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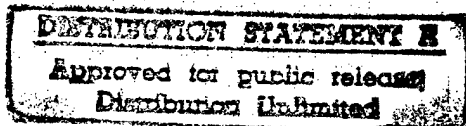
**Data Base Documentation for the  
Enhanced Computer  
Administered Tests**

**at  
Keesler AFB, Fort Sill,  
Fort Knox, and Fort Benning**

January 28, 1992

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13. ABSTRACT (Maximum 200 words) This report documents the Enhanced Computer Administered Tests (ECAT) database for Keesler AFB (MS), Fort Sill (OK), Fort Knox (KY), and Fort Benning (GA). The report describes the record layouts for all test scores and item responses and item latencies for the ECAT tests. All subjects completed a Pre-Enlistment Paper-and-Pencil Armed Services Vocational Aptitude Battery (PRE-P&P-ASVAB) prior to participating in this study. At the military bases, all subjects completed ECAT in the morning. In addition, RGI Test Administrators (TAs) collected personal data at Keesler AFB from each subject's DD Form 714A or 1966/1. RGI TAs administered more than one version of ECAT. At all sites, TAs began administering Version 2.0, which contains 93 records per case. At Fort Knox, TAs administered Version 2.0 throughout the entire study. Keesler AFB, Fort Sill, and Fort Benning switched to Version 5.0, which contains 97 records per case, on the following dates respectively: 11 March 1991, 03 May 1991, and 06 May 1991.			
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# CONTENTS

	Page
LIST OF TABLES .....	iii
INTRODUCTION .....	1
UNIFORM ECAT DATA REFORMAT .....	3
DATA ORGANIZATION .....	7
DATA FORMATS .....	9
Overview of Record Layout Tables .....	9
Data Analysis Files .....	10
Raw ECAT Files .....	10
APPENDIX A: PERSONNEL RECORD DATA - ETHNIC GROUP CODES .....	A-0
APPENDIX B: PERSONNEL RECORD DATA - LEVEL OF EDUCATION CODES .....	B-0
APPENDIX C: SAMPLE CASE: MERGED DATA ANALYSIS FILE .....	C-0
APPENDIX D: SAMPLE CASE: ECAT93.RAW2 (Version 2.0) .....	D-0
APPENDIX E: SAMPLE CASE: ECAT97.RAW5 (Version 5.0) .....	E-0

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## LIST OF TABLES

	Page
1. Data File Descriptions .....	2
2. Sequential Memory (SM) Item Relocation .....	4
3. List of File Formats for the Data Tapes .....	8
4. Personnel Record Data, Merged Data Analysis File .....	11
5. ECAT - Merged Data Analysis File .....	13
6. ECAT - Version 2.0 (93 - Records) .....	36
7. ECAT - Version 5.0 (97 - Records) .....	64

## INTRODUCTION

This report documents the Enhanced Computer Administered Tests (ECAT) data base for Keesler AFB (MS), Fort Sill (OK), Fort Knox (KY), and Fort Benning (GA). Before describing the data files, some introductory comments are in order regarding the experimental groups and test administration procedures.

All subjects completed a Pre-Enlistment Paper-and-Pencil Armed Services Vocational Aptitude Battery (PRE-P&P-ASVAB) prior to participating in this study. At the military bases, all subjects completed ECAT in the morning. In addition, RGI Test Administrators (TAs) collected personal data at Keesler AFB from each subject's DD Form 714A or 1966/1.

RGI TAs administered more than one version of ECAT. At all sites, TAs began administering Version 2.0, which contains 93 records per case. At Fort Knox, TAs administered Version 2.0 throughout the entire study. Keesler AFB, Fort Sill, and Fort Benning switched to Version 5.0, which contains 97 records per case, on the following dates respectively: 11 March 1991, 03 May 1991, and 06 May 1991. Table 1 presents the file names and file descriptions for the data files in this study.

**Table 1**  
**Data File Descriptions**

File Name <sup>a</sup>	File Description
KEES.MERGE	This file contains 2 lines of Personal data and 97 lines of ECAT data.
KEESERROR.MERGE	Error file for Keesler ECAT 97 merged files.
KEESECAT2.FUL93	Keesler RAW ECAT Non-Operational Test (Vers. 2.0) - 93 lines
KEESECAT5.FUL97	Keesler RAW ECAT Non-Operational Test (Vers. 5.0) - 97 lines
KEESPERS.FUL	Keesler Personal Data

<sup>a</sup> This table presents file names and descriptions for data collected from Keesler AFB. Only the first part of names change for comparable data files from Fort Knox (KNOX), Fort Sill (SILL), and Fort Benning (BENN).

## UNIFORM ECAT DATA REFORMAT

NPRDC requested that RGI reformat all versions of ECAT into a uniform, 97-record version, including some additional calculated variables. This section describes the reformatted ECAT data files.

ECAT Version 5.0 served as the template for the reformat. With this in mind, data base personnel first reformatted Subtest Headers and Subtest Summary Lines. We standardized Subtest Headers across all test versions and added the ECAT Raw Data Version No. and Beginning Test Date to the Header. For Subtest Summary Lines, we standardized the lines across all test versions. Also, where item level data were available, we calculated all Proportion Correct variables using only non-practice subtest items, instead of all attempted subtest items, as in the Raw ECAT versions.

Next, RGI reformatted the Sequential Memory (SM), Integrating Details (ID), Mental Counters (MC), Target Identification (TID), and One and Two Hand Tracking (TR1 and TR2) subtest data. Between Version 2.0 and later versions of ECAT, NPRDC relocated, but did not change, SM subtest items. RGI data base personnel relocated Version 2.0 SM items in the ECAT data analysis file as indicated in Table 2. In addition, we modified the SM subtest Accuracy Variable for each item across all SM subtest versions to indicate the number of digits correct. In previous versions a flag indicated whether or not all digits were correct for the item. Also, we modified the Proportion Attempted Variable on the Subtest Summary Line to reflect a correct range of 0.000 to 1.000, instead of 0.000 to 5.000, as before. Furthermore, RGI added two new variables to the Summary Line: Proportion of Digits Entered Correctly and Proportion of Subtest Items with all 5 Digits Correct. Finally, in the Data Analysis reformat of the Version 2.0 SM subtest, Item Response Latencies are missing since the Version 2.0 software does not save

**Table 2**

**Sequential Memory (SM) Item Relocation**

---

<b>Version 2.0 SM Item No.</b>	<b>Data Analysis SM Item No.</b>
1	2
2	3
3	6
4	8
5	1
6	4
7	5
8	7
9	9
10	10
11	11
12	13
13	14
14	18
15	22
16	25
17	28
18	30
19	33
20	34
21	12
22	15
23	16
24	17
25	19
26	20
27	21
28	23
29	24
30	26
31	27
32	29
33	31
34	32
35	35

---

that variable.

For the ID subtest, RGI changed the Subtest Header to reflect the total number of Quick Response Flags (both Integrate and Decision Times) for all items. We also changed the Mean Reaction Variables from arithmetic means to geometric means for Integrate Time and for Decision Time. We calculated the geometric means as follows:  $\text{antilog} ( \Sigma(\log(\text{Dec.or React. Time})) / n )$

Across all versions of the MC subtest, RGI changed the range of Item Responses from 0 - 3 to 1 - 4. Also, In the Data Analysis reformat of the Version 2.0 MC subtest, Item Response Latencies are missing since the Version 2.0 ECAT software does not save that variable.

For TID subtest summary values, RGI based all the values on 36 "pre-scored" actual items, instead of 39 (3 practice + 36 actual) items. RGI used the following procedure to "pre-score" items:

- (1) An item "time out" flag causes an "item incorrect" score.
- (2) For the Item Decision Time variable is less than 1.00 (100 msec.), we set the item to missing.
- (3) For the Item Response Time variable is less than 0.10 (10 msec.), we set the item to missing.
- (4) The reformat procedure does not consider Decision Time and Response Time values for calculations for any item flagged as incorrect or missing.

After "pre-scoring", the reformat procedure obtains the Median Decision Time variable and the Median Response Time variable of all valid (non-missing) items and calculates the Proportion Correct variable from all non-practice subtest items. All recalculated variables appear in the Subtest Summary line.

Finally, for TR1 and TR2 subtests, where possible, RGI based all calculations on 18 actual items, instead of all 24 subtest items (3 practice items, 3 "real" but unscored items, and 18 actual items). We also included a new variable, Standard Deviation of Avg.  $\text{Log} * 1000 + 1$  of RMS for valid items, in the Subtest

Summary Line. No data were available for recalculation of the Average RMS variable, which is based on all 24 subtest items. Therefore, data base personnel transferred the Average RMS variable directly from the Raw ECAT Version to the reformatted version.

## DATA ORGANIZATION

Data base personnel separated all versions of ECAT administered during this study into version-specific files then reformatted all versions into a uniform, 97-record version. Next, they organized the reformatted data into 4 files for Fort Knox and 5 files for Keesler AFB, Fort Sill, and Fort Benning. They then copied these files to three tapes in the NPRDC Tape Library and made a copy of each tape. The tape User Name is Moreno and the Volume Description is RGI. The tapes are 9 track with a density of 6250 (bpi) and are in the EBCDIC format. Table 3 presents the file formats for these tapes. The first column in these tables indicates the NPRDC Tape Library number, the second column indicates the name of the file, and the third column indicates its position on the tape. Columns 4 through 6 contain the record length, the block size, and the blocking factor, respectively. The seventh column presents the number of records in the file, and the last column indicates the number of examinees in the file.

**Table 3**

**List of File Formats for the Data Tapes**

Tape Number	File Name	File Number	Record Length	Block Size	Blocking Factor	Number of Records	N
1489 & 1508							a
	KEES.MERGE	1	80	4800	60	103752	1048
	KEESERROR.MERGE	2	80	4800	60	29	29
	KEESECAT2.FUL93	3	80	4800	60	31434	338
	KEESECAT5.FUL97	4	80	4800	60	67803	699
	KEESPERS.FUL	5	96	5760	60	1030	1030
0284 & 1881							b
	KNOX.MERGE	1	80	4800	60	197901	1999
	KNOXERROR.MERGE	2	80	4800	60	98	98
	KNOXECAT2.FUL93	3	80	4800	60	177258	1906
	KNOXPERS.FUL	4	96	5760	60	1994	1994
	BENN.MERGE	5	80	4800	60	113158	1143
	BENNERROR.MERGE	6	80	4800	60	122	122
	BENNECAT2.FUL93	7	80	4800	60	77097	829
	BENNECAT5.FUL97	8	80	4800	60	27742	286
	BENNPERS.FUL	9	96	5760	60	1049	1049
1710 & 3581							d
	SILL.MERGE	1	80	4800	60	90585	915
	SILLERROR.MERGE	2	80	4800	60	115	115
	SILLECAT2.FUL93	3	80	4800	60	49662	534
	SILLECAT5.FUL97	4	80	4800	60	35211	363
	SILLPERS.FUL	5	96	5760	60	818	818

Note. Data collection problems required RGI to blank-fill certain records for examinees for whom there are either no data or irregular data. The footnote below indicates where this occurred. RGI will deliver irregular data for these examinees under separate cover.

a  
KEES.MERGE has 11 ECAT blank-filled records.

b  
KNOX.MERGE has 93 ECAT blank-filled records.

c  
BENN.MERGE has 28 ECAT blank-filled records.

d  
SILL.MERGE has 18 ECAT blank-filled records.

## DATA FORMATS

This section begins with an overview of the record layout tables. The last two sections describe the merged data file and the two raw ECAT data files.

### Overview of Record Layout Tables

Tables for each type of file document the COLUMN NUMBERS, the VARIABLE FORMAT and DESCRIPTION, and the VALID RANGES and VALUES. The FORMAT heading uses the following standard notation:

"<type> <size>"

where <type> is one of:

I for Integer Data  
F for Floating Point Data  
A for ASCII Data

and <size> describes the length of the field. Note that in the format "F 7.3", the "7" refers to the total length of the field *including the decimal point*, and the "3" refers to the number of digits *after* the decimal point, for example: "123.456". An optional repetition factor may precede the FORMAT:

"<count> <type> <size>"

for example:

3 (I 2)

indicates that the field "I 2" (a 2-digit integer field) occurs 3 times.

All ECAT record layouts use the following abbreviations for ECAT subtests:

<u>Test Name and File Order</u>	<u>Abbreviations</u>
Sequential Memory	SM
Spatial Reasoning	SR
Integrating Details	ID
Assembling Objects	AO
(Spatial) Orientation	OR
Mental Counters	MC
Target Identification	TID
One-Hand Tracking	TR1
Two-Hand Tracking	TR2

One or more BLANKs separate most data fields. Since the end of one field and the beginning of another imply BLANKs, this report does not include explicit descriptions of the BLANK fields unless needed for clarity.

#### Data Analysis Files

Tables 4 and 5 provide a description of the merged data analysis file for examinees who took the ECAT at one of the military bases (eg. KEESLER.MERGE). Table 4 describes records 1 and 2, personal data, while Table 5 describes records 3-99, ECAT data. A sample case of the merged data analysis file appears in Appendix C. It may be beneficial to follow along with these data when reviewing the field descriptions in Tables 4 and 5.

#### Raw ECAT Files

Table 6 provides a description of the 93-record Version 2.0 ECAT file for examinees who took ECAT at the beginning of the study. For example, all Keesler examinees through 11 March 1991 completed ECAT Version 2.0, and the filename for this data is KEESECAT2.FUL93. A sample case of the Version 2.0 ECAT appears in Appendix D. It may be beneficial to follow along with these data when reviewing the field descriptions in Table 6.

Table 7 provides a description of all 97-record versions of ECAT administered to examinees at the end of the study. For example, all Keesler examinees after 11 March 1991 completed ECAT Version 5.0, and the filename for this data is KEESECAT.FUL97. A sample case is included in Appendix E. It may be beneficial to follow along with these data when reviewing the field descriptions in Table 7.

Table 4. PERSONNEL RECORD DATA  
 MERGED DATA ANALYSIS FILE  
 (Line Numbers 01-02)

Line 01 -- Demographic/Merge Status Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I9	Social Security Number	DIGITS
10-24	A15	Last Name	ALPHA
25-34	A10	First Name	ALPHA
35	A1	Middle Initial	ALPHA
36-40	I5	Zip Code	DIGITS
41-44	A4	Citizenship Code	For Keesler AFB the following codes apply: USA = United States UK = United Kingdom or First four characters of native country For Ft. Knox, Ft. Sill, and Ft. Benning the following codes apply: AD=US National (non-citz.) AY=US National (non-citz.) CA=US Citizen (native) CB=US Citizen (naturalized parents) CC=US Citizen Born Outside Continental USA CD=Naturalized US Citizen CY=US Citizen (other) NY=Non-US Citizen NZ=Non-US Citizen ZD=Non-US Citizen
45	A1	Gender	M=Male
46	A1	Population Group	C=Caucasian M=Asian N=Black R=American Indian X=Other
47	A1	Ethnic Group	(See Appendix A)
48	I1	Merge Status Flag	A=All Data Present B=Personal Data Missing E=ECAT Data Missing F=ECAT and Personal Data Missing

Table 4 (continued)

Line 02 -- Military Occupational Qualification Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-06	3(I2)	Date of Birth (YYMMDD)	Year=00 to 99 Month=01 to 12 Day=01 to 31
07-08	I2	Years of Education	01-18
09	A1	Achieved Level of Education	(See Appendix B)
10-12	A3	Pre-enlistment ASVAB Form	11-19 followed by A, B, or C or 01C or 02C
13-14	I2	Pre-enlistment GS Raw Score	00 to 25
15-16	I2	Pre-enlistment AR Raw Score	00 to 30
17-18	I2	Pre-enlistment WK Raw Score	00 to 35
19-20	I2	Pre-enlistment PC Raw Score	00 to 15
21-22	I2	Pre-enlistment NO Raw Score	00 to 50
23-24	I2	Pre-enlistment CS Raw Score	00 to 84
25-26	I2	Pre-enlistment AS Raw Score	00 to 25
27-28	I2	Pre-enlistment MK Raw Score	00 to 25
29-30	I2	Pre-enlistment MC Raw Score	00 to 25
31-32	I2	Pre-enlistment EI Raw Score	00 to 20
33-34	I2	Pre-enlistment VE Raw Score	00 to 50
35-40	3(I2)	Pre-enlistment ASVAB Date (YYMMDD)	Year=00 to 99 Month=01 to 12 Day=01 to 31
41-42	I2	AFQT Percentile Score	00 to 99
43-45	A3	Military Occupational Specialty Code	For Keesler AFB: 272=Air Traffic Controller 732=Personnel Specialist For Ft. Sill: 13F=Artillery Specialist For Ft. Knox: 19K=M1 Tank Crewman For Ft. Benning: 11H=Tow Missile Specialist
46	A1	Military Enlisted Rank	For Ft. Sill & Ft. Benning 1=Basic Recruit For Ft. Knox: 0=Private For Keesler AFB: 3=Basic Recruit
47	A1	Military Skill Qualifications	0 = No additional skill qual.
48-49	I2	MEPS Identification Code	00 to 99

