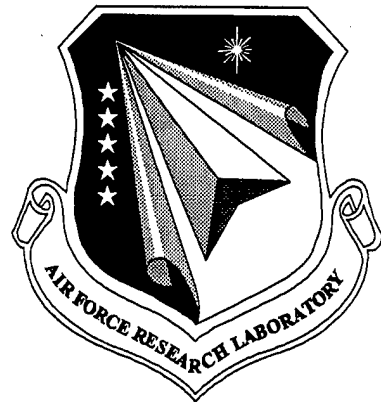


AFRL-VA-WP-TR-1998-3013

**Network Evaluation for Training and
Simulation**

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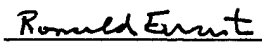
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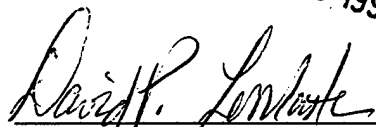
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13. ABSTRACT (Maximum 200 words) Advancements in networking hardware & software have increased the numbers of training and research simulators being used in networked environments. Various technical issues and problems involved with networking simulations exist, one of the most notable being latency. The Training Systems Product Group (ASC/YWE) of the Aeronautical Systems Center commissioned a study into some of these networking issues. This study was conducted by the Contro Integration and Assessment Branch (AFRL/VACD), of Air Force Research Laboratory. The purpose of this study was to analyze different simulation network configurations to determine an optimized architecture for training purposes. This program was aimed at Unit Training Device (UTD) applications with low numbers of entities and sites. The basic training architecture of two LANs with a few local nodes connected together by a WAN was assumed. The ideal network configuration would minimize LAN/WAN latencies while maintaining simulation data accuracy. Analysis on both the local and entire network configurations was performed relative to effects of network loading. Issues such as bandwidth, latency, accuracy, thresholds and delay compensation were investigated. Distributed Interactive Simulatin (DIS) and DIS-Lite protocols were used. DIS-Lite, developed under a SBIR contract with MaK Technologies is a low-bandwidth protocol for networked high-fidelity flight simulations.				
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1. Introduction

1.1 Program Background

The Network Evaluation for Training Systems (NETS) program, funded by the Training Systems Product Group (TSPG), studied optimization techniques for simulator networks with Unit Training Device (UTD) applications. It is a follow-on to the TSPG-sponsored A-10 Field-of-View and Networking Study, which focused on the A-10 UTD visual system, but also made observations on networking issues via a 1v1 network emulated at AFRL/VACS. The NETS study researched most of those networking issues in more depth.

1.2 Program Objectives

The NETS program was designed to study networking issues with two 4-ship UTD Local Area Networks (LANs) connected via a Wide Area Network (WAN). Both the LANs and the WAN were analyzed, including such issues as bandwidth, throughput, network loading, Network Interface Unit (NIU) performance, latency, Dead Reckoning threshold, and truth data comparisons. These networking issues were studied using three different UTD network architectures and two different simulation network protocols. The three architectures analyzed included an overall Ethernet connection (all nodes talk to all nodes), an Ethernet connection with gateways (used to filter packets), and an Ethernet connection with gateways to SCRAMNet subnetwork. The two protocols were Distributed Interactive Simulation 2.0.4 (DIS 2.0.4) and DIS-Lite. DIS 2.0.4 is the industry standard for communication between networked simulations. DIS-Lite is a more efficient protocol that doesn't sacrifice performance. It was developed by MaK Technologies under a Small Business Innovative Research (SBIR) contract.

1.3 Report Organization

This report documents the UTD networking study performed at the Air Force Research Laboratory Air Vehicles Directorate's Air Vehicle Simulation Branch (AFRL/VACS). Section 2 discusses background network analysis information. Section 3 documents the NETS networking experiments. Section 4 lists acronyms and Section 5 lists references.

2. Network Analysis

2.1 Networking Background

Throughout the network analysis section, several terms have very specific meanings which are frequently confused. The term "distributed interactive simulation" (not capitalized) refers to the interconnection of remote simulators through networking to allow each simulator to participate in a common, larger simulation. This participation allows for the training of participants or solving of problems in an environment the individual simulators alone could not provide. "Distributed Interactive Simulation (DIS)" (capitalized) refers to the Institute of Electrical and Electronics Engineers (IEEE) 1278 series specification for a distributed interactive simulation protocol. It should be noted the IEEE 1278 series protocol is but one way to perform distributed interactive simulations – several locations have developed other viable solutions. IEEE 1278 is by far the most prevalent protocol due to its IEEE open standard status. However, during the course of this study, the Department of Defense (DoD) mandated that all DoD simulations use a new type of simulation network architecture/communications method called High Level Architecture (HLA). Unless a waiver is approved, non-HLA simulation programs cannot be funded after October 1, 1998 ('No Pay') and cannot participate in defense testing and/or exercises ('No Play') after October 1, 2000.

Until HLA has been implemented, DIS is still the most usable standard. The current version of the IEEE DIS standard (as of this writing) is Version 2, Draft 5, also known as DIS 2.0.5 - first used publicly at the 18th Interservice/Industry Training Systems and Education Conference (I/ITSEC) held December 2-5 1996 in Orlando, Florida. DIS 2.0.5 is simply the IEEE-approved version of DIS 2.0.4, although there are a few minor differences. DIS 2.0.5 was released during the later portion of this program and was therefore not used (DIS 2.0.4 was used instead). In the past, new drafts of the DIS protocol were periodically generated, with the IEEE DIS Committee reviewing them for official IEEE approval. The IEEE DIS Committee met on a semi-annual basis (March and September) to discuss proposed changes to the standard. Due to the introduction of HLA, there will only be one more version of DIS (DIS 2.1.4).

The DIS protocol specifies the data fields for IEEE 802.3 (Ethernet) packets known as Protocol Data Units (PDUs). PDUs are transmitted over the network using User Datagram Protocol/Internet Protocol (UDP/IP). This is shown in Figure 3.1.

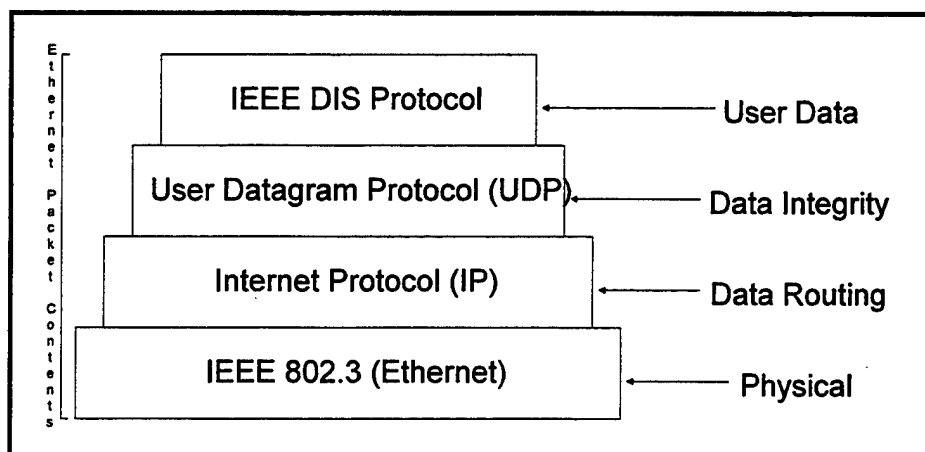


Figure 1 - PDU Construction

PDU's come in many different types; each type is designed to communicate a specific piece of simulation information to other simulation sites. The most common PDU type, the Entity State PDU, is designed to convey the locally simulated "entity's" (combatant) "state" (location, velocity, acceleration, roll, pitch, yaw, etc.) information to other (interested) simulators. Other PDU types announce a weapon firing, a weapon detonation, entity collision(s), radio transmissions, radar and other electromagnetic emissions, simulation control (start, stop, freeze, and resume), and logistics. Whenever a simulation has such information to send to other simulation sites, it processes the information, formats it into the PDU format, and sends the PDU out over the network to the other simulation sites.

PDU's are typically broadcast over the network. That is, the information is not destined for a single simulation site, but rather it is sent to every simulation site on the network. It is up to the local site to filter out, or ignore, the PDU's it is not interested in. For example, an Army tank simulation might filter out Navy ship simulation PDU's, as the tank simulation does not require ship simulation information to function properly (unless the Army tank is near the Navy ship).

Filtering network traffic is a critical process. Physically, computer systems have limited memory and processing capability. While memory space continues to increase and processing capabilities grow, a large network simulation (like Warbreaker or the Synthetic Theater of War exercises), containing thousands of entities generating many thousands of PDU's during the course of the simulation, could easily overwhelm a simulation computer with information. Filtering reduces the simulation computer processing workload so it may concentrate on performing its own simulation rather than processing the network traffic. Often, a separate computer is used to access the main network - even in this case, it is wise to filter out unimportant entities.

Similarly, a process known as "dead reckoning" is a crucial part of the DIS protocol suite. Protocols before DIS had no dead reckoning. Each entity was required to continuously transmit its state information to the other simulation sites, resulting in flooded networks choked with stale information. DIS uses dead reckoning to reduce the information transferred between sites. Each individual site maintains a "copy" of both its own and the remote simulation entities. Based on past knowledge, the local simulation site predicts (extrapolates) the current and future states of the entities (dead reckons), and unless new information is given, the local simulation assumes the entities are where their dead reckoned positions places them. The dead reckoning algorithm utilizes a user set threshold for angular and positional errors. If the dead reckoning threshold is not exceeded, the aircraft state is typically updated at a 5 second time interval (often called a "heartbeat"). This process, while greatly reducing the amount of network traffic, causes severe problems with endgame situations. Often, weapons run on the local simulation computer will claim a hit based on the dead-reckoned network entity. However, the target aircraft might have escaped the weapon's attack by performing some maneuver that the dead-reckoning wouldn't account for, leading to a "I-hit-you-no-you-didn't" issue with negative training implications.

2.2 Current State-of-the-Art in Distributive Interactive Simulation

DIS 2.0.5 specifies several PDU's, which range in size from 64 bytes to approximately 1500 bytes. In a network simulation, it is generally known that the most common PDU is the Entity State PDU, followed by Fire and Detonation PDU's. Other often used PDU's include Collision, Signal, Transmission, and simulation control PDU's (Start, Stop, etc.). The Emissions PDU, although not often used, could very quickly flood the network due to its voluminous RADAR information. Thus, the Emissions PDU, when used, is often more numerous than the Entity State PDU.

In general, the system works well. In fact, several large simulation exercises (I/ITSEC, Synthetic Theater of War [STOW], Synthetic Theater of War in Europe [STOW-E], Warbreaker) have been performed using various versions of DIS. For the most part, these exercises had little problem with network communications, and the goals of the exercises, from a connectivity standpoint, were met.

