MIDUS 3 PROJECT 3: Variable Naming Cognitive Test Battery

Brief Test of Adult Cognition by Telephone (BTACT)

Margie E. Lachman, Project Leader Stefan Agrigoroaei, Project Manager



A. Coding conventions for data

- a) YES = 1, NO = 2
- b) INCORRECT: 95 (for Stop & Go Switch Task only)
- c) DON'T KNOW (7's): 7, 97, 997, 9997
- d) REFUSED/MISSING (8's): 8, 98, 998, 9998
- e) INAPP/INVALID (9's): 9, 99, 999, 9999

B. Naming conventions for BTACT variables

For the MIDUS 3 the first character of each variable name will be "C". Otherwise, the same naming conventions developed for MIDUS 2 apply.

- a) 1st letter "C," to indicate MIDUS 3
- b) 2nd letter indicates project number 3
- c) 3rd letter indicates type of test: T= BTACT cognitive tests
- d) 4th, 5th, 6th, 7th, 8th letters indicates either:
 - i. The individual test:
 - WLI: Word List Recall Immediate (Note: Columns 7 & 8 indicate response number; 1-26 possible responses)
 - BD: Backward Digit Span
 - CTFL: Category Fluency (also CTF)
 - NS: Number Series (Note: Column 6 indicates trial number 1-5)
 - BK: Backward Counting
 - WLD: Word List Recall Delayed (Note: Columns 7 & 8 indicate response number; 1-26 possible responses)
 - ii. A composite measure:
 - WLF: Word List: Proportion Forgotten Between Immediate and Delayed
 - COMP: BTACT Composite Score
 - iii. A flag variable: Variables with "FP" as their 7th and 8th characters serve as flag variables for potentially problematic cases. This variable indicates, by test, which cases were identified at Brandeis by our data cleaning as being problematic due to test disruption, interview equipment failures, or other problems. We recommend users exclude these tests for these specific cases.

Note: **Bold** variable names below indicate composite or total scale scores.

VARIABLE NAME	VARIABLE LABEL	VALUES	
Word List Recall: Immediate			
C3TWLIFP	Word List Immediate flagged	1=YES	
	problematic?	2=NO	
		8=REFUSED/MISSING	
C3TWLI1	Word List Immediate: Recalled #1	1=Word#1	
C3TWLI26	#26	2= Word#2	
	(allows for max 15 correct	3= Word#3	
	responses + up to 11	4= Word#4	
	intrusions/repetitions)	5= Word#5	
		6= Word#6	
		7= Word#7	
		8= Word#8	
		9= Word#9	
		10= Word#10	
		11= Word#11	
		12= Word#12	
		13= Word#13	
		14= Word#14	
		15= Word#15	
		90=NON-LIST INTRUSION	
		98=REFUSED/MISSING	
C3TWLITU	Word List Immediate: Tot Unique	Range: 0 to 15;	
	Items	Sum of all correct, unique responses	
		from C3TWLI1 to C3TWLI26	
		98=REFUSED/MISSING	
C3TWLITR	Word List Immediate: Tot #	Sum of all repeated responses from	
	Repetitions	C3TWLI1 to C3TWLI26	
	•	98=REFUSED/MISSING	
C3TWLITI	Word List Immediate: Tot #	Sum of all non-list intrusions from	
	Intrusions	C3TWLI1 to C3TWLI26	
		98=REFUSED/MISSING	
	Digits Backward		
C3TDBFP	Digits Backward flagged	1=YES	
	problematic?	2=NO	
		8=REFUSED/MISSING	
C3TDBS	Digits Backward: highest # digits	0, 2 to 8	
	recall	98=REFUSED/MISSING	
		•	