# Table 5. ECAT - MERGED DATA ANALYSIS FILE

(Line Numbers 03 - 99)

## Section: SEQUENTIAL MEMORY (Line Numbers 03-13)

Line Number 03 -- [SM] Subtest Personal Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I9	Social Security Number	DIGITS
11-13	F3.1	ECAT System Version Number	5.0,4.0,3.5,3.0,2.0
15-20	I6	ECAT System Version Date	910307=5.0 910312=4.0 910326=3.5 901203=3.0 900817=2.0
22-27	I6	Birth Date (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
29	I1	Gender	1 = Male 2 = Female
31	I1	Education Level	1 = College, 1 Yr. or More 2 = H.S. Graduate 3 = 9-11 Yrs. 4 = 8 Yrs. or Less 5 = 12 Yrs. But Didn't Graduate
33	I1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Other
35	I1	Is Examinee Right Handed?	1 = Yes 2 = No
37-39	F3.1	SM Software Version	0.0=ECAT Ver.2.0 1.1=ECAT Ver.3.0 - 5.0
41-44	I4	Instruction Time (in seconds)	0 to 9999, -1 = Missing
46-49	I4	Test Time (in seconds)	0 to 9999, -1 = Missing
51-52	I2	Total "Jumps" (Quick Answers)	0 to 35, -1 = Missing

Table 5 (continued)

Line Numbers 04-12 -- [SM] Item Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<p><b>NOTES:</b> Each test item contains 3 fields. Each test item is separated by 4 BLANKS. Each line contains 4 test items except for LINE 12 which contains 3 test items and 4 trailing BLANKS. LINES 04-12 contain SM Item Data for SM Subtest Items 1 through 35. Please note that *99999* may appear as both a valid item response, and a *Missing* flag. The first line is given below as an example.</p>			
01-05	I5	Item Response for SM Item 1	DIGITS, 99999 = Missing
07-13	F7.3	Item 1 Response Latency (seconds)	0.000 to 999.999 -1.000 = Missing
15-16	I2	Number of Digits Correct - Item 1	0 to 5, -1 = Missing
17-20	A4	Separating Blanks	BLANK
21-25	I5	Item Response for SM Item 2	DIGITS, 99999 = Missing
27-33	F7.3	Item 2 Response Latency (seconds)	0.000 to 999.999 -1.000 = Missing
35-36	I2	Number of Digits Correct - Item 2	0 to 5, -1 = Missing
37-40	A4	Separating Blanks	BLANK
41-45	I5	Item Response for SM Item 3	DIGITS, 99999 = Missing
47-53	F7.3	Item 3 Response Latency (seconds)	0.000 to 999.999 -1.000 = Missing
55-56	I2	Number of Digits Correct - Item 3	0 to 5, -1 = Missing
57-60	A4	Separating Blanks	BLANK
61-65	I5	Item Response for SM Item 4	DIGITS, 99999 = Missing
67-73	F7.3	Item 4 Response Latency (seconds)	0.000 to 999.999 -1.000 = Missing
75-76	I2	Number of Digits Correct - Item 4	0 to 5, -1 = Missing
Line Number 13 -- [SM] Subtest Summary			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-07	F7.3	Average Item Response Latency	0.000 to 999.999 -1.000 = Missing
09-15	F7.3	Proportion of Digits Entered Correctly	0.000 to 1.000 -1.000 = Missing
17-23	F7.3	Proportion of Digits Attempted	0.000 to 1.000 -1.000 = Missing
25-31	F7.3	Proportion of All SM Subtest Items with 5 Digits Correct	0.000 to 1.000 -1.000 = Missing

**Table 5. ECAT - MERGED DATA ANALYSIS FILE**  
**Section: SPATIAL REASONING (Line Numbers 14-23)**

Line Number 14 -- [SR] Subtest Personal Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I9	Social Security Number	DIGITS
11-13	F3.1	ECAT System Version Number	5.0,4.0,3.5,3.0,2.0
15-20	I6	ECAT System Version Date	910307=5.0 910312=4.0 910326=3.5 901203=3.0 900817=2.0
22-27	I6	Birth Date (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
29	I1	Gender	1 = Male 2 = Female
31	I1	Education Level	1 = College, 1 Yr. or More 2 = H.S. Graduate 3 = 9-11 Yrs. 4 = 8 Yrs. or Less 5 = 12 Yrs. But Didn't Graduate
33	I1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Other
35	I1	Is Examinee Right Handed?	1 = Yes 2 = No
37-39	F3.1	SR Software Version	0.0=ECAT Ver.2.0 2.2=ECAT Ver.3.0 - 5.0
41-44	I4	Instruction Time (in seconds)	0 to 9999, -1 = Missing
46-49	I4	Test Time (in seconds)	0 to 9999, -1 = Missing
51-52	I2	Total "Jumps" (Quick Answers)	0 to 35, -1 = Missing

Table 5 (continued)

Line Numbers 15-22 -- [SR] Item Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<p><b>NOTES:</b> Each test item contains 3 fields. Each test item is separated by 4 BLANKS. Each line contains 4 test items except for LINE 22 which contains 2 test items and 4 trailing BLANKS. LINES 15-22 contain SR Item Data for SR Subtest Items 1 through 30. The first line is given below as an example.</p>			
01-02	I2	Item Response for SR Item 1	1 to 5, -1 = Missing
04-10	F7.3	Item 1 Response Latency (seconds)	0.000 to 999.999 -1.000 = Missing
12-13	I2	Item Accuracy for SR Item 1	0 = Incorrect, 1 = Correct, -1 = Missing
14-17	A4	Separating Blanks	BLANK
18-19	I2	Item Response for SR Item 2	1 to 5, -1 = Missing
21-27	F7.3	Item 2 Response Latency (seconds)	0.000 to 999.999 -1.000 = Missing
29-30	I2	Item Accuracy for SR Item 2	0 = Incorrect, 1 = Correct, -1 = Missing
31-34	A4	Separating Blanks	BLANK
35-36	I2	Item Response for SR Item 3	1 to 5, -1 = Missing
38-44	F7.3	Item 3 Response Latency (seconds)	0.000 to 999.999 -1.000 = Missing
46-47	I2	Item Accuracy for SR Item 3	0 = Incorrect, 1 = Correct, -1 = Missing
48-51	A4	Separating Blanks	BLANK
52-53	I2	Item Response for SR Item 4	1 to 5, -1 = Missing
55-61	F7.3	Item 4 Response Latency (seconds)	0.000 to 999.999 -1.000 = Missing
63-64	I2	Item Accuracy for SR Item 4	0 = Incorrect, 1 = Correct, -1 = Missing
Line Number 23 -- [SR] Subtest Summary			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-07	F7.3	Arithmetic Mean Item Response Latency	0.000 to 999.999 -1.000 = Missing
09-15	F7.3	Proportion of all Subtest Items Correct	0.000 to 1.000 -1.000 = Missing
17-23	F7.3	Proportion of all Subtest Items Attempted	0.000 to 1.000 -1.000 = Missing

**Table 5. ECAT - MERGED DATA ANALYSIS FILE**  
**Section: INTEGRATING DETAILS (Line Numbers 24-45)**

Line Number 24 -- [ID] Subtest Personal Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I9	Social Security Number	DIGITS
11-13	F3.1	ECAT System Version Number	5.0,4.0,3.5,3.0,2.0
15-20	I6	ECAT System Version Date	910307=5.0 910312=4.0 910326=3.5 901203=3.0 900817=2.0
22-27	I6	Birth Date (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
29	I1	Gender	1 = Male 2 = Female
31	I1	Education Level	1 = College, 1 Yr. or More 2 = H.S. Graduate 3 = 9-11 Yrs. 4 = 8 Yrs. or Less 5 = 12 Yrs. But Didn't Graduate
33	I1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Other
35	I1	Is Examinee Right Handed?	1 = Yes 2 = No
37-39	F3.1	ID Software Version	0.0=ECAT Ver.2.0 2.2=ECAT Ver.3.0,4.0 3.0=ECAT Ver.5.0,3.5
41-44	I4	Instruction Time (in seconds)	0 to 9999, -1 = Missing
46-49	I4	Test Time (in seconds)	0 to 9999, -1 = Missing
51-52	I2	Total Quick Response Flags	0 to 80, -1 = Missing

Table 5 (continued)

Line Numbers 25-44 -- [ID] Item Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<p><b>NOTES:</b> Each test item contains 5 fields. Each test item is separated by 5 BLANKS. Each line contains 2 test items. Lines 25-44 contain ID Item data for ID Subtest Items 1 through 40. The first two test items are given below as examples.</p>			
01-02	I2	Item #01 Scoring	0 = Incorrect 1 = Correct -1 = Missing
04-10	F7.3	Component Response Latency (Seconds looking at components)	0.000 to 999.999 -1.000 = Missing
12-13	I2	Quick Response Warning	0 = OK 1 = Warned -1 = Missing
15-21	F7.3	Decision Response Latency (Seconds deciding correct shape)	0.000 to 999.999 -1.000 = Missing
23-24	I2	Quick Response Warning	0 = OK 1 = Warned -1 = Missing
25-29	A5	Separating Blanks	BLANK
30-31	I2	Item #02 Scoring	0 = Incorrect 1 = Correct -1 = Missing
33-39	F7.3	Component Response Latency (Seconds looking at components)	0.000 to 999.999 -1.000 = Missing
41-42	I2	Quick Response Warning	0 = OK 1 = Warned -1 = Missing
44-50	F7.3	Decision Response Latency (Seconds deciding correct shape)	0.000 to 999.999 -1.000 = Missing
52-53	I2	Quick Response Warning	0 = OK 1 = Warned -1 = Missing
54	A1	Trailing Blank	BLANK

Table 5 (continued)

Line Number 45 -- [ID] Subtest Summary			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01	I1	Block Administration Order	1=Block Order 1,2,3,4 2=Block Order 2,1,4,3 3=Block Order 4,3,1,2 4=Block Order 4,3,2,1
03-09	F7.3	Geometric Mean Component Response Latency	0.000 to 999.999 -1.000 = Missing
11-17	F7.3	Geometric Mean Decision Response Latency	0.000 to 999.999 -1.000 = Missing
19-25	F7.3	Proportion of All Subtest Items Correct	0.000 to 1.000 -1.000 = Missing
27-33	F7.3	Proportion of all Subtest Items Attempted	0.000 to 1.000 -1.000 = Missing

**Table 5. ECAT - MERGED DATA ANALYSIS FILE**  
**Section: ASSEMBLING OBJECTS (Line Numbers 46-55)**

Line Number 46 -- [AO] Subtest Personal Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I9	Social Security Number	DIGITS
11-13	F3.1	ECAT System Version Number	5.0,4.0,3.5,3.0,2.0
15-20	I6	ECAT System Version Date	910307=5.0 910312=4.0 910326=3.5 901203=3.0 900817=2.0
22-27	I6	Birth Date (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
29	I1	Gender	1 = Male 2 = Female
31	I1	Education Level	1 = College, 1 Yr. or More 2 = H.S. Graduate 3 = 9-11 Yrs. 4 = 8 Yrs. or Less 5 = 12 Yrs. But Didn't Graduate
33	I1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Other
35	I1	Is Examinee Right Handed?	1 = Yes 2 = No
37-39	F3.1	AO Software Version	0.0=ECAT Ver.2.0 2.1=ECAT Ver.3.0 - 5.0
41-44	I4	Instruction Time (in seconds)	0 to 9999, -1 = Missing
46-49	I4	Test Time (in seconds)	0 to 9999, -1 = Missing
51-52	I2	Total "Jumps" (Quick Answers)	0 to 32, -1 = Missing

Table 5 (continued)

Line Numbers 47-54 -- [AO] Item Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<p><b>NOTES:</b> Each test item contains 3 fields. Each test item is separated by 4 BLANKS. Each line contains 4 test items. Lines 47-54 contain AO Item Data for AO Subtest Items 1 through 32. The first four AO Subtest Items are given below as examples.</p>			
01-02	I2	Item Response for AO Item 1	1 to 4, -1 = Missing
04-10	F7.3	Item 1 Response Latency (seconds)	0.000 to 999.999 -1.000 = Missing
12-13	I2	Item Accuracy for AO Item 1	0 = Incorrect, 1 = Correct, -1 = Missing
14-17	A4	Separating Blanks	BLANK
18-19	I2	Item Response for AO Item 2	1 to 4, -1 = Missing
21-27	F7.3	Item 2 Response Latency (seconds)	0.000 to 999.999 -1.000 = Missing
29-30	I2	Item Accuracy for AO Item 2	0 = Incorrect, 1 = Correct, -1 = Missing
31-34	A4	Separating Blanks	BLANK
35-36	I2	Item Response for AO Item 3	1 to 4, -1 = Missing
38-44	F7.3	Item 3 Response Latency (seconds)	0.000 to 999.999 -1.000 = Missing
46-47	I2	Item Accuracy for AO Item 3	0 = Incorrect, 1 = Correct, -1 = Missing
48-51	A4	Separating Blanks	BLANK
52-53	I2	Item Response for AO Item 4	1 to 4, -1 = Missing
55-61	F7.3	Item 4 Response Latency (seconds)	0.000 to 999.999 -1.000 = Missing
63-64	I2	Item Accuracy for AO Item 4	0 = Incorrect, 1 = Correct, -1 = Missing
Line Number 55 -- [AO] Subtest Summary			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-07	F7.3	Arithmetic Mean Item Response Latency	0.000 to 999.999 -1.000 = Missing
09-15	F7.3	Proportion of all Subtest Items Correct	0.000 to 1.000 -1.000 = Missing
17-23	F7.3	Proportion of all Subtest Items Attempted	0.000 to 1.000 -1.000 = Missing

Table 5. ECAT - MERGED DATA ANALYSIS FILE  
 Section: ORIENTATION (Line Numbers 56-63)

Line Number 56 -- [OR] Subtest Personal Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I9	Social Security Number	DIGITS
11-13	F3.1	ECAT System Version Number	5.0,4.0,3.5,3.0,2.0
15-20	I6	ECAT System Version Date	910307=5.0 910312=4.0 910326=3.5 901203=3.0 900817=2.0
22-27	I6	Birth Date (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
29	I1	Gender	1 = Male 2 = Female
31	I1	Education Level	1 = College, 1 Yr. or More 2 = H.S. Graduate 3 = 9-11 Yrs. 4 = 8 Yrs. or Less 5 = 12 Yrs. But Didn't Graduate
33	I1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Other
35	I1	Is Examinee Right Handed?	1 = Yes 2 = No
37-39	F3.1	OR Software Version	0.0=ECAT Ver.2.0 2.1=ECAT Ver.3.0 - 5.0
41-44	I4	Instruction Time (in seconds)	0 to 9999, -1 = Missing
46-49	I4	Test Time (in seconds)	0 to 9999, -1 = Missing
51-52	I2	Total "Jumps" (Quick Answers)	0 to 24, -1 = Missing

Table 5 (continued)

