BT-1553

BusTools-1553 v.7 Analysis, Test and Simulation Software

Features

GUI Features

- Full BC, 31 RT and monitor capability
- Graphical or ASCII file setup of BC and RT simulations
- Multiple real-time data displays
- Log 100% of bus traffic on multiple channels to disk and/or memory
- Three levels of simultaneous data logging
- Selective Data Watch for multiple parameters
- ASCII file import/export of Engineering Unit (ICD) definitions
- Major/Minor frame BC simulation
- Conditional branching on message data

Hardware Features

- Available on PCI, CompactPCI, PCMCIA, PC/104, PC/104-Plus, PC/AT, VME and VXI platforms
- Unique "No Bus" UUT port available on QPCI interface
- Controls up to 8 independent buses
- 1-4 Dual redundant channels per card
- Windows XP, 2000, Me, NT, 98, 95 supported
- IRIG PAM decode DC level generator
- MMSI/EBR-1553 10 Mbit version available

New Features

- Pass 3200 file converter for importing Pass 3200 files into BusTools format
- Graphic Widgets Tool
- Message scheduling
- Dynamic Bus Monitor start/stop

BusTools-1553 is an integrated, Microsoft Windows-based, application solution for MIL-STD-1553 test, analysis and simulation. This software harnesses the power of GE Intelligent Platforms' hardware interfaces on PCI, CompactPCI, PCMCIA, PC/104, PC/104-Plus, PC/AT, VME and VXI platforms for simplified control over simulation, display, data logging, playback, and protocol analysis of MIL-STD-1553/1760 A and B networks (separate BT-1553 version available for MMSI/EBR-1553). BusTools-1553 is only available for multi-function boards.

Using an intuitive GUI interface designed for inter-activity, you can quickly monitor and analyze bus traffic, create and modify messages while running, display multiple real-time engineering unit values and user-formatted graphs. Additional features include controlling multiple buses simultaneously, injecting/detecting errors, and rapid filtering of displayed or recorded data for both live and replay modes.

Quickly select individual data words from any bus message with our unique Selective Data Watch feature. With integrated high/low limit checking, real-time engineering unit display, DDE output, automatic limit event logging, and the snapshot feature, Selective Data Watch can save hours when tracking down elusive system problems. Also available is Bus-Tools-MMSI, an integrated, Windows-based application solution for MMSI/EBR-1553.

Pass3200 Log File Compatibility

BusTools-1553 allows reading and analyzing of PASS3200 and PASS1000 log files. A file converter tool is provided in order to convert these files into a format readable by BusTools-1553 or any custom made program developed using the BusTools-1553 API (BMD file). Converted PASS files can be loaded and analyzed in any of the viewer tools available in BusTools-1553. The converted log files can also be replayed using the BusTools-1553 playback feature.

Graphics Widget Tool

The Widget Viewer tool displays real-time data using different types of aircraft instrument displays. This tool is shared with the PASS3200 application and works the same way for both analyzers.

Free Demo Software

Our BusTools-1553 demo software uses operational software on simulated hardware.

Download GE Intelligent Platforms' BusTools-1553 demo software at: www.1553.com

BusTools-1553 v.7 Analysis, Test and Simulation Software

Specifications

Flexible Real-time Data Displays
- Quickly create multiple, concurrent displays
- Data displayed in engineering units with labels
- Simplified filtering
- User-formatted charting - real-time and historical

Advanced Archive and Playback
- Log 100% of bus traffic on multiple channels to disk and/or memory
- Three different simultaneous logging features
- Pre- and post-processing filtering of data to word count
- Multi-level event triggering
- Real-time bus playback with RT edit mode
- PAT - Parallel Analysis Tool displays multiple views of archived data

System Integration Tool - Selective Data Watch
- Real-time display of individual data words from any network message
- Designed for interactive use
- Quick selection of up to 64 data words with no programming
- Upper and lower limit checking with notification
- Out-of-limit log file with snapshot feature

Bus Analysis
- Analyze 1553 bus protocol activity
- At-a-glance Bus Activity Screen
- Detailed display of message status, errors, data
- Inject/detect errors at the message and word levels
- IRIG/GPS synchronization capability. IRIG B decode optional
- Graphical "Topology" representation and icon controls for customized bus schematic layouts, ease of use, and trouble-shooting of cable/transformer connections

Network Simulation
- Simulate all or part of a network
- Modify simulated data while running through Microsoft Windows DLL
- Intuitive, interactive operation
- Major/Minor frame Bus Controller architecture
- Graphical, icon-based GUI programming
- Conditional BC branching
- Simple ASCII file formats for BC, RT and EU (ICD) definitions. Full ASCII conversions for archived data allows easy export to spreadsheet applications.
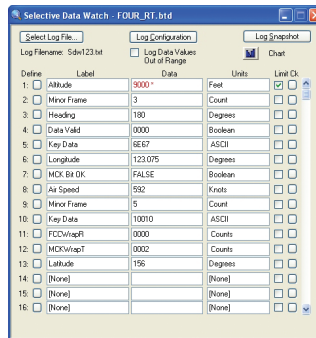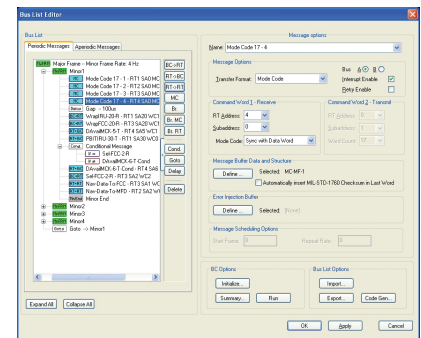
BT-1553
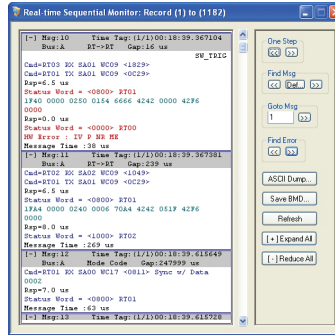
Real-time data in engineering units
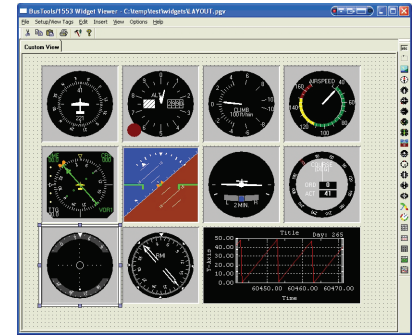
The Widget Viewer tool displays real-time data using different types of aircraft instrument displays

Selective data watch quickly provides display, limit checking, logging and output of individual data words

One Page Bus List Editor offers a new way of designing Bus Lists. Bus List content is displayed in a tree control form making it easy to modify or expand the Bus List.

Ordering Information

BT-1553

MIL-STD-1553 GUI Bus Analysis, Simulation and Data Logging software (BusTools/1553) for Windows XP/2000/Me/NT/98/95

About GE Intelligent Platforms

GE Intelligent Platforms, a General Electric Company (NYSE: GE), is an experienced high-performance technology company and a global provider of hardware, software, services, and expertise in automation and embedded computing. We offer a unique foundation of agile, advanced and ultra-reliable technology that provides customers a sustainable advantage in the industries they serve, including energy, water, consumer packaged goods, government and defense, and telecommunications. GE Intelligent Platforms is a worldwide company headquartered in Charlottesville, VA and is part of GE Home and Business Solutions. For more information, visit www.ge-ip.com.

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