problematic? Category Fluency: Tot Unique Items amed 98=REFUSED/MISSING Category Fluency: Tot # Repetitions Category Fluency: Tot # Repetitions Category 98=REFUSED/MISSING Category Fluency: Tot # Intrusions Sum of all in-category, unique items named 98=REFUSED/MISSING Category Fluency: Tot # Repetitions Sum of all non-category intrusions 98=REFUSED/MISSING Number Series Category Fluency: Tot # Intrusions Sum of all non-category intrusions 98=REFUSED/MISSING Number Series Category Fluency: Tot # Intrusions 98=REFUSED/MISSING Number Series 1=YES 2=NO 8=REFUSED/MISSING Category Fluency: Tot # Intrusions 98=REFUSED/MISSING 1=YES 2=NO 8=REFUSED/MISSING Category Fluency: Tot # Repetitions Sum of all non-category intrusions 98=REFUSED/MISSING 1=YES 2=NO 998=REFUSED/MISSING Category Fluency: Tot # Repetitions Sum of all non-category intrusions 98=REFUSED/MISSING 1=YES 2=NO 8=REFUSED/MISSING Category Fluency: Tot # Repetitions Sum of all non-category 98=REFUSED/MISSING 1=YES 2=NO 8=REFUSED/MISSING 2=NO 8=REFUSED/MISSING Category Fluency: Tot # Repetitions 1=YES 2=NO 8=REFUSED/MISSING Category Fluency: Tot # Intrusions 1=YES 2=NO 8=REFUSED/MISSING Category Fluency: Tot # Repetitions 1=YES 2=NO 8=REFUSED/MISSING Category Fluency: Tot # Intrusions 1=YES 2=NO 8=REFUSED/MISSING Category Fluency	Category Fluency				
C3TCTFLU Category Fluency: Tot Unique Items named 98=REFUSED/MISSING C3TCTFLR Category Fluency: Tot # Repetitions Sum of all in-category, unique items named 98=REFUSED/MISSING C3TCTFLI Category Fluency: Tot # Repetitions Sum of repeated items named incategory 98=REFUSED/MISSING C3TCTFLI Category Fluency: Tot # Intrusions Sum of all non-category intrusions 98=REFUSED/MISSING C3TNSFP Number Series flagged 1=YES 2=NO 8=REFUSED/MISSING C3TNS1 C3TNS5 Number Series: #1#5 (number 997=DON'T KNOW 998=REFUSED/MISSING C3TNS1C C3TNS5C Number Series #1#5: correct? 1=YES, CORRECT 2=NO, INCORRECT 8=REFUSED/MISSING C3TNSTOT Number Series: Tot Correct Range: 0 to 5; 8=REFUSED/MISSING C3TNSTOT Number Series: Tot Correct Range: 0 to 5; 8=REFUSED/MISSING C3TBKFP Backward Counting C3TBKFP Backward Counting flagged 1=YES problematic? 2=NO 8=REFUSED/MISSING C3TBKCT Backward Counting: last # reached 998=REFUSED/MISSING C3TBKERR Backward Counting: # of errors 998=REFUSED/MISSING C3TBKFOT BK: (100-{C3TBKCT + C3TBKERR}) Total correct #s produced	C3TCTFFP	Category Fluency flagged	1=YES		
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C3TNS1 C3TNS5 Number Series: #1#5 (number 997=DON'T KNOW 998=REFUSED/MISSING P98=REFUSED/MISSING P9		problematic?	2=NO		
reported) 998=REFUSED/MISSING C3TNS1C C3TNS5C Number Series #1#5: correct? 1=YES, CORRECT 2=NO, INCORRECT 8=REFUSED/MISSING C3TNSTOT Number Series: Tot Correct Range: 0 to 5; 8=REFUSED/MISSING Backward Counting C3TBKFP Backward Counting flagged problematic? 2=NO 8=REFUSED/MISSING C3TBKCT Backward Counting: last # reached 998=REFUSED/MISSING C3TBKERR Backward Counting: # of errors 998=REFUSED/MISSING C3TBKTOT BK: (100-(C3TBKCT + C3TBKERR)) Total correct #s produced			8=REFUSED/MISSING		
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2=NO, INCORRECT 8=REFUSED/MISSING C3TNSTOT Number Series: Tot Correct Range: 0 to 5; 8=REFUSED/MISSING Backward Counting C3TBKFP Backward Counting flagged problematic? 2=NO 8=REFUSED/MISSING C3TBKCT Backward Counting: last # reached 998=REFUSED/MISSING C3TBKERR Backward Counting: # of errors 998=REFUSED/MISSING C3TBKTOT BK: (100-(C3TBKCT + C3TBKERR)) Total correct #s produced		· · · · · · · · · · · · · · · · · · ·	998=REFUSED/MISSING		
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Backward Counting C3TBKFP Backward Counting flagged problematic? 2=NO 8=REFUSED/MISSING C3TBKCT Backward Counting: last # reached 998=REFUSED/MISSING C3TBKERR Backward Counting: # of errors 998=REFUSED/MISSING C3TBKTOT BK: (100-(C3TBKCT + C3TBKERR)) Total correct #s produced			8=REFUSED/MISSING		
Backward Counting C3TBKFP Backward Counting flagged problematic? 2=NO 8=REFUSED/MISSING C3TBKCT Backward Counting: last # reached Backward Counting: # of errors 998=REFUSED/MISSING C3TBKTOT BK: (100-(C3TBKCT + C3TBKERR)) Total correct #s produced	C3TNSTOT	Number Series: Tot Correct	Range: 0 to 5;		
C3TBKFP Backward Counting flagged problematic? 2=NO 8=REFUSED/MISSING C3TBKCT Backward Counting: last # reached Backward Counting: # of errors Backward Counting: # of errors Backward Counting: # of errors 998=REFUSED/MISSING C3TBKTOT BK: (100-(C3TBKCT + C3TBKERR)) Total correct #s produced			8=REFUSED/MISSING		
problematic? 2=NO 8=REFUSED/MISSING C3TBKCT Backward Counting: last # reached 998=REFUSED/MISSING C3TBKERR Backward Counting: # of errors 998=REFUSED/MISSING C3TBKTOT BK: (100-(C3TBKCT + C3TBKERR)) Total correct #s produced		Backward Counti	ng		
8=REFUSED/MISSING C3TBKCT Backward Counting: last # reached 998=REFUSED/MISSING C3TBKERR Backward Counting: # of errors 998=REFUSED/MISSING C3TBKTOT BK: (100-(C3TBKCT + C3TBKERR)) Total correct #s produced	C3TBKFP		1=YES		
C3TBKCT Backward Counting: last # reached 998=REFUSED/MISSING C3TBKERR Backward Counting: # of errors 998=REFUSED/MISSING C3TBKTOT BK: (100-(C3TBKCT + C3TBKERR)) Total correct #s produced		problematic?			
C3TBKERR Backward Counting: # of errors 998=REFUSED/MISSING C3TBKTOT BK: (100-(C3TBKCT + C3TBKERR)) Total correct #s produced					
C3TBKTOT BK: (100-(C3TBKCT + C3TBKERR)) Total correct #s produced	СЗТВКСТ	<u> </u>	998=REFUSED/MISSING		
, , , , , , , , , , , , , , , , , , , ,	C3TBKERR	Backward Counting: # of errors	998=REFUSED/MISSING		
998=REFUSED/MISSING	СЗТВКТОТ	BK: (100-(C3TBKCT + C3TBKERR))	Total correct #s produced		
			998=REFUSED/MISSING		

