

Blaise NG Testing

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MMP Survey Services, LLC

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Software Situation



Blaise 4.8 (current)



Blaise 5 (future)

“We’re trying to get from one very good system to another very good system. There are many similarities and many differences.”

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Geographic Situation



“We live all over the place. This is good, but it presents challenges.”

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People Situation



“On the left we have members of the Blaise team, and on the right we have Blaise users. This can come across as ‘them’ versus ‘us’.”

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People Situation



“But we’re all in this together and we’re working for the same thing.”

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Testing Challenges and Strengths

Challenges

- Blaise system is vast
- Blaise team is small
- Redesigned modules
- All code is reprogrammed
- New platforms targeted
- Users are demanding
- Users want it inexpensively
- Staged conversion
- Testing budget is small

Strengths

- Large installed base
- Users needs are known
- **13 BCLUB members are 'NG Testers'**
- MMPSS is testing coordinator
- Incredible test suite
- Systematic approach
- Communication channels
- Blaise NG White Paper

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Blaise NG Testers

Institute

- Australian Central Bureau of Statistics
- China – Beijing University
- Statistics Canada
- Statistics Germany
- Statistics Netherlands production unit
- Statistics New Zealand
- Statistics Norway
- UK – Office for National Statistics
- UK – National Centre for Social Research
- US – Census Bureau
- US – National Agricultural Statistics Service
- US – University of Michigan
- US – Westat
- US – MMP Survey Services, LLC

Tasks

- Interface examples
- Test suite contributions
- Testing versions of Blaise 5
- Statement of impressions
- Evaluation of fitness

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Aspects of Testing

Blaise 5 can handle current survey programs

- Interfaces
- Blaise test suite
- Individual testing
- Automated testing

Blaise 5 implements new functionality

- .NET world
- Blaise NG White Paper (2007)
- Accessibility

Blaise 5 is suitable, usable, and efficient

- Impressions of testers
- Feedback from MMPSS

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Blaise 4 Windows Interfaces

CONTACT

To remove the name, enter 'del'.

Enter a text of at most 32 characters.

Fields include: AgtAgnt, PrenomCode, CognomCode, Langage, AgtName, Legit_Name, Location, Team, SIAIREAU, PrenomCode, CognomCode, Legit_Name, Location, Team, SIAIREAU, BR Legal, SOD Legal Name, Operating Name, Coverage, Date In, Best Day, Best Time From, Header Verification, Temp Closed From, Reasons From, Report Interval, Collection Method, Telephone, NAICS, on a quarterly basis.

Monthly Survey of Manufacturers

Form: Answer Navigate Options Help

Appt | Edits Not Confirmed | CTRL+F2-802 F3-Info | F4-ScratchPad | F10-Conclude | F11-Comments | F12-Profile

Information: Press "ENTER" to view the historical information.

Fields include: BR Legal, SOD Legal Name, Operating Name, Coverage, Date In, Best Day, Best Time From, Header Verification, Temp Closed From, Reasons From, Report Interval, Collection Method, Telephone, NAICS, on a quarterly basis.

Examples of Tabular Layout in Blaise for Windows®:

General remark:
The tables operate horizontally.
The rows that are used depend
- on the stated number of household members
- and of routing information.

Figure 7: The use of parallels is enabled in using menu-items

Erfassung/Bearbeitung aller Interviews - Mikrozensus 2011

Person 1 - 35 Jahre - männlich - Nicht en Frage 78

Aus welchem der nachfolgenden haben Sie Ihre letzte Erwerbs...
Frühere Erwerbstätigkeit

Answers to be presented for the respondent

TypeWork	Describe	Workers	Hours	Wages	Unit	CalcWage	Confirm	AnyMore
1	fruit pickers	2	75	8.00	2		1	1
2								
3								
4								
5								
6								
7								
8								
9								

Comment:
The tables in this datamodel consist of nested blocks.
At this moment, it isn't possible to refer on a block-row, but showing the table-layout if you do by referring to the first array of the table, the layout turns to a default-non-...
If it would be possible to change this layout-behaviour, it would help avoid too much exchange between different tables.

Person 1 - 35 Jahre - männlich - Nicht en Frage 78

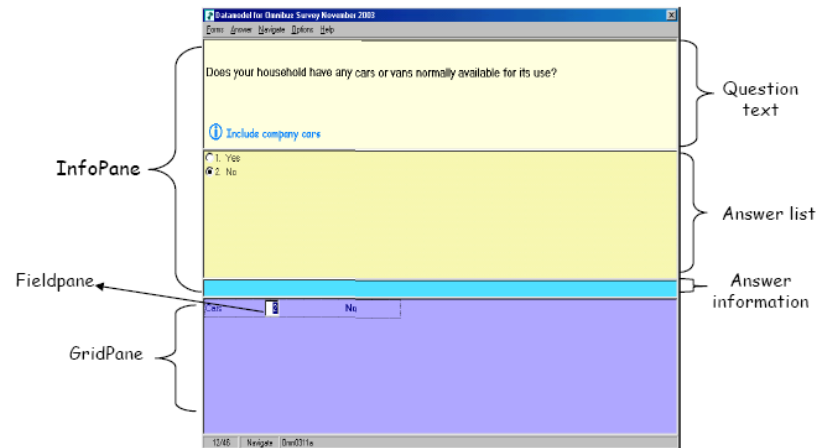
Answers to be presented for the respondent