However, there are problems with the current DIS specification. For example, PDU design is a critical issue. A PDU containing too much, redundant, or unnecessary information wastes valuable network bandwidth. Incomplete PDU design requires individual simulation sites to interpret the specification, leading to possible incompatibilities. For highly dynamic vehicles such as fighter aircraft, the two most valuable PDUs are the Entity State and (electromagnetic) Emissions PDUs. For these PDUs, the Entity State PDU is over specified (too much redundant information) and the Emission PDU is under specified (it contains incomplete or "To Be Determined [TBD]" PDU fields). Fighter aircraft in constant motion generate tremendous numbers of Entity State PDUs. This leads to the problem of a significant portion of the network bandwidth being consumed by redundant Entity State PDU information. In past simulations, Entity State PDUs have choked networks because of their large size (up to 1400 bytes) and transmission frequency. This led to the development of the Dead Reckoning Algorithms explained earlier, which helps to alleviate the bandwidth problems by allowing only data that exceeds a certain value to be sent. Another problem is caused by fighter aircraft relying heavily on their electromagnetic sensors, such as radar and Electronic Counter Measures (ECM). But the Emissions PDU is under specified, so few network simulations have exploited the Emissions PDU. Fighter aircraft have been left blind and defenseless unless the simulation sites specifically modified their simulations to account for broadcast emissions and radar signatures.

Vendors providing DIS 2.0.5 compliant network interfaces are continually updating their products to improve their performance and accept new DIS protocol changes. In the near future, many of the problems seen in the current state-of-the-art might be corrected, hopefully allowing network simulation to provide the complete functionality for which it was envisioned.

2.2.1 MäK Technology's VR-Link

NETS used VR-Link to produce the DIS packets. The VR-Link software package from MäK Technology is the most commonly used DIS protocol package. VR-Link consists of DIS protocol interface routines written in the C++ programming language. The software was designed to run on numerous platforms using either the computer's default or other installed Ethernet ports.

Using VR-Link has several advantages. First, it is a software-only solution written in an object-oriented language. Modifications to the internal VR-Link code have no effect on the external simulation programming, unless VR-Link functions are completely removed. Second, VR-Link is inexpensive, currently running approximately \$2000 per copy. Finally, MäK Technology is continuously updating their software to make sure it is fully compliant with the latest DIS protocol specification.

VR-Link does have a few disadvantages. Most notably, VR-Link is merely a set of libraries. There is no Graphical User Interface (GUI) and no easy way to integrate VR-Link into a local simulation except through some detailed programming.

Despite this, VR-Link is a very versatile product and is currently being expanded to become HLA-compliant - allowing backwards compatibility for simulations currently using DIS and VR-Link.

2.3 Possible Network Limitations

Currently, distributed interactive simulations have limitations. Like any tool, distributed interactive simulation has tasks for which it is most useful and tasks it cannot perform well or at all. The list provided here is not an exhaustive list of problems with distributed interactive simulation. The problems discussed here are related specifically to air vehicle simulations and could be considered the more critical problems to be addressed by the distributed interactive simulation community.

2.3.1 Highly-Dynamic Vehicles

Highly-dynamic vehicles change state rapidly and often, thus generating many Entity State PDUs (note that any change in direction, velocity, or acceleration forces the creation of an Entity State PDU to update the dead reckoned models over the network). Since PDUs are Ethernet packets, and since there is a tremendous number of them, the probability of Ethernet packet collisions increases and the network becomes "flooded." In addition, since the information transmitted between simulation sites incurs a time delay (latency), the usefulness of the information contained in a given PDU may be questionable due to its age and quite often may be useless. Following is a description of the problems associated with Ethernet collisions, transmission latencies and latency effects.

2.3.1.1 Ethernet packet collisions

The IEEE 802.3 (Ethernet) standard is a 10 Mb/sec network media operating with Carrier-Sense Multiple Access/Collision Detection (CSMA/CD). CSMA/CD simply stated means a "talker" on the network first determines if the network is free of traffic. If no other talker is transmitting, the message is sent over the network to whomever is "listening." However, if two (or more) talkers attempt to talk at the same time, there is a "collision" and each talker stops talking and waits a random amount of time before retransmitting its message.

Because of this, a normally loaded Ethernet network with a theoretical bandwidth of 10 MB/sec rarely achieves an actual bandwidth larger than 4 MB/sec due to increased collisions at higher bandwidth usage. Heavily loaded Ethernet networks degrade logarithmically. This is due to the sheer number of collisions and the random time-out period. The network simply has too many talkers generating far too many collisions.

2.3.1.2 Transmission Latencies

Transmission latencies in this paper are those time delays resulting from the transmission of data between two or more simulation sights. Information when transmitted takes a certain amount of time to arrive at its destination, due, in part, to the physical limitation imposed by the speed of light. Theoretically, information traveling at the speed of light (186,000 miles/second in free space [vacuum]) would take 13.4 ms to travel to Los Angeles, CA from Dayton, Ohio (approximately 2500 miles). Practically, the theoretical limits are never met (due to network hardware, buffering, routing, etc.), and the information takes even longer to get to its destination.

Additionally, Ethernet transmits information at a theoretical 10 Mb/sec data rate. However, since most simulation sites performing a distributed interactive simulation are remotely located, commercial telephone data-grade T-1 lines (1.544 Mb/sec) are typically used. Due to telephone signaling and data integrity algorithms (error detection and correction), the effective bandwidth of the T-1 line is closer to 1.0 Mb/sec, which is one-tenth the bandwidth of Ethernet. A device called an Ethernet Bridge must be installed to queue (store) outgoing Ethernet packets, as the T-1 line cannot handle the full Ethernet bandwidth. Queuing incurs further latency. Packet

switching and data bundling, both of which are common network communications methods, also incur some amount of latency as packets are stored and forwarded.

2.3.1.3 Effect of Latency

If the transmission latencies are on the order of the simulation event timelines, the information is (most likely) useless when it arrives. For example, should an F-15E acquire a surface-to-air missile (SAM) site, the SAM would normally activate its radar jamming equipment. From the time the F-15E activates its radar to the time the SAM begins jamming that radar could be as little as 20 - 50 μ s. Networking a simulation such as this could be futile if the network delays approach 50ms, as the simulation computers have no time to receive the PDU, interpret the PDU data, inject the data into the simulation and process the simulation model's response. Pilot perception is a key point here - if the latencies cause the pilot to perceive an unrealistic event to occur, then the simulation is useless, or even worse, promotes negative training. Also, these latencies - or over compensating to provide untrue latencies within a normal weapons system could create a misleading effect of some new networked weapons system technology.

2.3.2 Weapons Flyout

A special class of highly-dynamic vehicles would certainly include missiles and air weapons. Their tremendous speed with respect to other simulation entities poses several problems for the simulation hosts on the network. First, these weapons advance tremendous distances during the network latency time periods, making them difficult to dead reckon. Second, they are using dead reckoned positional information for their arming and detonation sequence calculations (remember, dead reckoned information is by nature inaccurate). Finally, the missile "end-game" is on the order of the network latency time periods (milliseconds or less), so the missile models frequently return erroneous calculations and miss their intended target, when they should have scored a "kill." These problems result in frequent "missile lock" errors and misses during an air engagement.

One possible solution to this problem would be to run the specific missile or air weapon on the same simulation computer as the vehicle being targeted. This would allow for synchronous operation of the weapon and target, resulting in more accurate results. A problem associated with this is the need to transfer the weapon model to all other facilities playing on the network. This can lead to problems when using other-than-unclassified weapons, as well as integration problems if there are numerous sites participating in the exercise. Another possible solution would be to use a weapons server. A weapons server, which could be one or many computers on the network, would hold all models for all usable weapons during the exercise. When a weapon is used, a command is sent to the server from the initiating entity. The server would then run the weapon, or optionally, send the model to the target site for localized running. While NETS did not address these issues, they would logically be follow-on work candidates.

2.3.3 Emissions

Air combat relies heavily on sensors and emissions. Emissions include targeting radar, weather radar, infrared sensors, some data communications, and ECM. The difficulty in modeling electromagnetic spectra adequately is reflected in the IEEE DIS specification, which leaves many data fields in the Emissions PDU blank or user-definable. For specific large simulations, simulation directors have specified, *for their simulation*, the data fields in the Emissions PDU. However, there is no clear, generally-used definition for many of the critical Emissions PDU data fields, so the Emissions PDU is typically ignored. This seriously hampers the pilot's ability to perform his mission, as the tools he heavily relies upon are not there for him to use in the

simulation. The simulation loses credibility and most, if not all, training value is lost. In addition to lost training value, simulations with inaccurate emissions could lead to increased cost and schedule risk for networked research and development systems acquisitions.

The networking simulation community is well aware of this limitation, and the ongoing work to improve the specification is progressing. However, as of the date of this report, no Emissions PDU specification has been issued. Note, once the Emissions PDU specification has been adequately developed, all simulation sites requiring its use will need to upgrade their DIS interface and simulation interface processes to use the PDU correctly.

2.4 Future

The future of distributed interactive simulation is a bit murky at the moment. While there were problems with DIS, some meaningful simulations were accomplished. Since HLA will be replacing the DIS protocol, most simulation sites will be taking time to understand HLA and change from DIS to HLA. The next few years will be rather turbulent as simulation sites make these conversion decisions and implementations. HLA and DIS++ (the future versions of DIS) are explained in Appendix A.

2.4.1 More Efficient DIS-Based Protocols

One method to reduce the network bandwidth required to perform a distributed interactive simulation is to design the most efficient network protocol possible. An efficient network protocol would not contain redundant information in each PDU, nor would it contain information not germane to the simulation or PDU information content. Unfortunately, the current DIS specification has data redundancies, and the prime example is the most commonly-used PDU, the Entity State PDU.

Several design teams have been studying the Entity State PDU to improve its design and efficiency by removing unnecessary information and transmitting static information only once. Currently, M&K Technology has proposed breaking the single Entity State PDU into two new PDUs, the Query Response PDU and the Kinematic PDU. The Query Response PDU will be issued in response to a query from a remote simulation site. This PDU contains the formerly-redundant (static) information in the Entity State PDU. The Kinematic PDU contains the true simulation state information. Essentially, the Kinematic PDU is the Entity State PDU with the redundant information removed. This protocol is called DIS-Lite, and papers about it were published at the 13th & 14th DIS Conferences.

The status of these more-efficient protocols remains in considerable doubt. With most organizations switching to HLA, current research into these more-efficient DIS-based protocols may cease.

2.5 Simulator Network Analysis Project (SNAP)

To precisely determine where latency exists in networked simulations, a simulation network analysis tool is required. In 1993, the Air Force Research Laboratory Air Vehicles Directorate's Air Vehicle Simulation Branch (AFRL/VACS) [then called the Wright Laboratory Flight Dynamics Directorate's Control Integration and Assessment Branch (WL/FIGD)], located at Wright-Patterson Air Force Base (WPAFB), Ohio, began the development of this analysis tool. The program was called the Simulation Network Analysis Project (SNAP) and was funded by the Training Systems Program Office (SPO) which is part of Aeronautical Systems Center (ASC), also at WPAFB.

The resulting analysis tool, the SNAP computer, can dynamically measure latencies and simulation accuracies between vital points (stick input, state variables, visual displays, and the Network Interface Unit - or any other points of interest) in a stand-alone simulator and/or between networked simulators.

