



Nuclear Data Section
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International Atomic Energy Agency
Nuclear Data Services
2004–2020



EXFOR for Applications

EXFOR-CINDA databases, retrieval systems, Endver/GUI package for Linux, Windows and MacOSX using SQLite

Run software packages:

Preparation: Install JDK/JRE "1.7" or higher; on **MacOS:** install XQuartz

Download: <https://www-nds.iaea.org/cdroms/#x4app> ==> x4apps-2020-04-21.zip

Un-compress downloaded file; change directory to the package-dir

Windows: → Run → cmd.exe

> cd c:\projects

> "c:\program files\7-zip\7z.exe" x x4apps-2020-04-21.zip

> cd x4app

Linux: → Terminal

MacOS: → Finder → Applications

→ Utilities → Terminal

\$ unzip x4app-2020-04-21.zip

\$ cd x4app

Run:	Windows	Linux	MacOS
1 Interactive EXFOR retrieval system	run_x4cd.bat	./run_x4cd.sh	./run_x4cd-mac.sh
2 EndVer/GUI	run_endver.bat	./run_endver.sh	./run_endver-mac.sh
3 Non-interactive retrieval utility	cd app_example runme.bat	cd app_example ./runme.sh	cd app_example ./runme-mac.sh
4 EXFOR retrieval and converters	cd app_example2020 ./runme.sh	cd app_example2020 ./runme.sh	cd app_example2020 ./runme.sh

General description: [readme.txt](#)

How to use and setup: [setup.txt](#)

IAEA Nuclear Data Services: <http://www-nds.iaea.org/>

EXFOR for Applications

EXFOR-CINDA databases and retrieval systems, ENDVER/GUI integrated tools for ENDF-Evaluators (Windows, Linux, MacOS)

Version 2.1.1, April 2020

- ✓ Does not need installation
- ✓ Integrated CINDA and EXFOR
- ✓ Advanced interactive search
- ✓ Help based on Dictionaries
- ✓ Interactive graphics with ZVView
- ✓ Can work with local and remote databases
- ✓ Non-interactive EXFOR retrievals
- ✓ Converter from EXFOR to C4, C5, X4+, JSON, XML
- ✓ Examples of retrieval and converter scripts
- ✓ Real application: ENDVER/GUI package + EXFOR

EXFOR is a comprehensive library of experimental nuclear reaction data induced by neutrons, charged particles and photons.

Contents (2020-03-05): 23038 Entries, 33092 publications, 158739 data tables

CINDA library contains bibliographical references to experimental nuclear reaction data and to calculations, reviews, compilations and evaluations of neutron, charged particle reactions and spontaneous fission data. Includes import from EXFOR.

Contents (2020-03-09): 497717 lines, 68261 publications, 209927 blocks

Retrieval Systems on Java2: v1=2.1.1 (2020-04-02)

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