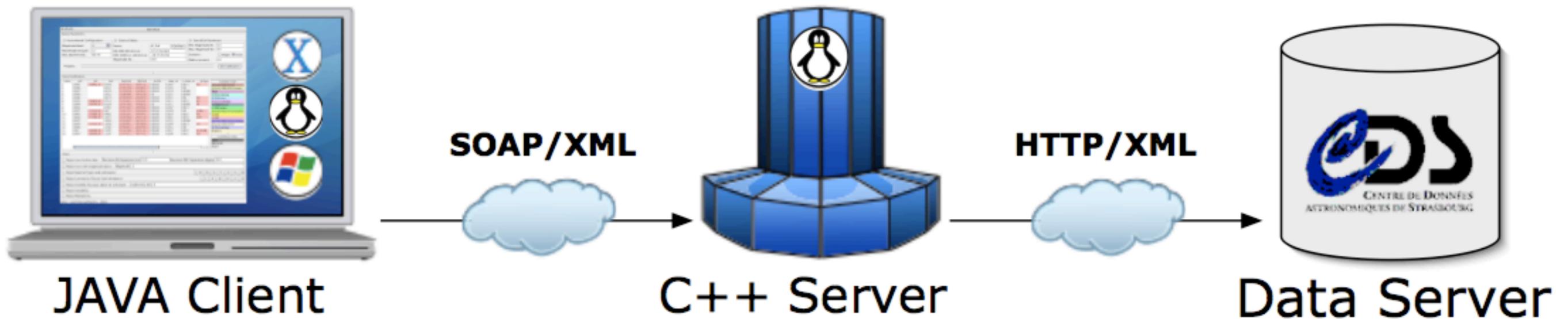
Workshop on a ESO/JMMC Tool for Calibrator Search
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Outline

- Global architecture

- Client description

- Server description

- Infrastructure details

- Future evolutions

Global architecture

SOAP/XML

HTTP/XML

JAVA Client

C++ Server

Data Server

Client description

- Java based, full-featured multi-platform desktop application (JNLP & JAR)

- 30K lines of MVC-designed code

- Interoperable asynchronous SOAP queries (WSDL) to JMMC server

- VOTable parsing

- Local computation to further filter results

Server description

- C/C++ based, Linux dæmon

- 90K lines of code + 75K lines of libraries

- HTTP queries to CDS server

- CSV data parsing

- Local computations to complete missing values and reject bad calibrators

Infrastructure details

- CVS managed

- Java 1.5 / Java standard convention / Jalopy

- GCC / POSIX

- Doxygen documentation

- ESO-style Makefile & architecture

- Developed and build on Linux / Mac OS X

Future evolutions

- Incorporating interoperability protocols to enable external requirements handling

- Porting server algorithms (Linux/C++) in the client (Java)

Questions ?

Thank you for your attention !