

Census Setup with Blaise 5 Manipula

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Introduction

- Blaise must be able to talk to other applications and platforms
 - Manipula accomplishes this task
- Standard Manipula Scripts
 - Setup
 - Capi_trans
 - Capi_casemgt_in
 - Capi_casemgt_out
- Research into Blaise 4 to Blaise 5 Conversion
 - Blaise 4.8.4.1861
 - Blaise 5.0.5.950

Setup Script Overview

- Sample Control Input File (SCIF)
 - Input data used by instrument and control systems
 - Record Types
 - Dependent data
- Creates individual Blaise databases
- Creates a list of cases processed

Blaise 4 Setup

- Record Types as datamodels

```
INPUTFILE
  In1060 : InitRT1060 ('lqiinput.dat', ASCII)
```

```
ALTERNATIVE
  In2060 : InitRT2060
  In2561 : InitRT2561
```

```
...
```

FIELDS

```
RecType      : STRING[2]
RecSubType   : STRING[2]
CASEID       : STRING[8]
CTRLNUM      : STRING[24]
ORADDL       : STRING[1]
MODE         : STRING[1]
```

Blaise 4 Setup

- Create bdb, read each line of the SCIF

```
1002001000001001000001010501001G  
20075023 ----- RR 358, Box 27  
2103 -----  
2501101 --- 310 -----  
4004Q01 01 3 -----  
8100 -----  
1002001000001001000001020501001U  
20075034 ----- Blue Ct -----
```

- Block to Block Copy
- Load into instrument variables
- Repeat copy and load until script reads another RT10
- Write and close current bdb
- Repeat from the top until EOF

Blaise 5

- New Blaise. New Manipula
- A work in progress
- No Block to Block Copy
 - We need an alternative...

Blaise 5 Setup Design

- PUTVALUE
 - Combined with other functions we can copy data to both locations in the database
 - e.g. RT1002.CASEID and CASEID

```
iPos := position('.', iPath)
iLen := LEN(iPath)
//load variable at the datamodel level
Outfile.PUTVALUE(SUBSTRING(iPath, (iPos+1), (iLen-iPos)+1), Mydata)
//load variable at the RT block level
Outfile.PUTVALUE(iPath, Mydata)
```

Blaise 5 Setup Design

- Instead of using datamodels, use arrays
 - One array element per RT

```
IF Substring(In1002.OneLineRT,1,4) = '1060' THEN
    RTLine[1] := In1002.OneLineRT
ELSEIF Substring(In1002.OneLineRT,1,4) = '2060' THEN
    RTLine[2] := In1002.OneLineRT
```

Blaise 5 Setup Design

- Write data to the database once
- Use a procedure to write data
 - Time and code savings

```
prc_FormatData('r','rt1060.CASEID', Substring(RTLine[1],5,8))  
prc_FormatData('r','rt1060.CTRLNUM', Substring(RTLine[1],13,24))
```

# Of Cases	Blaise 4 Setup	Blaise 5 Setup
74	1 min. 10 sec.	12 sec.
10,000	~2 hr. 15 min.	~27 min.

B4 to B5 Conversion Script

- Manipula script created to handle the setup code design change
 - Prompt for number of Rt85 Records
 - Read B4 Script, write B5 Script

Blaise 4:

```
Outfile.COLLECT_START      := In2561.Rt2561in.COLLECT_START
Outfile.COLLECT_SALES      := In2561.Rt2561in.COLLECT_SALES
Outfile.COLLECT_COMP       := In2561.Rt2561in.COLLECT_COMP
Outfile.COLLECT_MCDNOTES   := In2561.Rt2561in.COLLECT_MCDNOTES
Outfile.COLLECT_FRREQUEST  := In2561.Rt2561in.COLLECT_FRREQUEST
```

Blaise 5:

```
prc_FormatData('r', 'rt2561.COLLECT_START', Substring(RTLine[3],1361,1))
prc_FormatData('r', 'rt2561.COLLECT_SALES', Substring(RTLine[3],1362,1))
prc_FormatData('r', 'rt2561.COLLECT_COMP', Substring(RTLine[3],1363,1))
prc_FormatData('r', 'rt2561.COLLECT_MCDNOTES', Substring(RTLine[3],1364,1))
prc_FormatData('r', 'rt2561.COLLECT_FRREQUEST', Substring(RTLine[3],1365,1))
```

Setup Script Challenges

- Desire to replicate B4 functionality
- No Block to Block copy
- Not all commands are available
 - Some have been introduced in later versions of Blaise 5
- Calling Individual Cases
- We want Maniplus

Converting Other Manipula Scripts

- Capi_casemgt_in
 - Similar approach as Setup
 - Currently reads ASCII, may read XML in future
- Capi_casemgt_out
 - Work in progress
- Capi_trans
 - Needs CALL and EDIT commands (Maniplus)

Future Plans

- Setup Enhancements
 - Handling Multiple RT85
 - Varies per survey
- Research Runtime Scripts
- Manipula will update
 - So will our scripts

8500 ---
850001 --
850002 --
850005 --
850006 --
850006 --
850006 --
850007 --
850007 --
850007 --
850010 --

Final Thoughts

- Manipula is valuable
- Easier transition to Blaise 5
- Research is paying off
- An interesting future

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