Line Numbers 57-62 -- [OR] Item Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<p><b>NOTES:</b> Each test item contains 3 fields. Each test item is separated by 4 BLANKS. Each line contains 4 test items. Lines 57-62 contain OR Item Data for OR Subtest Items 1 through 24. The first four OR Subtest Items are given below as examples.</p>			
01-02	I2	Item Response for OR Item 1	1 to 5, -1 = Missing
04-10	F7.3	Item 1 Response Latency (seconds)	0.000 to 999.999 -1.000 = Missing
12-13	I2	Item Accuracy for OR Item 1	0 = Incorrect, 1 = Correct, -1 = Missing
14-17	A4	Separating Blanks	BLANK
18-19	I2	Item Response for OR Item 2	1 to 5, -1 = Missing
21-27	F7.3	Item 2 Response Latency (seconds)	0.000 to 999.999 -1.000 = Missing
29-30	I2	Item Accuracy for OR Item 2	0 = Incorrect, 1 = Correct, -1 = Missing
31-34	A4	Separating Blanks	BLANK
35-36	I2	Item Response for OR Item 3	1 to 5, -1 = Missing
38-44	F7.3	Item 3 Response Latency (seconds)	0.000 to 999.999 -1.000 = Missing
46-47	I2	Item Accuracy for OR Item 3	0 = Incorrect, 1 = Correct, -1 = Missing
48-51	A4	Separating Blanks	BLANK
52-53	I2	Item Response for OR Item 4	1 to 5, -1 = Missing
55-61	F7.3	Item 4 Response Latency (seconds)	0.000 to 999.999 -1.000 = Missing
63-64	I2	Item Accuracy for OR Item 4	0 = Incorrect, 1 = Correct, -1 = Missing
Line Number 63 -- [OR] Subtest Summary			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-07	F7.3	Arithmetic Mean Item Response Latency	0.000 to 999.999 -1.000 = Missing
09-15	F7.3	Proportion of all Subtest Items Correct	0.000 to 1.000 -1.000 = Missing
17-23	F7.3	Proportion of all Subtest Items Attempted	0.000 to 1.000 -1.000 = Missing

Table 5. ECAT - MERGED DATA ANALYSIS FILE  
 Section: MENTAL COUNTERS (Line Numbers 64-75)

Line Number 64 -- [MC] Subtest Personal Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I9	Social Security Number	DIGITS
11-13	F3.1	ECAT System Version Number	5.0,4.0,3.5,3.0,2.0
15-20	I6	ECAT System Version Date	910307=5.0 910312=4.0 910326=3.5 901203=3.0 900817=2.0
22-27	I6	Birth Date (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
29	I1	Gender	1 = Male 2 = Female
31	I1	Education Level	1 = College, 1 Yr. or More 2 = H.S. Graduate 3 = 9-11 Yrs. 4 = 8 Yrs. or Less 5 = 12 Yrs. But Didn't Graduate
33	I1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Other
35	I1	Is Examinee Right Handed?	1 = Yes 2 = No
37-39	F3.1	MC Software Version	0.0=ECAT Ver.2.0 2.1=ECAT Ver.3.0 - 5.0
41-44	I4	Instruction Time (in seconds)	0 to 9999, -1 = Missing
46-49	I4	Test Time (in seconds)	0 to 9999, -1 = Missing
51-52	I2	Total "Jumps" (Quick Answers)	0 to 35, -1 = Missing

**Table 5 (continued)**

<b>Line Numbers 65-74 -- [MC] Item Data</b>			
<b>COLUMN</b>	<b>FORMAT</b>	<b>DESCRIPTION</b>	<b>VALID RANGES, VALUES</b>
<p><b>NOTES:</b> Each test item contains 3 fields. Each test item is separated by 4 BLANKS. Each line contains 4 test items. Lines 65-74 contain MC Item Data for MC Subtest Items 1 through 40. The first four MC Subtest Items are given below as examples. as examples.</p>			
01-02	I2	Item Response for MC Item 1	1 to 4, -1 = Missing
04-10	F7.3	Item 1 Response Latency (seconds)	0.000 to 999.999 -1.000 = Missing
12-13	I2	Item Accuracy for MC Item 1	0 = Incorrect, 1 = Correct, -1 = Missing
14-17	A4	Separating Blanks	BLANK
18-19	I2	Item Response for MC Item 2	1 to 4, -1 = Missing
21-27	F7.3	Item 2 Response Latency (seconds)	0.000 to 999.999 -1.000 = Missing
29-30	I2	Item Accuracy for MC Item 2	0 = Incorrect, 1 = Correct, -1 = Missing
31-34	A4	Separating Blanks	BLANK
35-36	I2	Item Response for MC Item 3	1 to 4, -1 = Missing
38-44	F7.3	Item 3 Response Latency (seconds)	0.000 to 999.999 -1.000 = Missing
46-47	I2	Item Accuracy for MC Item 3	0 = Incorrect, 1 = Correct, -1 = Missing
48-51	A4	Separating Blanks	BLANK
52-53	I2	Item Response for MC Item 4	1 to 4, -1 = Missing
55-61	F7.3	Item 4 Response Latency (seconds)	0.000 to 999.999 -1.000 = Missing
63-64	I2	Item Accuracy for MC Item 4	0 = Incorrect, 1 = Correct, -1 = Missing
<b>Line Number 75 -- [MC] Subtest Summary</b>			
<b>COLUMN</b>	<b>FORMAT</b>	<b>DESCRIPTION</b>	<b>VALID RANGES, VALUES</b>
01-07	F7.3	Arithmetic Mean Item Response Latency	0.000 to 999.999 -1.000 = Missing
09-15	F7.3	Proportion of all Subtest Items Correct	0.000 to 1.000 -1.000 = Missing
17-23	F7.3	Proportion of all Subtest Items Attempted	0.000 to 1.000 -1.000 = Missing

# Table 5. ECAT - MERGED DATA ANALYSIS FILE

## Section: TARGET IDENTIFICATION (Line Numbers 76-87)

Line Number 76 [TID] Subtest Personal Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I9	Social Security Number	DIGITS
11-13	F3.1	ECAT System Version Number	5.0,4.0,3.5,3.0,2.0
15-20	I6	ECAT System Version Date	910307=5.0 910312=4.0 910326=3.5 901203=3.0 900817=2.0
22-27	I6	Birth Date (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
29	I1	Gender	1 = Male, 2 = Female
31	I1	Education Level	1 = College, 1 Yr. or More 2 = H.S. Graduate 3 = 9-11 Yrs. 4 = 8 Yrs. or Less 5 = 12 Yrs. But Didn't Graduate
33	I1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Other
35	I1	Is Examinee Right Handed?	1 = Yes, 2 = No
38-43	3(I2)	Test Date (YYMMDD)	YY=00..99, MM=01..12, DD=01..31
45-50	3(I2)	Test Time (HHMMSS)	HH=00..23, MM=00..59, SS=00..59
52-55	F4.1	TID Software Version	0.0=ECAT Ver.2.0 10.1=ECAT Ver.3.0 - 5.0
57-62	I6	Instruction Time (in seconds)	0 to 999999, -1 = Missing
64-69	I6	Test Time (in seconds)	0 to 999999, -1 = Missing
71-74	I4	Pedestal Serial Number	1000 to 1999
76-80	F5.3	Graphics Screen Aspect Ratio	1.000

Table 5 (continued)

Line Number 77 -- [TID] Item ID Numbers (For Items #01-#20)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-03	I3	Item ID for Item #01	901, Missing = 999
05-07	I3	Item ID for Item #02	902, Missing = 999
09-11	I3	Item ID for Item #03	903, Missing = 999
13-15	I3	Item ID for Item #04	001, Missing = 999
17-19	I3	Item ID for Item #05	002, Missing = 999
21-23	I3	Item ID for Item #06	003, Missing = 999
25-27	I3	Item ID for Item #07	005, Missing = 999
29-31	I3	Item ID for Item #08	006, Missing = 999
33-35	I3	Item ID for Item #09	007, Missing = 999
37-39	I3	Item ID for Item #10	008, Missing = 999
41-43	I3	Item ID for Item #11	009, Missing = 999
45-47	I3	Item ID for Item #12	011, Missing = 999
49-51	I3	Item ID for Item #13	012, Missing = 999
53-55	I3	Item ID for Item #14	013, Missing = 999
57-59	I3	Item ID for Item #15	014, Missing = 999
61-63	I3	Item ID for Item #16	016, Missing = 999
65-67	I3	Item ID for Item #17	018, Missing = 999
69-71	I3	Item ID for Item #18	019, Missing = 999
73-75	I3	Item ID for Item #19	022, Missing = 999
77-79	I3	Item ID for Item #20	023, Missing = 999
Line Number 78 -- [TID] Item ID Numbers (For Items #21-#39)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-03	I3	Item ID for Item #21	024, Missing = 999
05-07	I3	Item ID for Item #22	026, Missing = 999
09-11	I3	Item ID for Item #23	027, Missing = 999
13-15	I3	Item ID for Item #24	028, Missing = 999
17-19	I3	Item ID for Item #25	029, Missing = 999
21-23	I3	Item ID for Item #26	030, Missing = 999
25-27	I3	Item ID for Item #27	031, Missing = 999
29-31	I3	Item ID for Item #28	033, Missing = 999
33-35	I3	Item ID for Item #29	034, Missing = 999
37-39	I3	Item ID for Item #30	036, Missing = 999
41-43	I3	Item ID for Item #31	038, Missing = 999
45-47	I3	Item ID for Item #32	039, Missing = 999
49-51	I3	Item ID for Item #33	040, Missing = 999
53-55	I3	Item ID for Item #34	042, Missing = 999
57-59	I3	Item ID for Item #35	043, Missing = 999
61-63	I3	Item ID for Item #36	044, Missing = 999
65-67	I3	Item ID for Item #37	045, Missing = 999
69-71	I3	Item ID for Item #38	046, Missing = 999
73-75	I3	Item ID for Item #39	048, Missing = 999

Table 5 (continued)

Line Number 79 -- [TID] Item "Hand Used" Indicators (For Items #01-#39)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTE: Each Indicator is one digit, separated by a SPACE			
See Note	39 (I 1)	Which Hand Was Used To Respond?	0 = UNKNOWN 1 = Right Hand 2 = Left hand 9 = Not Answered
Line Number 80 -- [TID] Item Response Accuracy (For Items #01-#39)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTE: Each Response Score is one digit, separated by a SPACE			
See Note	39 (I 1)	Item response accuracy	0 = Timeout 1 = Incorrect 2 = Correct 9 = Not Answered
Line Number 81 -- [TID] Item Decision Latencies (For Items #01-#15)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTE: Each Latency takes 4 columns, preceded by a SPACE.			
See Note	15 (F4.2)	Decision Secends (Pressing HOME)	0.00 to 9.99, -1 = Missing
Line Number 82 -- [TID] Item Decision Latencies (For Items #16-#30)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTE: Each Latency takes 4 columns, preceded by a SPACE.			
See Note	15 (F4.2)	Decision Secends (Pressing HOME)	0.00 to 9.99, -1 = Missing
Line Number 83 -- [TID] Item Decision Latencies (For items #31-#39)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTE: Each Latency takes 4 columns, preceded by a SPACE.			
See Note	9 (F4.2)	Decision Secends (Pressing HOME)	0.00 to 9.99, -1 = Missing

Table 5 (continued)

Line Number 84 -- [TID] Item Response Latencies (For Items #01-#15)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTE: Each Latency takes 4 columns, preceded by a SPACE.			
See Note	15 (F4.2)	Response Seconds (HOME to RESPONSE Button)	0.00 to 9.99, -1 = Missing
Line Number 85 -- [TID] Item Response Latencies (For Items #16-#30)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTE: Each Latency takes 4 columns, preceded by a SPACE.			
See Note	15 (F4.2)	Response Seconds (HOME to RESPONSE Button)	0.00 to 9.99, -1 = Missing
Line Number 86 -- [TID] Item Response Latencies (For Items #31-#39)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTE: Each Latency takes 4 columns, preceded by a SPACE.			
See Note	9 (F4.2)	Response Seconds (HOME to RESPONSE Button)	0.00 to 9.99, -1 = Missing
Line Number 87 -- [TID] Subtest Summary			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-02	I 2	Number - Attempted Non-practice Item	00 to 36, -1 = Missing
04-05	I 2	Number - Correct Non-practice Items	00 to 36, -1 = Missing
07-11	F 5.2	Median Average Correct Decision Time	0.00 to 9.99, -1 = Missing
13-17	F 5.2	Median Average Correct Response Time	0.00 to 9.99, -1 = Missing
19-25	F 7.3	Proportion - Non-practice Responses Correct	0.000 to 1.000, -1 = Missing
27-33	F 7.3	Proportion of Non-practice Items Attempted	0.000 to 1.000, -1 = Missing
35-36	I 2	Number of Times LT Hand Used	00 to 36, -1 = Missing
38-39	I 2	Number of Times RT Hand Used	00 to 36, -1 = Missing
41-42	I 2	Number of Times Unknown Hand	00 to 36, -1 = Missing

**Table 5. ECAT - MERGED DATA ANALYSIS FILE**  
**Section: ONE-HAND TRACKING (Line Numbers 88-93)**

Line Number 88 - [TR1] Subtest Personal Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I9	Social Security Number	DIGITS
11-13	F3.1	ECAT System Version Number	5.0,4.0,3.5,3.0,2.0
15-20	I6	ECAT System Version Date	910307=5.0 910312=4.0 910326=3.5 901203=3.0 900817=2.0
22-27	I6	Birth Date (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
29	I1	Gender	1 = Male, 2 = Female
31	I1	Education Level	1 = College, 1 Yr. or More 2 = H.S. Graduate 3 = 9-11 Yrs. 4 = 8 Yrs. or Less 5 = 12 Yrs. But Didn't Graduate
33	I1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Other
35	I1	Is Examinee Right Handed?	1 = Yes, 2 = No
38-43	3(I2)	Test Date (YYMMDD)	YY=00..99, MM=01..12, DD=01..31
45-50	3(I2)	Test Time (HHMMSS)	HH=00..23, MM=00..59, SS=00..59
52-55	F4.1	TR1 Software Version	0.0=ECAT Ver.2.0 10.1=ECAT Ver.3.0 - 5.0
57-62	I6	Instruction Time (in seconds)	0 to 999999, -1 = Missing
64-69	I6	Test Time (in seconds)	0 to 999999, -1 = Missing
71-74	I4	Pedestal Serial Number	1000 to 1999
76-80	F5.3	Graphics Screen Aspect Ratio	1.000

Table 5 (continued)

Line Number 89 -- [TR1] Item ID Numbers (for Items #01-#20)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-03	I 3	Item ID for Item #01	901, Missing = 999
05-07	I 3	Item ID for Item #02	902, Missing = 999
09-11	I 3	Item ID for Item #03	903, Missing = 999
13-15	I 3	Item ID for Item #04	801, Missing = 999
17-19	I 3	Item ID for Item #05	802, Missing = 999
21-23	I 3	Item ID for Item #06	803, Missing = 999
25-27	I 3	Item ID for Item #07	001, Missing = 999
29-31	I 3	Item ID for Item #08	015, Missing = 999
33-35	I 3	Item ID for Item #09	006, Missing = 999
37-39	I 3	Item ID for Item #10	008, Missing = 999
41-43	I 3	Item ID for Item #11	005, Missing = 999
45-47	I 3	Item ID for Item #12	010, Missing = 999
49-51	I 3	Item ID for Item #13	017, Missing = 999
53-55	I 3	Item ID for Item #14	012, Missing = 999
57-59	I 3	Item ID for Item #15	011, Missing = 999
61-63	I 3	Item ID for Item #16	009, Missing = 999
65-67	I 3	Item ID for Item #17	002, Missing = 999
69-71	I 3	Item ID for Item #18	016, Missing = 999
73-75	I 3	Item ID for Item #19	018, Missing = 999
77-79	I 3	Item ID for Item #20	003, Missing = 999
Line Number 90 -- [TR1] Item ID Numbers (for Items #21-#24)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-03	I 3	Item ID for Item #21	014, Missing = 999
05-07	I 3	Item ID for Item #22	007, Missing = 999
09-11	I 3	Item ID for Item #23	004, Missing = 999
13-15	I 3	Item ID for Item #24	013, Missing = 999
Line Number 91 -- [TR1] Log-Calculated RMS (for Items #01-#15)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTE: Each Log-calculated RMS is 4 digits, separated by a SPACE.			
See Note	15 (I 4)	LOG*1000+1 of Root Mean Square	0 to 9999, -1 = Missing

Table 5 (continued)

Line Number 92 -- [TR1] Calculated RMS (for Items #15-#24)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTE: Each Log-calculated RMS is 4 digits, separated by a SPACE.			
See Note	9 (I 4)	LOG*1000+1 of Root Mean Square	0 to 9999, -1 = Missing
Line Number 93 -- [TR1] Subtest Summary			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-02	I 2	JoyStick Used	1 = Right, 2 = Left, -1 = Missing
04-05	I 2	Number of 18 Valid (Scored) Items Attempted	00 to 18, -1 = Missing
07-13	F7.2	Standard Deviation-Avg. LOG*1000 +1 of RMS (Of Valid Items Attempted)	0.00 to 999.99, -1.00 = Missing
15-20	F 6.2	Average RMS Distance Off Target (Of All 24 Subtest Items)	0.00 to 999.99, -1.00 = Missing
22-25	I 4	Average LOG*1000+1 of RMS (Of Valid Items Attempted)	0 to 9999, -1 = Missing