2.5.1 Capabilities and Description of SNAP

SNAP grew out of a need to determine the ability of current DIS networks to handle the high fidelity networked simulations required by the Air Force. This project focused on the time delays and simulation accuracies associated with networked simulations of highly dynamic vehicles over long distances (or "long-haul simulations").

There are several time delay issues that SNAP addresses. Total end-to-end network delays are important to know (to remain under the 100ms rule of thumb), but latency values at certain subsections within the overall network are equally as important. Other latency issues include time correlation of cues, and how a pilot in one simulator perceives aircraft actions of a second simulator. To determine the time delays associated with the network for these types of issues, a portable timing analysis unit (SNAP) was developed. In addition, an Electronic Visual Display Attitude Sensor (EVDAS) and interface was developed to enable SNAP to measure when the pilot's visual display received updates. These two units together with the associated software make up the SNAP system (Figure 2).

One SNAP computer can operate alone to determine several performance factors of a single simulator; such as stick input to out-the-window (OTW) video delay, stick-to-instrument delay, stick-to-state variable update delay, stick-to-PDU transmission delay, PDU reception to state variable update delay, and PDU reception to OTW video delay. Also, multiple SNAP computers can evaluate the performance of a networked simulation by connecting to simulators in geographically separate locations and monitoring the end-to-end delay. SNAP can also monitor a network and give statistics on network traffic; from generic Ethernet packets to particular PDU types. SNAP is capable of driving the simulator input signals, allowing the SNAP operator to have repeatable test results. SNAP's measurements between simulators located anywhere in the world are accurate within 500 microseconds.

To accurately obtain data from a simulator, SNAP is capable of operating synchronously (i.e. sample data consistently at the same time slice within the frame) with a simulator in two different ways. The first is to synchronize SNAP's sampling time with the simulation computer's frame time. The second method is for SNAP to synchronize with the refresh rate of the video display system connected to EVDAS. SNAP is also capable of sampling at a user-specified frequency that is independent from the simulator, although this is usually undesirable (but occasionally useful when obtaining the interrupt from the simulator is too difficult). SNAP can be configured to collect data using any combination of sampling methods previously mentioned, but wherever practical, SNAP should be used in synchronous mode to avoid asynchronous sampling problems.

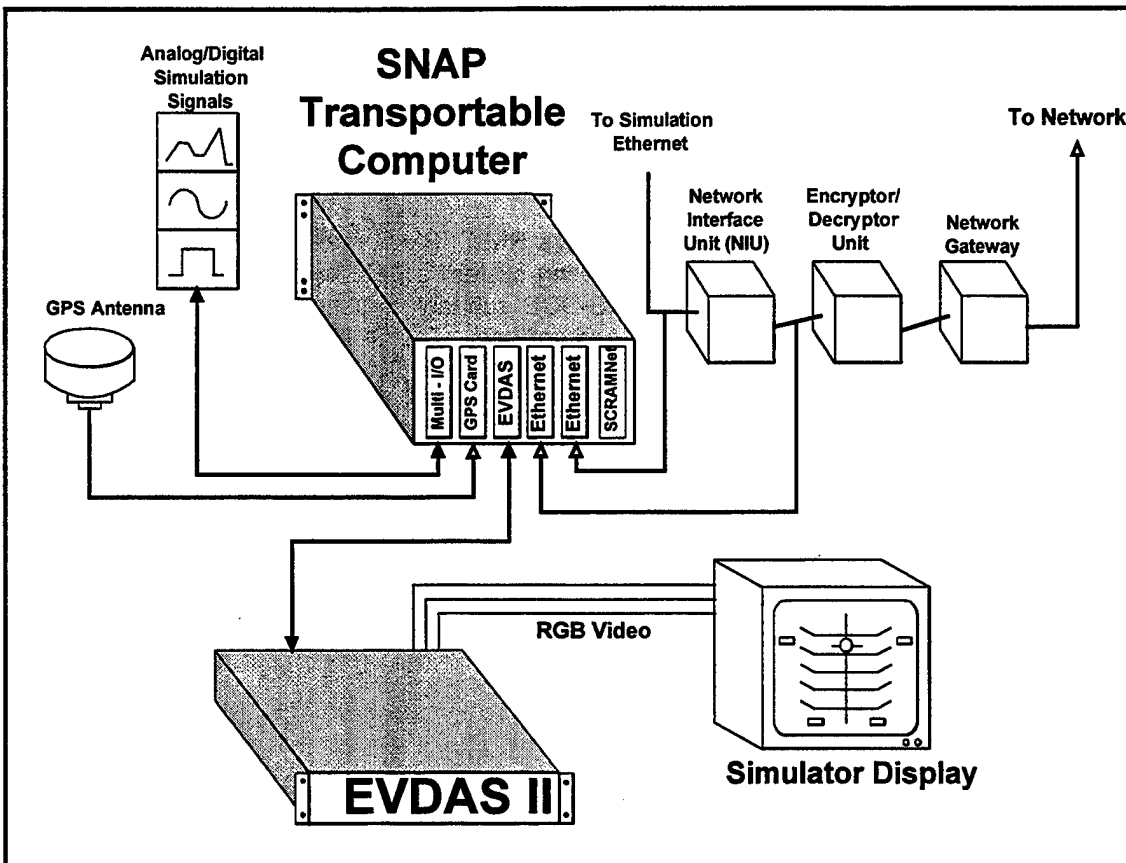


Figure 2 - SNAP Connection Diagram

2.5.2 SNAP Hardware

The SNAP computer [BRYANT94] and [WOODYARD96] is a rack mounted system with an Intel 150MHz Pentium PCI/ISA bus system and an integrated 9.4" SVGA Liquid Crystal Display (LCD). It has 16Mbytes of RAM, a 3.5" floppy drive and a 270 Mbyte SyQuest removable cartridge drive. The SyQuest cartridge can be removed and secured if it contains sensitive information. This system configuration was used for all NETS tests.

The computer's expansion slots house several off-the-shelf PC cards and an in-house developed EVDAS card. The off-the-shelf PC cards include a multi-function input/output board, two Ethernet boards, a Global Positioning System (GPS) board, a SCRAMNet board and a SVGA video card.

SNAP, through National Instruments' multi-function Input/Output (I/O) card, has two analog signal outputs, eight differential analog signal inputs, and four digital I/O channels (16-bit, 4-bit, 2-bit, and 1-bit). The multi-function board provides several counters/timers for frequency and event counting. The board also has an external sync input capability. This board is used to drive stick signals and/or record simulator state variables.

3Com Ethernet boards are used to passively extract PDU information from any network running DIS. Using two Ethernet boards enables a single SNAP computer to monitor PDU traffic at two different points within a single simulation site.

3. NETS Networking Experiments

3.1 Background/Problem

Increased emphasis has been placed on the concept of training by using multiple simulators networked together in one synthetic environment. Air Combat Command calls this "revolutionary training" and is allocating up to 25% of flying hours to simulation flying hours. To increase training effectiveness, multiple simulators will be networked together to facilitate squadron-level training. This type of training is important because it allows pilots to train jointly against various aggressor threats. An even better training effect is to allow two different squadrons to train against each other. This maximizes training benefit and flying hours. Positive training, however, requires that the simulators be connected together efficiently enough to not affect pilot cues and responses. This is especially important when two geographically-distinct squadrons are connected together.

The NETS program was developed to evaluate a network environment in which two geographically-separated squadrons' UTDs were connected together (Figure 3). Each squadron consisted of four UTDs. All four UTDs in each squadron were connected together via a LAN. The two squadrons were connected together via a Long Haul Network, also known as a WAN. The NETS program simulated the UTDs, the LANs, and the WAN.

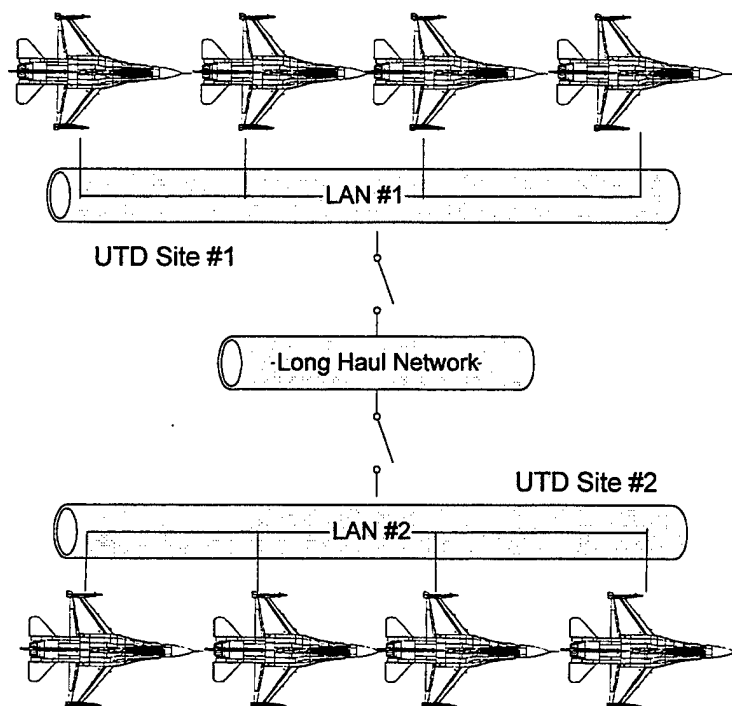


Figure 3 - NETS Network Configuration

The NETS study is a follow-on to another TSPG-sponsored study: The A-10 UTD Field of View and Networking Study [ZEH95], conducted in 1995. That study, which primarily investigated the capability of the A-10 UTD visual system, also performed limited networking investigations. These investigations included evaluating various Network Interface Units (NIUs) and comparing synchronous versus asynchronous operation of the NIU and simulation - all with one versus one (whereas NETS tested under four versus four conditions). Through the investigations, the study

recommended the use of VR-Link from MaK Technologies for a software implementation of an NIU. The study also recommended running the NIU synchronous with the simulation.

3.2 NETS Objectives

The NETS program was designed to investigate networking aspects of two four-ship squadrons connected together via a long-haul (long distance) network. NETS had four objectives:

- Develop Optimized Network Architectures for UTD Applications
- Compare the Improved Network Protocol Designed for Highly Dynamic Air Vehicles (DIS-Lite) with Standard Protocol (DIS)
- Understand Network Performance Issues Using Simulator Network Analysis Project Tools
- Recommend an Architecture with the Best Bandwidth Utilization/Truth Data Performance

The first objective reflects the development of optimized network architectures to be tested. These architectures were designed with the intention of connecting two geographically-separate four-ship UTD squadrons. Three different architectures were designed for this program, and are described later. Both the LANs and WAN portions were analyzed, including issues such as bandwidth, throughput, network loading effects, NIU performance, latency, Dead Reckoning threshold effects, delay compensation, and truth data comparisons.

