

# dStream IDC Data Capture Software

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# Background

- Developed and supported by DHI Computing Service
- 57 years experience in software development
- One of the 4 DRPC's in the dairy industry
- Developed in 1995-96 from software purchased from Ron Fredricks – known as “CoreData”
- First installation was in Southern Cos. DHIA Lab
- Written into windows format in early 2000 – now known as “dStream IDC”
- Presently installed in 9 DHIA Labs in California, Oregon, Washington and New Mexico

# Features

- Windows format
- Interfaces with FOSS, Bentley, and Delta Instruments
- Ability to set tolerance levels for component monitoring
- Can run check samples within the herd and that data directed to different file
- No limit to the number of samples in batches being processed

# Features

- Can separate samples over several batches when run on multiple lines of equipment
- Alerts for duplicate samples within batches
- Alerts also by color shading screen
  - Blue – Duplicates
  - Green – herd initialized in machine instrument window, but no results received after a designated period of time
- Renumber samples if necessary
- Can delete results and restart at any point

# Features

- Results are being written to a file as they are displaying on monitor
- Files can be transferred to any other computer on a network
- Detailed logs can be created for support and troubleshooting purposes

# Communication

- Serial communication
  - 9 pin serial port on computer
  - USB to Serial Cable
- FOSS – using CS83 or CS83 Simple Protocol
- Bentley – capturing data direct from serial port
- Delta – using CS83 Protocol

# Instrument Capture setup window

Bentley

Instrument: Bentley [v] CLEAR FORM CLOSE

File Information:

Machine Output Path: C:\vdStream\BatchFiles\ Extension: c

Save file in text format  
 Use String in the extension  
 Print Style1  Print Style2  
 CS83  CS83 Simple  
 Skip Sample Number Zero  Delta

Save Instrument  
Delete Instrument

Communications:

Configure Port

Begin Receive End Receive

Multiline Record Length (blank if one line): Save Frequency: 3

Set Line Length at: [ ]

Select Mnemonics

Raw Input File: CLICK HERE TO INSERT COLUMNS

Data Separated Fields: Remove Columns Find Columns

PortCtl Class Properties

Port Control Lines Misc

Port: [ ]

Baud Rate: 9600 [v]

Parity: None [v]

Data Bits: 8 [v]

Stop Bits: 1 [v]

Handshaking

Xon/Xoff: Off [v]

Rts/Cts: Off [v]

Dtr/Dsr: Off [v]

