

**Stand-alone retrieval system on CD-ROM:
EXFOR+CINDA/Java2
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This product is replacement and enhancement of EXFOR/Access CD-ROM retrieval system, which was based on Microsoft Access-97 with Visual Basic. The new system is based of platform independent programming technology (Java, JDBC), much easier for future updates, offers many advantages for users.

Main applied features of EXFOR+CINDA/Java2

1. EXFOR and CINDA databases are integrated: user can get EXFOR data directly from CINDA-Selection form, CINDA has a full authors list and title from EXFOR where it is possible
2. User-friendly interface based on Java2-Swing forms: input of retrieval criteria are combined with on-line help system using dictionaries
3. Powerful and fast search (based on SQL) with variety of criteria (see Fig.2, 3): any combinations of criteria are available, including multiple parameters, ranges of values and wildcards
4. Results of the search can be sorted by different ways
5. Summary information and bibliography are provided with codes explanation
6. Plots of selected data are generated on request and appear as a static picture; interactive plotting is provided by ZVView package plugged-in to the system
7. Description of the program and instructions for usage are available on-line

Main system's features of EXFOR+CINDA/Java2

1. Works on any platform having Java/JDBC
2. Allows to work with several local and remote databases at the same time
3. Does not need any installation or system configuration: all programs, Java runtime environment, databases, drivers are located on CD-ROM and prepared to run there (for Windows and Linux only)
4. Long time requests of the Help-data are executed asynchronously
5. Installation program allows to optimize speed and usage of disk memory

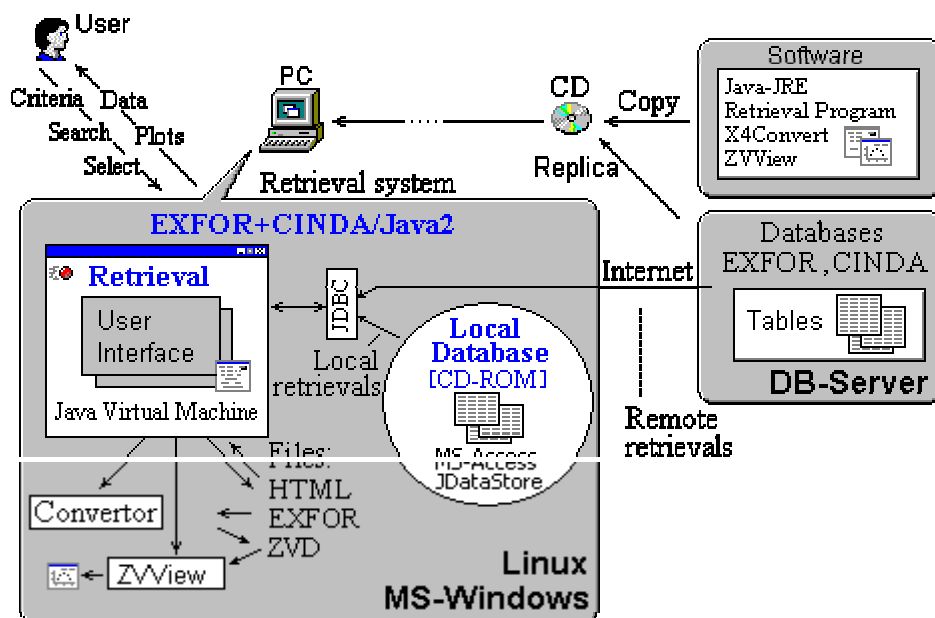


Fig.1. EXFOR+CINDA/Java2: creation and functioning

The screenshot shows the **EXFOR: Session 1** window. The interface includes a menu bar (**Request**, **BQL**, **Confg**, **About**, **EXFOR**, **Help**, **Select**, **Output**) and a toolbar (**Search**, **Reset**, **MakeSQL**, **Example**). The **Request Type** is set to **Expert**. The **Basic Criteria** section includes fields for **Target** (Al-27), **Reaction** (A,p), **Product** (Na-24), **Quantity** (CS), **Energy range(eV)** (0.20e+6), **Last modified** (1970-01-01..2001-12-31), and **Accession #** (22012*). The **Extended Criteria** section includes **Quantity category** (CS), **1-st Author** (Hockenbury), **Author(s)** (Green), **Country** (CAN), **Institute** (ICANCR, IUSARPI), **Short Reference** (J,NM), **Publication year** (1970-2002), **Area** (1,3), **Debut date** (1974-09-19..1980-03-06), and **Full Reference** (J,NM,86,83,70, R/NDCC(YUG)-6,7812). The **Key-Words** section includes **DETECTOR** (BCIN), **METHOD** (ACTIV), **FACILITY** (REAC), and **ANALYSIS** (AREA). The **Sort Results** section is set to **by Reaction Code**. The **Special Options** section includes **No reaction combinations** (unchecked), **Exclude expanded data** (checked), and **Enhanced search of Products** (unchecked). The **Ranges** section includes **Target** (Z: 13-15, A: 0,27, Isomer: M1,M2) and **Product** (13, 13, G,M1,M2). The **Reaction Subfields** section includes **SF1** (13-AL-27), **SF2** (N), **SF3** (G), **SF4** (13-AL-28), **SF5** (), **SF6** (SiO), **SF7** (), **SF8** (), **SF9** (), and **SF10** (SiO). The **Data Headings and Units** section includes **Heading** (EN) and **Units** (MEV). The status bar at the bottom shows **59) ENTRY: 47**.

Fig.2. EXFOR: Request-Form

CINDA-Session 1

Compilation | Trans | Request | SQL | Config | About | CINDA | Help | Select | Output

Search | Reset | MakeSQL | Example

Sort Results: by Blocks by References

Basic Criteria

Target: Al-27

Reaction: n,tot

Product: Na-24

Quantity: CS

Energy range(eV): 0..20e+6

Last modified: 1970-01-01..2001-12-31

Extended Criteria

1-st Author: Norman

Country: CAN; GER

Laboratory: USAANL; GERKFK; CCPFEI

Short Reference: J,NIM; 4,EXFOR

Publication year: 1970-2002

Area: 1; 3

WorkType: E

Full Reference: J,NIM,86,83;
R,INDC-156

Expert's part

Old Quantity: TOT

Block No: 17910

Hierarchy: 1; 3

Block ID: 5578-5580, 1, 500

Line ID: 13180-13200

Ranges

	Target	Product
Z:	<input type="checkbox"/> 13-15	<input type="checkbox"/> 13
A:	<input type="checkbox"/> 0,27	<input type="checkbox"/> 13
Isomer:	<input type="checkbox"/> M1,M2	<input type="checkbox"/> G,M1,M2

Special Option

Show full CINDA-blocks

12) Written: 116 Lines

Fig.3. CINDA: Request-Form