The second objective refers to the comparison of network simulation protocols. Two communication protocols were studied - Distributed Interactive Simulation (DIS) and DIS-Lite. The version of DIS used during testing was IEEE DIS Version 2, Draft 4 (DIS 2.0.4). Although there is a newer DIS standard - IEEE 1278.1 (DIS 2.0.5), it was released during testing and was therefore not used. DIS 2.0.5's changes were minor (i.e. adding a few new types of protocols) over DIS 2.0.4, resulting in little impact to this study. DIS-Lite is an experimental low-latency, low-bandwidth protocol under development by MaK Technologies [TAYLOR95] [TAYLOR96] (through a Small Business Innovative Research [SBIR] contract monitored by AFRL/VACS). DIS-Lite splits the Entity State PDU into static and dynamic PDUs which are called the Query Response and Kinematic PDUs respectively. This results in a lower bandwidth requirement since only altered data is sent across the network.

The third objective refers to conducting objective measurements of the network performance. While it is very important to get piloted opinions on the perceived performance of a simulator, it is also important to get real numbers. These numbers can be used to quantitatively distinguish network architecture configurations.

The fourth objective is the summary of the entire report. This program was commissioned by TSPG to help determine how to connect UTDs. This report makes recommendations on network architectures based on the results obtained during testing.

3.3 NETS Approach

The NETS program followed an eight step approach. These steps, listed below, are described in further detail in the remaining sections of the report.

1. Design Viable Architectures
2. Create Testbed Architectures on AFRL/VACS Computer Deck
3. Design and Create Networking/Architecture/Simulation Software
4. Integrate SNAP into Testbed Architectures
5. Develop Test Scenarios and Test Setup
6. Conduct Evaluation Test Runs
7. Reduce Test Data and Analyze
8. Make Recommendations

3.4 Step 1: Design Viable Architectures

Creation of viable network architectures was the first step in the NETS program. These architectures were designed with the fundamental purpose of the program in mind - two squadrons of UTDs connected via a long-haul network. Since long-haul network lines between two geographically-separate squadrons would typically be purchased from telecommunication companies, NETS ignored designing this long-haul link, and instead simulated the performance of a typical WAN link (described in the next section). While the WAN link would simply be purchased, the training squadrons would have control over the design and implementation of the LAN - therefore this program focused on those LANs. Three test configurations were created and named:

- Simple Ethernet Architecture
- Ethernet with Gateways Architecture
- SCRAMNet Architecture

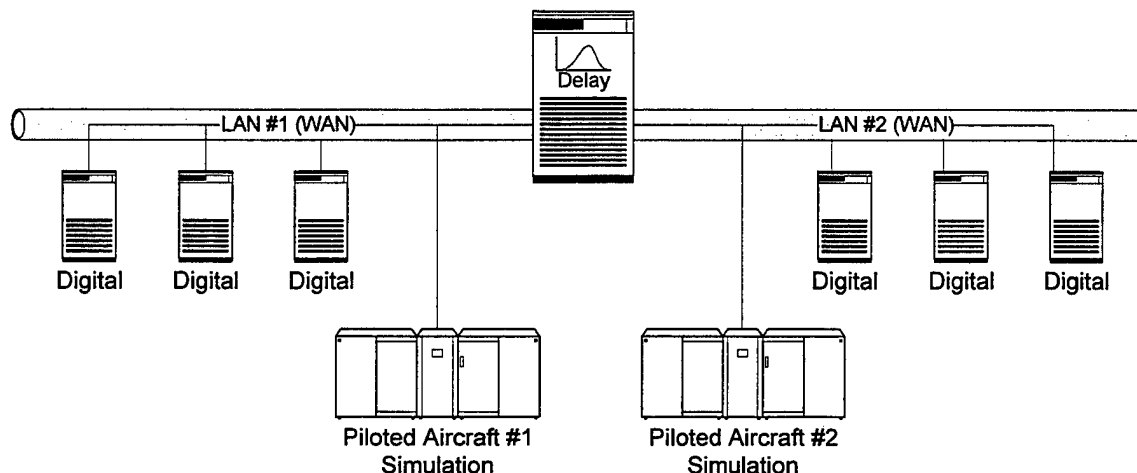


Figure 4 - Simple Ethernet Architecture

The first network (Figure 4) had all eight simulated UTDs connected to the same Ethernet network with the simulated long-haul network between the two UTD LANs. This forced each UTD node to handle all packets on the network.

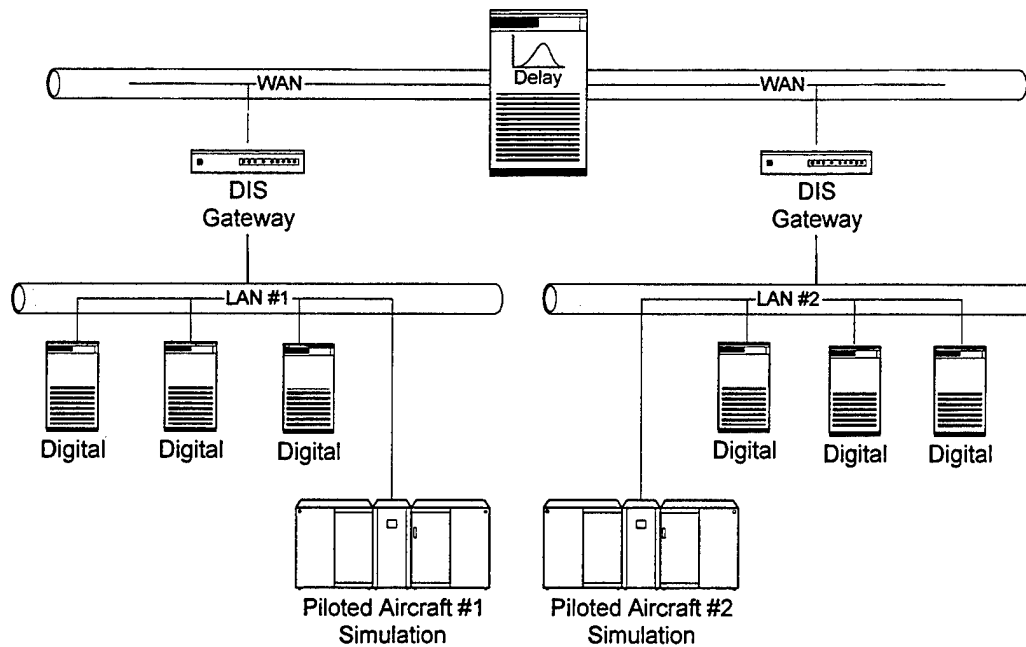


Figure 5 - Ethernet with Gateways Architecture

The second network (Figure 5) was similar to the first, but incorporated a gateway at both WAN-LAN connection points. This is a typical configuration when multiple simulators at different sites are networked. This gateway filtered the network traffic entering and leaving the LAN. Typically, the data filtered out would be data from other non-related simulations, or other general network traffic. If only two UTD LANs were connected together, then the gateways would typically only be filtering general network traffic - all simulation traffic would pass through the gateway.

The power of this architecture is evident when multiple UTD sties are connected on the same large network, yet only two sites want to talk to each other. In this case, the gateways would filter much information that is irrelevant to the ongoing simulation.

Another advantage of this architecture is that each LAN could use zero threshold settings. This would allow the simulations on the LAN to keep very accurate information about each other. In this case, the WAN data would be dead reckoned by the gateways.

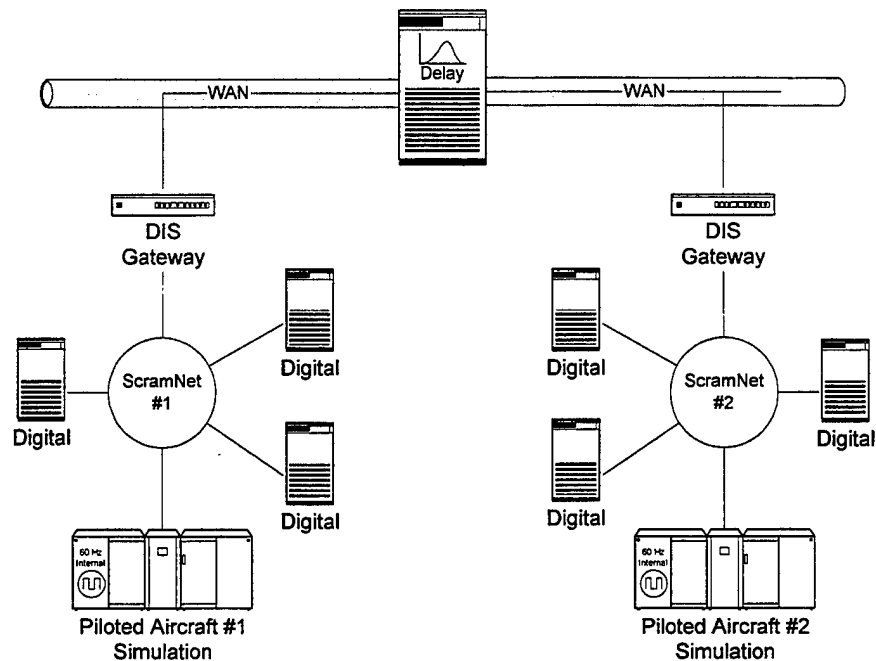


Figure 6 - SCRAMNet Architecture

The third network (Figure 6) was the same as the second, except that it used SCRAMNet instead of Ethernet for the LANs. SCRAMNet is a method used to implement a distributed shared memory. The advantage of this architecture is that it allows each simulation on the LAN to trade information with each other through memory location writes/reads (much faster), and dispenses with the communications overhead that Ethernet requires (much slower).

3.5 Step 2: Create Testbed Architectures on AFRL/VACS Computer Deck

To test and evaluate these proposed network architectures, each architecture was constructed on the AFRL/VACS computer deck. Each UTD was simulated, resulting in eight total UTD simulations. Each architecture was also constructed in the testbeds by arranging the various AFRL/VACS in-house networks and hardware. The following sections discuss the hardware used to create the testbed, and how the architecture testbeds were actually constructed and implemented.

3.5.1 Testbed Hardware

A total of two Encore RSX Series computers and one Silicon Graphics (SGI) computer were used. The SGI computer was an eight-processor Challenge XL. Two of AFRL/VACS's Piloted Combat Stations (PCS) were used to provide human player interaction. In-house Ethernet and SCRAMNet networks were used to connect the simulated UTDs. AFRL/VACS's SNAP equipment was used to determine latencies within and between the simulators. The following sections describe the NETS hardware, software and network architectures under investigation.

3.5.1.1 Encore RSX Series

Two Encore RSX computers were used to run generic F-15-like simulations. Synchronous operation of the simulations (and other networked machines) was achieved by using a timing pulse from one of the Encore RSX machines. This synchronous operation could be achieved at remote sites by synchronizing on interrupts from GPS cards. The Encore RSX Series machines each had one RSX 100 MHz CPU with a SCRAMNet card and an Ethernet port and were connected together by a Reflective Memory System (RMS). RMS is a proprietary reflective memory system developed by Encore. The Ethernet boards for the Encore computers were built in-house. SCRAMNet was used for transfer of simulation packets on one architecture, transfer of simulation data to the NIU computer, and for transfer of GPS time to all machines in all three architectures. The Encore computers were connected to the AFRL/VACS simulators via a fiber optic CAMAC I/O system. This system converted the raw signals from the simulator's sticks/buttons/switches into usable digital data. These machines handled the simulation executive for the piloted players (written in FORTRAN).

