

Software of NDS EXFOR system

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Software packages

Database maintenance:
C/Java

- EXFOR → SQL.XML
- ENDF → SQL.XML
- CINDA → SQL.XML
- ~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

ENSDF
Core: Java

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

ENDF
Core: Java

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

Local ± Web

Retrieval systems

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

Total: ~800 files, 630K lines

Alternative

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

- for organizations
- for individuals
- on request
- Windows/Linux/MacOS

 MyExfor

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

 MyEndf 

- Checking code, Utilities
- Prepro, Grucon

 MyEnsdf 

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

 MyPlot

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

Web

NDS-NNDC database migration documentation



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Maintenance Manual

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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.