**Table 5. ECAT - MERGED DATA ANALYSIS FILE**  
**Section: TWO-HAND TRACKING (Line Numbers 94-99)**

Line Number 94 -- [TR2] Personal Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I9	Social Security Number	DIGITS
11-13	F3.1	ECAT System Version Number	5.0,4.0,3.5,3.0,2.0
15-20	I6	ECAT System Version Date	910307=5.0 910312=4.0 910326=3.5 901203=3.0 900817=2.0
22-27	I6	Birth Date (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
29	I1	Gender	1 = Male, 2 = Female
31	I1	Education Level	1 = College, 1 Yr. or More 2 = H.S. Graduate 3 = 9-11 Yrs. 4 = 8 Yrs. or Less 5 = 12 Yrs. But Didn't Graduate
33	I1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Other
35	I1	Is Examinee Right Handed?	1 = Yes, 2 = No
38-43	3(I2)	Test Date (YYMMDD)	YY=00..99, MM=01..12, DD=01..31
45-50	3(I2)	Test Time (HHMMSS)	HH=00..23, MM=00..59, SS=00..59
52-55	F4.1	TR2 Software Version	0.0=ECAT Ver.2.0 10.1=ECAT Ver.3.0 - 5.0
57-62	I6	Instruction Time (in seconds)	0 to 999999, -1 = Missing
64-69	I6	Test Time (in seconds)	0 to 999999, -1 = Missing
71-74	I4	Pedestal Serial Number	1000 to 1999
76-80	F5.3	Graphics Screen Aspect Ratio	1.000

Table 5 (continued)

Line Number 95 -- [TR2] Item ID Numbers (for Items #01-#20)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-03	I 3	Item ID for Item #01	901, Missing = 999
05-07	I 3	Item ID for Item #02	902, Missing = 999
09-11	I 3	Item ID for Item #03	903, Missing = 999
13-15	I 3	Item ID for Item #04	801, Missing = 999
17-19	I 3	Item ID for Item #05	802, Missing = 999
21-23	I 3	Item ID for Item #06	803, Missing = 999
25-27	I 3	Item ID for Item #07	003, Missing = 999
29-31	I 3	Item ID for Item #08	016, Missing = 999
33-35	I 3	Item ID for Item #09	013, Missing = 999
37-39	I 3	Item ID for Item #10	007, Missing = 999
41-43	I 3	Item ID for Item #11	012, Missing = 999
45-47	I 3	Item ID for Item #12	006, Missing = 999
49-51	I 3	Item ID for Item #13	018, Missing = 999
53-55	I 3	Item ID for Item #14	008, Missing = 999
57-59	I 3	Item ID for Item #15	002, Missing = 999
61-63	I 3	Item ID for Item #16	009, Missing = 999
65-67	I 3	Item ID for Item #17	001, Missing = 999
69-71	I 3	Item ID for Item #18	011, Missing = 999
73-75	I 3	Item ID for Item #19	010, Missing = 999
77-79	I 3	Item ID for Item #20	005, Missing = 999
Line Number 96 -- [TR2] Item ID Numbers (for Items #21-#24)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-03	I 3	Item ID for Item #21	017, Missing = 999
05-07	I 3	Item ID for Item #22	014, Missing = 999
09-11	I 3	Item ID for Item #23	015, Missing = 999
13-15	I 3	Item ID for Item #24	004, Missing = 999
Line Number 97 -- [TR2] Calculated RMS (for Items #01-#15)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTE: Each Log-calculated RMS is 4 digits, separated by a SPACE.			
See Note	15 (I 4)	LOG*1000+1 of Root Mean Square	0 to 9999, -1 = Missing

Table 5 (continued)

Line Number 98 -- [TR2] Calculated RMS (for Items #16-#24)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTE: Each Log-calculated RMS is 4 digits, separated by a SPACE.			
See Note	9 (l 4)	LOG*1000+1 of Root Mean Square	0 to 9999, -1 = Missing
Line Number 99 -- [TR2] Subtest Summary			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-02	I 2	Number of 18 Valid (Scored) Items Attempted	00 to 18, -1 = Missing
04-10	F7.2	Standard Deviation-Avg. LOG*1000 +1 of RMS (Of Valid Items Attempted)	0.00 to 999.99, -1.00 = Missing
12-17	F 6.2	Average RMS Distance Off Target (Of All 24 Subtest Items)	0.00 to 999.99, -1.00 = Missing
19-22	I 4	Average LOG*1000+1 of RMS (Of Valid Items Attempted)	0 to 9999, -1 = Missing

Table 6. ECAT - Version 2.0 (93 records)  
 Section: SEQUENTIAL MEMORY (Line Numbers 01-14)

Line Number 01 -- [SM] Personal Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09 11-16	I 9 3 (I 2)	Social Security Number BirthDate (YYMMDD)	DIGITS Year = 00..99 Month = 01..12 Day = 01..31
18	I 1	Gender	1 = Male 2 = Female
20	I 1	Education Level	1 = College, 1 Yr or more 2 = H.S. Graduate 3 = 12 years but did not graduate 4 = 9 - 11 Years 5 = 8 Years or less
22	I 1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Tagalog 5 = Other
24	I 1	Is Examinee Right Handed?	1 = Yes 2 = No
Line Number 02 -- [SM] Subtest Times Data - First Half			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
02-05	I 4	Instruction Time in Seconds(First Half)	0 to 9999, -1 = Missing
07-10	I 4	Test Time in Seconds(First Half)	0 to 9999, -1 = Missing
12-13	I 2	Times Through Instructions(First Half)	0 to 9, -1 = Missing

**Table 6 (continued)**

**Line Number 03 -- [SM] Item Response Accuracies (For Items #01-#04)**

COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTES: Each Accuracy is two characters: ' ' or '-' and a digit followed by a space.			
See Note	4(I 2)	Item Response Accuracy	-1 = Missing 0 = Incorrect 1 = Correct
16-17	1 2	Sum of Accuracies (#01 - #04)	0 to 4, -1 = Missing

**Line Number 04 -- [SM] Item Responses (For Items #01-#04)**

COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTES: Each Response is five digits followed by a space.			
See Note	4(I 5)	Item Response	00000 to 99999, -1 = Missing

**Line Number 05 -- [SM] Item Response Accuracies (For Items #05-#10)**

COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTES: Each Accuracy is two characters: ' ' or '-' and a digit followed by a space.			
See Note	6(I 2)	Item Response Accuracy	0 = Incorrect 1 = Correct -1 = Missing
22-23	1 2	Sum of Accuracies (#05 - #10)	0 to 6, -1 = Missing

**Line Number 06 -- [SM] Item Responses (For Items #05-#10)**

COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTES: Each Response is five digits, followed by a space			
See Note	6(I 5)	Item Response	00000 to 99999, -1 = Missing

**Table 6 (continued)**

<b>Line Number 07 -- [SM] Median Response Times - Conditions 1 and 2</b>			
<b>COLUMN</b>	<b>FORMAT</b>	<b>DESCRIPTION</b>	<b>VALID RANGES, VALUES</b>
01-07	F 7.3	Median Response Time - Condition 1	0.000 to 999.999, -1.000 = Missing
10-16	F 7.3	Median Response Time - Condition 2	0.000 to 999.999, -1.000 = Missing
<b>Line Number 08 -- [SM] Subtest Times Data - Second Half</b>			
<b>COLUMN</b>	<b>FORMAT</b>	<b>DESCRIPTION</b>	<b>VALID RANGES, VALUES</b>
02-05	I 4	Instruction Time in Seconds (Second Half)	0 to 9999, -1 = Missing
07-10	I 4	Test Time in Seconds (Second Half)	0 to 9999, -1 = Missing
12-13	I 2	Times Through Instructions (Second Half)	0 to 9, -1 = Missing
<b>Line Number 09 -- [SM] Item Response Accuracies (For Items #11-#20)</b>			
<b>COLUMN</b>	<b>FORMAT</b>	<b>DESCRIPTION</b>	<b>VALID RANGES, VALUES</b>
NOTES: Each Accuracy is two characters: ' ' or '-' and a digit followed by a space.			
See Note	10(I 2)	Item Response Accuracy	0 = Incorrect 1 = Correct -1 = Missing
34-35	I 2	Sum of Accuracies (#11 - #20)	0 to 10, -1 = Missing
<b>Line Number 10 -- [SM] Item Responses (For Items #11-#20)</b>			
<b>COLUMN</b>	<b>FORMAT</b>	<b>DESCRIPTION</b>	<b>VALID RANGES, VALUES</b>
NOTES: Each Response is five digits, followed by a space			
See Note	10(I 5)	Item Response	00000 to 99999, -1 = Missing

Table 6 (continued)

Line Number 11 -- [SM] Item Response Accuracies (For Items #21-#35)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTES: Each Accuracy is two characters: ' ' or '-' and a digit followed by a space.			
See Note	15(I 2)	Item Response Accuracy	-1 = Missing 0 = Incorrect 1 = Correct
49-50	I 2	Sum of Accuracies (#21 - #35)	0 to 15, -1 = Missing
Line Number 12 -- [SM] Item Responses (For Items #21-#30)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTES: Each Response is five digits, followed by a space			
See Note	10(I 5)	Item Response	00000 to 99999, -1 = Missing
Line Number 13 -- [SM] Item Responses (For Items #31-#35)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTES: Each Response is five digits, followed by a space			
See Note	5(I 5)	Item Response	00000 to 99999, -1 = Missing

Table 6 (continued)

Line Number 14 -- [SM] Median Response Times - Conditions 3 and 4			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-07	F 7.3	Median Response Time - Condition 3	0.000 to 999.999, -1.000 = Missing
10-16	F 7.3	Median Response Time - Condition 4	0.000 to 999.999, -1.000 = Missing
18-23	F 6.3	Proportion Attempted	0.000 to 1.000, -1.000 = Missing
25-30	F 6.3	Proportion Correct	0.000 to 1.000, -1.000 = Missing
32-33	I 2	Number of Jumps - SM Subtest	0 to 35, -1 = Missing

Table 6. ECAT - Version 2.0 (93 records)

Section: SPATIAL REASONING (Line Numbers 15-22)

Line Number 15 - ISFI Personal Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I 9	Social Security Number	DIGITS
11-16	3 (I 2)	BirthDate (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
18	I 1	Gender	1 = Male 2 = Female
20	I 1	Education Level	1 = College, 1 Yr or more 2 = H.S. Graduate 3 = 12 years but did not graduate 4 = 9 - 11 Years 5 = 8 Years or less
22	I 1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Tagalog 5 = Other
24	I 1	Is Examinee Right Handed?	1 = Yes 2 = No
26-29	I 4	Instruction Time in Seconds	0 to 9999, -1 = Missing
31-34	I 4	Test Time in Seconds	0 to 9999, -1 = Missing
36-37	I 2	Number of Jumps for SR Subtest	0 to 35, -1 = Missing

Table 6 (continued)

Line Number 16 - [SF] Item Date			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<p>NOTES: Each line contains 5 test items. Each test item contains 3 fields. The following line 16 layout is repeated for lines 17-21, items #06-#30</p>			
01-02	I2	Item #01 Response	1 to 5,-1 = Missing
04-10	F7.3	Response Latency(Seconds)	0.000 to 999.999, -1.000 = Missing
12-13	I2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
17-18	I2	Item #02 Response	1 to 5,-1 = Missing
20-26	F7.3	Response Latency(Seconds)	0.000 to 999.999, -1.000 = Missing
28-29	I2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
33-34	I2	Item #03 Response	1 to 5,-1 = Missing
36-42	F7.3	Response Latency(Seconds)	0.000 to 999.999, -1.000 = Missing
44-45	I2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
49-50	I2	Item #04 Response	1 to 5,-1 = Missing
52-58	F7.3	Response Latency(Seconds)	0.000 to 999.999, -1.000 = Missing
60-61	I2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
65-66	I2	Item #05 Response	1 to 5,-1 = Missing
68-74	F7.3	Response Latency(Seconds)	0.000 to 999.999, -1.000 = Missing
76-77	I2	Response Scoring	0=Wrong, 1=Right, -1 = Missing

Table 6 (continued)

Line Number 22 -- [SR] Test Summary			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-07	F 7.3	Average Item Response Latency	0.000 to 720.000, -1.000 = Missing
09-14	F 6.3	Percent Correct	0.000 to 1.000, -1.000 = Missing
16-21	F 6.3	Percent Attempted	0.000 to 1.000, -1.000 = Missing

Table 6. ECAT - Version 2.0 (93 records)  
 Section: INTEGRATING DETAIL (Line Numbers 23-44)

Line Number 23 -- [ID] Personal Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I 9	Social Security Number	DIGITS
11-16	3 (I 2)	BirthDate (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
18	I 1	Gender	1 = Male 2 = Female
20	I 1	Education Level	1 = College, 1 Yr or more 2 = H.S. Graduate 3 = 12 years but did not graduate 4 = 9 - 11 Years 5 = 8 Years or less
22	I 1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Tagalog 5 = Other
24	I 1	Is Examinee Right Handed?	1 = Yes 2 = No
28-31	I 4	Instruction Time in Seconds	0 to 9999, -1 = Missing
33-36	I 4	Test Time in Seconds	0 to 9999, -1 = Missing
38-43	F 6.3	Percent Attempted	0.000 to 1.000, -1.000 = Missing

Table 6 (continued)

Line Numbers 24-43 -- [ID] Item Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<p>NOTES: Each line contains 2 test items. Each test item contains 5 fields. The following line 26 layout is repeated for lines 25-43, items #03-#40</p>			
02-03 06-12	I 2 F7.3	Item #01 Response Integrate Time - Item #1	0 to 1,-1 = Missing 0.000 to 999.999, -1.000 = Missing
14-15	I 2	Integrate Time Flag - Item #1	-1 = Missing 0 = Acceptable minimum integration latency 1 = Unacceptable minimum integration latency
18-24	F7.3	Decision Response Latency - Item #1	0.000 to 999.000, -1.000 = Missing
26-27	I 2	Decision Flag - Item #1	-1 = Missing 0 = Acceptable minimum decision latency 1 = Unacceptable minimum decision latency
33-34 37-43	I 2 F7.3	Item #02 Response Integrate Time - Item #2	0 to 1,-1 = Missing 0.000 to 999.999, -1.000 = Missing
45-46	I 2	Integrate Time Flag - Item #2	-1 = Missing 0 = Acceptable minimum integration latency 1 = Unacceptable minimum integration latency
49-55	F7.3	Decision Response Latency - Item #2	0.000 to 999.000, -1.000 = Missing
57-58	I 2	Decision Flag - Item #2	-1 = Missing 0 = Acceptable minimum decision latency 1 = Unacceptable minimum decision latency

Table 6 (continued)

Line Number 44 -- [ID] Test Summary			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
04-05	I 2	Block Administration Order	0 to 4, -1 = Missing
07-12	F6.3	Mean LOG10 Integrate Time	0.000 to 1.800, -1.000 = Missing
14-19	F6.3	Mean LOG10 Decision Time	0.000 to 1.800, -1.000 = Missing
21-22	I 2	Total Flags	0 to 80, -1 = Missing
24-29	F6.3	Percent Correct	0.000 to 1.000, -1.000 = Missing

Table 6. ECAT - Version 2.0 (93 records)

Section: ASSEMBLING OBJECTS (Line Numbers 45-54)

Line Number 45 -- [AO] Personal Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I 9	Social Security Number	DIGITS
11-16	3 (I 2)	BirthDate (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
18	I 1	Gender	1 = Male 2 = Female
20	I 1	Education Level	1 = College, 1 Yr or more 2 = H.S. Graduate 3 = 12 years but did not graduate. 4 = 9 - 11 Years 5 = 8 Years or less
22	I 1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Tagolog 5 = Other
24	I 1	Is Examinee Right Handed?	1 = Yes 2 = No
26-29	I 4	Instruction Time in Seconds	0 to 9999, -1 = Missing
31-34	I 4	Test Time in Seconds	0 to 9999, -1 = Missing
36-37	I 2	Number of Jumps - AO Subtest	0 to 32, -1 = Missing

