### **CINDA-editor**

#### *V.Zerkin, IAEA-NDS, 06.10.2005*

Compiler edits the data in CINDA database performing some operations, like insert/delete/modify blocks/lines and save results in his database. All these changes are accumulated together with actions in the database as temporary. Than Compiler makes TRANS files (Exchange and Reader), dismiss all changes in the database and sends TRANS file to other Nuclear Data Centers. After approval procedure, all TRANS files (including own files) must be applied to the database and became permanent.

CINDA editor program was built as an extension of Java program used in CD "EXFOR-CINDA for Windows". Last CD-ROM distribution contains a batch file (ccompil.bat) running program X4java02 in CINDA compilation mode.

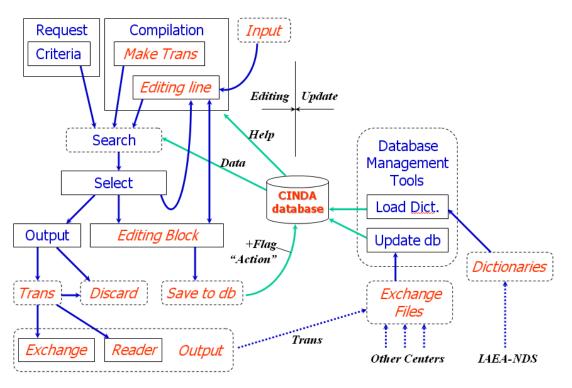


Fig.1 CINDA: data editing and database update

#### Editing process in details.

Editing actions provided by the program are following:

- Create new block and add lines to it
- Add lines to an existing block
- Delete line/block
- Modify line/block
- Attach block to an existing block (move)
- Move line to another block
- Save current editing; continue editing later in another session
- Output TRANS files and clean database

This functionality is implemented in the following way. Two new Tabs are added to existing panel: Compilation–Tab and CC-Help (CINDA Compilation Help). Compilation-Tab has 4 parts (areas):

- Block information: used as search criteria and for input of data of Block
- Line information: used for input/editing of the data of Line
- Edited block: contains Block in CINDA format which is currently edited with special flags for every line showing the status of the line
- Line related information: used for display of database internal information about edited line

Two Tabs existing in CD-ROM retrieval system have an extended functionality:

- Select-Tab: used to define block/line for editing, display flags of lines currently stored in the database, used for calls of editing functions via rightbutton pull down menu; have a buttons to make TRANS and dismiss accumulated changes in the database
- Output-Tab creates TRANS files in Exchange and Reader formats.

#### Editing existing data.

Process starts from a search of the data which should be edited. Then on Select-Tab by right-button click using pull-down menu compiler select Block for editing (now selected block appear in Block-edit area). From this menu (as well as from Block-edit area) a line can be copied to Line-edit area: line is disassembled to parts and prepared for editing. Other functions: Move line to edit-block area, Move block (attach) to edit-block area.

Values in Line-edit fields can be manually edited and/or taken from the Help-sytem based on EXFOR-CINDA dictionaries. When line is ready, compiler defines how s/he wants to store this line in Edit-block area: add new line or update edited Line: s/he does this by Edit-line actions at the bottom of Line-edit area. Block-edit area has also pull-down menu working for the actions for every line in the Block (Delete line, Restore line, Mark-up line, Edit line, etc.). On the top of Block-edit area there is a series of buttons for actions with the block when it is ready (Save in database, Restore from database, Restore original values, etc.).

#### Insert a new data.

Buttons "Block" on Compilation-Tab can be used for search of existing blocks with given BlockNo and Lab-code (compiler should define a BlockNo which is not yet occupied). Then compiler inputs data and codes for Block and Line and use action "New Block" or "Add Line". Then s/he edits block in the Block-edit area (same as described earlier) and store data in the database.

#### Make TRANS.

Button "Trans" on Compilation-Tab should be used to prepare a new TRANS: program will search for update Lines accumulated in the database and display them in Selection-Tab. Button "Roll-Back" Selection-Tab allow to dismiss all changes made until now in the database; button "Out Trans" makes two TRANS files (Exchange and Reader). These files can be stored locally and sent to other Centers...

Pictures in Appendix illustrate editing process.