	Word List Recall-Delayed		
C3TWLDFP	Word List Delayed flagged	1=YES	
	problematic?	2=NO	
		8=REFUSED/MISSING	
C3TWLD1	Word List Delayed: Recalled	1=Word#1	
C3TWLD26	#1#26	2= Word#2	
	(allows for max 15 correct	3= Word#3	
	responses + up to 11	4= Word#4	
	intrusions/repetitions)	5= Word#5	
		6= Word#6	
		7= Word#7	
		8= Word#8	
		9= Word#9	
		10= Word#10	
		11= Word#11	
		12= Word#12	
		13= Word#13	
		14= Word#14	
		15= Word#15	
		90=NON-LIST INTRUSION	
		98=REFUSED/MISSING	
C3TWLDTU	Word List Delayed: Tot Unique	Range: 0 to 15;	
	Items	Sum of all correct, unique responses	
		from C3TWLD1 to C3TWLD26	
		98=REFUSED/MISSING	
C3TWLDTR	Word List Delayed: Tot #	Sum of all repeated responses from	
	Repetitions	C3TWLD1 to C3TWLD26	
		98=REFUSED/MISSING	
C3TWLDTI	Word List Delayed: Tot # Intrusions	Sum of all non-list intrusions from	
		C3TWLD1 to C3TWLD26	
		98=REFUSED/MISSING	

	Composite Measu	ires
C3TWLF	Word List: Proportion Forgotten Between Immediate and Delayed	(C3TWLITU-C3TWLDTU)/C3TWLITU 8=REFUSED/MISSING
СЗТСОМР	BTACT Composite Score	Mean of z-scores* for all tests except SGST: Word Lists (sum of Immediate and Delayed: C3TWLITU + C3TWLDTU), Digits Backward (C3TDBS), Category Fluency (C3TCTFLU), Number Series (C3TNSTOT), and Backward Counting (C3TBKTOT) 8=REFUSED/MISSING
СЗТЕМ	BTACT Episodic Memory Factor	Mean of z-scores* for Word List Immediate (C3TWLITU) and Word List Delayed (C3TWLDTU) 8=REFUSED/MISSING
СЗТЕБ	BTACT Executive Functioning Factor	Mean of z-scores* for Digits Backward (C3TDBS), Category Fluency (C3TCTFLU), Number Series (C3TNSTOT), Backward Counting (C3TBKTOT), and mean of switch and nonswitch trials (C3TSMXBB multiplied by -1) in the Stop & Go Switch Task (SGST)† 8=REFUSED/MISSING

^{*} The z-scores were computed using the means and standard deviations obtained on the main national MIDUS 2 sample (N = 4206) to allow for longitudinal comparisons

[†] See description of SGST variables below. Also note the recommendation to use the C3TSFC filter described at the end of this document when working with SGST variables. The SGST scores were corrected based on the metronome values.