Table 6 (continued)

Line Numbers 45-53 -- [AO] Item Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<p>NOTES: Each line contains 4 test items. Each test item contains 3 fields. The following line 46 layout is repeated for lines 47-53, items #05-#32</p>			
01-02 04-10	I 2 F7.3	Item #01 Response Response Latency(Seconds)	1 to 4,-1 = Missing 0.000 to 999.999, -1.000 = Missing
12-13	I 2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
18-19 21-27	I 2 F7.3	Item #02 Response Response Latency(Seconds)	1 to 4,-1 = Missing 0.000 to 999.999, -1.000 = Missing
29-30	I 2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
35-36 38-44	I 2 F7.3	Item #03 Response Response Latency(Seconds)	1 to 4,-1 = Missing 0.000 to 999.999, -1.000 = Missing
46-47	I 2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
52-53 55-61	I 2 F7.3	Item #04 Response Response Latency(Seconds)	1 to 4,-1 = Missing 0.000 to 999.999, -1.000 = Missing
63-64	I 2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
Line Number 54 -- [AO] Test Summary			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-07	F 7.3	Average Item Response Latency	0.000 to 720.000, -1 = Missing
09-14	F 6.3	Percent Correct	0.000 to 1.000, -1 = Missing
16-21	F 6.3	Percent Attempted	0.000 to 1.000, -1 = Missing

Table 6. ECAT - Version 2.0 (93 records)

Section: SPATIAL ORIENTATION (Line Numbers 55-63)

Line Number 57 -- [OR] Personal Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I 9	Social Security Number	DIGITS
11-16	3(I 2)	BirthDate (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
18	I 1	Gender	1 = Male 2 = Female
20	I 1	Education Level	1 = College, 1 Yr or more 2 = H.S. Graduate 3 = 12 years but did not graduate 4 = 9 - 11 Years 5 = 8 Years or less
22	I 1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Tagalog 5 = Other
24	I 1	Is Examinee Right Handed?	1 = Yes 2 = No
26-29	I 4	Instruction Time in Seconds	0 to 9999, -1 = Missing
31-34	I 4	Test Time in Seconds	0 to 9999, -1 = Missing
36-37	I 2	Number of Jumps for OR Subtest	0 to 24, -1 = Missing

Table 6 (continued)

Line Numbers 56-61 -- [OR] Item Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<p>NOTES: Each line contains 4 test items. Each test item contains 3 fields. The following line 56 layout is repeated for lines 57-61, items #05-#24</p>			
01-02 04-10	I 2 F7.3	Item #01 Response Response Latency(Seconds)	1 to 5,-1 = Missing 0.000 to 999.999, -1.000 = Missing
12-13	I 2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
18-19 21-27	I 2 F7.3	Item #02 Response Response Latency(Seconds)	1 to 5,-1 = Missing 0.000 to 999.999, -1.000 = Missing
29-30	I 2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
35-36 38-44	I 2 F7.3	Item #03 Response Response Latency(Seconds)	1 to 5,-1 = Missing 0.000 to 999.999, -1.000 = Missing
46-47	I 2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
52-53 55-61	I 2 F7.3	Item #04 Response Response Latency(Seconds)	1 to 5,-1 = Missing 0.000 to 999.999, -1.000 = Missing
63-64	I 2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
Line Number 62 -- [OR] Item Response Summary			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-07	F 7.3	Average Item Response Latency	0.000 to 600.000, -1.000 = Missing
10-15	F 6.3	Percent Correct	0.000 to 1.000, -1.000 = Missing
Line Number 63 -- [OR] Item Accuracy Summary			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-02	I 2	Number of Items Attempted	0 to 24, -1=Missing
04-05	I 2	Sum of Accuracies	0 to 24, -1=Missing

Table 6. ECAT - Version 2.0 (93 records)  
 Section: MENTAL COUNTERS (Line Numbers 64-68)

Line Number 64 -- [MC] Personal Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I 9	Social Security Number	DIGITS
11-16	3(I 2)	BirthDate (YMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
18	I 1	Gender	1 = Male 2 = Female
20	I 1	Education Level	1 = College, 1 Yr or more 2 = H.S. Graduate 3 = 12 years but did not graduate 4 = 9 - 11 Years 5 = 8 Years or less
22	I 1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Tagolog 5 = Other
24	I 1	Is Examinee Right Handed?	1 = Yes 2 = No
29-32	I 4	Instruction Time in Seconds	0 to 9999, -1 = Missing
34-37	I 4	Test Time in Seconds	0 to 9999, -1 = Missing
39-40	I 2	Times Through Instructions	0 to 9, -1 = Missing
42-47	F 6.3	Percent Attempted	0.000 to 1.000, -1.000 = Missing
49-50	I 2	Number of Jumps - MC Subtest	0 to 40, -1 = Missing

Table 6 (continued)

Line Numbers 65-68 -- [MC] Item Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<p>NOTES: Each line contains 10 test items. Each test item contains 2 fields. The following line 65 layout is repeated for lines 66-68, items #11-#40</p>			
01-02	12	Item #01 Response	0 to 3,-1 = Missing
04-05	12	Response Scoring	0=Wrong, 1=Right, -1 = Missing
08-09	12	Item #02 Response	0 to 3,-1 = Missing
11-12	12	Response Scoring	0=Wrong, 1=Right, -1 = Missing
15-16	12	Item #03 Response	0 to 3,-1 = Missing
18-19	12	Response Scoring	0=Wrong, 1=Right, -1 = Missing
22-23	12	Item #04 Response	0 to 3,-1 = Missing
25-26	12	Response Scoring	0=Wrong, 1=Right, -1 = Missing
29-30	12	Item #05 Response	0 to 3,-1 = Missing
32-33	12	Response Scoring	0=Wrong, 1=Right, -1 = Missing
36-37	12	Item #06 Response	0 to 3,-1 = Missing
39-40	12	Response Scoring	0=Wrong, 1=Right, -1 = Missing
43-44	12	Item #07 Response	0 to 3,-1 = Missing
46-47	12	Response Scoring	0=Wrong, 1=Right, -1 = Missing
50-51	12	Item #08 Response	0 to 3,-1 = Missing
53-54	12	Response Scoring	0=Wrong, 1=Right, -1 = Missing
57-58	12	Item #09 Response	0 to 3,-1 = Missing
60-61	12	Response Scoring	0=Wrong, 1=Right, -1 = Missing
64-65	12	Item #10 Response	0 to 3,-1 = Missing
67-68	12	Response Scoring	0=Wrong, 1=Right, -1 = Missing

Table 6 (continued)

Line Number 58 -- [MC] Item Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTES: The following variable is added to line #70.			
73-74	I 2	Sum of Accuracies	0 to 40, -1 = Missing

Table 6. ECAT - Version 2.0 (93 records)

Section: TARGET IDENTIFICATION (Line Numbers 69-80)

Line Number 69 -- [TID] Personal Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I 9	Social Security Number	DIGITS
11-16	3(I 2)	BirthDate (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
18	I 1	Gender	1 = Male 2 = Female
20	I 1	Education Level	1 = College, 1 Yr or more 2 = H.S. Graduate 3 = 12 years but did not graduate 4 = 9 - 11 Years 5 = 8 Years or less
22	I 1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Tagalog 5 = Other
24	I 1	Is Examinee Right Handed?	1 = Yes 2 = No
27-32	3(I 2)	Test Administration Date (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
34-39	3(I 2)	Test Administration Time (HHMMSS)	Hour = 00..24 Minutes = 01..59 Seconds = 01..59
43-46	I 4	Instruction Time in Seconds	0 to 1800, -1 = Missing
50-53	I 4	Test Time in Seconds	0 to 1800, -1 = Missing
55-58	I 4	Response Pedestal Serial Number	1000 to 1999
60-64	F5.3	Graphics Screen Aspect Ratio	1.000

Table 6 (continued)

Line Number 70 -- [TID] Item ID Numbers (for Items #01-#20)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<p>NOTES: Each item ID Number is 3 digits, separated by one SPACE.            Missing data is indicated with an ID Number of "999".            The first 3 item ID Numbers are given below as an example.</p>			
01-03	1 3	Item ID for Item #01	901, Missing = 999
05-07	1 3	Item ID for Item #02	902, Missing = 999
09-11 (etc)	1 3 (etc)	Item ID for Item #03 (etc)	903, Missing = 999 (etc)
<p>The complete list of item IDs for Items #01-#20 are as follows:</p> <p>901 902 903 001 002 003 005 006 007 008 009 011 012 013 014 016 018            019 022 023</p>			
Line Number 71 -- [TID] Item ID Number\$ (for Items #21-#39)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<p>Notes and format for LINE NUMBER 70 apply to LINE NUMBER 71.            The complete list of item IDs for Items #21-#39 are as follows:</p> <p>024 026 027 028 029 030 031 033 034 036 038 039 040 042 043 044 045            046 048</p>			
Line Number 72 -- [TID] "Hand Used" Indicators (for Items #01-#39)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<p>NOTE: Each indicator is one digit followed by a SPACE.</p>			
See Note	39(I 1)	Which Hand Was Used To Respond	0 = UNKNOWN 1 = Left Hand 2 = Right Hand

**Table 6 (continued)**

<b>Line Number 73 -- [TID] Item Response Accuracy (for Items #01-#39)</b>			
<b>COLUMN</b>	<b>FORMAT</b>	<b>DESCRIPTION</b>	<b>VALID RANGES, VALUES</b>
NOTE: Each Response Score is one digit, separated by a SPACE.			
See Note	39(I 1)	Item Response Accuracy	0 = No Data 1 = Incorrect 2 = Correct
<b>Line Number 74 -- [TID] Item Decision Latencies (for Items #01-#15)</b>			
<b>COLUMN</b>	<b>FORMAT</b>	<b>DESCRIPTION</b>	<b>VALID RANGES, VALUES</b>
NOTE: Each Latency takes 5 columns, not separated by a SPACE.			
See Note	15(F5.2)	Decision Times (Pressing HOME)	0.00 to 99.99, -1=Missing
<b>Line Number 75 -- [TID] Item Decision Latencies (for Items #16-#30)</b>			
<b>COLUMN</b>	<b>FORMAT</b>	<b>DESCRIPTION</b>	<b>VALID RANGES, VALUES</b>
NOTE: Each Latency takes 5 columns, not separated by a SPACE.			
See Note	15(F5.2)	Decision Times (Pressing HOME)	0.00 to 99.99, -1=Missing
<b>Line Number 76 -- [TID] Item Decision Latencies (for Items #31-#39)</b>			
<b>COLUMN</b>	<b>FORMAT</b>	<b>DESCRIPTION</b>	<b>VALID RANGES, VALUES</b>
NOTE: Each Latency takes 5 columns, not separated by a SPACE.			
See Note	9(F5.2)	Decision Times (Pressing HOME)	0.00 to 99.99, -1=Missing
<b>Line Number 77 -- [TID] Item Response Latencies (for Items #01-#15)</b>			
<b>COLUMN</b>	<b>FORMAT</b>	<b>DESCRIPTION</b>	<b>VALID RANGES, VALUES</b>
NOTE: Each Latency takes 5 columns, not separated by a SPACE.			
See Note	15(F5.2)	Response Times	0.00 to 99.99, -1=Missing

Table 6 (continued)

Line Number 78 -- [TID] Item Response Latencies (for items #15-#30)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTE: Each Latency takes 5 columns, not separated by a SPACE.			
See Note	15(F5.2)	Response Times	0.00 to 99.99, -1 = Missing
Line Number 79 -- [TID] Item Response Latencies (for items #31-#39)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTE: Each Latency takes 5 columns, not separated by a SPACE.			
See Note	9(F5.2)	Response Times	0.00 to 99.99, -1 = Missing
Line Number 80 -- [TID] Test Summary			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-02	I2	Number of Items Attempted	0 to 39, -1 = Missing
04-05	I2	Number of Items Correct	0 to 39, -1 = Missing
07-11	F5.2	Average Decision Time	0.00 to 99.99, -1 = Missing
13-17	F5.2	Average Response Time	0.00 to 99.99, -1 = Missing
19-23	F5.2	Average Total Item Time	0.00 to 99.99, -1 = Missing
25-26	I2	Number of Times RT Hand Used	0 to 39, -1 = Missing
28-29	I2	Number of Times LT Hand Used	0 to 39, -1 = Missing
31-32	I2	Number of Times Unknown Hand	0 to 39, -1 = Missing

**Table 6. ECAT - Version 2.0 (93 records)**  
**Section: ONE-HAND TRACKING (Line Numbers 81-87)**

Line Number 81 - [TR1] Personal Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I 9	Social Security Number	DIGITS
11-16	3(I 2)	BirthDate (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
18	I 1	Gender	1 = Male 2 = Female
20	I 1	Education Level	1 = College, 1 Yr or more 2 = H.S. Graduate 3 = 12 years but did not graduate 4 = 9 - 11 Years 5 = 8 Years or less
22	I 1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Tagalog 5 = Other
24	I 1	Is Examinee Right Handed?	1 = Yes 2 = No
27-32	3(I 2)	Test Administration Date (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
34-39	3(I 2)	Test Administration Time (HHMMSS)	Hour = 00..24 Minutes = 01..59 Seconds = 01..59
43-46	I 4	Instruction Time in Seconds	0 to 1800, -1 = Missing
50-53	I 4	Test Time in Seconds	0 to 1800, -1 = Missing
55-58	I 4	Response Pedestal Serial Number	1000 to 1999
60-64	F5.3	Graphics Screen Aspect Ratio	1.000

Table 6 (continued)

Line Number 82 -- [TR1] Item ID Numbers (for Items #01-#20)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<p>NOTES: Each item ID Number is 3 digits, separated by one SPACE.            Missing data is indicated with an ID Number of "999".            The first 3 item ID Numbers are given below as an example.</p>			
01-03 05-07 09-11 (etc)	I 3 I 3 I 3 (etc)	Item ID for Item #01 Item ID for Item #02 Item ID for Item #03 (etc)	901, Missing = 999 902, Missing = 999 903, Missing = 999 (etc)
<p>The complete list of item IDs for Items #01-#20 are as follows:</p> <p>901 902 903 801 802 803 001 015 006 008 005 010 017 012 011 009 002            016 018 003</p>			
Line Number 83 -- [TR1] Item ID Numbers (for Items #21-#24)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<p>Notes and format for LINE NUMBER 84 apply to LINE NUMBER 85.            The complete list of item IDs for Items #21-#24 are as follows:</p> <p>014 007 004 013</p>			
Line Number 84 -- [TR1] Which Joystick Used			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01	I 1	Which Joystick Used?	1 = Right, 2 = Left
Line Number 85 -- [TR1] Item Accuracies (for Items #01 - #15)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<p>NOTES: Each Item Accuracy is one SPACE, followed by 4 digits.            The first Item Accuracy is given below as an example.</p>			
02-05 (etc)	I 4 (etc)	Average Distance to Target (etc)	0 to 9999, -1 = Missing (etc)

Table 6 (continued)

Line Number 86 -- [TR1] Item Accuracies (for Items #16-#24)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
Notes and format for LINE NUMBER 85 apply to LINE NUMBER 86.			
Line Number 87 -- [TR1] Item Accuracy Calculations			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-02	I2	Number of Items Attempted	0 to 24, -1 = Missing
04-09	F6.2	Total Average Distance From Target	0.00 to 999.99, -1 = Missing
11-14	I4	Average Root Mean Square Error	0 to 9999, -1 = Missing

**Table 6. ECAT - Version 2.0 (93 records)**  
**Section: TWO-HAND TRACKING (Line Numbers 88-93)**

Line Number 88 -- [TR2] Personal Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I 9	Social Security Number	DIGITS
11-16	3(I 2)	BirthDate (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
18	I 1	Gender	1 = Male 2 = Female
20	I 1	Education Level	1 = College, 1 Yr or more 2 = H.S. Graduate 3 = 12 years but did not graduate 4 = 9 - 11 Years 5 = 8 Years or less
22	I 1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Tagolog 5 = Other
24	I 1	Is Examinee Right Handed?	1 = Yes 2 = No
27-32	3(I 2)	Test Administration Date (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
34-39	3(I 2)	Test Administration Time (HHMMSS)	Hour = 00..24 Minutes = 01..59 Seconds = 01..59
43-46	I 4	Instruction Time in Seconds	0 to 1800, -1 = Missing
50-53	I 4	Test Time in Seconds	0 to 1800, -1 = Missing
55-58	I 4	Response Pedestal Serial Number	1000 to 1999
60-64	F5.3	Graphics Screen Aspect Ratio	1.000