OK Cancel Apply

# dStreamIDC Options window

**dStreamIDC Options**

File Locations

Client Data Base : C:\dStream\CommonData\ Browse Network

Exported Settings Location: C:\dStream\converted\ Browse

Herd Batch Files Location: C:\dStream\BatchFiles\ Browse

Converted Files Location: Z:\SC2 Batch Files\ Browse

Scheduler View Settings

Use Batch column  
Batch column Title: string

Use BoxID column  
BoxID column Title: Box ID

Use Type column  
Type column Title: Type

Conversion Target

dStream v4 Format  
 DHILAB Style 3  
 DHILAB Style 1

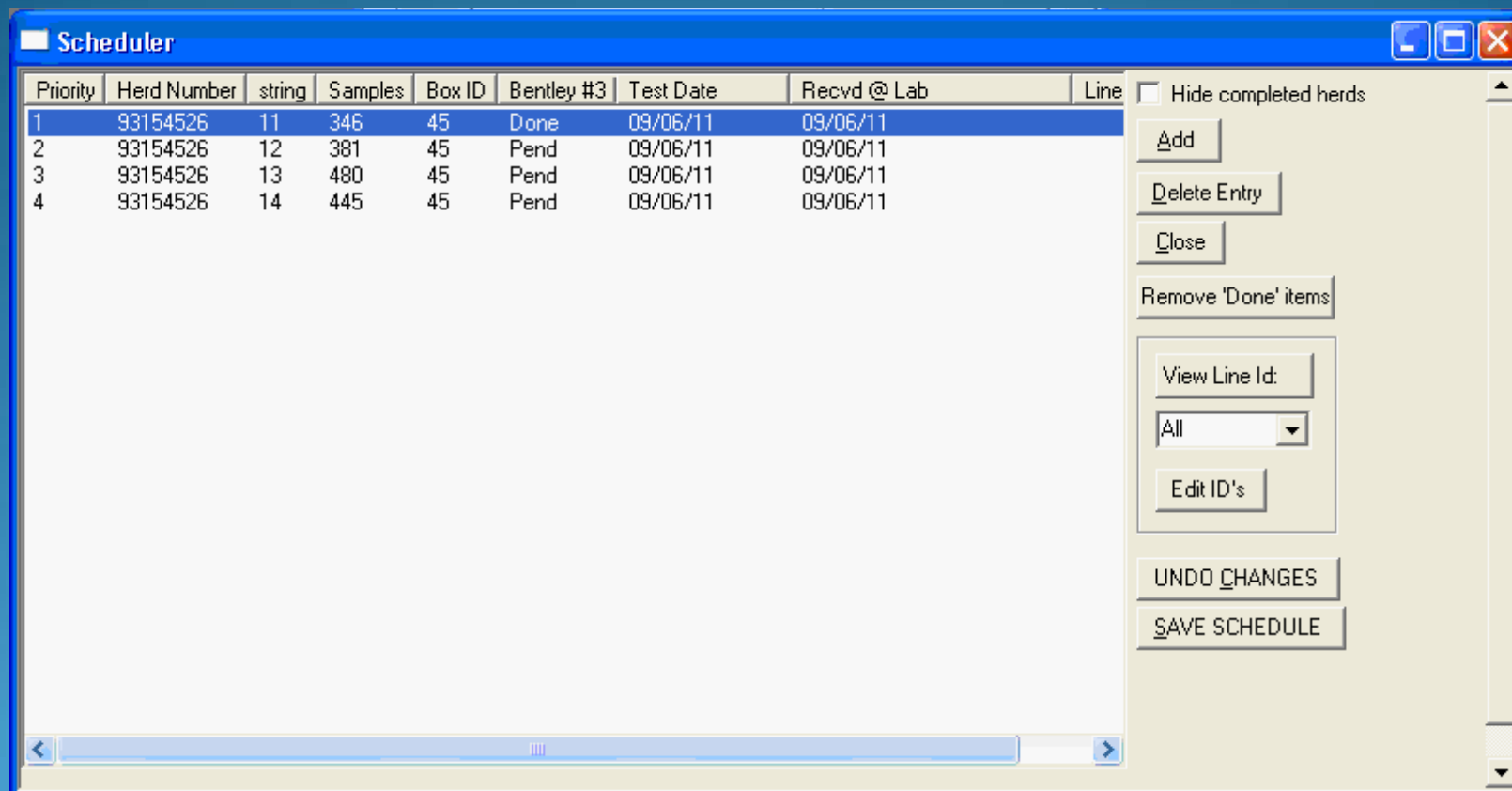
Scc change - 0's to 1's

Default Instrument List  
Reset

Bentley #3, SAVE

Cancel

# Scheduler window



The Scheduler window displays a table with the following data:

Priority	Herd Number	string	Samples	Box ID	Bentley #3	Test Date	Recvd @ Lab	Line
1	93154526	11	346	45	Done	09/06/11	09/06/11	
2	93154526	12	381	45	Pend	09/06/11	09/06/11	
3	93154526	13	480	45	Pend	09/06/11	09/06/11	
4	93154526	14	445	45	Pend	09/06/11	09/06/11	

The right-hand control panel includes the following elements:

- Hide completed herds
- Add
- Delete Entry
- Close
- Remove 'Done' items
- View Line Id:
- All (dropdown menu)
- Edit ID's
- UNDO CHANGES
- SAVE SCHEDULE

# Machine Instrument window

The screenshot shows a software window titled "Bentley" with a standard Windows-style title bar. The window contains several input fields and control buttons:

- Batch**: A text input field.
- Box Id**: A text input field.
- Pause**: A button located to the right of the input fields.
- Status**: A large, empty rectangular area, likely a status display or log.
- # of Samples Run**: A text input field containing the value "0".
- Set Start ->**: A button next to a text input field containing the value "1".
- Last Smp # Tested**: A text input field containing the value "0".
- Adjust last F7**: A button next to the "Last Smp # Tested" field.
- Accept Dup**: A button to the right of the "Adjust last F7" button.
- End At Smp #:** A text input field containing the value "0".
- Adjust end F8**: A button next to the "End At Smp #:" field.
- Tolerances F5**: A button.
- Skip to Next F3**: A button.
- Save and CLOSE BATCH F12**: A large button at the bottom of the window.