Naming conventions for Stop and Go Switch Task (SGST) variables

- a) Naming convention for individual trials (raw scores)
 - i. 1st, 2nd, and 3rd character: by default is the **C3T** code that indicates MIDUS 3, Project 3, BTACT Cognitive Battery

C = MIDUS 3

3 = Project 3

T = BTACT Cognitive Battery

- ii. 4th character indicates the **S**top & Go Switch Task
- iii. 5th character: W = Ra**W** scores
- iv. 6th character indicates the subtest

N = Normal single-task

R = **R**everse single-task

X = mi**X**ed-task

v. 7th and 8th character indicate trial number (**1-20** for single-task, **1-32** for mixed-task)

b) Naming convention for Normal and Reverse single-tasks composite scores

i. 1st, 2nd, and 3rd character, by default, is the **C3T** code that indicates MIDUS 3, Project 3, BTACT Cognitive Battery

C = MIDUS 3

3 = Project 3

T = BTACT Cognitive Battery

- ii. 4th character indicates the **S**top & Go Switch Task
- iii. 5th character indicates measure
 - 1. For accuracy scores

T = **T**otal correct

V = invalid

P = **P**ercent correct

2. For latency scores

M = **M**edian (or mean of medians)

iv. 6th character indicates the subtest

N = Normal single-task

R = **R**everse single-task

v. 7th character indicates the scores corrected based on the metronome values

C = **C**orrected

c) Naming convention for Mixed-task composite scores

i. 1^{st} , 2^{nd} , and 3^{rd} character, by default, is the **C3T** code that indicates MIDUS 3, Project 3, BTACT Cognitive Battery

C = MIDUS 3

3 = Project 3

T = BTACT Cognitive Battery

- ii. 4th character indicates the Stop & Go Switch Task
- iii. 5th character indicates measure
 - 1. For accuracy scores

T = **T**otal correct

V = invalid

P = **P**ercent correct

2. For latency scores

M = **M**edian (or mean of medians)

iv. 6th character indicates the subtest

X = mi**X**ed-task

v. 7th character indicates the condition

N = **N**ormal

R = **R**everse

B = combined

vi. 8th character indicates the trial type

S = **S**witch

O = nOnswitch

B = combined

vii. 9th character indicates the scores corrected based on the metronome values

C = **C**orrected

d) Naming convention for metronome tasks

i. 1st, 2nd, and 3rd character, by default, is the **C3T** code that indicates MIDUS 3, Project 3, BTACT Cognitive Battery

C = MIDUS 3

3 = Project 3

T = BTACT Cognitive Battery

- ii. 4th character indicates the Stop & Go Switch Task
- iii. 5th character indicates measure

M = **M**edian

iv. 6th character indicates the subtest

M = **M**etronome

v. 7th character indicates the timing of administration

B = at the **B**eginning of the SGST (C3TSMMB)

E = at the End of the SGST (C3TSMME)

M = **M**ean of the Beginning and End scores:

C3TSMMM = mean (C3TSMMB, C3TSMME)

- e) Composite scores: variable names
 - i. Accuracy

- 1. **C3TSPN**: normal single-task % correct
- 2. C3TSPR: reverse single-task % correct
- 3. C3TSPXNO: mixed-task normal nonswitch % correct
- 4. C3TSPXRO: mixed-task reverse nonswitch % correct
- 5. C3TSPXBO: mixed-task nonswitch % correct
- 6. C3TSPXNS: mixed-task normal switch % correct
- 7. C3TSPXRS: mixed-task reverse switch % correct
- 8. C3TSPXBS: mixed-task switch % correct
- 9. C3TSPXBB: all mixed-task trials % correct

ii. Latencies

- 1. C3TSMN: normal single-task median RT (reaction time)
- 2. **C3TSMR**: reverse single-task median RT (reaction time)
- 3. **C3TSMB**: mean(C3TSMN, C3TSMR) (normal and reverse)
- 4. C3TSMXNO: mixed-task normal nonswitch median RT
- C3TSMXRO: mixed-task reverse nonswitch median RT
- 6. C3TSMXBO: median RT of all mixed-task nonswitch
- 7. C3TSMXNS: mixed-task normal switch median RT
- C3TSMXRS: mixed-task reverse switch median RT
- 9. C3TSMXBS: median RT of all mixed-task switch
- 10. **C3TSMXBB**: mean(C3TSMXBO, C3TSMXBS) (nonswitch and switch trials)
- iii. Latencies corrected based on the metronome values
 - 1. **C3TSMNC** = C3TSMN C3TSMMM.
 - 2. **C3TSMRC =** C3TSMR C3TSMMM.
 - 3. **C3TSMBC** = mean(C3TSMNC, C3TSMRC) (normal and reverse)
 - C3TSMXNOC = C3TSMXNO C3TSMMM.
 - 5. **C3TSMXROC** = C3TSMXRO C3TSMMM.
 - 6. **C3TSMXBOC = C3TSMXBO C3TSMMM**.
 - 7. **C3TSMXNSC** = C3TSMXNS C3TSMMM.
 - 8. **C3TSMXRSC** = C3TSMXRS C3TSMMM.
 - 9. **C3TSMXBSC** = C3TSMXBS C3TSMMM.
 - C3TSMXBBC = mean(C3TSMXBOC, C3TSMXBSC) (nonswitch and switch trials)