**Table 6 (continued)**

Line Number 89 -- [TR2] Item ID Numbers (for Items #01-#20)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<p>NOTES: Each item ID Number is 3 digits, separated by one SPACE.                      Missing data is indicated with an ID Number of "999".                      The first 3 item ID Numbers are given below as an example.</p>			
01-03	I 3	Item ID for Item #01	901, Missing = 999
05-07	I 3	Item ID for Item #02	902, Missing = 999
09-11	I 3	Item ID for Item #03	903, Missing = 999
(etc)	(etc)	(etc)	(etc)
<p>The complete list of item IDs for Items #01-#20 are as follows:</p> <p>901 902 903 801 802 803 003 016 013 007 012 006 018 008 002 009 001                      011 010 005</p>			
Line Number 90 -- [TR2] Item ID Numbers (for Items #21-#24)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<p>Notes and format for LINE NUMBER 89 apply to LINE NUMBER 90.                      The complete list of item IDs for Items #21-#24 are as follows:</p> <p>017 014 015 004</p>			
Line Number 91 -- [TR2] Item Accuracies (for Items #01-#15)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<p>NOTES: Each Item Accuracy is one SPACE, followed by 4 digits.                      The first Item Accuracy is given below as an example.</p>			
02-05	I 4	Average Distance to Target	0 to 9999, -1 = Missing
(etc)	(etc)	(etc)	(etc)

Table 6 (continued)

Line Number 92 -- [TR2] Item Accuracies (for Items #16-#24)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
Notes and format for LINE NUMBER 91 apply to LINE NUMBER 92.			
Line Number 93 -- [TR2] Item Accuracy Calculations			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-02	I 2	Number of Items Attempted	0 to 24, -1 = Missing
04-09	F6.2	Total Average Distance From Target	0.00 to 999.99, -1.00 = Missing
11-14	I 4	Average Root Mean Square Error	0 to 9999, -1 = Missing

**Table 7: ECAT-Version 5.0(97-Records)**  
**Section: SEQUENTIAL MEMORY (Line Numbers 01-11)**

Line Number 01 - [SM] Personal Data (Versions 4.0, 2, 5.0 Header)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I 9	Social Security Number	DIGITS
11-13	F 3.1	ECAT System Version Number	5.0
15-20	I 6	ECAT System Version Date	910307
22-27	3 (I 2)	BirthDate (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
29	I 1	Gender	1 = Male 2 = Female
31	I 1	Education Level	1 = College, 1 Yr or more 2 = H.S. Graduate 3 = 12 Years (Non-grad) 4 = 9 - 11 Years 5 = 8 Years or less
33	I 1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Other
35	I 1	Is Examinee Right Handed?	1 = Yes 2 = No
37-39	F 3.1	[SM] Software Version	1.1
40-44	I 5	Instruction Time in Seconds	0 to 99999, -1 = Missing
45-49	I 5	Test Time in Seconds	0 to 99999, -1 = Missing
50-52	I 2	Total "Jumps" (Quick Answers)	0 to 35, -1 = Missing

**Table 7 (continued)**

Line Numbers 02-09 -- [SM] Item Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<b>NOTES:</b> Each line contains 4 test items. Each test item contains 3 fields. The following LINE 02 layout is repeated for LINES 03-09, items #05-#32.			
01-05 07-13	I 5 F 7.3	Item #01 Response Response Latency (Seconds)	DIGITS, 99999 = Missing 0.000 to 999.999, -1.000 = Missing
15-16	I 2	Item #01 Accuracy (All digits correct)	0 = No, 1 = Yes, -1 = Missing
21-25 27-33	I 5 F 7.3	Item #02 Response Response Latency (Seconds)	DIGITS, 99999 = Missing 0.000 to 999.999, -1.000 = Missing
35-36	I 2	Item #02 Accuracy (All digits correct)	0 = No, 1 = Yes, -1 = Missing
41-45 47-53	I 5 F 7.3	Item #03 Response Response Latency (Seconds)	DIGITS, 99999 = Missing 0.000 to 999.999, -1.000 = Missing
55-56	I 2	Item #03 Accuracy (All digits correct)	0 = No, 1 = Yes, -1 = Missing
61-65 67-73	I 5 F 7.3	Item #04 Response Response Latency (Seconds)	DIGITS, 99999 = Missing 0.000 to 999.999, -1.000 = Missing
75-76	I 2	Item #04 Accuracy (All digits correct)	0 = No, 1 = Yes, -1 = Missing

Table 7 (continued)

Line Number 10 -- [SM] Item Data (continued)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-05	I 5	Item #33 Response	DIGITS, 99999 = Missing
07-13	F 7.3	Response Latency (Seconds)	0.000 to 999.999, -1.000 = Missing
15-16	I 2	Item #33 Accuracy (All digits correct)	0 = No, 1 = Yes, -1 = Missing
21-25	I 5	Item #34 Response	DIGITS, 99999 = Missing
27-33	F 7.3	Response Latency (Seconds)	0.000 to 999.999, -1.000 = Missing
35-36	I 2	Item #34 Accuracy (All digits correct)	0 = No, 1 = Yes, -1 = Missing
41-45	I 5	Item #35 Response	DIGITS, 99999 = Missing
47-53	F 7.3	Response Latency (Seconds)	0.000 to 999.999, -1.000 = Missing
55-56	I 2	Item #35 Accuracy (All digits correct)	0 = No, 1 = Yes, -1 = Missing
57-60	A 4	Trailing Blanks	BLANK
Line Number 11 -- [SM] Test Summary			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-07	F 7.3	Average Item Response Latency	0.000 to 999.999, -1.000 = Missing
10-15	F 6.3	Proportion Correct	0.000 to 1.000, -1.000 = Missing
18-23	F 6.3	Proportion Attempted * 5	0.000 to 5.000, -1.000 = Missing

# Table 7: ECAT-Version 5.0(97-Records)

## Section: SPATIAL REASONING (Line Numbers 12-21)

Line Number 12 = [SR] Partial Data (Versions 4.0 & 5.0 Header)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I 9	Social Security Number	DIGITS
11-13	F 3.1	ECAT System Version Number	5.0
15-20	I 6	ECAT System Version Date	910307
22-27	3 (I 2)	BirthDate (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
29	I 1	Gender	1 = Male 2 = Female
31	I 1	Education Level	1 = College, 1 Yr or more 2 = H.S. Graduate 3 = 12 years (Non-grad) 4 = 9 - 11 Years 5 = 8 Years or less
33	I 1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Other
35	I 1	Is Examinee Right Handed?	1 = Yes 2 = No
37-39	F 3.1	[SR] Software Version	2.2
40-44	I 5	Instruction Time in Seconds	0 to 99999, -1 = Missing
45-49	I 5	Test Time in Seconds	0 to 99999, -1 = Missing
50-52	I 2	Total "Jumps" (Quick Answers)	0 to 28, -1 = Missing

Table 7 (continued)

Line Numbers 13-19 -- [SR] Item Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<p>NOTES: Each line contains 4 test items. Each test item contains 3 fields. The following LINE 13 layout is repeated for LINES 14-19, items #05-#28.</p>			
01-02 04-10	I 2 F 7.3	Item #01 Response Response Latency (Seconds)	1 to 5, -1 = Missing 0.000 to 999.999, -1.000 = Missing
12-13	I 2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
18-19 21-27	I 5 F 7.3	Item #02 Response Response Latency (Seconds)	1 to 5, -1 = Missing 0.000 to 999.999, -1.000 = Missing
29-30	I 2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
35-36 38-44	I 5 F 7.3	Item #03 Response Response Latency (Seconds)	1 to 5, -1 = Missing 0.000 to 999.999, -1.000 = Missing
46-47	I 2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
52-53 55-61	I 5 F 7.3	Item #04 Response Response Latency (Seconds)	1 to 5, -1 = Missing 0.000 to 999.999, -1.000 = Missing
63-64	I 2	Response Scoring	0=Wrong, 1=Right, -1 = Missing

Table 7 (continued)

Line Number 20 -- [SR] Item Data (continued)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-02	I 5	Item #29 Response	1 to 5, -1 = Missing
04-10	F 7.3	Response Latency (Seconds)	0.000 to 999.999, -1.000 = Missing
12-13	I 2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
18-19	I 5	Item #30 Response	1 to 5, -1 = Missing
21-27	F 7.3	Response Latency (Seconds)	0.000 to 999.999, -1.000 = Missing
29-30	I 2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
Line Number 21 -- [SR] Test Summary			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-07	F 7.3	Average Item Response Latency	0.000 to 999.999, -1.000 = Missing
10-15	F 6.3	Proportion Correct	0.000 to 1.000, -1.000 = Missing
18-23	F 6.3	Proportion Attempted	0.000 to 1.000, -1.000 = Missing

**Table 7: ECAT-Version 5.0(97-Records)  
Section: INTEGRATING DETAILS (Line Numbers 22-43)**

Line Number 22 - [ID] Personal Data (Versions 4.0 & 5.0 Header)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I 9	Social Security Number	DIGITS
11-13	F 3.1	ECAT System Version Number	5.0
15-20	I 6	ECAT System Version Date	910307
22-27	3 (I 2)	BirthDate (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
29	I 1	Gender	1 = Male 2 = Female
31	I 1	Education Level	1 = College, 1 Yr or more 2 = H.S. Graduate 3 = 12 years (Non-grad) 4 = 9 - 11 Years 5 = 8 Years or less
33	I 1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Other
35	I 1	Is Examinee Right Handed?	1 = Yes 2 = No
37-39	F 3.1	[ID] Software Version	3.0=Ver.5.0,2.2=Ver.4.0
40-44	I 5	Instruction Time in Seconds	0 to 99999, -1 = Missing
45-49	I 5	Test Time in Seconds	0 to 99999, -1 = Missing
50-52	I 2	Total "Jumps" (Quick Answers)	0 to 40, -1 = Missing

**Table 7 (continued)**

Line Numbers 23-42 -- [ID] Item Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<p><b>NOTES:</b> Each line contains 2 test items. Each test item contains 5 fields. The following LINE 23 layout is repeated for LINES 24-42, items #03-#40.</p>			
01-02	I 2	Item #01 Scoring	0=Wrong, 1=Right, -1 = Missing
04-10	F 7.3	Component Response Latency (Seconds looking at components)	0.000 to 999.999, -1.000 = Missing
12-13	I 2	Quick Response Warning	0=OK, 1=Warned, -1 = Missing
15-21	F 7.3	Decision Response Latency (Seconds deciding correct shape)	0.000 to 999.999, -1.000 = Missing
23-24	I 2	Quick Response Warning	0=OK, 1=Warned, -1 = Missing
30-31	I 2	Item #02 Scoring	0=Wrong, 1=Right, -1 = Missing
33-39	F 7.3	Component Response Latency (Seconds looking at components)	0.000 to 999.999, -1.000 = Missing
41-42	I 2	Quick Response Warning	0=OK, 1=Warned, -1 = Missing
44-50	F 7.3	Decision Response Latency (Seconds deciding correct shape)	0.000 to 999.999, -1.000 = Missing
52-53	I 2	Quick Response Warning	0=OK, 1=Warned, -1 = Missing
54	A 1	Trailing Blank	BLANK
Line Number 43 -- [ID] Test Summary			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-02	I 2	Block Administration Order	1 to 4, -1=Missing
03-09	F 7.3	Average Item Response Latency	0.000 to 999.999, -1.000 = Missing
12-17	F 6.3	Proportion Correct	0.000 to 1.000, -1.000 = Missing
20-25	F 6.3	Proportion Attempted	0.000 to 1.000, -1.000 = Missing

**Table 7: ECAT-Version 5.0(97-Records)  
Section: ASSEMBLING OBJECTS (Line Numbers 44-53)**

Line Number 44 - [AO] Personal Data (Versions 4.0 & 5.0 Header)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I 9	Social Security Number	DIGITS
11-13	F 3.1	ECAT System Version Number	5.0
15-20	I 6	ECAT System Version Date	910307
22-27	3 (I 2)	BirthDate (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
29	I 1	Gender	1 = Male 2 = Female
31	I 1	Education Level	1 = College, 1 Yr or more 2 = H.S. Graduate 3 = 12 years (Non-grad) 4 = 9 - 11 Years 5 = 8 Years or less
33	I 1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Other
35	I 1	Is Examinee Right Handed?	1 = Yes 2 = No
37-39	F 3.1	[AO] Software Version	2.1
40-44	I 5	Instruction Time in Seconds	0 to 99999, -1 = Missing
45-49	I 5	Test Time in Seconds	0 to 99999, -1 = Missing
50-52	I 2	Total "Jumps" (Quick Answers)	0 to 32, -1 = Missing

**Table 7 (continued)**

<b>Line Numbers 45-52 -- [AO] Item Data</b>			
<b>COLUMN</b>	<b>FORMAT</b>	<b>DESCRIPTION</b>	<b>VALID RANGES, VALUES</b>
<p><b>NOTES:</b> Each line contains 4 test items. Each test item contains 3 fields. The following LINE 45 layout is repeated for LINES 46-52, items #05-#32.</p>			
01-02 04-10	I 2 F 7.3	Item #01 Response Response Latency (Seconds)	1 to 4, -1 = Missing 0.000 to 999.999, -1.000 = Missing
12-13	I 2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
18-19 21-27	I 5 F 7.3	Item #02 Response Response Latency (Seconds)	1 to 4, -1 = Missing 0.000 to 999.999, -1.000 = Missing
29-30	I 2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
35-36 38-44	I 5 F 7.3	Item #03 Response Response Latency (Seconds)	1 to 4, -1 = Missing 0.000 to 999.999, -1.000 = Missing
46-47	I 2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
52-53 55-61	I 5 F 7.3	Item #04 Response Response Latency (Seconds)	1 to 4, -1 = Missing 0.000 to 999.999, -1.000 = Missing
63-64	I 2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
<b>Line Number 53 -- [AO] Test Summary</b>			
<b>COLUMN</b>	<b>FORMAT</b>	<b>DESCRIPTION</b>	<b>VALID RANGES, VALUES</b>
01-07	F 7.3	Average Item Response Latency	0.000 to 999.999, -1.000 = Missing
10-15	F 6.3	Proportion Correct	0.000 to 1.000, -1.000 = Missing
18-23	F 6.3	Proportion Attempted	0.000 to 1.000, -1.000 = Missing

**Table 7: ECAT-Version 5.0(97-Records)  
Section: ORIENTATION (Line Numbers 54-61)**

Line Number 54 - [OR] Personal Data (Versions 4.0 & 5.0 Header)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I 9	Social Security Number	DIGITS
11-13	F 3.1	ECAT System Version Number	5.0
15-20	I 6	ECAT System Version Date	910307
22-27	3 (I 2)	BirthDate (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
29	I 1	Gender	1 = Male 2 = Female
31	I 1	Education Level	1 = College, 1 Yr or more 2 = H.S. Graduate 3 = 12 years (Non-grad) 4 = 9 - 11 Years 5 = 8 Years or less
33	I 1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Other
35	I 1	Is Examinee Right Handed?	1 = Yes 2 = No
37-39	F 3.1	[OR] Software Version	2.1
40-44	I 5	Instruction Time in Seconds	0 to 99999, -1 = Missing
45-49	I 5	Test Time in Seconds	0 to 99999, -1 = Missing
50-52	I 2	Total "Jumps" (Quick Answers)	0 to 24, -1 = Missing

Table 7 (continued)

Line Numbers 55-60 -- [OR] Item Data			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<p>NOTES: Each line contains 4 test items. Each test item contains 3 fields. The following LINE 55 layout is repeated for LINES 56-60, items #05-#24.</p>			
01-02 04-10	I 2 F 7.3	Item #01 Response Response Latency (Seconds)	1 to 5, -1 = Missing 0.000 to 999.999, -1.000 = Missing
12-13	I 2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
18-19 21-27	I 5 F 7.3	Item #02 Response Response Latency (Seconds)	1 to 5, -1 = Missing 0.000 to 999.999, -1.000 = Missing
29-30	I 2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
35-36 38-44	I 5 F 7.3	Item #03 Response Response Latency (Seconds)	1 to 5, -1 = Missing 0.000 to 999.999, -1.000 = Missing
46-47	I 2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
52-53 55-61	I 5 F 7.3	Item #04 Response Response Latency (Seconds)	1 to 5, -1 = Missing 0.000 to 999.999, -1.000 = Missing
63-64	I 2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
Line Number 61 -- [OR] Test Summary			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-07	F 7.3	Average Item Response Latency	0.000 to 999.999, -1.000 = Missing
10-15	F 6.3	Proportion Correct	0.000 to 1.000, -1.000 = Missing
18-23	F 6.3	Proportion Attempted	0.000 to 1.000, -1.000 = Missing