TypeWork	Describe	Workers	Hours	Wages	Unit	CalcWage	Confirm	AnyMore
1	fruit pickers	2	75	8.00	2		1	1
2								
3								
4								
5								
6								
7								
8								
9								

String

Number, with one decimal

Multiple choice



labor004 | Appointment | NonResponse | ELMOComments | OutsideAppointment

What type of work were they hired to do?
REVIEW PAID WORKERS:
Field work: 2
Livestock work: 0
Supervision/Management: 0
Other work: 0
Unknown work: 0
Total Paid Workers: 2

TypeWork	Describe	Workers	Hours	Wages	Unit	CalcWage	Confirm	AnyMore
1	fruit pickers	2	75	8.00	2		1	1
2								
3								
4								
5								
6								
7								
8								
9								

This screen shows an arrayed table. Navigation is from left to right.

Web Survey Interface Research

Survey of Occupational Injuries and Illnesses - Part 1B

1 Establishment Information (Part 3A) | 2 Injuries & Illnesses (Part 1B) | 3 Cases (Part 2) | 4 Data Review

Part 1B. Summary of Work-Related Injuries and Illnesses

Your Number of Cases (columns G-J) should equal

Establishment ID: 190056702-2 [Add comments](#)

Using your completed Calendar Year 2003 Summary of Work-Related Injuries and Illnesses

- Copy the establishment information into the spaces below.
- If any total is zero on your OSHA Form 300A, enter "0" in that cell.
- Enter numbers only, omitting letters, symbols, decimals, and so on.

Number of Cases

Total number of deaths	Total number of cases, with days away from work
<input type="text"/>	<input type="text"/>
(G)	(H)

2008 National Survey of Recent College Graduates

Thank you for your participation. Here are a few things that might help you.

In most browsers, the F11 key reduces or eliminates the task bar at top. This would give more room for display of the survey items.

To proceed to the next question, use the **Next >** button below.

If you wish to back up to a previous question, use the **< Back** button below. Please do not use the Back arrow in the task bar!

If you need to leave the survey to continue later, use the **Suspend** button to exit.

USDA United States Department of Agriculture Farm Service Agency

Electronic Loan Deficiency Payments

Home About eLDP What's New E Forms Local Offices Help Contact Us Logout

You are here: Home / Producer Certification / Inquire

Inquire About A Producer

County FSA Office: State/County Code: Telephone:

Producer Name: Start With

Tax ID:

Tax ID Type:

Crop Year: 2002

Search Show All

1 to 10 of 29 Records Found

Go Search Results

NSF Survey of Federal Science and Engineering Support FY 2007

Main Menu | Help | Contact Us | Exit

Agency: 2, QRC DoD Test Record
Agency Code: 999987

Confirm/Update Your Contact Information

If the information on this screen is correct, please save it so that we know it is still correct if it has not changed since last year. If the information on this screen is not correct, please update and save it.

Person Submitting the Data

First Name:

Middle Initial:

Last Name:

Title:

Street Address 1:

Street Address 2:

FIGURE ES.4: DROP-D

29b. Please enter the facility name, location and client counts.

Please scroll through the entire page, listing question at the bottom of the page before p

Enter information here for Facility # 1

Facility Name (Line 1)

(Line 2)

Location Address (Line 1)

(Line 2)

City and State

Zip Code -

Facility Phone Number () () - () () E

Alabama
Alaska
American Samoa
Arizona
Arkansas
California
Colorado
Connecticut
Delaware
District of Columbia

Enter information here for Facility # 2

Facility Name (Line 1)

(Line 2)

Location Address (Line 1)

(Line 2)

City and State

Specific example introduced with "For example"

Labels appear above corresponding text boxes

The first row in the drop-down box should be blank (as shown) or contain the words "Select State."

A dropdown is useful for known lists such as state name and as a way to fit them into a complex screen. But dropdown lists should be used sparingly.

