

ARGON BLASTER

FLOW SIMULATOR AND TRAFFIC GENERATOR

Blaster is a high-performance testing and simulation solution for generating realistic, Internet-scale traffic loads and application mixes. Blaster can saturate a 10 Gbps link while emulating up to a million unique flows with accurate, consistent, per-flow rate control.

Blaster by Argon provides a simple-to-use application for custom flow and packet generation. Blaster is designed to run on standard PCIe card designs based on Netronome's Flow Processors.

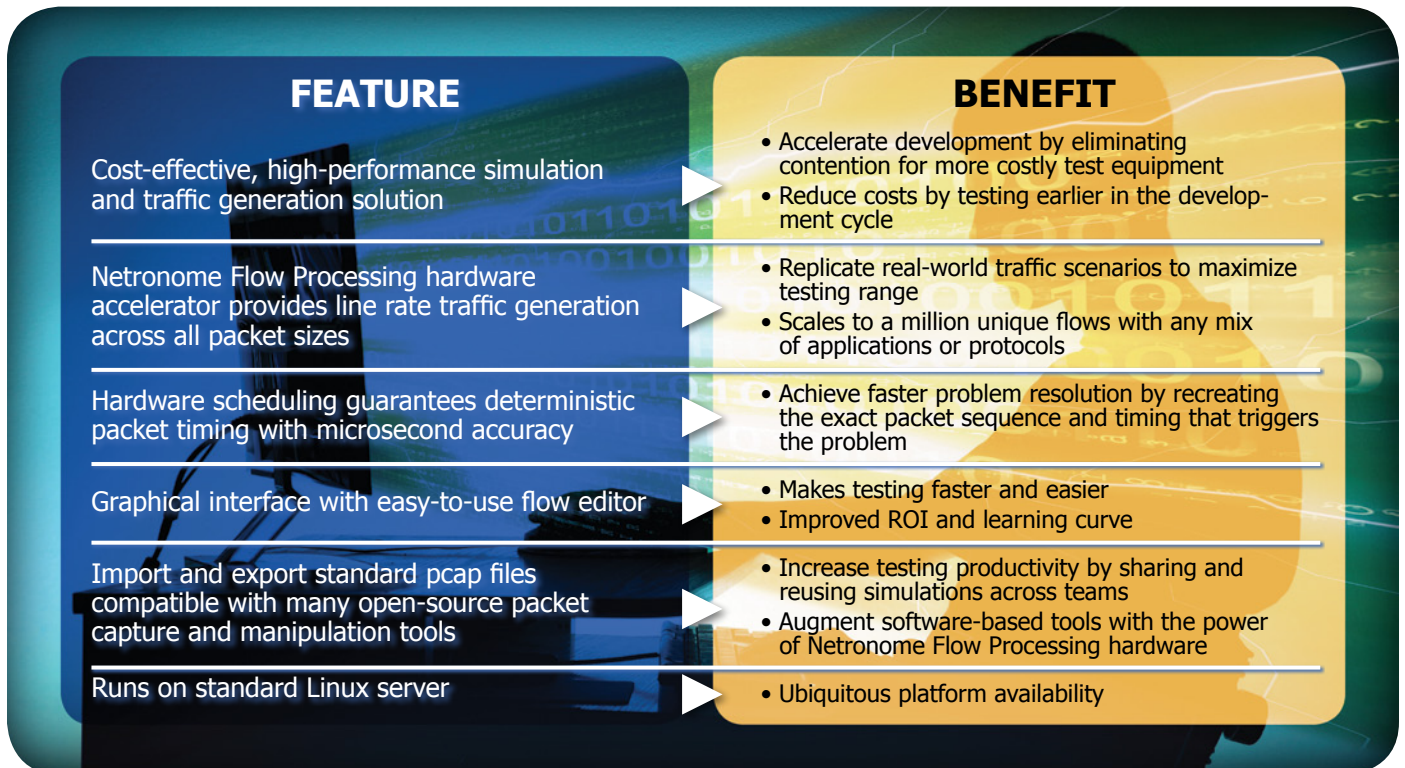
Blaster uses a simple but powerful underlying model. Network traffic is built from a set of prototypes. Each prototype is specified in a pcap file and represents one flow. Blaster synthesizes, in real-time, hundreds of thousands of simultaneous flows from each prototype to create a flow-group. The flows can be automatically generated to have different MAC addresses and, for IPV4 packets, different IP addresses and port numbers. The traffic for a flow-group can be controlled to match any desired profile of flow/s or data rate. Multiple flow-groups are output in parallel to make the complete blast.