f) Naming convention for cost variables

- i. 1st, 2nd, 3rd, 4th characters: as above: C3TS, for MIDUS 3, Project 3 BTACT Cognitive Battery, Stop & Go Switch Task
- ii. 5thcharacter: C=**C**ost
- iii. 6th character: indicates G=**G**eneral, L=**L**ocal
- iv. 7th character indicates the condition
 - N = Normal
 - R = **R**everse
 - B = comBined

- v. 8th character: A = **A**bsolute cost, R = **R**elative cost
- vi. 9th character: C = **C**orrected based on the metronome values

g) Switch Costs: variable names

- i. General switch costs compare latencies on mixed-task trials to single-task trials (mean of normal single-task and reverse single-task). Although there are several ways of calculating general switch costs, we selected this version as the most basic. We give both absolute and relative general switch costs. Absolute costs represent a simple difference score between the easier and more difficult condition (e.g. A B). Relative costs give the proportion decline in performance from the easier to the harder condition, and thus control for differences in baseline performance (e.g. (A-B)/A).)
 - 1. **C3TSCGNA**: General Switch Cost (normal), absolute [mean(C3TSMXNO, C3TSMXNS) C3TSMN]
 - 2. **C3TSCGNR**: General Switch Cost (normal), relative (C3TSCGNA/C3TSMN)
 - C3TSCGRA: General Switch Cost (reverse), absolute [mean(C3TSMXRO, C3TSMXRS) – C3TSMR]
 - 4. **C3TSCGRR**: General Switch Cost (reverse), relative (C3TSCGRA/C3TSMR)
 - C3TSCGBA: General Switch Cost (combined), absolute (C3TSMXBB-C3TSMB)
 - C3TSCGBR: General Switch Cost (combined), relative (C3TSCGBA/C3TSMB)
- ii. General switch costs corrected based on the metronome values
 - C3TSCGNAC: General Switch Cost (normal), absolute [mean(C3TSMXNOC, C3TSMXNSC) – C3TSMNC]
 - C3TSCGNRC: General Switch Cost (normal), relative (C3TSCGNAC/C3TSMNC)
 - C3TSCGRAC: General Switch Cost (reverse), absolute [mean(C3TSMXROC, C3TSMXRSC) – C3TSMRC]
 - C3TSCGRRC: General Switch Cost (reverse), relative (C3TSCGRAC/C3TSMRC)
 - 5. **C3TSCGBAC**: General Switch Cost (combined), absolute (C3TSMXBBC-C3TSMBC)
 - C3TSCGBRC: General Switch Cost (combined), relative (C3TSCGBAC/C3TSMBC)
- iii. <u>Local switch costs</u> compare mixed-task switch trials to mixed-task nonswitch trials. We give both *absolute* local switch costs and *relative* local switch costs.

- C3TSCLNA: Local Switch Cost (normal), absolute (C3TSMXNS C3TSMXNO)
- C3TSCLNR: Local Switch Cost (normal), relative (C3TSCLNA/C3TSMXNO)
- C3TSCLRA: Local Switch Cost (reverse), absolute (C3TSMXRS C3TSMXRO)
- 4. **C3TSCLRR**: Local Switch Cost (reverse), relative (C3TSCLRA/C3TSMXRO)
- C3TSCLBA: Local Switch Cost (combined), absolute (C3TSMXBS- C3TSMXBO)
- C3TSCLBR: Local Switch Cost (combined), relative (C3TSCLBA/C3TSMXBO)
- iv. Local switch costs corrected based on the metronome values
 - C3TSCLNAC: Local Switch Cost (normal), absolute (C3TSMXNSC – C3TSMXNOC)
 - C3TSCLNRC: Local Switch Cost (normal), relative (C3TSCLNAC/C3TSMXNOC)
 - C3TSCLRAC: Local Switch Cost (reverse), absolute (C3TSMXRSC C3TSMXROC)
 - 4. **C3TSCLRRC**: Local Switch Cost (reverse), relative (C3TSCLRAC/C3TSMXROC)
 - C3TSCLBAC: Local Switch Cost (combined), absolute (C3TSMXBSC- C3TSMXBOC)
 - C3TSCLBRC: Local Switch Cost (combined), relative (C3TSCLBAC/C3TSMXBOC)
- h) <u>Filters</u>: We provide two levels of filters. Researchers who wish to use all valid files can choose to select the Valid filter (C3TSFV below). In our analyses we have used a criterion of 75% accuracy to ensure that participants were performing the task correctly; researchers who wish to use this approach can select cases based on the Clean filter (C3TSFC below).
 - i. C3TSFV (Valid): filters cases that were invalid due to missing sound files, technical problems, or failure to carry out the task as instructed.
 - ii. C3TSFC (Clean): To further insure that participants were performing the task as directed, we required a valid file with accuracy of at least 75% on all conditions (normal single-task, reverse single-task, mixedtask switch and nonswitch). In addition, to eliminate extreme latencies (i.e., outliers), we required median values of <2 sec for single-task and <4 sec for mixed-task trials.</p>

Note: **Bold** variable names below indicate composite or total scale scores.