## Appendix 1.

😥 CINDA-Session 1	_ 🗆 🗵
Compilation CC-Help Request SQL Config About CINDA Help	CINDA
Search Reset Block? Updates Trans Example Show: Block I Line Info Area: 3NDS	
Block Information       Here you will         Target:       13-AL-27         Reaction:       N,TOT         Quantity:       CS         Laboratory:       1USAANL	<u>^</u>
Block No: ☐ 17910 Here you will	
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Line Information         Reader         Hierarchy         WorkType           Info:         1         >         +         >         1         >         E         >           Min (eV)         Max (eV)            > <t< td=""><td></td></t<>	
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Editing Line: Add Line Update *Line New Block Apply Block-Info	
Edit Block Block-edit area. Here you select Lines for editing and apply action to database	

**Compilation form. Starting point.** 

### Select form. Actions on the blocks and lines (pull-down menu is called by mouse right-button click).

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5)	M 13 27					1.5+065P,WASH-1068		, 5603Chien+,TBP NSEc
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	A 13 27	N, TOT	CS	1USAANL	17 13BZ 1.1+05	2.2+0764,EXFOR1120	19	7606.1000 PTS.
14)								

#### 🙆 CINDA-Session 1 Compilation CC-Help Request SQL Config About CINDA Help Select Output CINDA 💼 🔳 🕨 🖄 Location: ۰ EXFOR+CINDA/Java2 CINDA Compilation Help Compiler edits the data in database performing some operations, like insert/delete/modify blocks/lines and save resulting blocks in his database. All these changes are accumulated together with actions in the database as temporary. Than Compiler makes TRANS file, dismiss all changes in the database and sends TRANS file to other Nuclear Data Centers. After approval procedure, all TRANS files (including own file) must be applied to the database and became permanent. Left side column in Edit-block area: 1 2 3 columns: х new operation: will be applied by button "Save" marked line: it will be changed by button "Update line [\*]" x old operation stored in database blank line that was not changed after last trans c original line which was changed M update (modification) of changed ('C') line D original line which was changed A added line restore original value (before last trans) R kill edited block ('D' for all lines) к existing line to be deleted D existing line to be changed С . updated existing line (replacing line with new operation 'C') м existing line (from other block) moved to this block a new line added A kill existing block (other than edited) Κ delete existing line (from other block) D Browser... -Edit Block... 10) Written: 6 Lines