3.5.1.2 Silicon Graphics Computer

The Silicon Graphics Challenge XL computer, referred to as SG16, was purchased especially for the NETS program. It contained eight R4400 200 MHz processors (seven available for real-time purposes), a SCRAMNet card and a built-in Ethernet port. It also utilized an SGI VME E-Plex board for increased Ethernet connectivity. This board was connected to the I/O backplane and contained eight individual Ethernet ports. Due to the direct backplane connection, the E-Plex option had the same capability as eight separate Ethernet cards, but cost less.

The Silicon Graphics Challenge computer was used to implement the two NIUs (one NIU per processor), handle the six UTD digital players (three digital entities per processor), simulate a long haul network with variable delays corresponding to measured network performances [SWAINE95] (using one processor), and simulate the two gateways to the LANs (one processor for each gateway).

3.5.1.3 Piloted Combat Stations

AFRL/VACS's Piloted Combat Stations were used to allow for testing simulator and end-to-end network delays. Using the PCSs allowed SNAP to record end-to-end delays (i.e. input stick information on one PCS, and record the changes shown on the OTW visual of a second PCS). AFRL/VACS's PCSs used a 29" monitor for a combined Heads-Down Display (HDD) and OTW view, and used Hands on Throttle and Stick (HOTAS) controls. A "virtual-dome" effect was created by placing special symbology on the OTW display [ZEH95]. This symbology indicated the relative positions of aircraft normally visible in a full dome simulator.

3.5.1.4 Ethernet Network

Four separate Ethernet networks were used for this program. Standard 10Base5 thick-net cable was used as the LAN backbone and had end taps connecting to Attachment Unit Interface (AUI) transceivers. These transceivers were connected to eight-port 10BaseT hubs (four total) and individual simulation computers. The Challenge was connected to the hubs with 10BaseT cable. The Encores were connected directly to the backbone via AUI connections. This setup allowed the NETS network configurations to be easily modified with minimal impact to the rest of the AFRL/VACS simulation facility.

3.5.1.5 Simulation Network Analysis Project

SNAP was developed to analyze long haul network latencies and characteristics. It performed complete end-to-end analysis of the NETS testbed. For the purposes of this report, end-to-end delay is defined as the delay from when the stick in one simulation moves to when the results of that movement can be seen on the second simulation's OTW display - this includes the dynamic performance of the aircraft model. In previous experiments, analysis of SNAP data indicated that the majority of end-to-end latency was due to the NIU. Since it was able to analyze the network latency as well as end-to-end latency, SNAP was ideally suited as a data collection tool for NETS. SNAP provided a repeatable stick input and recorded the result on a remote simulator's visual system. These items were recorded and timestamped along with data at various points throughout the network (state variables, NIU, etc.). This data, once collected and correlated, was then analyzed to determine latencies to within a 0.5 ms accuracy.

3.5.1.6 VR-Link/Ethernet Interface

The VR-Link/Ethernet interface used one Silicon Graphics computer processor for each simulator as an interface (NIU) to the DIS network. Data was sent between the Encore computer and the SG processor over SCRAMNet. The two Challenge processors exchanged PDUs with other simulation entities via Ethernet.

Each simulation frame on the Encore computers was composed of the following actions:

1. Read SCRAMNet, which contained information about the other site's entities.
2. Run the generic F-15-like model.
3. Send data to its out-the-window display.
4. Send updated state information to the NIU processor.
5. Record data for post-run analysis.

The NIU processor was suspended until it received state information from the Encore simulator. The NIU processor would then:

1. Use the information to update the true state of the entity.
2. Dead reckon the aircraft position.

3. Compare the difference between the truth data and the dead reckoned data with the thresholds.
4. Send an entity state PDU if necessary.
5. Read all incoming PDUs.
6. Dead Reckon remote entities.
7. Write dead-reckoned state information of remote entities into SCRAMNet.

The dead reckoning, threshold comparison, and PDU sending were handled by the VR-Link software.

3.5.2 Common Testbed Architectural Pieces

All three architectures had three identical pieces among them: the Long-Haul Network Simulator, Network Loading and SCRAMNet timing connections. The Long-Haul Network Simulator was used to simulate the long-haul network connection between the two sets of UTD LANs being tested. This piece simulated a long-haul network link by delaying packets sent between the LANs. Network Loading was used to add network traffic to the network. This piece allows evaluation of effects of heavy traffic on the simulation. The SCRAMNet timing connections were used to control timing and synchronization. This piece controlled timing and synchronization by simulating a GPS connection to each machine.

3.5.2.1 Long-Haul Network Simulator

The long-haul network was simulated using a Silicon Graphics computer connected to the main WAN backbone of all three architectures. This computer simulated network delays modeled after that used in [SWAINE95]. The SG computer generated pseudo-random delay times which had a Gaussian distribution. DIS packets going from one LAN to another were delayed by these random delay times. The mean and standard deviation of the delay times were controlled by a configuration file and were set for 45 ms and 10 ms, respectively (determined from [ZEH95]).

3.5.2.2 Network Loading

Original plans called for a central computer on the main backbone to act as a network loader. Instead, a more realistic loading scheme was devised. Loading was based on increasing digital entity performance characteristics. This effect was more realistic than backbone loading due to the assumptions involved with the NETS networking setup. NETS assumed the two training squadrons would most likely have a simple dedicated line to connect one another instead of a large, shared network connection. In the event of the later, backbone loading would be appropriate since there would be extra traffic on the backbone not related to the training squadrons in question. However, if a direct connection were to be used - which is the more likely, cheaper route - then loading would be a function of increased traffic deriving from the LANs. The best way to simulate that effect was to increase output from the digital players. Furthermore, it was discovered during developmental testing, that all six digital entities performing a high-G maneuver (designed to get into position to fire a missile), would saturate both the SNAP computer and the SG 200 MHz R4400 processors. This point was used as the maximum, saturation case, and stepped backwards to get lesser loading levels.

The low loading level had each digital player, as a base case, fly straight and level. The second loading level had one digital player on each LAN perform the high G maneuver designed to get into position to fire a missile. The third loading level had two digital players on each LAN performing this high G maneuver. The fourth loading level had all three digital players on each LAN performing the same high G maneuver.

3.5.2.3 SCRAMNet Timing Connections

Each system in the NETS setup had a SCRAMNet interface card, a commercial off-the-shelf interface card developed by SYSTRAN Corp. located in Dayton, OH. SCRAMNet, developed through a SBIR several years back, has become a leading industry mechanism for high-speed shared memory applications. SCRAMNet was the only logical choice for an alternative network due to its ease of use and high performance. SCRAMNet has a bandwidth of 150 Mbit/s, which is 15 times greater than Ethernet, which has a bandwidth of 10 Mbit/s. SCRAMNet is used by all three networks under investigation to control timing and synchronization (simulating a GPS connection). The simulation time for each computer is synchronized at the start of each frame. Inter-frame timing is accomplished by distributed time available on the computers (described in Section 3.6.7 - Distributed Time). This allows for the use of absolute timestamping in the DIS PDUs, which has been shown to significantly increase positional accuracy [SWAINE95]. Absolute timestamping is used in all test runs.

3.5.3 Testbed Architecture Implementation

The following sections discuss the implementation of the previously mentioned architectures using the testbed hardware available to AFRL/VACS.

3.5.3.1 Simple Ethernet Architecture

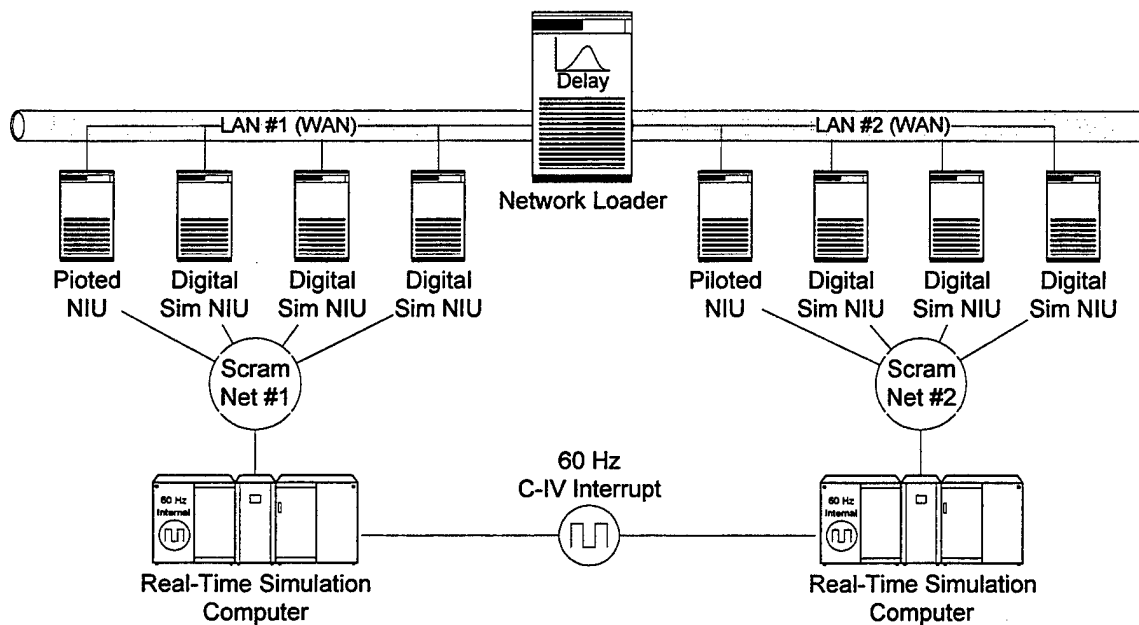


Figure 7 - Simple Ethernet Architecture - Conceptual

The Simple Ethernet Architecture conceptual diagram is shown in Figure 7, and the connection diagram is shown in Figure 8. The two Encore computers ran the piloted simulations and were connected to the Ethernet network through SG16 processors acting as an NIU (labeled 'Piloted' in Figure 7). SG16 connected to LAN #1 on port 3000 with Multicast address of 224.0.0.10 and used the ep0 interface to receive and the ep1 interface to send. Ep0 and ep1 were two Ethernet interfaces on an eight port E-plex card located inside SG16. SG 16 also connected to LAN #2 on port 3001 with Multicast address of 225.0.0.20 and used the ep3

interface to receive and the ep4 interface to send. SCRAMNet was used to control timing and synchronization of the Silicon Graphics computers, as well as for communication between the Encores and the NIU. The two LANs were implemented by using 10BaseT Hubs. SG16 implemented the network delay function using one processor which was connected to each hub, and implemented all three digital entities on a LAN using one processor (two processors total to simulate all six digital entities in the entire architecture).

