

FASTress™

Know before you grow!

Determine overall system capacity and identify bottlenecks—so you don't experience them in production. Avoid the risk associated with increased transaction volumes. Verify the impact to your processing capacity resulting from adding ATMs or POS devices to your network, interfacing with additional switches, or making other changes to your environment. Test communications bandwidth and device handling.

Thoroughly test your system's ability to drive more terminals and process more transactions per second. Connect FASTress test schemes and conduct load or stress testing without using ATMs or POS terminals, and without the restrictions of your switch's test schedule. FASTress load or stress tests your system with concurrent transactions spread over your device drivers and account files. Emulate hundreds of devices (including any combination of ATMs and POS devices) and switch issuers or acquirers. Simulate any combination of magnetic stripe or chip (EMV) cards. Test using your existing transaction set and cardholder information, or let FASTress create account numbers dynamically—even randomly.

Use life-like simulation that doesn't steal processing cycles from your system. FASTress test schemes are very realistic. ATM test schemes act like ATMs. Card data is encrypted during testing. And because FASTress is not installed on your host platform, test results are not skewed by FASTress's processing activity.

Exercise real-time control over your testing—increasing or decreasing transaction volume, or change the number of active devices—*while the test is running*. View the effects of your changes immediately in a consolidated system view. After the test concludes, select a time period and view result statistics such as the transactions per second (TPS) rate, numbers of transactions, system response times, and so forth. FASTress even supplies raw test data for use with your preferred data-mining tool.

FASTress provides:

- **Dynamic, real-time control of your testing** with automated load and stress testing that offers the ability to dynamically change the number of active devices as the test is in progress.
- **Thorough load and stress testing of all device handlers and more** by emulating a mixture of ATM types, different POS devices, and a variety of switches.
- **Your choice of cardholder, transaction, and device test data.** Import transactions with your choice of PANs, PINs, or MICR data, etc. Or expand your tests with card and terminal data generated by FASTress.
- **Independence from your system platform** (IBM Mainframe, Tandem, AS/400, RISC 600, etc.) with no effect on test system processing cycles.
- **Unmatched accuracy of testing.** FASTress faithfully emulates each device and interface in your network.
- **Test results you can walk away with.** View real-time, system-wide test results immediately. After testing, display result statistics or analyze "raw data" from FASTress with your favorite tools.

Emulates a variety of entities

- Emulates ATMs (such as NCR, Diebold, and others) and POS terminals using specific message formats (such as SPDH, BIC, and others)
- Emulates switches (such as MasterCard, VISA, STAR, and others)
- Expands as required to support other types of formats (such as IFX clients or servers, and others)
- Delivers detailed simulation. For example, an ATM test scheme can be dynamically configured to send a Power Fail message, accept a download, and respond to an Open command, just as a real ATM would.

Provides realistic, comprehensive stress testing

- Simultaneously simulates a huge terminal network population and additional switches.
- Offers the option of sending multiple transactions at once (as a switch or POS concentrator does); or sending a single transaction and waiting for a response (as ATMs do). Typically, FASTress can originate more TPS than traditional device-oriented SNA communications.
- Displays real-time, system-wide test results immediately. After testing, displays result statistics. Additionally, you can analyze “raw data” from FASTress with your favorite tools.
- Illustrates the responsiveness of your applications during your test, helping you pinpoint processing bottlenecks and resource constraints.
- Provides a real-time view of the processing capacity of your test application. Proves conclusively that a problem has been corrected without affecting transaction throughput.

Easy to use

- Offers the familiar “look and feel” of other Windows applications.
- Provides an all-inclusive load or stress testing platform, which includes both FASTress and the resources to ensure testing is accurate and efficient.

Technical Information

- **Generating test files:** Record the transactions you want to use during your testing and send them to Paragon. Paragon imports these files into FASTress’s internal XML format and delivers the application, with your specified test files, to you.

Prerequisites:

Java Runtime Environment (JRE) Version 1.5 (or 5.0) and Compatible OS platform to run JRE software and use GUI packages (i.e., Windows 2000/XP/2003/Vista/Windows 7); 1 GHz processor (minimum); 50 MB hard drive disk space (minimum) with extra space required for virtual memory or drive swapping; 510 MB DDR RAM (minimum); Appropriate communication with the terminal-driving host computer.

Note: Paragon solutions are designed for installation on English-language versions of these operating systems only. Installation on non-English versions is not supported.

About Paragon Application Systems, Inc.

Since 1994, Paragon has provided software testing solutions to simulate and test virtually any point in the transaction processing stream. Our high rate of repeat business reflects our expertise and commitment to customer service. We invite you to join the ranks of our satisfied customers.