

DAT/324-0

MEMORANDUM 4C-2/29

From : Hans Potters

[Handwritten signature]

Subject : Errors picked up by the CCDN version of the CHECKT programme of NDS.

13.6.72

INFORMATION COPY ONLY

Carlsund

31st May 1972

*filmed
- Albrecht*

*- Hjarme
- Lemley
- NDS*

1. General *Carlsund*

We have made operational the NDS CHECKT programme and have adapted it to our needs. At the same time we have added the checks on keywords which were still missing especially ISO-QUANT and STANDARD. This was a relatively easy job to do because of the clear way in which the programme was set up. We are very grateful to NDS that they made the programme available to CCDN. For CCDN the programme is in its final shape now.

We have run all the existing EXFOR tapes through the programme and we found some additional still unreported errors on TRANS 1001, 1002, 1003 and 3004 on which we reported in Memorandum 4C-2/27 and on TRANS 2001, 2002, 2003, 2004 and 2005 on which we reported in Memorandum 4C-2/28. In addition the errors found on TRANS 1005, 1006, 1007, 3005 and 4003 are reported as far as not yet done in the other 4C-memo's.

2. Additions to dictionary 14

We found a series of Quantities to be added to dictionary 14. They are listed in Table A. Those found on CCDN tapes are given together with their expansion.

3. Independent variable repeated

We found quite a lot of cases where the independent variable in the first column was repeated. We listed all the cases where this repetition is not obviously explained by the context ; i.e. it could be an error (see Table B). Thus this list belongs to the question mark category as defined in 4C-2/27 A1. The few cases we met on the CCDN tapes were checked against the source : they turned out to be correct.

4. A minor point for NNCSC : REC D for "received" can be REC'D as the apostrophe is a legitime EXFOR Symbol. BCD apostrophe has the EBCDIC value @ . There were also some other cases where this symbol was avoided.
5. With respect to TITLE we thought the convention was that titles should be given if they exist, so : for journals and most of the conference papers and reports. If they are given they should be given as they are, "misleading" or not. We will report on missing titles with above rules in mind. CCDN however feels this is a minor point.
6. Errors found by the checking programme

The notation is the same as in Memo's 4C-2/27 and 4C-2/28. Some of the errors in tape 4003 were already mentioned in the letter of NDS to Dr. Popov 30.11.1971.

They are marked with a 1. (see table C)

7. Answers to remarks on tapes

I feel quite guilty to have produced such long list of errors and possible errors and I can hardly expect a response on all the points in extensive memo's. A simple compromise seems to me that people go through the lists and put marks at each point as e.g.

I : will be corrected (important correction)

U : will be corrected (unimportant correction)

A : answer follow in 4C-Memo

C : checked and was Okay

etc... and sent a photocopy to each centre (one is enough). This will avoid lots of memo writing.

TABLE A

Code	e.g. in DSN	last transmission on tape
NU,, MXW	10144 002	1006
NU,, DL/MXW	10144 002	1006
EL/WID,, AV	10081 063	1006
EL, LEG, 2L2	10108 009	1006
INL,, AV	10108 056	1006
EL/WID, RED, 2G/AV	10114 008	1006
ETA,, MXW	10207 002	1006
NNP, DA, PAR, G	10095 034	1007
ND, DA, PAR, G	10095 034	1007
NA, DA, PAR, G	10095 039	1007
NP, DA, PAR, G	10095 045	1007
NNA, DA, PAR, G	10097 007	1007
NNP,, CN	20004 013	2001
	(N, NP) COMPOUND NUCLEUS CROSS-SECTION	
NA,, PAR/SPA	20095 002	2005
	PARTIAL (N, ALPHA) CROSS-SECTION SPECTRUM	
	AVERAGE	
NNP,, GND	30105 009	3005
NNP,, MS	30105 010	3005
N2N,, CN	30107 002	3005
NG, RI, GND	40062 006	4003