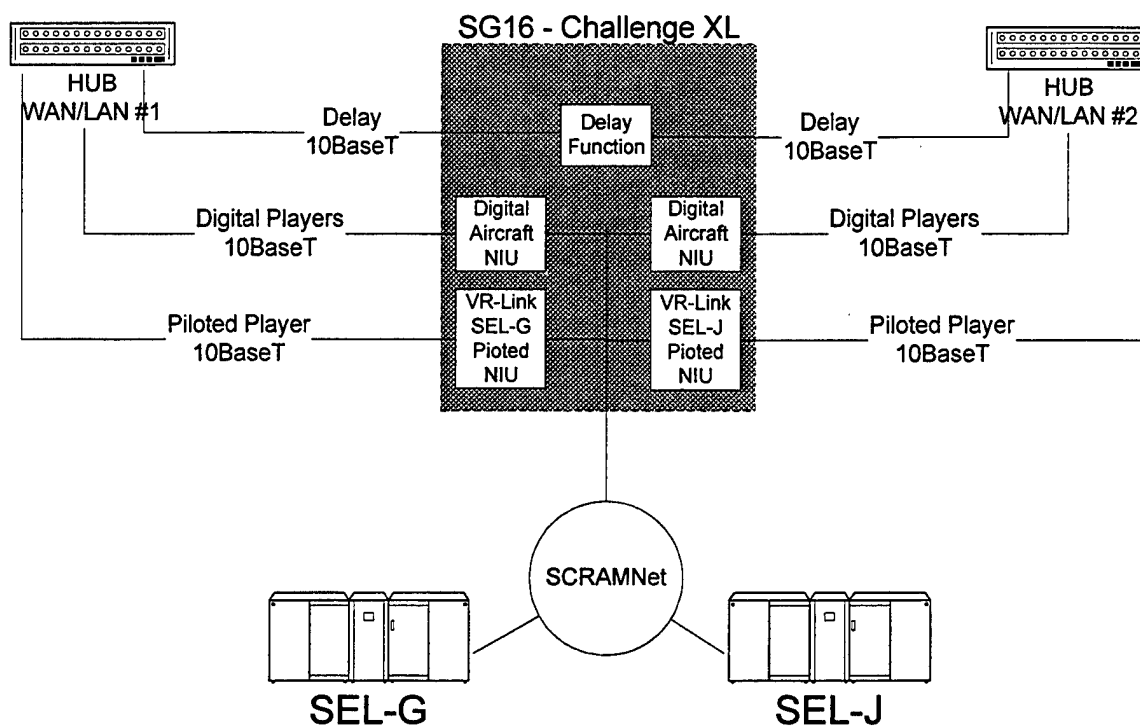


Figure 8 - Simple Ethernet Architecture - Connection

SNAP was configured to record Ethernet packets on each LAN, record state variable information in each piloted simulation (via SCRAMNet), provide stick input to one piloted simulation, and measure OTW display changes on the other piloted simulation.

3.5.3.2 Ethernet with Gateways Architecture

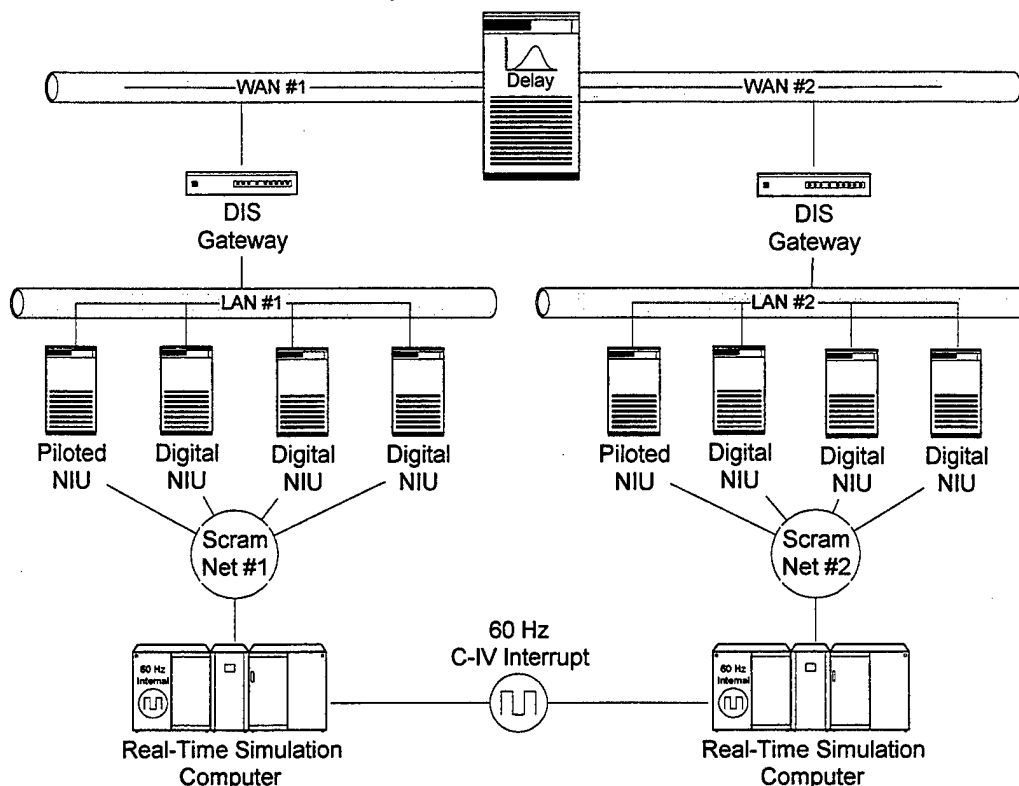


Figure 9 - Ethernet with Gateways Architecture - Conceptual

The Ethernet with Gateways Architecture conceptual diagram is shown in Figure 9, and the connection diagram is shown in Figure 10. The two Encore computers ran the piloted simulations and were connected to the Ethernet network through SG16 processors acting as an NIU. SG16 connected to LAN #1 on port 3000 with Multicast address of 224.0.0.10 and used the ep0 interface to receive and the ep1 interface to send. SG 16 also connected to LAN #2 on port 3001 with Multicast address of 225.0.0.20 and used the ep3 interface to receive and the ep4 interface to send. Each DIS Gateway was simulated by a processor on SG16. SG16 connected LAN #1 to the WAN Delay Simulator via WAN #1, using port 4000 with Multicast address of 224.0.0.11 and used the ep2 interface to receive and the ep6 interface to send. SG16 connected LAN #2 to the WAN Delay Simulator via WAN #2, using port 4001 with Multicast address of 225.0.0.21 and used the ep5 interface to receive and the ep7 interface to send. SCRAMNet was used to control timing and synchronization of the Silicon Graphics computers, as well as for communication between the Encores and the NIU. The four networks (2 LANs, and 2 WANs) were each implemented by using 10BaseT Hubs (one hub for one LAN & WAN). SG16 implemented the network delay function using one processor which was connected to both WAN hubs, and implemented all three digital entities on a LAN using one processor (two processors total to simulate all six digital entities in the entire architecture).

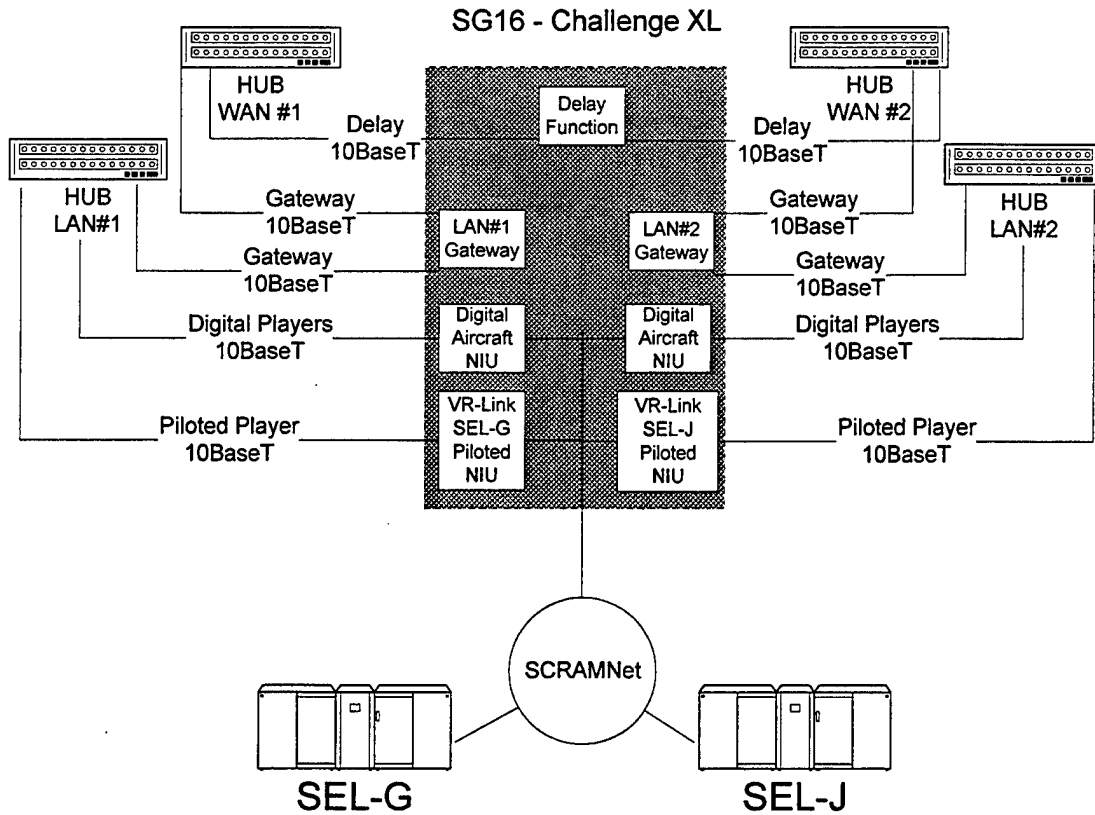


Figure 10 - Ethernet with Gateways Architecture - Connection

SNAP was configured to record Ethernet packets on each DIS Ethernet and each LAN, record state variable information in each piloted simulation (via SCRAMNet), provide stick input to one piloted simulation, and measure OTW display changes on the other piloted simulation.

