

Using Blaise 4.8 for Census Coverage Measurement

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Roberto Picha
Technology Management Office

Outline

- Introduction
- Enhancements
 - Collecting/Displaying/Selecting Addresses
 - Output Processing
 - Roster Collection / Roster Review
 - Navigation to Last Question
- Conclusions

Introduction

- Background
 - Personal - telephone interview
 - Collect basic demographic
- Collect address for:
 - current residents
 - mover residents
- Requirements
 - Instrument to be used by new hires

Collecting, Displaying and Selecting Address in 2006 with Blaise 4.6

- External file to store addresses
 - Share information across instrument
- Instrument used Delphi DLL
 - DLL allow to write and read external file
- The use of gates
 - Used to control DLL
 - Unnecessary extra keystrokes

Is the address you selected or entered correct?

- 1. Yes
- 2. No

Name	Select	Probe	House#	Street	Unit	City	State	Zip	US	Description	Landmarks	Correct	Continue
Joe Doe	0		121	main	21	New citt	Maine	22344	1			1	1
Jane Doe													
Jill Doe	1		111	main	21	New citt	Maine	22344	1				

Is the address you selected or entered correct?

- 1. Yes
- 2. No

Name	Select	House#	Street	Unit	City	State	Zip	US	Description	Landmarks	Correc
Joe Doe	<input checked="" type="checkbox"/>	402 A	SW MAIN ST		Springfield	SD	12345	<input type="checkbox"/>			<input type="checkbox"/>
Jane Doe	<input type="checkbox"/>										
Jill Doe	<input type="checkbox"/>										<input type="checkbox"/>

Collecting, Displaying and Selecting Address in 2009 with Blaise 4.8

- Still storing to an external file
 - Share information across the instrument
- Manipula instead of Delphi
 - Code Migration
 - Alien Procedure
- No more gates
 - Manipula events
- Manipula – DEP seamless approach

What was Pam Doe's address on May 1st?

- ◆ Probe for complete address including ZIP code.
- ◆ Don't include P.O. Box Address.
- ◆ To enter Don't Know, press CTRL+D.
- ◆ To enter Refused, press CTRL+R.

0. Add new address
2. 345 lost ave la la land UT
1. 123 main st Happy town MA

Name	Pam Doe	House#	345	State	UT
HereCD	2	Street Name	lost ave	Zip	33333
Select	2	Unit		Country	1
Probe		City	la la land	Mile	
				Cross	
				Landmarks	

Output Process in 2006 with Blaise 4.6

- ASCII dump
 - Data information scattered
 - Hard to link data
 - Hardware and software issues
- Process
 - ASCII was split
 - Using Cameleon scripts to generate
 - Manipula script to split record
 - Data dictionary
 - Manipula to load into SAS

Output Process in 2009 with Blaise 4.8

- Sponsor layout
 - Variables for output
 - Producing a layout file
- Using one Manipula script
 - Generate ASCII dump
 - SCIF format output
 - Generate SAS script
- Can be used by other surveys
 - CCM Re-interview

```
data
RT1000 (Keep = CASEID CTRLNUM CASEID CTRLNUM MODE SITE INTPER PSU SURVEY SURVTYPE DATASENSITIVITY OPCODE C
RT8500 (Keep = CASEID CTRLNUM START_A ATTEMPT_TYPE TRANSMIT PRX_OK PRX_REASON START_B NOANSWER CURSTAT FID
RT8502 (Keep = CASEID CTRLNUM PERS ROSTER_REV DELETE RESPONDENT reference ROSFLG FNAME MINIT LNAME DES MO

retain CASEID CTRLNUM;
infile "2009-02-10_37548500.inp" LRECL=3000 TRUNCOVER;
input rt $ 1-4 @;
if rt = '1000' then input
CASEID $ 5 - 12
CTRLNUM $ 13 - 36
MODE $ 37 - 37
SITE $ 38 - 39
INTPER $ 40 - 47
PSU $ 48 - 52
SURVEY $ 53 - 56
SURVTYPE $ 57 - 57
DATASENSITIVITY $ 58 - 58

;
if rt = '1000' then output RT1000;
if rt = '8500' then input
START_A $ 5 - 5
ATTEMPT_TYPE $ 6 - 6
TRANSMIT $ 7 - 7
PRX_OK $ 8 - 8
PRX_REASON $ 9 - 9
START_B $ 10 - 10
NOANSWER $ 11 - 11
CURSTAT $ 12 - 12
FINDPROXY $ 13 - 13
LOCATE $ 14 - 14
VER_RESP $ 15 - 15
RESP_AVAIL $ 16 - 16
if rt = '8500' then output RT8500;
if rt = '8503' then input
PERS $ 5 - 6
ROSTER_ADDR1 $ 7 - 8
ROSTER_PROBE $ 9 - 9
ROSTER_ADDR2 $ 10 - 19
ROSTER_ADDR3 $ 20 - 52
ROSTER_ADDR4 $ 53 - 72
ROSTER_ADDR5 $ 73 - 94
ROSTER_ADDR6 $ 95 - 96
ROSTER_ADDR7 $ 97 - 101
ROSTER_ADDR8 $ 102 - 102
ROSTER_DESCRIP $ 103 - 162
ROSTER_MILE $ 163 - 163
ROSTER_CROSS $ 164 - 263
ROSTER_LNDRKS $ 264 - 363
ROSTER_NEIGHBOR $ 364 - 463
```