***************************************	V/111/15-12-1/15-1	***************************************
	Individual Trials: Raw Scores	
C3TSWN1	SGST: normal single-task trial #1#20	Latencies (s)
C3TSWN20	-	95=INCORRECT
		98=REFUSED/MISSING
		99=INVALID
C3TSWR1	SGST: reverse single-task trial #1#20	Latencies (s)
C3TSWR20		95=INCORRECT
		98=REFUSED/MISSING
		99=INVALID
C3TSWX1	SGST: mixed-task trial #1 "normalgreen"trial	Latencies (s)
C3TSWX32	#32 "green"	95=INCORRECT
		98=REFUSED/MISSING
		99=INVALID
	Normal Single-task Trials: Composite Sco	res
	Composite Accuracy Scores	
C3TSTN	SGST: normal single-task #correct	0-20
		98=REFUSED/MISSING
C3TSVN	SGST: normal single-task #invalid	0-20
		98=REFUSED/MISSING
C3TSPN	SGST: normal single-task %correct (ratio form)	0-1.00
		8=REFUSED/MISSING
	Composite Latency Score	
C3TSMN	SGST: normal single-task median RT (reaction	Latency (s)
	time)	98=REFUSED/MISSING
C3TSMNC	SGST: normal single-task median RT (reaction	Latency (s)
	time) corrected based on the metronome values	98=REFUSED/MISSING
	Reverse Single-task Trials: Composite Sco	ores
	Composite Accuracy Scores	
C3TSTR	SGST: reverse single-task #correct	0-20
		98=REFUSED/MISSING
C3TSVR	SGST: reverse single-task #invalid	0-20
		98=REFUSED/MISSING
C3TSPR	SGST: reverse single-task %correct (ratio form)	0-1.00
		8=REFUSED/MISSING
	Composite Latency Score	
C3TSMR	SGST: reverse single-task median RT (reaction	Latency (s)
	time)	98=REFUSED/MISSING

VARIABLE LABEL

VARIABLE NAME

VALUES

C3TSMRC	SGST: reverse single-task median RT (reaction	Latency (s)
	time) corrected based on the metronome values	98=REFUSED/MISSING
	Composite of Normal and Reverse Single	-task
C3TSMB	SGST: mean(C3TSMN, C3TSMR)	Latency (s)
		98=REFUSED/MISSING
C3TSMBC	SGST: mean(C3TSMNC, C3TSMRC)	Latency (s)
		98=REFUSED/MISSING

Mixed-task Trials: Composite Accuracy Scores		
	Accuracy composite across normal nonswitch	h trials
C3TSTXNO	SGST: mixed-task normal nonswitch trials #correct	0-12 98=REFUSED/MISSING
C3TSVXNO	SGST: mixed-task normal nonswitch trials #invalid	0-12 98=REFUSED/MISSING
C3TSPXNO	SGST: mixed-task normal nonswitch trials %correct (ratio form)	0-1.00 8=REFUSED/MISSING
	Accuracy composite across reverse nonswitch	h trials
C3TSTXRO	SGST: mixed-task reverse nonswitch trials #correct	0-11 98=REFUSED/MISSING
C3TSVXRO	SGST: mixed-task reverse nonswitch trials #invalid	0-11 98=REFUSED/MISSING
C3TSPXRO	SGST: mixed-task reverse nonswitch trials %correct (ratio form)	0-1.00 8=REFUSED/MISSING
Accuracy composites across all nonswitch trials		
СЗТЅТХВО	SGST: mixed-task nonswitch trials #correct	0-23 98=REFUSED/MISSING
C3TSVXBO	SGST: mixed-task nonswitch trials #invalid	0-23 98=REFUSED/MISSING
СЗТЅРХВО	SGST: mixed-task nonswitch trials %correct (ratio form)	0-1.00 8=REFUSED/MISSING
	Accuracy composite across normal switch t	trials
C3TSTXNS	SGST: mixed-task normal switch trials #correct	0-3 8=REFUSED/MISSING
C3TSVXNS	SGST: mixed-task normal switch trials #invalid	0-3 8=REFUSED/MISSING
C3TSPXNS	SGST: mixed-task normal switch trials %correct (ratio form)	0-1.00 8=REFUSED/MISSING
	Accuracy composite across reverse switch	trials
C3TSTXRS	SGST: mixed-task reverse switch trials #correct	0-3 8=REFUSED/MISSING