Test Suite

Composition

- 34 studies in Blaise 4.8
- They range from small to extremely large
- 4,000 to 5,000 source code files => Blaise 4-to-5 conversion in batch ~ 10 minutes
- Incredibly diverse
 - Subject matter
 - Datamodel structure
- CATI, CAPI, CADI, WEB, and POST-PROCESSING modes, including multimode
- Some come with Maniplus / Manipula / survey processing infrastructures

MMPSS

- Prepared and tested each instrument
- Provided a summary of the instrument or group of instruments
- Securely archived them for the Blaise Team
- Inspected them for unique, and software-stretching structures and displays
- Assessed the instruments for applicability to new Blaise NG features
- May incorporate them into automated testing

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Some of the Test Suite

Instrument path and name	Unique fields	Elementary fields	Total fields	Block Fields	Ratio total to unique
\US_Census\Surveys\CQR\e-inst\inst.tcd	4216	3986	223436	230	53.00
\US_Census\Surveys\SONC\e-inst\inst.tcd	515	488	124618	27	241.98
\UK_ONS\Surveys\HAS1001a\HAS1001a.tcd	2557	2266	52276	291	20.44
\UK_NatCen\Surveys\usoc\usoc.tcd	1142	1058	43576	84	38.16
\US_Census\Surveys\NCVS\e-inst\Inst.tcd	2243	2145	33630	98	14.99
\US_Michigan\Surveys\Psid09\Psid09.tcd	2933	2790	32410	143	11.05
\Australia\Surveys\BlaiseNGTest\BlaiseNGTest.tcd	473	413	30400	60	64.27
\US_Michigan\Surveys\HRS\Source\HRS10.tcd	7047	6644	28496	403	4.04
\Germany\Surveys\MikrozensusSurvey\source\Erhe	402	321	25591	81	63.66
\NewZealand\Surveys\DPS_Cordinated_Testing\Tim	166	152	15425	14	92.92
\UK_ONS\Surveys\HAS1001a\Externals\hak0909x.t	585	548	11800	37	20.17
\Canada\Surveys\GSS24\SURVEY\GSS24.tcd	873	736	8815	137	10.10

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Test Suite

Uses

- Bring up each datamodel, one at a time in the Blaise NG Control Centre
- To parse in batch
- As a source of source code and datamodel structures
- To test field-to-field performance
- To test layout features
- To test new Blaise NG features including Blaise language features
- To test the selective checking mechanism
- To test file-size and performance issues across records of a Blaise dataset
- To test out the new Blaise relational database
- As a source for regression testing / automated testing methods
- To test Manipula / Manipulus modules
- To automatically enter test cases after each build.

Examples of Use So Far

- The whole test suite has been converted to Blaise 5 source code files in batch
- The Blaise 5 parser has been tested on several datamodels
 - This will also be done in batch to evaluate the parser on the whole test suite.

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Individual Testing

Various People Trying It Out

- Blaise 5 developers
- MMPSS
- Blaise NG Testers (13 institutes)
- Test datamodels
- Existing datamodels
- New Control Centre
- New interfaces
- Blaise 4 to 5 conversion
- Many other modules