3.5.3.3 SCRAMNet Architecture

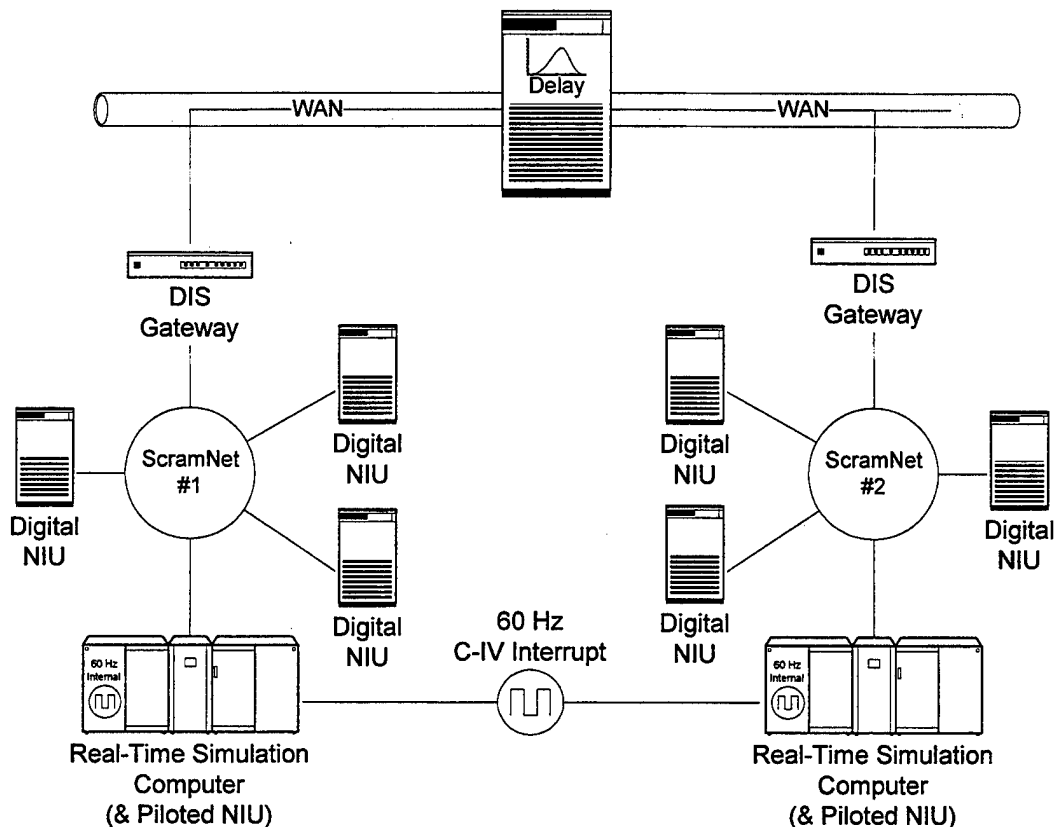


Figure 11 - SCRAMNet Architecture - Conceptual

The SCRAMNet Architecture conceptual diagram is shown in Figure 11, and the connection diagram is shown in Figure 12. The two Encore computers ran the piloted simulations and were connected to the SG16 processors acting as an NIU via SCRAMNet. SG16 connected LAN #1 (implemented with SCRAMNet #1) to the WAN Delay Simulator via WAN #1, using port 4000 with Multicast address of 224.0.0.11 and used the ep2 interface to receive and the ep6 interface to send. SG16 also connected LAN #2 (implemented with SCRAMNet #2) to the WAN Delay Simulator via WAN #2, using port 4001 with Multicast address of 225.0.0.21 and used the ep5 interface to receive and the ep7 interface to send. Each DIS Gateway was simulated by a processor on SG16. SCRAMNet was used to control timing and synchronization of the Silicon Graphics computers, as well as for communication between the Encores and the NIU. The two WANs were implemented by 10BaseT hubs. SG16 implemented the network delay function using one processor which connected to each WAN hub, and SG16 implemented all three digital entities on a LAN using one processor (two processors total to simulate all six digital entities in the entire architecture).

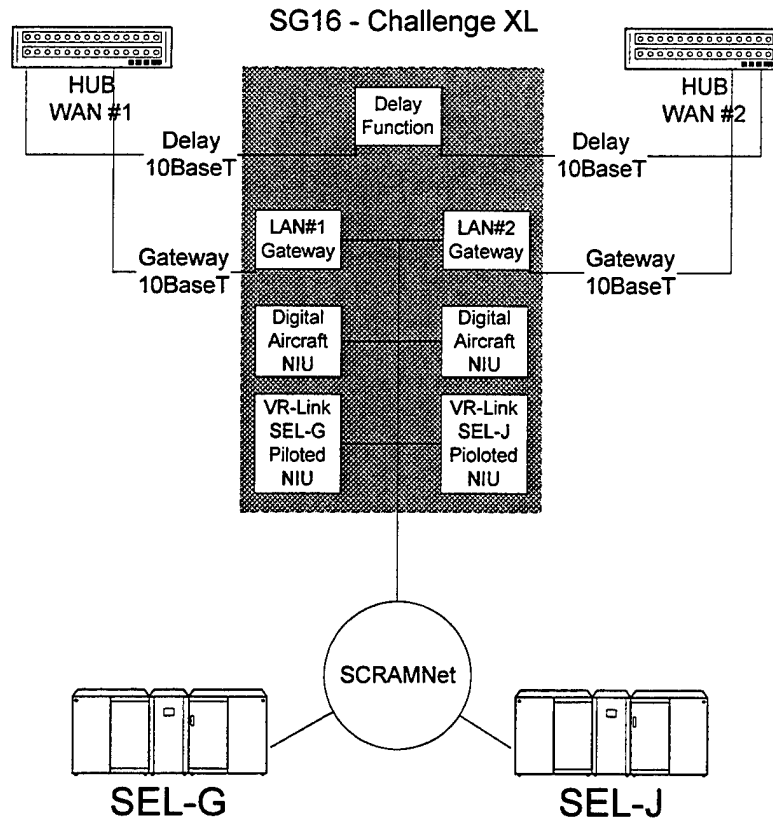


Figure 12 - SCRAMNet Architecture - Connection

SNAP was configured to record Ethernet packets on each DIS Ethernet, record state variable information in each piloted simulation (via SCRAMNet), provide stick input to one piloted simulation, and measure OTW display changes on the other piloted simulation.

3.6 Step 3: Design and Create Networking/Architecture/Simulation Software

Numerous pieces of code were designed and developed for the NETS program. Each piece of software developed is listed here and described in the following sections:

- SEL-J Simulation
- SEL-G Simulation
- Digital Aircraft
- DIS Interface for Piloted Players
- WAN Simulator
- DIS Gateway
- Distributed Time
- DIS Protocol
- DIS-Lite Protocol
- SCRAMNet Interface
- Architecture Program Integration and Scheduling

3.6.1 Sel-J Simulation

The Sel-J simulation was a standard AFRL/VACS simulation using version 6.0 of the executive. It simulated a piloted player controlled from a PCS and had a SCRAMNet interface to a DIS Interface program. This simulation used a SCRAMNet partition starting at a 256K offset. Modifications were made to the executive to initialize SCRAMNet and to send interrupts to Sel-G and SG16 each time the real-time task was resumed. An interrupt was also sent to SNAP near the end of the frame.

3.6.2 Sel-G Simulation

The Sel-G simulation was a standard AFRL/VACS simulation using version 7.0 of the executive. Changes in version 7.0 had no effect on executive functions used in NETS. It simulated a piloted player controlled from a PCS and had a SCRAMNet interface to a DIS Interface program. This simulation used a SCRAMNet partition starting at a 384K offset. Modifications were made to the executive to allow it to use the Sel-J to Sel-G interrupt as the timing interrupt instead of the regular RTOM or C-IV timing interrupt. This was done so that the Sel-J and Sel-G simulations would be synchronized and have the same simulation time during each frame. The purpose of this interrupt was to simulate having a GPS-driven synchronization interrupt on each side.

3.6.3 Digital Aircraft

The digital aircraft simulated a piloted player by updating their state and using the VR-Link TopoOutbound class to send entity state PDUs. The digital aircraft could fly either straight and level, or a high-G turning pattern by reading a flight path in a file. This program did not read in any PDUs. This program ran synchronous with the piloted simulator that is on its LAN by use of a flag in SCRAMNet memory. Six aircraft were simulated using two processors on SG16 and the SG React Frame Scheduler.

3.6.4 DIS Interface for Piloted Players

The DIS Interface program was the piloted simulations interface to the DIS network. The piloted aircraft's state data was replicated into SCRAMNet memory and the DIS Interface then used that to update a VR-Link TopoOutbound class to send entity state PDUs. A VR-Link Remove Vehicle Approximator (RVA) class was used to filter and receive PDUs from other entities and their state data was filled into SCRAMNet for the piloted simulation to use. This program ran synchronous with the piloted simulator that was on its LAN by use of a flag in SCRAMNet.

3.6.5 WAN Simulator

This program simulated the delays of a Wide Area Network. It used a random Gaussian distribution to create the delay for the Ethernet frames between two networks (per [SWAINE95]). The mean and standard deviation were specified on the command line. The WAN simulator was also capable of creating extra entity state, fire, and detonate PDUs on both networks. This traffic-generation feature was not used. Instead, loading was performed by digital aircraft maneuvers.

3.6.6 DIS Gateway

The DIS Gateway program acted as a buffer between the WAN and the LAN. It filtered out extraneous PDUs from filling up the LANs bandwidth and also broadcasted the LANs outgoing PDUs on the WAN. The PDU pass through rules were controlled in the configuration file. If no thresholds were used on the LAN, then the PDUs were put into a list of outbound entities and dead reckoned (to reduce WAN traffic loads). If thresholds were being used on the LAN, then the PDUs were passed directly through to the other side.

The gateway had two representations of each aircraft. The first was a VR-Link DraEntity object in a VR-Link RVA table that was updated each time a PDU was received. The second was a VR-Link Outbound object that was used to generate PDUs for a vehicle. The methods in the RVA table and DraEntity classes were overridden so that an Outbound object attached to the opposite interface that the RVA table was receiving from was associated with each DraEntity in the RVA table. Then the Outbound object would update its state and output a PDU either when VR-Link updated the DraEntity in the RVA table upon receipt of an entity state PDU or when the RVA table DraEntities were dead reckoned. The time when the Outbound object output a PDU depended upon the LAN thresholds and the direction of the data flow. If the LAN was using 3,1,5 thresholds, the LAN to WAN interface and WAN to LAN Outbound objects would output a PDU upon receipt of a PDU. If the LAN was using 0,0,0 thresholds, the LAN to WAN Outbound objects would output a PDU upon receipt of a PDU after thresholding. The WAN to LAN Outbound objects were forced to output a PDU every pass after dead reckoning the DraEntities in the RVA table and updating the Outbound objects to the current dead reckoned state.

3.6.7 Distributed Time

In order to use absolute timestamps in the PDUs for NETS, a program was created on a separate SNAP computer that continually read GPS time and put the time into SCRAMNet. The update rate was 10 kHz, which gives the GPS time sent to all nodes on SCRAMNet a +/-0.1 ms accuracy. This allowed all computers on the system to read the same time subject to SCRAMNet ring transmission delays, which are in the nanosecond range.

3.6.8 DIS Protocol

The IEEE 1278.1 of the DIS protocol was integrated into the NETS testing architecture. The only PDU that was used was the Entity State, which fully describes a simulated entity.

3.6.9 DIS-Lite Protocol

DIS-Lite, which is being developed under a SBIR with the developers of VR-Link, was integrated into the NETS testing architecture.

3.6.10 SCRAMNet Interface

Table 1 shows the format of data that was shared in SCRAMNet.