**Table 7: ECAT-Version 5.0(97-Records)**  
**Section: MENTAL COUNTERS (Line Numbers 62-73)**

Line Number 62 - [MC] Personal Data (Versions 4.0 & 5.0 Header)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I 9	Social Security Number	DIGITS
11-13	F 3.1	ECAT System Version Number	5.0
15-20	I 6	ECAT System Version Date	910307
22-27	3 (I 2)	BirthDate (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
29	I 1	Gender	1 = Male 2 = Female
31	I 1	Education Level	1 = College, 1 Yr or more 2 = H.S. Graduate 3 = 12 years (Non-grad) 4 = 9 - 11 Years 5 = 8 Years or less
33	I 1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Other
35	I 1	Is Examinee Right Handed?	1 = Yes 2 = No
37-39	F 3.1	[MC] Software Version	1.1
40-44	I 5	Instruction Time in Seconds	0 to 99999, -1 = Missing
45-49	I 5	Test Time in Seconds	0 to 99999, -1 = Missing
50-52	I 2	Total "Jumps" (Quick Answers)	0 to 30, -1 = Missing

**Table 7 (continued)**

<b>Line Numbers 63-72 -- [MC] Item Data</b>			
<b>COLUMN</b>	<b>FORMAT</b>	<b>DESCRIPTION</b>	<b>VALID RANGES, VALUES</b>
<p><b>NOTES:</b> Each line contains 4 test items. Each test item contains 3 fields. The following LINE 63 layout is repeated for LINES 64-72, items #05-#40.</p>			
01-02 04-10	I 2 F 7.3	Item #01 Response Response Latency (Seconds)	0 to 3, -1 = Missing 0.000 to 999.999, -1.000 = Missing
12-13	I 2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
18-19 21-27	I 5 F 7.3	Item #02 Response Response Latency (Seconds)	0 to 3, -1 = Missing 0.000 to 999.999, -1.000 = Missing
29-30	I 2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
35-36 38-44	I 5 F 7.3	Item #03 Response Response Latency (Seconds)	0 to 3, -1 = Missing 0.000 to 999.999, -1.000 = Missing
46-47	I 2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
52-53 55-61	I 5 F 7.3	Item #04 Response Response Latency (Seconds)	0 to 3, -1 = Missing 0.000 to 999.999, -1.000 = Missing
63-64	I 2	Response Scoring	0=Wrong, 1=Right, -1 = Missing
<b>Line Number 73 -- [MC] Test Summary</b>			
<b>COLUMN</b>	<b>FORMAT</b>	<b>DESCRIPTION</b>	<b>VALID RANGES, VALUES</b>
01-07	F 7.3	Average Item Response Latency	0.000 to 999.999, -1.000 = Missing
10-15	F 6.3	Proportion Correct	0.000 to 1.000, -1.000 = Missing
18-23	F 6.3	Proportion Attempted	0.000 to 1.000, -1.000 = Missing

**Table 7: ECAT-Version 5.0(97-Records)**  
**Section: TARGET IDENTIFICATION (Line Numbers 74-85)**

Line Number 74 - [TID] Personal Data (Versions 4.0 & 5.0 Header)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I 9	Social Security Number	DIGITS
11-13	F 3.1	ECAT System Version Number	5.0
15-20	I 6	ECAT System Version Date	910307
22-27	3 (I 2)	BirthDate (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
29	I 1	Gender	1 = Male 2 = Female
31	I 1	Education Level	1 = College, 1 Yr or more 2 = H.S. Graduate 3 = 12 years (Non-grad) 4 = 9 - 11 Years 5 = 8 Years or less
33	I 1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Other
35	I 1	Is Examinee Right Handed?	1 = Yes 2 = No
38-43	3 (I 2)	Test Date (YYMMDD)	YY=00..99, MM=01..12, DD=01..31
45-50	3 (I 2)	Test Time (HHMMSS)	HH=00..23, MM=00..59, SS=00..59
52-55	F 4.1	[TID] Software Version	10.1
57-62	I 6	Instruction Time in Seconds	0 to 999999, -1 = Missing
64-69	I 6	Test Time in Seconds	0 to 999999, -1 = Missing
71-74	I 4	Pedestal Serial Number	1000 to 1999
76-80	F 5.3	Graphics Screen Aspect Ratio	1.000

**Table 7 (continued)**

Line Number 75 -- [TID] Item ID Numbers (for Items #01-#20)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<p>NOTES: Each Item ID Number is 3 digits, separated by one SPACE.            Missing data is indicated with an ID Number of "999".            The first 3 Item ID Numbers are given below as an example.</p>			
01-03 05-07 09-11 (etc)	I 3 I 3 I 3 (etc)	Item ID for Item #01 Item ID for Item #02 Item ID for Item #03 (etc)	901, Missing = 999 902, Missing = 999 903, Missing = 999 (etc)
<p>The complete list of Item IDs for Items #01-#20 are as follows:</p> <p>901 902 903 001 002 003 005 006 007 008 009 011 012 013 014 016 018 019 022 023</p>			
Line Number 76 -- [TID] Item ID Numbers (for Items #21-#39)			
<p>Notes for LINE NUMBER 75 apply to LINE NUMBER 76.            The complete list of Item IDs for Items #21-#39 are as follows:</p> <p>024 026 027 028 029 030 031 033 034 036 038 039 040 042 043 044 045 046 048</p>			
Line Number 77 -- [TID] "Hand Used" Indicators (For Items #01-#39)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<p>NOTE: Each Indicator is one digit, separated by a SPACE</p>			
See Note	39 (I 1)	Which Hand Was Used To Respond?	0 = UNKNOWN 1 = Right Hand 2 = Left hand 9 = Not Answered

**Table 7 (continued)**

Line Number 78 -- [TID] Item Response Accuracy (For Items #01-#29)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTE: Each Response Score is one digit, separated by a SPACE			
See Note	39 (I 1)	Item response accuracy	0 = Timeout 1 = Incorrect 2 = Correct 9 = Not Answered
Line Number 79 -- [TID] Item Decision Latencies (For Items #01-#15)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTE: Each Latency takes 4 columns, followed by a SPACE.			
See Note	15 (F4.2)	Decision Seconds (Pressing HOME)	0.00 to 9.99, -1 = Missing
Line Number 80 -- [TID] Item Decision Latencies (For Items #16-#30)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTE: Each Latency takes 4 columns, followed by a SPACE.			
See Note	15 (F4.2)	Decision Seconds (Pressing HOME)	0.00 to 9.99, -1 = Missing
Line Number 81 -- [TID] Item Decision Latencies (For Items #31-#39)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTE: Each Latency takes 4 columns, followed by a SPACE.			
See Note	9 (F4.2)	Decision Seconds (Pressing HOME)	0.00 to 9.99, -1 = Missing

**Table 7 (continued)**

<b>Line Number 82 -- [TID] Item Response Latencies (For Items #01-#15)</b>			
<b>COLUMN</b>	<b>FORMAT</b>	<b>DESCRIPTION</b>	<b>VALID RANGES, VALUES</b>
<b>NOTE: Each Latency takes 4 columns, followed by a SPACE.</b>			
See Note	15 (F4.2)	Response Seconds (HOME to RESPONSE Button)	0.00 to 9.99, -1 = Missing
<b>Line Number 83 -- [TID] Item Response Latencies (For Items #16-#30)</b>			
<b>COLUMN</b>	<b>FORMAT</b>	<b>DESCRIPTION</b>	<b>VALID RANGES, VALUES</b>
<b>NOTE: Each Latency takes 4 columns, followed by a SPACE.</b>			
See Note	15 (F4.2)	Response Seconds (HOME to RESPONSE Button)	0.00 to 9.99, -1 = Missing
<b>Line Number 84 -- [TID] Item Response Latencies (For Items #31-#39)</b>			
<b>COLUMN</b>	<b>FORMAT</b>	<b>DESCRIPTION</b>	<b>VALID RANGES, VALUES</b>
<b>NOTE: Each Latency takes 4 columns, followed by a SPACE.</b>			
See Note	9 (F4.2)	Response Seconds (HOME to RESPONSE Button)	0.00 to 9.99, -1 = Missing
<b>Line Number 85 -- [TID] Test Summary</b>			
<b>COLUMN</b>	<b>FORMAT</b>	<b>DESCRIPTION</b>	<b>VALID RANGES, VALUES</b>
01-02	I 2	Number of Items Attempted	00 to 39, -1 = Missing
04-05	I 2	Number of Items Correct	00 to 39, -1 = Missing
07-11	F 5.2	Average Decision Time	0.00 to 9.99, -1 = Missing
13-17	F 5.2	Average Response Time	0.00 to 9.99, -1 = Missing
19-23	F 5.2	Average Total Item Time	0.00 to 9.99, -1 = Missing
25-26	I 2	Number of Times LT Hand Used	00 to 39, -1 = Missing
28-29	I 2	Number of Times RT Hand Used	00 to 39, -1 = Missing
31-32	I 2	Number of Times Unknown Hand	00 to 39, -1 = Missing

**Table 7: ECAT-Version 5.0(97-Records)**  
**Section: ONE-HAND TRACKING (Line Numbers 86-91)**

Line Number 86 — [TR1] Personal Data (Versions 4.0 & 5.0 Header)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I 9	Social Security Number	DIGITS
11-13	F 3.1	ECAT System Version Number	5.0
15-20	I 6	ECAT System Version Date	910307
22-27	3 (I 2)	BirthDate (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
29	I 1	Gender	1 = Male 2 = Female
31	I 1	Education Level	1 = College, 1 Yr or more 2 = H.S. Graduate 3 = 12 years (Non-grad) 4 = 9 - 11 Years 5 = 8 Years or less
33	I 1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Other
35	I 1	Is Examinee Right Handed?	1 = Yes 2 = No
38-43	3 (I 2)	Test Date (YYMMDD)	YY=00..99, MM=01..12, DD=01..31
45-50	3 (I 2)	Test Time (HHMMSS)	HH=00..23, MM=00..59, SS=00..59
52-55	F 4.1	[TR1] Software Version	10.1
57-62	I 6	Instruction Time in Seconds	0 to 999999, -1 = Missing
64-69	I 6	Test Time in Seconds	0 to 999999, -1 = Missing
71-74	I 4	Pedestal Serial Number	1000 to 1999
76-80	F 5.3	Graphics Screen Aspect Ratio	1.000

Table 7 (continued)

Line Number 87 -- [TR1] Item ID Numbers (for Items #01-#20)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<p>NOTES: Each Item ID Number is 3 digits, separated by one SPACE.            Missing data is indicated with an ID Number of "999".            The first 3 Item ID Numbers are given below as an example.</p>			
01-03	I 3	Item ID for Item #01	901, Missing = 999
05-07	I 3	Item ID for Item #02	902, Missing = 999
09-11	I 3	Item ID for Item #03	903, Missing = 999
(etc)	(etc)	(etc)	(etc)
<p>The complete list of Item IDs for Items #01-#20 are as follows:</p> <p>901 902 903 801 802 803 001 015 006 008 005 010 017 012 011 009 002 016 018 003</p>			
Line Number 88 -- [TR1] Item ID Numbers (for Items #21-#24)			
<p>Notes for LINE NUMBER 87 apply to LINE NUMBER 88.            The complete list of Item IDs for Items #21-#24 are as follows:</p> <p>014 007 004 013</p>			
Line Number 89 -- [TR1] Calculated RMS (For Items #01-#15)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
<p>NOTE: Each RMS is 4 digits, separated by a SPACE.</p>			
See Note	15 (I 4)	Calculated Root Mean Square	0 to 9999, -1 = Missing

**Table 7 (continued)**

<b>Line Number 90 — [TR1] Calculated RMS (For Items 16-24)</b>			
<b>COLUMN</b>	<b>FORMAT</b>	<b>DESCRIPTION</b>	<b>VALID RANGES, VALUES</b>
<b>NOTE: Each RMS is 4 digits, separated by a SPACE.</b>			
<b>See Note</b>	<b>9 (I 4)</b>	<b>Calculated Root Mean Square</b>	<b>0 to 9999, -1 = Missing</b>
<b>Line Number 91 — [TR1] Test Summary</b>			
<b>COLUMN</b>	<b>FORMAT</b>	<b>DESCRIPTION</b>	<b>VALID RANGES, VALUES</b>
01-02	I 2	JoyStick Used	1 = Right, 2 = Left
04-05	I 2	Number of Items Attempted	00 to 24, -1 = Missing
07-12	F 6.2	Average RMS Distance Off Target	0.00 to 999.99, -1.00 = Missing
14-17	I 4	Average LOG*1000+1 of RMS	0 to 9999, -1 = Missing

# Table 7: ECAT-Version 5.0(97-Records)

## Section: TWO-HAND TRACKING (Line Numbers 92-97)

Line Number 92 -- [TR2] Personal Data (Versions 4.0 & 5.0 Header)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-09	I 9	Social Security Number	DIGITS
11-13	F 3.1	ECAT System Version Number	5.0
15-20	I 6	ECAT System Version Date	910307
22-27	3 (I 2)	BirthDate (YYMMDD)	Year = 00..99 Month = 01..12 Day = 01..31
29	I 1	Gender	1 = Male 2 = Female
31	I 1	Education Level	1 = College, 1 Yr or more 2 = H.S. Graduate 3 = 12 years (Non-grad) 4 = 9 - 11 Years 5 = 8 Years or less
33	I 1	Language	1 = English 2 = Spanish 3 = Chinese 4 = Other
35	I 1	Is Examinee Right Handed?	1 = Yes 2 = No
38-43	3 (I 2)	Test Date (YYMMDD)	YY=00..99, MM=01..12, DD=01..31
45-50	3 (I 2)	Test Time (HHMMSS)	HH=00..23, MM=00..59, SS=00..59
52-55	F 4.1	[TR2] Software Version	10.1
57-62	I 6	Instruction Time in Seconds	0 to 999999, -1 = Missing
64-69	I 6	Test Time in Seconds	0 to 999999, -1 = Missing
71-74	I 4	Pedestal Serial Number	1000 to 1999
76-80	F 5.3	Graphics Screen Aspect Ratio	1.000

**Table 7 (continued)**

<b>Line Number 93 -- [TR2] Item ID Numbers (for Items #01-#20)</b>			
<b>COLUMN</b>	<b>FORMAT</b>	<b>DESCRIPTION</b>	<b>VALID RANGES, VALUES</b>
<p><b>NOTES:</b> Each Item ID Number is 3 digits, separated by one SPACE.            Missing data is indicated with an ID Number of "999".            The first 3 Item ID Numbers are given below as an example.</p>			
01-03	I 3	Item ID for Item #01	901, Missing = 999
05-07	I 3	Item ID for Item #02	902, Missing = 999
09-11 (etc)	I 3 (etc)	Item ID for Item #03 (etc)	903, Missing = 999 (etc)
<p>The complete list of Item IDs for Items #01-#20 are as follows:</p> <p>901 902 903 801 802 803 003 016 013 007 012 006 018 008 002 009 001 011 010 005</p>			
<b>Line Number 94 -- [TR2] Item ID Numbers (for Items #21-#24)</b>			
<p>Notes for LINE NUMBER 93 apply to LINE NUMBER 94.            The complete list of Item IDs for Items #21-#24 are as follows:</p> <p>017 014 015 004</p>			
<b>Line Number 95 -- [TR2] Calculated RMS (For Items #01-#15)</b>			
<b>COLUMN</b>	<b>FORMAT</b>	<b>DESCRIPTION</b>	<b>VALID RANGES, VALUES</b>
<p><b>NOTE:</b> Each RMS is 4 digits, separated by a SPACE.</p>			
See Note	15 (I 4)	Calculated Root Mean Square	0 to 9999, -1 = Missing

Table 7 (continued)