### Explanation of Action-codes of Lines of the Block-edit area (left side)

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dit Block:         BlockID=5591 J           Save         Restore         Restore-00           1)         13 27 N,TOT           2)         C 13 27 N,TOT           3)         H. 13 27 N,TOT           4)         13 27 N,TOT           5)         C 13 27 N,TOT           6)         C H 13 27 N,TOT           7)         H. 13 27 N,TOT           8)         13 27 N,TOT           9)         13 27 N,TOT           10)         D 13 27 N,TOT           11)         13 27 N,TOT           12)         13 27 N,TOT           13)         13 27 N,TOT           13)         13 27 N,TOT           14)         13 27 N,TOT	Image: state	=TOT Ins=IUSAANL Bloc Show result 17 IEC 3.2+05 1.5+ 17 2EC 3.2+05 1.5+ 17 2EC 3.2+05 1.5+ 17 3ECNDC Edit Line: 4 Mark Line: 4 Restore Original Line: 4 Show Line #13203 Close 17 9EC 3.0+05 1.5+ 17 1EC 3.2+05 1.5+	499) J,ACJ // DEN 498) J,ACR /J/ DEN 499) J,ACR/A /J/ DEN 499) J,ACR/A /J/ DEN 1063J,NSE,26,500 1063A,DA,26,6634 1065A,DA,26,6634 10664,EXFOR1201 10644,EXFOR1201	Acta Crystallographics Acta Crystallographics, Part A 196612Chien+ TOF, 0.8KEV R 196605Chien. VDG. DC+TOF. 196603Chien+, TDF NSE 196603Chien+, TBP NSE 196603Chien+, TBP NSE 196503Chien+, TBP NSE 196503Chien+, TBP NSE 196503Chien+, TBP NSE 196503Chien+, TBP NSE 196503Chien+, TBP NSE 196603Chien+, TBP NSE 1966
dit Block:         BlockID=5591           Save         Restore         Restore -00           1)         13         27         N,TOT           2)         C         13         27         N,TOT           2)         C         13         27         N,TOT           3)         H.         13         27         N,TOT           3)         H.         13         27         N,TOT           4)         13         27         N,TOT           5)         C         13         27         N,TOT           6)         C         H         13         27         N,TOT           7)         H.         13         27         N,TOT         9)         13         27         N,TOT           9)         13         27         N,TOT         10)         D         13         27         N,TOT           10)         D         13         27         N,TOT         13         13         27         N,TOT           13)         13         27         N,TOT         13         13         27         N,TOT           14)         13         27         N,TOT         13	IS-AL-27 (N, TOT) Q Kill Empty CS 1USAANL CS 1USAANL	-TOT Ins=IUSAANL Bloc Show result 17 1EC 3.2+05 1.5+ 17 2EC 3.2+05 1.5+ 17 2EC 3.2+05 1.5+ 17 3ECNDC Edit Line: 4 Mark Line: 4 Restore Original Line: 4 Show Line #13203 Close 17 9EC 3.0+05 1.5+ 17 10EC 3.0+05 1.5+ 17 10EC 3.2+05 1.5+ 17 12Ex 3.5+05 1.5+ 17 12Ex 3.5+05 1.5+ 17 12Ex 3.5+05 1.5+ 17 12Ex 3.5+0	499) J,ACJ // DEN 499) J,ACZ // DEN 499) J,ACR // J DEN 499) J,ACR // J DEN 10063J,NSE,26,500 4063J,DA,26,6634 4063A,DA,26,6634 4063A,DA,26,6634 4063A,DA,26,6634 4063A,DA,26,6634 50,WASH-1068-1 50,WASH-100,WASH-100,WASH-100,WASH-100,WASH-100,WASH-100,WASH-100,WASH-100,WASH-100,WASH-100,WASH-100,WASH-100,W	Acta Crystallographica Acta Crystallographica, Part A
dit Block:         BlockID=5591           Save         Restore         Restore-00           1)         13         27         N,TOT           2)         C         13         27         N,TOT           2)         C         13         27         N,TOT           3)         H         13         27         N,TOT           3)         H         13         27         N,TOT           4)         13         27         N,TOT           6)         C         H         3         27         N,TOT           6)         C         H         3         27         N,TOT           7)         H         .         13         27         N,TOT           9)         13         27         N,TOT         10)         D         3         27         N,TOT           10)         D         3         27         N,TOT         13         13         27         N,TOT           13)         13         27         N,TOT         14)         13         27         N,TOT           15)         13         27         N,TOT         15)         A         13         27	IS-AL-27 (N, TOT) Q KIII Pempty CS IUSAANL CS IUSAANL	=TOT Ins=1USAANL Bloc Show result 17 1EC 3.2+05 1.5+ 17 2EC 3.2+05 1.5+ 17 2EC 3.2+05 1.5+ 17 3ECNDC EditLine: 4 Mark Line: 4 Restore Original Line: 4 Show Line #13203 Close 17 9EC 3.0+05 1.5+ 17 10EC 3.0+05 1.5+ 17 11EC 3.2+05 1.5+ 17 12Ex 3.2+05 1.0+ 17 13EZ 1.1+05 2.2+	499) J,ACJ // DEN 499) J,ACR // J / DEN 499) J,ACR // J / DEN 499) J,ACR // J / DEN 1063J,NSE,26,500 4063J,DA,26,6634 4063A,DA,26,6634 4063A,DA,26,6634 50,WASH-1068-1 50,WASH-1068-1 50,WASH-1068-1 50,WASH-1068-1 50,WASH-1068-1 50,WASH-1056,1 50,WASH-1056,1 50,WASH-1056,1 50,WASH-1056,1 50,WASH-1053,1 506550,WASH-1046,11 406644,EXF0R11201 40623,NSE,26,500 40764,EXF0R11201	Acta Crystallographica Acta Crystallographica Acta Crystallographica, Part A 196612Chient TOF, 0.8KEV R 196605Chien. VDC. DC+TOF. 196603Chient, VDC. DC+TOF. 196603Chient, TBP NSE 196603Chient, TBP NSE 196603Chient, TBP NSE 196603Chient, TOF+STEADY, H 196400Shient TOF+STEADY, H 196410.ABST Q13 196410Whalan RSLN1-10KEV N 196400Smith.TOF.ANS/M RSLN 196601Chient 197606.873 PTS. SIGHA. 197606.1000 PTS.