Accuracy composite across all switch trials Accuracy composite across all switch trials C3TSTXBS SGST: mixed-task switch trials #correct 8: C3TSVXBS SGST: mixed-task switch trials #invalid C3TSPXBS SGST: mixed-task switch trials #correct (ratio form) 8: C3TSPXBS SGST: mixed-task switch trials #correct (ratio form) 8: Accuracy composites across all mixed-task trials C3TSTXBB SGST: all mixed-task #correct 9: C3TSVXBB SGST: all mixed-task #invalid 0: Mixed-task Trials: Composite Latency Scorest Latency composite across normal nonswitch trials C3TSMXNO SGST: mixed-task normal nonswitch median RT corrected based on the metronome values Latency composite across reverse nonswitch trials C3TSMXROC SGST: mixed-task reverse nonswitch median RT corrected based on the metronome values Latency composite across all nonswitch trials C3TSMXROC SGST: mixed-task reverse nonswitch median RT corrected based on the metronome values Latency composite across all nonswitch trials C3TSMXROC SGST: mixed-task reverse nonswitch median RT corrected based on the metronome values 9: C3TSMXROC SGST: mixed-task reverse nonswitch median RT corrected based on the metronome values 9: C3TSMXROC SGST: mixed-task nonswitch trials median RT corrected based on the metronome values 9: C3TSMXBOC SGST: mixed-task nonswitch trials median RT corrected based on the metronome values 9: C3TSMXBOC SGST: mixed-task nonswitch trials median RT corrected based on the metronome values 1: C3TSMXBOC SGST: mixed-task nonswitch trials median RT corrected based on the metronome values 9: C3TSMXBOC SGST: mixed-task nonswitch trials median RT corrected based on the metronome values 1: C3TSMXBOC SGST: mixed-task nonswitch trials median RT corrected based on the metronome values 1: C3TSMXBOC SGST: mixed-task nonswitch trials median RT corrected based on the metronome values 1: C3TSMXBOC SGST: mixed-task nonswitch trials median RT corrected based on the metronome values 1: C3TSMXBOC SGST: mixed-task n	=REFUSED/MISSING 1.00 =REFUSED/MISSING 6
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C3TSMXBOC SGST: mixed-task nonswitch trials median RT Labased on the metronome values SGST: mixed-task nonswitch trials median RT Labased on the metronome values Latency composite across normal switch trials median RT corrected Labased on the metronome values	
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based on the metronome values 98 Latency composite across normal switch trial	B=REFUSED/MISSING
Latency composite across normal switch trial	itency (s)
	B=REFUSED/MISSING
	s
C3TSMXNS SGST: mixed-task normal switch median RT La	itency (s)
	B=REFUSED/MISSING
	tency (s)
Latency composite across reverse switch tria	itency (s) B=REFUSED/MISSING

C3TSMXRS	SGST: mixed-task reverse switch median RT	Latency (s)
		98=REFUSED/MISSING
C3TSMXRSC	SGST: mixed-task reverse switch median RT	Latency (s)
	corrected based on the metronome values	98=REFUSED/MISSING
	Latency composite across all switc	h trials
C3TSMXBS	SGST: mixed-task switch trials median RT	Latency (s)
		98=REFUSED/MISSING
C3TSMXBSC	SGST: mixed-task switch trials median RT	Latency (s)
	corrected based on the metronome values	98=REFUSED/MISSING
	Latency composite across all mixed-t	ask trials
СЗТЅМХВВ	SGST: mean(B3TSMXBO, B3TSMXBS)	Latency (s)
		98=REFUSED/MISSING
СЗТЅМХВВС	SGST: mean(B3TSMXBOC, B3TSMXBSC)	Latency (s)
		98=REFUSED/MISSING

