## Software of NDS EXFOR system

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### Software packages

Database maintenance: C/Java

- EXFOR  $\rightarrow$  SQL.XML
- ENDF  $\rightarrow$  SQL.XML
- CINDA  $\rightarrow$  SQL.XML
- $\sim$ 140 .C files, 70K lines

SQL.XML Load: Java

- EXFOR, ENDF, CINDA: SQL.XML → RDB
- ~160 .java files, 104K lines

### Local

**EXFOR** 

Core: Java

- EXFOR and Dictionaries classes
- Includes interpreters to: X4+, C5, Pro, X5
- Includes checking and utility codes
- Includes support of PDF database
- Used also in Web retrieval systems
- ~220 .java files, 120K lines

**ENDF** 

Core: Java

- ENDF classes
- ~37 .java files, 14K lines
- Used in Web retrieval systems

**ENSDF** 

Core: Java

- ENSDF classes
- ~33 .java files, 16K lines
- Used in MyEnsdf

MyExfor

Local ± Web

Web

- ZCHEX 17 .for files, 22K lines
- Interpreted to X4+, C5, etc

Retrieval systems

- EXFOR
- ENDF
- CINDA
- IBANDL
- ~280 .java files, 220K lines
- $\sim$ 75 .js files, 63K lines

Total: ~800 files, 630K lines

 $\sqrt{Alternative}$ 

Option to consider: stand-alone Web-system under VirtualBox /Ubuntu on Intel-CPU/

- - for individuals

for organizations

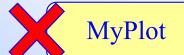
- on request
- Windows/Linux/MacOS



Checking code, Utilities Prepro, Grucon



- Checking codes, Utilities
- Analysis codes
- Interpreters to Endf+, XML
- JavaNDS, NDSPub



- ZVView online
- Display: my Data, MF3, MF33

NDS-NNDC database migration documentation



#### **EXFOR-Relational**

Experimental Nuclear Reaction Database Version 1.8

#### Maintenance Manual

by V.Zerkin

Created: October 2002 Last modified: 2 October 2003

Vienna-2003

## **Concluding remarks**

1. Software oriented to provide needed functionality of databases and services



2. Some of services will be shutdown (which?)



3. Web part of the system could not be publicly available due to IT security reasons (can be available on request similar to Mirror-sites)



4. Is there a need for further functioning of this system and maintenance of this software?



# Thank you.