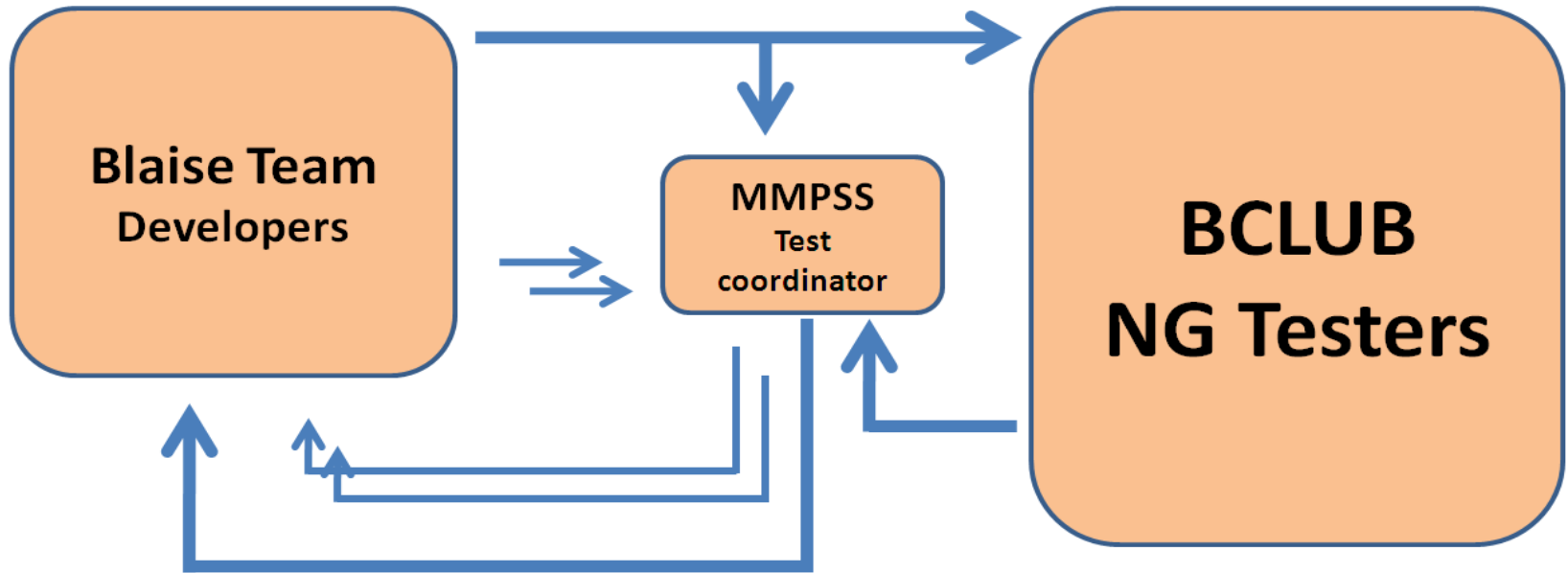


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Testing Plan: 3 Groups

Minor and Major Build Cycles



Online Task List

Action	#	Category	Assigned	Status	Priority	Due	Description
	121	Data	rfsn	OPEN	NORMAL		Build 314 Scrolling of Data Browser in Error

<http://www.onlinetasklist.com/otl/listTasks>



<http://www.bugzilla.org/>

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Testing Cycles

Just Started

- First test release January 10, 2011
- Second test release, end of February 2011

- Major releases are every 6 weeks
- Minor releases are every 2 weeks

- We have had about 60 bug reports from 5 or 6 users
- We have had a first batch of impressions

- The Blaise NG Testers also ask a lot of questions
- Some glitches, for example, install issues

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3 Groups

Blaise Team

- Set goals for each build
- Develop
- First – level testing
- Communicate goals
- Receive bug reports
- Fix bugs
- First – level retesting
- Release builds
- Support MMPSS
- Use test suite as needed
- Adopt automated testing
- Documents Blaise NG

MMPSS

- Finds and reports bugs
- Keeps big and many bugs away from the NG Testers
- Provides quick feedback
- Provides frequent feedback
- Gives opinions
- Checks Blaise NG against the Blaise NG White Paper
- Coordinates NG Testers
- Organizes the test suite
- Researches issues such as accessibility
- Summarizes information for the Blaise team
- Documents Blaise NG
- Maintains test plan
- Sets up automated testing
- Can help with requirements and specification

NG Testers

- Provide test suite
- Provide web screen needs
- Provide DEP screen displays
- Provide Modelib
- Provide resources
- Test major builds
- Communicate bugs and issues to MMPSS
- Evaluate Blaise NG against their needs
- Implement automated testing methods on their instruments
- Give feedback on documentation
- Can start to plan Blaise NG implementation

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Automated Testing

Exploring This Possibility

- With the large test suite, automated methods can play a big role
- The use of automated methods is in the assessment stages
- Assessing vendors
 - TestPartner – Westat uses this and Westat is only 2 kilometers from my house
- Don't want to over-analyze this, we need basic to mid-level capability
- Ability to coordinate 14 organizational groups

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Blaise 5 New Functionality

Blaise Next Generation

A White Paper by the

BCLUB Technical Working Group on Blaise NG

September 25, 2007

- Paper reviews 26 Blaise 4.8 modules
- Gives priorities
- Enumerates new functionality and details about implementation
- One testing task is to assess the development of Blaise 5 against the White Paper

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Blaise 5 New Features

- Unicode, can handle any language
- New database
- New platforms
- Language features
- Extended layout capabilities
- And so on and so forth

Topic
<u>S</u> cope
<u>P</u> latform
<u>M</u> etadata
<u>D</u> ata
<u>L</u> ayout
<u>C</u> ase Management System
<u>M</u> ixed Mode
Development <u>E</u> nvironment
Language Enhancements
<u>I</u> ntegration and Interoperability
<u>D</u> ocumentation
<u>M</u> igration
<u>P</u> erformance
<u>S</u> ecurity

Accessibility

Blaise NG Must Be Accessible

- Almost all countries that use Blaise have accessibility standards
- There are a growing number of people who have a disability
 - Visual, motor, hearing, seizure, and cognitive
 - Blaise 5 should be available and accessible to all

Guidelines / Standards

- WCAG 2.0 = guidelines
- Section 508 in U.S. (and adopted by a few other countries) = regulations
- There is a crosswalk between the two approaches

Research and Accessibility Test Benchmark

- SN / MMPSS / Westat and others have done a lot of research
- Test benchmark is in the process of being created by MMPSS
 - Consists of many example screens and how best they should be done
 - Corresponding web screens are being programmed
 - Ongoing effort

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Summary

Blaise 5 Testing is Underway

The Test Suite is Awesome and Has Many Uses

We Are Still Learning How Best to Implement Testing

We Are Just Getting Started

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