TABLE B

Tape	DSN	Independent variables repeated
1001	10009 002	.695333E 03, .867531E 03, .103969E 04, .121184E 04, .138397E 04 and all points beyond .146002E 04 of which several 3,4 and even 5 times repeated. Are they independent remeasurements ?
1002	10019 002	34. 70.
	10034 065	5.0000E-01, 6.0000E-01, 7.0000E-01, ^{a)} 8.0000E-01, 8.5000E-01, 9.0000E-01, 1.0000E+00 (3x), 1.1500E+00, 1.2000E-01, 1.2500E+00
	066	8.5000E-01, and all values beyond 1.0400E-01 except 1.1000E+00 and 1.4500E+00
	069	1.3500E+00
	070	1.2500E+00, 1.5000E+00 (3x)
	071	1.2500E+00, 1.4000E+00, 1.5000E+00 (5x)
	072	1.5000E+00, (4x)
	073	1.5000E+00 (3x)
	074	1.5000E+00 (3x)
	076	5.327E+02, 5.587E+02, 5.757E+2, 1.268E+03
	1003	10027 007
008		123.69, 137.92 (3x)
009		29.71, 45.74
010		66.75, 104.72, 137.92
014		16.24, 24.34, 89.77 and all values beyond 112.07
017		134.65
018		31.44, 39.90
019		61.53
023		16.87, 25.27, 76.81, 132.78, 139.66
10050 002		.676833, 1.118325, 1.348460
003		.596900, .597900, .598900, .969816 1.488022
10071 002	.374080, 1.408995	
10072 002	.269600, 1.279017, 1.363046, 1.427068, 1.447090	
1004	10068 002	Between .1000+01 and .1400+01
	10069 002	several repetitions due to a too course
	10070 002	rounding off of the energy
	003	
	10177 002	
10178 002		

a) Corrected on tape 1006. See remark in Table C.

TABLE B(continued)

Tape	DSN	Independent variables repeated
1005	10136 003	1992.0
	10137 002	1082.4, 1399.9, 1414.0, 1415.2, 1416.4, 1565.2, 1568.4
	003	1114.2, 1527.8, 1530.2, 1693.2
	10179 037	1.4400E+00
1006	038	1.4400E+00, 1.4450E+00 (3x), 1.5000E+00 (3x)
	10048 086	1.3000E+00
	088	1.3220E+00, 1.3800E+00
	10073 125	7.4000E-01, 8.0000E-01 (3x), 8.4000E-01, 8.8000E-01, 9.0000E-01, 9.2000E-01, 1.0000E+00, 1.1500E+00, 1.2000E+00, 1.3000E+00
	126	7.0000E-01 (3x), 7.5000E-01, 8.0000E-01 (3x) 8.4000E-01, 9.0000E-01, 9.2000E-01, 1.0000E+00, 1.1500E+00, 1.2000E+00
	127	8.0000E-01 (3x), 8.4000E-01, 8.8000E-01, 9.0000E-01, 9.2000E-01, 1.0000E+00 (3x), 1.0400E+00, 1.1000E+00, 1.1500E+00, 1.2000E+00
	128	8.4000E-01
	10108 004	92.46
	008	32.95, 38.59
	010	38.93
	016	53.92
	037	39.10, 103.75, 109.21, 114.65
	039	39.29, 104.05, 109.49, 114.92
	041	109.80
043	104.56, 109.99, 115.40	
046	104.80, 110.22, 115.63	
048	110.42	
050	116.05	
10109 007	91.44	
008	92.47	
010	93.04	
011	32.76	
018	53.64	
022	53.64	
1007	10095 042	10.1 ^{b)}
3004	30114 009	11.00 (3x), 57.00, 80.00
3005	30076 014	453.18, 500, 26 ^{b)} , 549.63, 549.97, 583.35

b) Also Cross-section identical.

TABLE C

TRANS 1001

10031 008

ISO-QUANT
Parentheses missing

10065 003

FLAG
Invalid code

TRANS 1002

10034 001

? TITLE
Missing

TRANS 1003

10027 001

FACILITY
VAN DE GRAAFF misspelled

TRANS 1004

10055 001

? TITLE
Missing

TRANS 1005

10046 001

REFERENCE
NYO - 72 - should be NYO - 72 -

TRANS 1006

10034 065

DATA
Line 00032 T flag wrong. Line 00031 should have a D flag. Is this a bug in your ALTER programme ?
No correction needed.

10045 063

DATA
Line 00013 682. decimal point missing

10048 001

? TITLE
Missing.

10073 001

REFERENCE
Invalid blank in second Ref code.