dit Block:         BlockID=5591           Save         Restore         Restore -00           1)         13         27         N,TOT           2)         C         13         27         N,TOT           2)         C         13         27         N,TOT           3)         H.         13         27         N,TOT           3)         H.         13         27         N,TOT           4)         13         27         N,TOT           5)         C         13         27         N,TOT           6)         C         H         13         27         N,TOT           7)         H.         13         27         N,TOT         9)         13         27         N,TOT           9)         13         27         N,TOT         10)         D         13         27         N,TOT           10)         D         13         27         N,TOT         13         13         27         N,TOT           13)         13         27         N,TOT         13         13         27         N,TOT           14)         13         27         N,TOT         13	IS-AL-27 (N, TOT) Q Kill Empty CS 1USAANL CS 1USAANL	-TOT Ins=IUSAANL Bloc Show result 17 1EC 3.2+05 1.5+ 17 2EC 3.2+05 1.5+ 17 2EC 3.2+05 1.5+ 17 3ECNDC Edit Line: 4 Mark Line: 4 Restore Original Line: 4 Show Line #13203 Close 17 9EC 3.0+05 1.5+ 17 10EC 3.0+05 1.5+ 17 10EC 3.2+05 1.5+ 17 12Ex 3.5+05 1.5+ 17 12Ex 3.5+05 1.5+ 17 12Ex 3.5+05 1.5+ 17 12Ex 3.5+0	499) J,ACJ // DEN 499) J,ACR // J / DEN 499) J,ACR // J / DEN 499) J,ACR // J / DEN 1063J,NSE,26,500 4063J,DA,26,6634 4063A,DA,26,6634 4063A,DA,26,6634 50,WASH-1068-1 50,WASH-1068-1 50,WASH-1068-1 50,WASH-1068-1 50,WASH-1068-1 50,WASH-1056,1 50,WASH-1056,1 50,WASH-1056,1 50,WASH-1056,1 50,WASH-1053,1 506550,WASH-1046,11 406644,EXF0R11201 40623,NSE,26,500 40764,EXF0R11201	Acta Crystallographica Acta Crystallographica, Part A
dit Block:         BlockID=5591           Save         Restore         Restore-00           1)         13         27         N,TOT           2)         C         13         27         N,TOT           2)         C         13         27         N,TOT           3)         H         13         27         N,TOT           3)         H         13         27         N,TOT           4)         13         27         N,TOT           6)         C         H         3         27         N,TOT           6)         C         H         3         27         N,TOT           7)         H         .         13         27         N,TOT           9)         13         27         N,TOT         10)         D         3         27         N,TOT           10)         D         3         27         N,TOT         13         13         27         N,TOT           13)         13         27         N,TOT         14)         13         27         N,TOT           15)         13         27         N,TOT         15)         A         13         27	IS-AL-27 (N, TOT) Q KIII Pempty CS IUSAANL CS IUSAANL	=TOT Ins=1USAANL Bloc Show result 17 1EC 3.2+05 1.5+ 17 2EC 3.2+05 1.5+ 17 2EC 3.2+05 1.5+ 17 3ECNDC EditLine: 4 Mark Line: 4 Restore Original Line: 4 Show Line #13203 Close 17 9EC 3.0+05 1.5+ 17 10EC 3.0+05 1.5+ 17 11EC 3.2+05 1.5+ 17 12Ex 3.2+05 1.0+ 17 13EZ 1.1+05 2.2+	499) J,ACJ // DEN 499) J,ACR // J / DEN 499) J,ACR // J / DEN 499) J,ACR // J / DEN 1063J,NSE,26,500 4063J,DA,26,6634 4063A,DA,26,6634 4063A,DA,26,6634 50,WASH-1068-1 50,WASH-1068-1 50,WASH-1068-1 50,WASH-1068-1 50,WASH-1068-1 50,WASH-1056,1 50,WASH-1056,1 50,WASH-1056,1 50,WASH-1056,1 50,WASH-1053,1 506550,WASH-1046,11 406644,EXF0R11201 40623,NSE,26,500 40764,EXF0R11201	Acta Crystallographica Acta Crystallographica Acta Crystallographica, Part A 196612Chient TOF, 0.8KEV R 196605Chien. VDC. DC+TOF. 196603Chient, VDC. DC+TOF. 196603Chient, TBP NSE 196603Chient, TBP NSE 196603Chient, TBP NSE 196603Chient, TOF+STEADY, H 196400Shient TOF+STEADY, H 196410.ABST Q13 196410Whalan RSLN1-10KEV N 196400Smith.TOF.ANS/M RSLN 196601Chient 197606.873 PTS. SIGHA. 197606.1000 PTS.

