Regular export from EXFOR to C4

V.Zerkin, IAEA-NDS, April 2010

C4 is a computational format widely used by various applications, such as: Empire, TALIS, EndVer, GANDR, etc. WPEC subgroup SG30 presents part of EXFOR community (so-called "large users") - evaluators and developers of applications regularly and intensively using experimental data. Their applications do not need all details presented in EXFOR entries, but they need <u>all data</u> from EXFOR presented in simplified standard form with minimum escort information.

Since 2007, SG30 group regularly receives from IAEA-NDS full EXFOR in C4 format, extended by information needed for applications. Last releases were done in 2009 - February, April (3), December and in February and April, 2010.

Web link: <http://www-nds.iaea.org/x4toc4-master/>

In addition these users are provided with "X4all" - full EXFOR in a directory structure: one ENTRY in one file. They also get summary table, describing all datasets which were successfully converted to C4: Subent, Target, Projectile, MF, MT, ranges in independent variables (energy, angle,..), number of points, first author, reaction-code, etc. These presentations of EXFOR database can also be useful for NRDC members for analysis and search of errors.

Statistics of the conversion to C4 can be seen from "standard" e-mail to SG30 group:

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From:        ZERKIN, Viktor
Sent:        Friday, 26 February 2010 10:11
To:          'sg30@nea.fr'
Subject:     Full EXFOR in C4 format on IAEA-NDS Web site

Dear SG30-Members,

Please, take next release of full EXFOR in C4 format:
     http://www-nds.iaea.org/x4toc4-master/?C=M;O=D
File               Size   Unzipped Contents
C4-2010-02-25.zip    79Mb   956Mb  Full.C4,EXFOR14A.DAT,Summary
X4-2010-02-25.zip   113Mb  491Mb  Full EXFOR: 19,178 files
c4err-2010-02-25.zip 401Kb  X4TOC4 debugging information

Summary of the contents:       EXFOR(IAEA)     C4
Last updated:                  18-Feb-2010    25-Feb-2010
Number of ENTRY with data:     18,445         12,686     (68.8%)
Number of SUBENT with data:    124,385
Number of Datasets:            137,552        75,285     (54.7%)
Number of data points          11,215,935     7,254,342 (64.7%)

Best regards,
Viktor
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