The diversity of flows that can be created and the control of the traffic profile allows a realistic assortment of traffic to be constructed to match any real-world usage scenario with any blend of background, application and security attack traffic. Blasts are deterministic. Packets are always output in the same order, and with the same timing, each time a blast is performed.

A pcap flow prototype file can represent a one-way data flow or a two-way communication. There are two 10 Gbps ports and data can be output either to a specific port or to different ports dependent on communication direction.

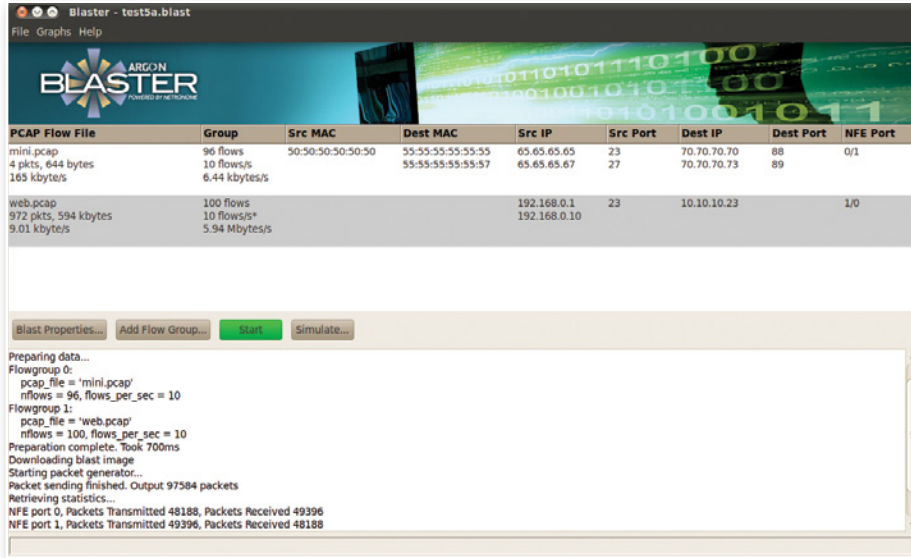


Programmable 2x10 Gbps packet generation at a fraction of the price of traditional testing equipment



Easy-to-use Interface

Blaster provides an intuitive GUI that allows blasts to be designed and run. The blast definition can be saved to a ".blast" file for use in future sessions. A ".blast" file is an XML text file that references the pcap prototype files and defines the blast behavior.



Configurations

Blaster can transmit from either or both ports to test inline and passive applications. Blaster's ports also have a receive capability so they can be used for testing in-line equipment. Received packets are not captured in full, but a timestamp and signature is recorded for each packet received, which can be matched against the packets transmitted to confirm packets were not dropped or to measure latency.

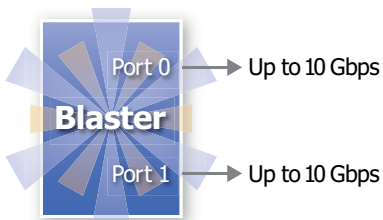


Figure 1a

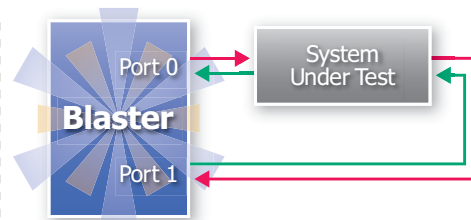


Figure 1b

Ordering Information

Part Number	Description
NFE-BLAST-2-10-001	2x10GE Blaster
NFE-BLAST-6-1-001	6x1GE Blaster

ARGON DESIGN
www.argondesign.com



www.argonblaster.com

NETRONOME
www.netronome.com

System Requirements

Blaster can be installed in any modern PC running Linux. It installs as a KVM virtual machine and can be operated from within the virtual machine or externally. Detailed requirements are:

- 32 or 64-bit PC running Linux with KVM (Red Hat, CentOS and Ubuntu)
- CPU must support IO MMU virtualisation (AMD-Vi or Intel VT-d)
- 75W PCIe full-length slot (x8 or greater)
- 4GB free disk space

Product Contents

- Neutronome NFE-3240
- Short-reach pluggable optics
- Fibre-optic loopback cable for self-test

Support

Blaster includes 12 months warranty and customer support. The Argon Blaster support site allows the latest software and documentation to be downloaded, includes a community forum and provides ticket-based customer support.

At the end of 12 months, ongoing support and release updates can be purchased on an annual basis.

How to Purchase Blaster

Blaster can be purchased directly from Neutronome by contacting sales@netronome.com.