# Actions of lines and block, editing line field by field.

## Show result: how block will look after editing.

<b>@</b> 0	-4-	Block 1/1 2005/10/06	5 13:53:27						۵×
-B10	ock	ID=5591 13-AL-27(	N,TOT) Q	=TOT Ins=	IUSAA	ANL BlockNo=1	17		
1	L)	13 27 N,TOT	CS	lusaanl	17	1EC 3.2+05	1.5+063J,NSE,26,500	196612Chien+ TOF, 0.8KEV RSLN 19900117T0T	r
2	2)	13 27 N,TOT	CS	1USAANL	17	2EC 3.2+05	1.5+063A,DA,26,6634	19660520051006T0T	1
3	3)	13 27 N,TOT	CS	lusaanl	17	3 E C ND G	3J,NIM,39,185	196601Whalen+COMPUTER EXPT.NDG,CF BAP 9 6 19900117T0T	1
4	1)	13 27 N,TOT	CS	lusaanl	17	4E+ 3.0+05	1.5+065P,WASH-1068-1	196603 20051006T0T	1
5	5)	13 27 N,TOT	CS	lusaanl	17	5EC 5.0+05	1.5+065A,BAP,10,576	196506.ABST AC7 19900117T0T	1
e	5)	13 27 N,TOT	CS	lusaanl	17	6EC 3.0+05	1.5+065P,WASH-1056,1	196503Chien+ TOF+STEADY, HI RSLN, TBC 19900117T0T	1 1
7	7)	13 27 N,TOT	CS	lusaanl	17	8EC 3.0+05	1.5+065P,WASH-1053,1	196410Whalen.RSLN1-10KEV NDG 19900117T0T	r I
6	3)	13 27 N,TOT	CS	lusaanl	17	9EC 3.0+05	1.5+065P,WASH-1048,2	1964065mith.TOF.ANS/M RSLN,AND MONOERGBEAM 19900117T0T	r 1
S	9)	13 27 N,TOT	CS	lusaanl	17	10EC 3.0+05	1.5+065P,WASH-1046,11	196401Smith.VDG.RSLN .1NS/M.NDG TBC 19900117T0T	r
10	))	13 27 N,TOT	CS	lusaanl	17	11EC 3.2+05	1.5+0664,EXFOR11201.	197606.873 PTS. SIGMA. 19900117T0T	1
11	L)	13 27 N,TOT	CS	lusaanl	17	12Ex 3.2+05	1.0+062J,NSE,26,500	196601Chient X4A 20050926T0T	1
12	2)	13 27 N,TOT	CS	lusaanl	17	13EZ 1.1+05	2.2+0764,EXFOR11201	197606.1000 PTS. 20051006T0T	1
13	3)	13 27 N,TOT	CS	1USAANL	17	OEC 3.0+05	1.5+065R,AB0-ANN-	2005 ***********************************	1

### Make TRANS.

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Compilation CC-Help Request SQL Config About CINDA Help Select Output CINDA	A
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1) 13-AL-27(N,TOT),CS Q=TOT Ins=1USAANL BlockNo=17	
M 1 1USAANL 17 2 3.2+05 1.5+06 Expt Abst A,DA,26,6634 196605	
M 2 4 3.0+05 1.5+06 Expt Prog P,WASH-1068-1 196603 Chien+,TBP NSEc	
M 3 4 3.0+05 1.5+06 Expt Prog P,WASH-1068-1 196603 ===================================	
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Yes No Cancel	
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## Save Reader and Exchange files.

Scinda-Session 1	
Compilation CC-Help Request SQL Config About CINDA Help Select Output	CINDA
Output Format File	
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# View Reader file of TRANS.

INDA READER	NDS00120051	.006 6					
13 27 N,TOT	CS	lusaanl	17	2BC 3.2+0	05 1.5+063A,DA,26,6634	196605	20051006T0
13 27 N,TOT	CS	lusaanl	17	4E+ 3.0+0	05 1.5+065P,WASH-1068-	1 196603Chien+,TBP NSEc	20051006T0
13 27 N,TOT	CS	lusaanl	17	4E+ 3.0+0	05 1.5+065P,WASH-1068-	1 196603	20051006T0
13 27 N,TOT	CS	lusaanl	17	7EC 3.0+0	05 1.5+065A,BAP,9,651	196410.ABST Q13	19900117T0
13 27 N,TOT	CS	lusaanl	17	13EZ 1.1+0	05 2.2+0764,EXFOR11201	197606.1000 PTS.	20051006T0
13 27 N,TOT	CS	lusaanl	17	14EC 3.0+0	05 1.5+065R,AB0-ANN-	2005 ***********************************	20051006T0
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