003-135

HISTORY/STATUS
Missing

TABLE C (continued)

10081	039 } 042 } 045 } 057 }	<u>ISO-QUANT</u> Should be <u>EL/WID</u> , RED, G/AV Alternatively we have to enter both in dictionary 14
	048 } 051 } 054 } 060 }	<u>ISO-QUANT</u> Should be <u>EL/WID</u> , RED, AV
	057	<u>ISO-QUANT</u> Should be <u>EL/WID</u> , RED, G/AV
10094	090	<u>ISO-QUANT</u> Occurs twice
10108	001	<u>STANDARD</u>
10109	001	Should be <u>EL</u> , DA
10109	001	<u>HISTORY</u> Wrong character in date
10114	001	<u>ANALYSIS</u> Code should be <u>SHAPE</u>
	008	<u>ISO-QUANT</u> Should be <u>EL/WID</u> , RED, 2G/AV see also 10081 039 etc.
	009	<u>ISO-QUANT</u> Should be <u>EL</u> , POT
	010	<u>STANDARD/PART-DET</u> Missing resp. (ABSOL) and (N) Unless we drop ABSOL
10229	005	<u>ISO-QUANT</u> Should be <u>42-MO-92</u>
<u>TRANS 1007</u>		
10062	001	? <u>TITLE</u> Missing
10095	042	<u>RESID-NUC</u> Should be 5-B-11
10096	001	<u>INSTITUTE</u> Should be <u>1</u> USA ORL
	017	<u>ISO-QUANT</u> Syntaxe error
	023	<u>ISO-QUANT</u> Should be <u>((8-O-16,.....</u>

TABLE C (continued)

10097 002-003
008-010

ISO-QUANT
Should be ING, DA, PAR

TRANS 2001

20005 001

U STATUS
Expand : PRIVATE COMMUNICATION...

TRANS 2002

20010 001

U REFERENCE
Second line should start in Column 12.

TRANS 2003

20011 001

U REFERENCE
Second and 4th line should start in Column 12

TRANS 2004

20012 001

U REFERENCE
Second line should start in Column 12

TRANS 2005

20029 001

I STANDARD
Should be (79-AU-197, (2x)

20038 002-003

I CMPO-QUANT
Should be 1-H-D2O(Comp Memo 4C-3/54)

20048 001

I STANDARD
Should be (79-AU-197,

20060 002

I ISO-QUANT
Should be 82-PB-0 (instead of 00)

TRANS 3004

30063 008

ISO-QUANT
Third line parentheses in column 12, no code

30071 002

STANDARD
Quantity part missing ; should be
(ABSOL) ; see Memo 2/27 p.15

30079 021

ISO-QUANT
Third line parentheses in column 12, no code

TABLE C (continued)

006	<u>DETECTOR</u> NONE is an invalid code. As detector is not a slashed keyword it can be left out if no information is available
	1 <u>RESID-NUC</u> Should be (95-AM-242-G)
007	<u>DETECTOR</u> Leave it out ; see 006
	1 <u>RESID-NUC</u> see 003
008	<u>SAMPLE</u> Parenthesis in column 12 of free text
	<u>DETECTOR</u> Leave it out ; see 006
	<u>BIB</u> N2 should be 16
40068 001	<u>STANDARD</u> Code shifted
40073 003	<u>DATA</u> N2 shifted

Distribution

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5 Juin 1972

TABLE B

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1002	10019 002 10024 065	5.0000E-01, 6.0000E-01, 7.0000E-01, a) 8.0000E-01, 8.5000E-01, 9.0000E-01, 1.0000E+00 (3x), 1.1500E+00, 1.2000E-0, 1.2500E+00 8.5000E-01, and all values beyond 1.0400E-01 except 1.1000E+00 and 1.4500E+00 1.3500E+00 1.2500E+00, 1.5000E+00 (3x) 1.2500E+00, 1.4000E+00, 1.5000E+00 (5x) 1.5000E+00, (4x) 1.5000E+00 (3x) 1.5000E+00 (3x)
	066	5.327E+02, 5.587E+02, 5.757E+2, 1.268E+03
	069	29.72, 50.54
	070	123.69, 137.92 (3x)
	071	29.71, 45.74
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	073	16.24, 24.34, 39.77 and all values beyond 112.07
	074	134.65
	076	31.44, 39.90 61.53
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	008	.676833, 1.118325, 1.348460
	009	.596900, .597900, .598900, .969816
	010	1.488022
	014	.374080, 1.408995
	017	.269600, 1.279017, 1.363046, 1.427068, 1.447090
	018	Between .1000+01 and .1400+01 several repetitions due to a too coarse rounding off of the energy
	019	
	023	
	10050 002	
	003	
	10071 002	
	10072 002	
1004	10068 002 10069 002 10070 002 003 10177 002 10178 002	

a) Connected on tape 1006. See remarks in Table C.