Line Number 95 -- [TR2] Calculated RMS (For Items #16-#24)			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
NOTE: Each RMS is 4 digits, separated by a SPACE.			
See Note	9 (I 4)	Calculated Root Mean Square	0 to 9999, -1 = Missing
Line Number 97 -- [TR2] Test Summary			
COLUMN	FORMAT	DESCRIPTION	VALID RANGES, VALUES
01-02	I 2	Number of Items Attempted	00 to 24, -1 = Missing
04-09	F 6.2	Average RMS Distance Off Target	0.00 to 999.99, -1.00 = Missing
11-14	I 4	Average LOG*1000+1 of RMS	0 to 9999, -1 = Missing

**APPENDIX A**  
**PERSONNEL RECORD DATA**  
**ETHNIC GROUP CODES**

## Ethnic Codes Used for Personnel Record Data

1=Spanish Decent  
2=American Indian  
3=Asian American  
4=Puerto Rican  
5=Filipino  
6=Mexican American  
7=Eskimo  
8=Aleut  
9=Cuban  
G=Chinese  
J=Japanese  
K=Korean  
L=Polynesian  
Q=Other Pacific islander  
S=Spanish Decent from  
Central America  
V=Vietnamese  
X=Other  
Y=None  
Z=Unknown

**APPENDIX B**

**PERSONNEL RECORD DATA  
LEVEL OF EDUCATION CODES**

## Level of Education Codes Used for Personnel Record Data

1=Did not graduate from High School  
7=Correspondence School Diploma  
8=Completed 1 Semester at a College or University  
B=Adult Education Program  
C=Occupational Program Certificate  
D=Associate Degree  
E=Test-based Equivalency Diploma  
G=Professional Nursing Diploma  
H=Home Study Diploma  
J=High School Certificate of Attendance  
K=Baccalaureate Degree  
L=High School Graduate  
M=Credential Near Completion  
N=Master's Degree  
R=Post Master's Degree  
S=Current High School Senior  
U=Doctorate  
W=First Professional Degree

**APPENDIX C**  
**SAMPLE CASE**  
**MERGED DATA ANALYSIS FILE**

# APPENDIX C

## SAMPLE CASE MERGED DATA ANALYSIS FILE (99 RECORDS)

Note: For the following sample case, the '█' character designates the end-of-line to make trailing BLANKs more visible.

```

223344556DOEKEES          BRENDA      B92054USA FNYA█
66011916K17B1614341348640812080947900716547323062█
223344556 2.0 900817 660119 2 1 1 1 0.0 360 949 2█
43351 -1.000 3 98983 -1.000 5 69697 -1.000 4 25732 -1.000 5█
65206 -1.000 3 44929 -1.000 5 73734 -1.000 4 99039 -1.000 5█
87068 -1.000 5 95015 -1.000 1 77227 -1.000 5 31310 -1.000 0█
88008 -1.000 1 44044 -1.000 0 00322 -1.000 3 66188 -1.000 1█
93193 -1.000 3 02000 -1.000 5 94099 -1.000 0 46544 -1.000 3█
01140 -1.000 2 38833 -1.000 0 54354 -1.000 3 73573 -1.000 0█
46646 -1.000 5 18180 -1.000 1 88068 -1.000 2 33113 -1.000 5█
53959 -1.000 5 19191 -1.000 5 76969 -1.000 1 66368 -1.000 2█
47447 -1.000 5 55445 -1.000 5 99772 -1.000 2 █
-1.000 0.594 1.000 0.371█
223344556 2.0 900817 660119 2 1 1 1 0.0 138 499 2█
4 19.466 0 3 8.142 0 3 29.303 0 5 22.208 0█
1 5.958 1 3 6.563 1 2 17.436 1 1 18.736 0█
5 19.294 0 3 12.839 0 4 23.898 0 1 38.067 0█
5 19.472 0 3 22.600 0 2 27.112 0 5 7.104 1█
1 7.698 1 5 10.524 1 5 13.384 1 4 9.995 0█
4 6.371 1 3 14.908 0 5 17.000 1 1 12.978 0█
1 10.152 0 2 9.018 1 4 9.936 1 1 16.931 1█
2 21.004 0 2 17.111 0 █
15.840 0.400 1.000█
223344556 2.0 900817 660119 2 1 1 1 0.0 332 632 1█
1 2.935 0 1.641 0 1 4.736 0 2.247 0 █
0 12.449 0 2.122 0 1 1.456 0 1.096 0 █
0 8.733 0 2.204 0 1 4.901 0 3.186 0 █
1 16.458 0 3.365 0 1 3.212 0 2.168 0 █
1 3.406 1 3.087 0 1 11.031 0 1.381 0 █
1 5.937 0 1.988 0 1 13.615 0 1.765 0 █
1 14.192 0 1.376 0 0 3.579 0 1.933 0 █
0 3.419 0 2.264 0 1 11.694 0 3.470 0 █
0 5.998 0 1.938 0 0 18.520 0 2.436 0 █
0 11.009 0 1.511 0 1 6.893 0 2.795 0 █
0 3.058 0 2.399 0 0 33.063 0 3.784 0 █
0 15.247 0 2.174 0 0 10.488 0 1.796 0 █
0 10.668 0 1.516 0 1 12.616 0 1.672 0 █
0 2.404 0 4.182 0 1 29.308 0 1.777 0 █
0 12.020 0 3.848 0 1 6.468 0 1.511 0 █
0 2.245 0 1.530 0 0 16.774 0 2.532 0 █

```



1 18 626.56 59.90 4001  
223344556 2.0 900817 660119 2 1 1 1 900930 063954 0.0 133 225 1207 1.000  
901 902 903 801 802 803 003 016 013 007 012 006 018 008 002 009 001 011 010 005  
017 014 015 004  
3448 3823 4262 4734 4443 4854 4689 4851 4393 4383 4517 4542 4614 4802 4381  
4889 4249 4514 4273 4725 4677 5013 4629 4071  
18 239.76 93.07 4567

**APPENDIX D**

**SAMPLE CASE  
RAW ECAT DATA - VERSION 2.0**

# APPENDIX D

## SAMPLE CASE RAW ECAT DATA - VERSION 2.0 (93 RECORDS)

Note: For the following sample case, the '█' character designates the end-of-line to make trailing BLANKs more visible.

```

111222333 701102 1 2 1 1 █
 238 201 1 █
 1 0 1 1 █
98983 69777 44929 99039 █
 0 1 1 0 1 1 █
35112 25732 65026 73763 87068 91501 █
 6.956 6.102 █
 330 687 1 █
 0 0 0 0 0 0 1 0 0 0 █
77222 66800 00200 00200 44848 54219 33113 11919 44747 55454 █
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 █
60601 03023 66578 99391 83554 66455 02285 54335 53577 73793 █
66808 63936 66797 00000 44584 █
 8.270 7.185 1.000 0.520 █
111222333 701102 1 2 1 1 105 567 █
 3 17.315 1 5 7.313 1 4 11.127 1 3 12.455 1 1 9.992 1 █
 3 9.218 1 2 11.895 1 4 28.505 1 5 15.794 0 1 19.446 1 █
 4 30.972 0 2 16.846 1 2 39.583 1 2 24.996 1 2 21.100 0 █
 5 14.496 1 1 9.981 1 5 11.415 1 5 11.224 1 3 7.491 1 █
 4 10.283 1 1 26.630 0 5 19.997 1 3 30.748 1 5 16.267 0 █
 3 22.633 0 4 25.234 1 2 16.870 0 2 27.565 0 5 16.351 0 █
18.125 0.700 1.000 █
111222333 701102 1 2 1 1 290 467 1.000 █
 1 4.164 0 1.531 0 0 4.492 0 3.315 0 █
 0 15.453 0 2.317 0 0 14.350 0 1.769 0 █
 1 5.659 0 1.743 0 0 6.816 0 1.975 0 █
 1 8.801 0 1.710 0 0 8.919 0 1.223 0 █
 1 2.788 0 2.095 0 0 8.642 0 1.900 0 █
 1 3.402 0 3.739 0 1 11.480 0 1.881 0 █
 1 7.500 0 1.440 0 1 3.416 0 1.951 0 █
 0 2.205 0 2.705 0 1 3.783 0 2.834 0 █
 0 6.916 0 1.760 0 1 5.476 0 1.448 0 █
 0 9.267 0 2.280 0 0 10.462 0 1.644 0 █
 1 2.796 0 1.761 0 0 9.968 0 2.111 0 █
 1 9.790 0 1.926 0 1 8.627 0 1.493 0 █
 1 11.162 0 1.972 0 1 4.581 0 2.166 0 █
 1 2.415 0 1.702 0 1 14.146 0 1.757 0 █
 0 6.916 0 1.930 0 0 21.877 0 1.536 0 █
 0 2.531 0 1.543 0 0 11.498 0 2.047 0 █
 1 4.820 0 1.825 0 0 7.271 0 2.731 0 █
 1 2.726 0 1.327 0 1 3.057 0 2.449 0 █

```

0	6.700	0	2.082	0	0	5.137	0	1.476	0	█	
0	7.445	0	1.452	0	0	1.392	0	0.992	0	█	
3	0.781	0.272	0	0.500	█						
111222333	701102	1	2	1	1	523	458	0			
1	28.467	0	1	12.461	1	3	22.746	1	2	16.092	1
4	18.469	1	1	6.382	0	4	18.413	0	3	3.452	0
1	10.728	1	2	21.099	0	4	26.963	1	4	24.533	0
3	4.185	0	4	1.128	0	4	13.416	1	1	20.528	1
1	11.664	1	4	8.815	1	4	14.573	1	1	14.451	0
1	9.851	1	4	9.942	1	2	11.324	1	2	8.187	1
2	9.904	1	3	9.269	0	3	2.328	0	2	10.476	1
1	12.183	0	2	22.370	0	4	11.218	1	1	13.458	0
13.409	0.562	1.000	█								

111222333	701102	1	2	1	1	492	534	0			
3	30.440	0	1	11.948	0	3	17.559	1	3	10.665	1
3	17.836	0	2	6.924	1	4	14.574	0	2	14.939	0
3	17.814	0	4	16.120	0	4	13.435	0	5	14.318	0
3	15.547	1	2	35.801	1	3	41.290	0	5	11.484	1
2	16.382	0	2	13.520	0	2	24.689	0	4	22.115	0
1	7.947	1	5	11.920	1	3	49.658	0	3	72.382	1
22.263	0.375	█									

24	9	█									
111222333	701102	1	2	1	1	440	554	2	1.000	0	
0	1	3	0	1	1	2	1	3	1	2	0
1	1	1	1	2	1	1	1	2	0	2	0
3	0	1	1	3	0	3	1	2	0	3	1
0	0	2	0	0	0	1	1	3	1	1	0

111222333	701102	1	2	1	1	900927	100925	74	141	1123	1.000
901	902	903	001	002	003	005	006	007	008	009	011
012	013	014	016	018	019	022	023	024	026	027	028
029	030	031	033	034	036	038	039	040	042	043	044
045	046	048	2	0	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2
3.52	2.07	1.69	1.50	1.91	2.71	1.58	1.36	1.62	1.59	1.17	2.12
1.14	0.99	1.28	1.14	1.29	1.56	1.69	1.74	2.21	2.16	1.79	1.99
1.40	2.15	1.80	2.99	1.43	3.03	1.59	3.43	1.94			
0.21	0.25	0.37	0.22	0.26	0.29	0.41	0.23	0.56	0.29	1.34	0.32
0.33	0.32	0.33	0.46	0.29	0.23	0.23	0.30	0.32	0.21	0.33	0.41
0.35	0.22	0.34	0.63	0.30	0.35	0.33	0.34	0.40			
39	36	1.81	0.35	2.17	22	10	7				

111222333	701102	1	2	1	1	900927	101322	123	225	1123	1.000
901	902	903	801	802	803	001	015	006	008	005	010
017	012	011	009	002	016	018	003	014	007	004	013

2642	2895	2825	3058	3532	3227	2471	3150	3266	3383	3203	2506
3451	2986	3333	3494	2932	2891	2818	2888	2925			

24	21.11	3054	█								
111222333	701102	1	2	1	1	900927	100321	116	225	1123	1.000
901	902	903	801	802	803	003	016	013	007	012	006
018	008	002	009	001	011	010	005	017	014	015	004
3156	4311	4651	4040	3804	4295	4592	4530	3548	4522	4105	4576
4857	4248	3653	3418	4008	4614	4006	4591	4492			
24	74.54	4225	█								

**APPENDIX E**

**SAMPLE CASE  
ECAT RAW DATA - VERSION 5.0**

# APPENDIX E

## SAMPLE CASE ECAT RAW DATA - VERSION 5.0 (97 RECORDS)

Note: For the following sample case, the '⌘' character designates the end-of-line to make trailing BLANKS more visible.

```

444555666 5.0 910307 730706 1 2 1 1 1.1 132 1183 ⌘
43315 5.857 1 98983 3.984 1 69677 4.169 1 25732 5.087 1⌘
65026 5.433 1 44929 3.684 1 77346 10.243 0 99039 4.210 1⌘
87068 4.096 1 91501 4.706 1 77227 4.445 1 10106 16.672 1⌘
68866 8.187 1 00400 4.953 1 04033 53.963 0 61088 59.976 0⌘
93913 24.929 0 03000 11.484 0 48000 18.587 0 65055 17.640 0⌘
74100 4.192 0 83388 4.580 1 54345 7.726 1 63236 20.763 0⌘
46644 3.953 0 81810 20.921 1 86685 10.069 0 33133 2.801 0⌘
53935 21.909 0 19191 3.007 1 94774 23.564 0 30883 11.173 0⌘
47447 2.584 1 55445 6.937 1 69955 7.852 0 ⌘
2.425 0.731 5.000⌘
444555666 5.0 910307 730706 1 2 1 1 2.2 105 699 0⌘
3 20.314 1 5 13.112 1 4 32.985 1 3 10.283 1⌘
1 7.767 1 3 9.031 1 2 9.886 1 4 31.506 1⌘
1 13.562 1 1 46.394 1 4 50.333 0 2 38.095 1⌘
4 61.162 0 2 38.067 1 3 26.395 1 5 38.040 1⌘
1 11.359 1 5 8.619 1 5 8.208 1 3 6.043 1⌘
4 13.754 1 5 10.512 1 5 14.800 1 3 31.039 1⌘
2 24.001 1 5 31.757 0 1 31.359 0 2 6.840 0⌘
2 19.072 0 4 22.505 1 ⌘
22.893 0.800 1.000⌘
444555666 5.0 910307 730706 1 2 1 1 3.0 385 1364 0⌘
1 3.741 0 1.536 0 1 19.018 0 3.550 0 ⌘
1 25.788 0 9.545 0 1 19.983 0 7.948 0 ⌘
1 16.052 0 17.145 0 1 18.789 0 8.845 0 ⌘
1 30.678 0 10.498 0 1 59.902 0 3.872 0 ⌘
1 3.204 0 6.069 0 1 33.597 0 3.287 0 ⌘
1 8.008 0 5.218 0 1 89.526 0 10.623 0 ⌘
1 51.335 0 7.677 0 1 8.702 0 2.828 0 ⌘
1 2.684 0 1.546 0 1 8.326 0 3.295 0 ⌘
1 18.818 0 4.987 0 1 9.716 0 3.717 0 ⌘
1 25.218 0 3.708 0 0 18.247 0 30.426 0 ⌘
1 8.095 0 1.624 0 1 30.137 0 8.179 0 ⌘
1 35.655 0 3.066 0 1 9.016 0 1.650 0 ⌘
1 90.245 0 5.336 0 1 22.846 0 9.641 0 ⌘
1 3.303 0 2.693 0 1 18.769 0 3.357 0 ⌘
1 34.229 0 4.564 0 1 110.277 0 2.593 0 ⌘
1 2.685 0 7.261 0 1 56.563 0 2.990 0 ⌘
1 9.807 0 5.710 0 1 17.399 0 4.917 0 ⌘
1 51.078 0 11.361 0 1 4.659 0 3.836 0 ⌘

```



901 902 903 801 802 803 003 016 013 007 012 006 018 008 002 009 001 011 010 005  
017 014 015 004  
3716 3204 3533 2998 3445 3241 3141 3626 2524 2918 3083 2991 2953 3073 2530  
3336 2439 2556 2534 3104 2991 2844 2878 2794  
24 20.75 3018