Roster Collection in 2006 with Blaise 4.6

- In 2006 Several Rosters
 - Overhead synchronization
 - Lag time
 - Convoluted programming
- Simple, Better, Faster
 - Not always the winner

Roster Collection in 2009 with Blaise 4.8

- In 2009 Fewer Rosters
 - Single roster for collecting residents
 - Simple effective Manipulation probes
 - Setting the status flag
 - Reducing extra flags
- Simple, Better, Faster
 - This time was the winner

? [F1]

What is that person's first name? Middle initial? Last Name?

- To enter Don't Know, press CTRL+D.
- To enter Refused, press CTRL+R.
- If there are no additional people, type 999 in the first name and press enter.

	First Name	Initial	Last Name	Description
1	John		Doe	
2	Moe		Doe	
3	Pam		Doe	
4				

Roster Review

- Verification of residents names
 - Verify, add, remove, and update information
 - Synchronize information with roster
 - Unidirectional update
- Manipula used again for:
 - Transferring data from roster to roster review
 - Transferring data to roster review to roster

I am going to show you the list of the people I recorded.

- Show Roster Below

Is everything spelled correctly? Is the list complete?

- Every person must have an action to move from screen.
- To add a person, go to the last row and enter 4.
- NO MORE CHANGES WILL BE ALLOWED TO THE ROSTER AFTER THIS SCREEN. YOU CAN NOT RETURN TO THIS SCREEN.

- 4. Add Person
- 5. Table Now Correct - Continue Interview

Review		First Name	Initial	Last Name	Description
1	1 NoChange	John		Doe	
2	2 MemberModified	Moe	L	Doe	
3	1 NoChange	Pam		Doe	

Navigation to Last Question from Previous Session

- New enhancement for 2009
- Resume interview from last location
 - Aid with automated navigation
 - End Key available but not used
- Manipula handy approach
 - Capture last variable at end of interview
 - Setting focus to last variable and resume interview

```
PROCEDURE prc_LastVariable
{proc to capture last variable if user left via F10; rpv jul 08}
```

INSTRUCTIONS

```
IF ACTIVEPARALLEL = 'CCM' THEN
  IF (DEP.Gate_TRooster = 1) OR (DEP.WHOutmovers.Gate_TRooster = 1) THEN
    IF (substring(ACTIVEFIELD,1,6) <> 'Front.') AND
      (substring(ACTIVEFIELD,1,5) <> 'Back.') THEN
      DEP.LastVariable := ACTIVEFIELD
    ENDIF
  ENDIF
ELSE
  DEP.LastVariable := ''
ENDIF
```

ENDPROCEDURE

```
PROCEDURE prc_SetOnLastVariable
{proc to allow jump to last variable on route; rpv jul 08}
```

INSTRUCTIONS

```
IF (ROUTERSTATUS= BLRSPREEDIT) THEN
  SETALIENROUTERACTION(BLRAEFAULT)
  SETDATACHANGEDBYUSER(YES)
ENDIF
IF (ROUTERSTATUS= BLRSEEDIT) THEN
  SETALIENROUTERACTION(BLRAEDITQUESTION)
  SETDATACHANGEDBYUSER(YES)
ENDIF
IF (ROUTERSTATUS = BLRSPPOSTEDIT) THEN
  IF DEP.LastVariable <> '' THEN
    {*** more code here ...
      Check for sections, updates etc
    *** end of code}

    SETACTIVEPARALLEL('CCM')
    SETACTIVEFIELD(DEP.LastVariable)
  ENDIF
  SETALIENROUTERACTION(BLRAEFAULT)
  SETDATACHANGEDBYUSER(YES)
ENDIF
```

ENDPROCEDURE

Conclusions

- Successful Development
 - Achieve all requirements
 - Blaise new capabilities
- Manipula Strong Tool
 - Allows processes from within DEP
 - Improvement to address collection
 - Roster Collection efficiency
 - Navigation feature
 - Output
 - Manipula late binding
 - Next option at the U.S. Census Bureau?

Questions or Comments?

Contact Information:

Roberto Picha

Technologies Management Office

U.S. Census Bureau, USA

roberto.v.picha@census.gov

301-763-7730