# Tolerances

**Tolerances**

Individual Tolerances  
Use Tolerance:

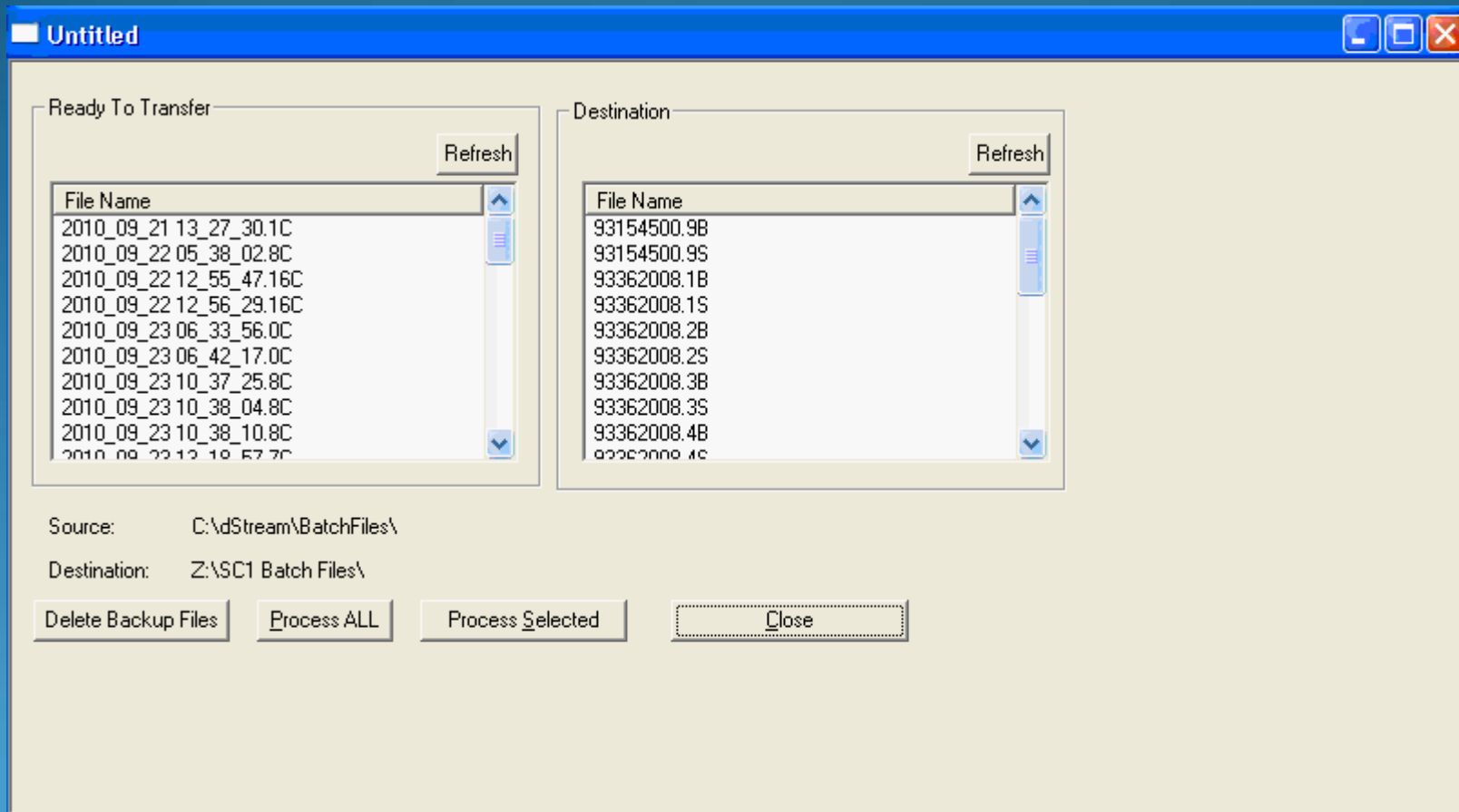
	Min	Max	Repeating Tolerances:
<input type="checkbox"/> SCC	0	0	SCC +/- 0
<input type="checkbox"/> Fat	0	0	Fat +/- 0
<input type="checkbox"/> MUN	0	0	MUN +/- 0
<input type="checkbox"/> Protein	0	0	Protein +/- 0
<input type="checkbox"/> Lactose	0	0	Lactose +/- 0
<input type="checkbox"/> ICar	0	0	ICar +/- 0
<input type="checkbox"/> Line	0	0	Line +/- 0
<input type="checkbox"/> SCar	0	0	SCar +/- 0
<input type="checkbox"/> Page	0	0	Page +/- 0
<input type="checkbox"/> SNF	0	0	SNF +/- 0

Tolerance Breaking Events  
Tolerance Break: \*  
 Tone: 2500  
Duration: 100

Repeat Events  
Repeat: ^  
 Tone: 2500  
Duration: 100

Highest Cleaner/Water Frequency: 0  
No samples timer secds: 0  
Number of similar values: (before Repeat Alert is triggered) 3

# Transfer Screen window



# Installation

- Installations can be done on-site or via an Internet connection
- Use WebEx or LogMeIn for future support and installation