Name

LASER VIEW

Version

1.0

Synopsis

laserview

Description

Laser View retrieves time series data from the ringbuffer files and plots the data either on the computer screen or on the printer.

Using Laser View, operators can plot single or multiple traces of existing data from the ringbuffers; or, by scheduling the print jobs, users can set up Laser View to periodically plot the recently recorded data. When plotting multiple ringbuffers, the traces in the same time interval are grouped in a data window. Laser View will mark with a dotted rectangle the portion of the trace in which the user set clip level is exceeded.

Installation

The Laser View Package can be included in the NAQS Server package or can be provided as a standalone software. When Laser View is included in the NAQS Server package follow the installation instructions provided with the system.

To install Laser View as a standalone package create an NMX directory on your c: drive and copy the entire content of the NMX directory from the release CD into it, strictly maintaining the directory structure.

Finally in both situations create a shortcut on the desktop to the LaserView.exe file. In the shortcut properties select as starting directory the c:\nmx\user directory.

Usage

Starting Laser View from command line

The Laser View program can be started from the shortcut or in a DOS window simply by typing in at the c:\nmx\bin prompt:

LaserView

Description of menu options

Once Laser View is started, the menu is shown up. It includes File, Print, Preview and Help.

File	
New	create a new configuration template
Open	display a dialog box for opening an existing configuration file
Save	save the current configuration in current file
Save As	save the current configuration in a user defined new file
Printer Setup	display a Windows standard printer setup dialog box
Last Opened	
Configuration	display and opens the last used configuration file
Exit	display the exit confirmation dialog box
Print	
Start Printing	print the actual job right away or print the scheduled jobs at the times
	specified by the schedule.
Print Current Pag	ge print the currently displayed page
Preview	
Start Previewing	display the traces in the Laser View window. If a default printer is connected, use its length to width ratio for display in screen,

	otherwise use the full length and width of screen for display.
Stop Previewing	exit the preview session
Page Up	back one page
Page Down	forward one page
Help	

1	
Help Topics	display online help
About	display release information

Description of the configuration file

The Laser View settings can be saved in a text format configuration file. The options of the configuration file are:

Entire ringbuffer <integer> Start time <string> Duration <string> Default clip level <integer> File name and its clip level pair(s) <string> Trace window duration <string> Height in millimeters <integer> Distance in millimeters <integer> Left margin in millimeters <integer> Title page option <integer> Scheduling option <integer> Job start time <string> Number of repeats of the actual job <integer> Repeat interval <string>

Entire ringbuffer	1: whole-file-operation: Laser View will plot all recorded data in the ringbuffer(s) regardless of the start time and duration of data;
	0: Laser View will extract the data from start time and for the duration selected by the user.
Start time of data segment	Start time of the data segment. It is invalid in whole-file-operation. Format: YYYY-MM-DD_HH:MM:SS
Duration of data segment	The duration of data segment to be plotted. It is invalid in whole-file-operation. Format: HH-MM-SS
Vertical scale(counts)	The maximum amplitude displayed or printed for a trace. If this value is exceeded, part of the trace will be plotted in a dotted square, i.e. data window, and the clip level inside this data window is set to the greatest amplitude of samples in data window and printed inside the data window. The time length of data window is automatically calculated by LaserView.
Selected ringbuffer(s)	The name of the ringbuffer with # and the clip level as suffix.
Trace duration	The duration the displayed trace. Format: HH:MM:SS
Trace height	The height of a displayed trace in millimeters.
Distance between traces	The distance between the centers of two successive traces in millimeters.
Page left margin(mm)	The left margin of traces in millimeters.
Title on a separate page	1: print title on a separate page; 0: otherwise.
Enable scheduling	1: print job(s) to be scheduled; 0: print jobs to be executed immediately.

Start time	The start time of the first print job. It is valid only when <i>scheduled=1</i> . Format:YYYY-MM-DD_HH:MM:SS
Number of repeats	Times the print job should be repeated.
Repeat Interval	Time interval between two successive jobs. After executing the first print job Laser View will wait time equal with the <i>Repeat Interval</i> and will repeat the last print job with <i>Start Time</i> $(n+1)$ = <i>Start Time</i> (n) + <i>Repeat Interval</i> .
	To print continuous data set the <i>Repeat Interval</i> = <i>Duration</i> and <i>Job Start Time</i> = <i>Start Time</i> + <i>Duration</i> . It is valid only when <i>scheduled</i> =1. Format: HH:MM:SS
The following is an example	Laser View configuration file:
0	-
1998-08-24_00:00:00	
01-00-00	
1000000	
G:\St1bbz.rbf#1000000	
00-10-00	
40	

G:\St1bbz.rbf#100000 00-10-00 40 40 20 0 0 1998-08-24_00:00:00 10 01-00-00

Files

LaserView.jar, NMX DLLs and Java Runtime Environment

See Also

NAQS

This document information

G:\Manuals & graphics\Manuals\ReferenceManual\PCSoftware\LaserView.lwp Date created: 4/29/96 Date last revised: 7/5/99