	Mixed-Task Trials: Switch Cost Scores	
C3TSCGBA	SGST: General Switch Cost, absolute (C3TSMXBB-	Latency (s)
	C3TSMB)	98=REFUSED/MISSING
C3TSCGBR	SGST: General Switch Cost, relative (C3TSCGBA/C3TSMB)	Latency (s)
		98=REFUSED/MISSING
C3TSCGNA	SGST: General Switch Cost (normal), absolute	Latency (s)
	[mean(C3TSMXNO, C3TSMXNS) – C3TSMN]	98=REFUSED/MISSING
C3TSCGNR	SGST: General Switch Cost (normal), relative	Latency (s)
	(C3TSCGNA/C3TSMN)	98=REFUSED/MISSING
C3TSCGRA	SGST: General Switch Cost (reverse), absolute	Latency (s)
	[mean(C3TSMXRO, C3TSMXRS) – C3TSMR]	98=REFUSED/MISSING
C3TSCGRR	SGST: General Switch Cost (reverse), relative	Latency (s)
	(C3TSCGRA/ C3TSMR)	98=REFUSED/MISSING
C3TSCLBA	SGST: Local Switch Cost, absolute (C3TSMXBS-	Latency (s)
	C3TSMXBO)	98=REFUSED/MISSING
C3TSCLBR	SGST: Local Switch Cost, relative (C3TSCLBA/C3TSMXBO)	Latency (s)
		98=REFUSED/MISSING
C3TSCLNA	SGST: Local Switch Cost (normal), absolute (C3TSMXNS-	Latency (s)
	C3TSMXNO)	98=REFUSED/MISSING
C3TSCLNR	SGST: Local Switch Cost, (normal), relative	Latency (s)
	(C3TSCLNA/C3TSMXNO)	98=REFUSED/MISSING
C3TSCLRA	SGST: Local Switch Cost (reverse), absolute (C3TSMXRS-	Latency (s)
	C3TSMXRO)	98=REFUSED/MISSING

C3TSCLRR	SGST: Local Switch Cost,(reverse), relative	Latency (s)
331332	(C3TSCLRA/C3TSMXRO)	98=REFUSED/MISSING
C3TSCGBAC	SGST: General Switch Cost, absolute (C3TSMXBBC-	Latency (s)
3313332113	C3TSMBC)	98=REFUSED/MISSING
C3TSCGBRC	SGST: General Switch Cost, relative	Latency (s)
	(C3TSCGBAC/C3TSMBC)	98=REFUSED/MISSING
C3TSCGNAC	SGST: General Switch Cost (normal), absolute	Latency (s)
	[mean(C3TSMXNOC, C3TSMXNSC) – C3TSMNC]	98=REFUSED/MISSING
C3TSCGNRC	SGST: General Switch Cost (normal), relative	Latency (s)
	(C3TSCGNAC/C3TSMNC)	98=REFUSED/MISSING
C3TSCGRAC	SGST: General Switch Cost (reverse), absolute	Latency (s)
	[mean(C3TSMXROC, C3TSMXRSC) – C3TSMRC]	98=REFUSED/MISSING
C3TSCGRRC	SGST: General Switch Cost (reverse), relative	Latency (s)
	(C3TSCGRAC/ C3TSMRC)	98=REFUSED/MISSING
C3TSCLBAC	SGST: Local Switch Cost, absolute (C3TSMXBSC-	Latency (s)
	C3TSMXBOC)	98=REFUSED/MISSING
C3TSCLBRC	SGST: Local Switch Cost, relative	Latency (s)
	(C3TSCLBAC/C3TSMXBOC)	98=REFUSED/MISSING
C3TSCLNAC	SGST: Local Switch Cost (normal), absolute (C3TSMXNSC-	Latency (s)
	C3TSMXNOC)	98=REFUSED/MISSING
C3TSCLNRC	SGST: Local Switch Cost, (normal), relative	Latency (s)
	(C3TSCLNAC/C3TSMXNOC)	98=REFUSED/MISSING
C3TSCLRAC	SGST: Local Switch Cost (reverse), absolute	Latency (s)
	(C3TSMXRSC-C3TSMXROC)	98=REFUSED/MISSING
C3TSCLRRC	SGST: Local Switch Cost,(reverse), relative	Latency (s)
	(C3TSCLRAC/C3TSMXROC)	98=REFUSED/MISSING
	Filters and Cell Phone Adjustments	
C3TSFV	SGST: Filter invalid cases (VALID)	0=NOT SELECTED
C3131 V	SGS1. Filter ilivalid cases (VALID)	1=SELECTED
C3TSFC	SGST: Filter cases with low accuracy or extreme	0=NOT SELECTED
C3131 C	latencies (CLEAN)	1=SELECTED
C3TSMMB	Metronome (median of 8 lags measured at the	Latency (s)
CSTSIVIIVID	beginning of the SGST)	98=REFUSED/MISSING
	segiming of the sasty	99=INAPP (LANDLINE
		PHONE)
		0=PERFECT ACCURACY
C3TSMME	Metronome (median of 8 lags measured at the end of	Latency (s)
39 : G:: -	the SGST)	98=REFUSED/MISSING
	•	99=INAPP (LANDLINE
		PHONE)
		0=PERFECT ACCURACY

C3TSMMM	Metronome (mean of medians)	Latency (s)
	mean(C3TSMMB, C3TSMME)	98=REFUSED/MISSING
		99=INAPP (LANDLINE
		PHONE)
		0=PERFECT ACCURACY