

## Analysis of JANIS Import Log (A28)

(N. Otsuka, N. Soppera, 2012-04-05)

NEA Data Bank creates a summary of “Error” and “Warning” messages when a new EXFOR Master File is imported to JANIS, and IAEA NDS receives it for further analysis.

### Error

If there is an unrecoverable format error (e.g., illegal SUBENT record, missing of heading), the program cannot continue further analysis and also cannot process (e.g., display, index) the subentry. This is called as “Error”. It is similar to the 1<sup>st</sup> stage of ZCHEX.

“Dic” is typically for new quantity, heading and unit codes and will be solved with a revised dictionary in general. “Format” is for basic formatting. Below is an example of Format error (EXFOR T0104.002) where a value “10” is given in the common section without its heading and unit.

SUBENT	T0104002	19990712
BIB	2	2
REACTION	(40-ZR-90(P,D)40-ZR-89,PAR,DA)	
ERR-ANALYS	(DATA-ERR)	Data-point reader uncertainty.
ENDBIB	2	
COMMON	1	3
ANG-ERR		
ADEG		
0.6	<b>10.</b>	
ENDCOMMON	3	

The following 11 subentries involving the Format errors have been registered to the EXFOR Feedback System. Corrections of these subentries with a priority are desirable for further processing.

14059.003

21532.003 23045.005-006,

40339.001, 40687.001

C1581.001

O1802.003

T0085.003, T0104.002-003 (Note: These are corrected in PRELIM.T022.)

### Warning

Illegal formatting and undefined codes under a specific keyword are typical examples of “Warning”. The majority of “Warning” is from empty SF4 (reaction product) for scattering process (SF3=EL, INL etc.). For keywords italicized in the table, the affected subentries are not a lot, and NDS sent corrected subentries to centres for their inclusion to their transmission (except for a few subentries).

## Current Status of Errors and Warnings

The table below shows improvement since the last meeting. The numbers of errors and warnings have been decreased for all types/keywords.

One should not forget that between June 24th 2011 and March 28th 2012 the EXFOR Master File has included new data. Currently all new preliminary tapes are checked against the JANIS TRANS Checker, and it also helps to suppress the number of the errors/warnings.

### Status of JANIS Import Log (Number of affected subentries)

Type/keyword	24 June 2011	28 March 2012
<b>1. Error</b>		
Dic	220	90
Format	49	14
<b>Sub total</b>	<b>269</b>	<b>104</b>
<b>2. Warning</b>		
<i>ASSUMED</i>	1	1
AUTHOR	260	233
DECAY-MON	11	3
DETECTOR	2	2
DOI	47	5
Format	39	20
<i>HISTORY</i>	2	1
<i>INC-SOURCE</i>	1	1
<i>INSTITUTE</i>	5	2
LEVEL-PROP	4	0
<i>METHOD</i>	7	6
<i>MONITOR</i>	3	2
MONIT-REF	299	274
PART-DET	77	75
<i>RAD-DET</i>	2	2
REACTION	1480	1438
REFERENCE	496	466
REL-REF	184	161
<i>RESULT</i>	2	1
<b>Sub Total</b>	<b>2922</b>	<b>2693</b>
<b>Grand Total</b>	<b>3191</b>	<b>2797</b>