Word	Type	Data Description	Units
1	float	Sel-J on LAN #1 aircraft X position	ft
2	float	Sel-J on LAN #1 aircraft Y position	ft
3	float	Sel-J on LAN #1 aircraft Z position	ft
4	float	Sel-J on LAN #1 aircraft roll rate	rad/sec
5	float	Sel-J on LAN #1 aircraft roll angle	rad
6	float	LAN #1, digital #1 X position	ft
7	float	LAN #1, digital #1 Y position	ft
8	float	LAN #1, digital #1 Z position	ft
9	float	LAN #1, digital #2 X position	ft
10	float	LAN #1, digital #2 Y position	ft
11	float	LAN #1, digital #2 Z position	ft
12	float	LAN #1, digital #3 X position	ft
13	float	LAN #1, digital #3 Y position	ft
14	float	LAN #1, digital #3 Z position	ft
15	float	Sel-G aircraft X position as seen by Sel-J on LAN #1	ft
16	float	Sel-G aircraft Y position as seen by Sel-J on LAN #1	ft
17	float	Sel-G aircraft Z position as seen by Sel-J on LAN #1	ft
18	float	Sel-G aircraft roll rate as seen by Sel-J on LAN #1	rad/sec
19	float	Sel-G aircraft roll angle as seen by Sel-J on LAN #1	rad
20	float	Sel-G on LAN #2 aircraft X position	ft
21	float	Sel-G on LAN #2 aircraft Y position	ft
22	float	Sel-G on LAN #2 aircraft Z position	ft
23	float	Sel-G on LAN #2 aircraft roll rate	rad/sec
24	float	Sel-G on LAN #2 aircraft roll angle	rad
25	float	LAN #2, digital #1 X position	ft
26	float	LAN #2, digital #1 Y position	ft
27	float	LAN #2, digital #1 Z position	ft
28	float	LAN #2, digital #2 X position	ft
29	float	LAN #2, digital #2 Y position	ft
30	float	LAN #2, digital #2 Z position	ft
31	float	LAN #2, digital #3 X position	ft

Word	Type	Data Description	Units
32	float	LAN #2, digital #3 Y position	ft
33	float	LAN #2, digital #3 Z position	ft
34	float	Sel-J aircraft X position as seen by Sel-G on LAN #2	ft
35	float	Sel-J aircraft Y position as seen by Sel-G on LAN #2	ft
36	float	Sel-J aircraft Z position as seen by Sel-G on LAN #2	ft
37	float	Sel-J aircraft roll rate as seen by Sel-G on LAN #2	rad/sec
38	float	Sel-J aircraft roll angle as seen by Sel-G on LAN #2	rad
39,40	integer	Sel-J aircraft model is done	sec
41,42	integer	Sel-J starts writing aircraft data in SCRAMNet	sec
43,44	integer	Sel-J finishes writing aircraft data in SCRAMNet	sec
45,46	integer	LAN #1 NIU read aircraft data from Sel-J	sec
47,48	integer	LAN #1 NIU sends Sel-J aircraft PDUs on WAN	sec
49,50	integer	LAN #1 NIU receives PDUs from WAN	sec
51,52	integer	LAN #1 NIU writes data for Sel-J	sec
53,54	integer	Sel-J starts reading NIU data in SCRAMNet	sec
55,56	integer	Sel-J sets data about Sel-G's aircraft in memory	sec
57,58	integer	Sel-G aircraft model is done	sec
59,60	integer	Sel-G starts writing aircraft data in SCRAMNet	sec
61,62	integer	Sel-G finishes writing aircraft data in SCRAMNet	sec
63,64	integer	LAN #2 NIU reads aircraft data from Sel-G	sec
65,66	integer	LAN #2 NIU sends Sel-G aircraft PDUs on WAN	sec
67,68	integer	LAN #2 NIU receives PDUs from WAN	sec
69,70	integer	LAN #2 NIU writes data for Sel-G	sec
71,72	integer	Sel-G starts reading NIU data in SCRAMNet	sec
73,74	integer	Sel-G sets data about Sel-J's aircraft in memory	sec
75,76	integer	LAN #1 Gateway receives aircraft data from LAN #1	sec
77,78	integer	LAN #1 Gateway sends PDUs on WAN	sec
79,80	integer	LAN #1 Gateway receives PDUs from WAN	sec
81,82	integer	LAN #1 Gateway send PDUs on LAN	sec
83,84	integer	LAN #2 Gateway receives aircraft data from LAN #2	sec
85,86	integer	LAN #2 Gateway sends PDUs on WAN	sec
87,88	integer	LAN #2 Gateway receives PDUs from WAN	sec
89,90	integer	LAN #2 Gateway send PDUs on LAN	sec

Table 1 - SCRAMNet Data Layout (32 bit words)

Note: Integer times are stored as two words. The first word is the number of seconds and the second word is the number of microseconds in the day from midnight using standard GPS time.

3.6.11 Architecture Program Integration and Scheduling

Each one of the architectures required the integration of the various bits of code described above. In addition, each simulation's task execution schedule list was developed. Both the integration and scheduling are described in the following three sections under the appropriate architecture's name.

- Simple Ethernet Architecture Programs/Schedule
- Ethernet with Gateways Architecture Programs/Schedule
- SCRAMNet Architecture Programs/Schedule

3.6.11.1 Simple Ethernet Architecture Programs/Schedule

The top of Table 2 lists each program that was run for the Simple Ethernet Architecture, the computer and CPU it was run on, and which network (WAN/LAN #1 or #2) it was connected to. There was one DIS Interface process for each piloted simulation. The digital players for each site were run in a single process that used 2 processors controlled by the SG Frame Scheduler. One processor ran the three digital players for LAN#1 and the other ran the digital players for LAN#2. The bottom part of Table 2 lists the scheduled tasks that were run in the two piloted simulations. For the end-to-end tests the stick inputs and display outputs were added to the schedule.

Program	Computer	LAN	CPU
Sel-J Sim	Sel-J	N/A	1
Sel-G Sim	Sel-G	N/A	1
DIS Interface	sg16	WAN/LAN#1	3
DIS Interface	sg16	WAN/LAN#2	4
Digital	sg16	WAN/LAN#1 or WAN/LAN#2	5,6
WAN Sim	sg16	WAN/LAN#1 & WAN/LAN#2	7

Sel Simulation Schedule for End-to-End Runs		
Name	Rate	Description
CMACREAL	50 Hz	Read pilot or SNAP inputs
READ DIS	50 Hz	Read data from SCRAMNet about remote entities
CONTROLS	50 Hz	Process CMACREAL inputs
ADV166	50 Hz	Aircraft model
MCS_DISP	50 Hz	Send aircraft data to display
SEND DIS	50 Hz	Write aircraft data in SCRAMNet for DIS Interface
DCU	50 Hz	Data Capture Utility
Sel Simulation Schedule for Non-Maneuvering Runs		
Name	Rate	Description
READ DIS	50 Hz	Read data from SCRAMNet about remote entities
ADV166	50 Hz	Aircraft model
SEND DIS	50 Hz	Write aircraft data in SCRAMNet for DIS Interface
DCU	50 Hz	Data Capture Utility

Table 2 - Simple Ethernet Architecture Programs/Schedule

3.6.11.2 Ethernet with Gateways Architecture Programs/Schedule

Table 3 lists the same information as Table 2 with the addition of the two gateway processes that had connections to both the LANs and WANs.

Program	Computer	LAN	CPU
Sel-J Sim	Sel-J	N/A	1
Sel-G Sim	Sel-G	N/A	1
DIS Interface	sg16	LAN#1	3
DIS Interface	sg16	LAN#2	4
Digital	sg16	LAN#1 or LAN#2	5,6
WAN Sim	sg16	WAN#1 and WAN#2	7
Gateway	sg16	LAN#1 and WAN#1	1
Gateway	sg16	LAN#2 and WAN#2	2

Sel Simulation Schedule for End-to-End Runs		
Name	Rate	Description
CMACREAL	50 Hz	Read pilot or SNAP inputs
READ DIS	50 Hz	Read data from SCRAMNet about remote entities
CONTROLS	50 Hz	Process CMACREAL inputs
ADV166	50 Hz	Aircraft model
MCS_DISP	50 Hz	Send aircraft data to display
SEND DIS	50 Hz	Write aircraft data in SCRAMNet for DIS Interface
DCU	50 Hz	Data Capture Utility
Sel Simulation Schedule for Non-Maneuvering Runs		
Name	Rate	Description
READ DIS	50 Hz	Read data from SCRAMNet about remote entities
ADV166	50 Hz	Aircraft model
SEND DIS	50 Hz	Write aircraft data in SCRAMNet for DIS Interface
DCU	50 Hz	Data Capture Utility

Table 3 - Ethernet with Gateways Architecture Programs/Schedule

3.6.11.3 SCRAMNet Architecture Programs/Schedule

Table 4 lists similar information as Table 3, with a few exceptions. The SCRAMNet Architecture didn't use the piloted DIS Interface Programs because the simulation wrote the data directly to SCRAMNet for the gateway to use. Likewise, the digital players wrote their data to SCRAMNet instead of sending PDUs. The gateway in this architecture read the local simulation data from SCRAMNet and performed the functions of an NIU for all the local aircraft by sending and receiving PDUs on the WAN. Data received from the WAN is dead-reckoned and was written into SCRAMNet for the local simulations to use.

Program	Computer	LAN	Partition	CPU
Sel-J Sim	Sel-J	N/A	1	1
Sel-G Sim	Sel-G	N/A	2	1
Digital	sg16	N/A	1,2	5,6
WAN Sim	sg16	WAN#1 and WAN#2	1,2	7
Gateway	sg16	WAN#1	1	1
Gateway	sg16	WAN#2	2	2

Sel Simulation Schedule for End-to-End Runs		
Name	Rate	Description
CMACREAL	50 Hz	Read pilot or SNAP inputs
READ DIS	50 Hz	Read data from SCRAMNet about remote entities
CONTROLS	50 Hz	Process CMACREAL inputs
ADV166	50 Hz	Aircraft model
MCS_DISP	50 Hz	Send aircraft data to display
SEND DIS	50 Hz	Write aircraft data in SCRAMNet for DIS Interface
DCU	50 Hz	Data Capture Utility
Sel Simulation Schedule for Non-Maneuvering Runs		
Name	Rate	Description
READ DIS	50 Hz	Read data from SCRAMNet about remote entities
ADV166	50 Hz	Aircraft model
SEND DIS	50 Hz	Write aircraft data in SCRAMNet for DIS Interface
DCU	50 Hz	Data Capture Utility

Table 4 - SCRAMNet Architecture Programs/Schedule

3.7 Step 4: Integrate SNAP into Testbed Architecture

SNAP was integrated into each of the three architectures. Table 5 shows the SNAP connections for the Simple Ethernet Architecture. For this architecture SNAP #1 was connected to LAN#1 via an Ethernet connection. No further Ethernet connections or SCRAMNet connections were made by this SNAP. SNAP #1 took its data on the Sel-J synchronization pulses. SNAP#2 was connected to LAN#2 via an Ethernet connection and was also connected to the SCRAMNet ring. Since there was only one real physical SCRAMNet ring that was logically split into two rings for the two LANs, SNAP#2 was able to record SCRAMNet simulator state data for all simulations on both LANs. SNAP#2 also took its data on the Sel-J synchronization pulses. SNAP#2 drove the stick for end-to-end tests, with SNAP#1 recording EVDAS.

Table 6 shows the SNAP connections for the Ethernet with Gateways Architecture. The SNAP setup was the same as the Simple Ethernet Architecture with the additions of SNAP#1 being connected to the network between the LAN#1 gateway and the WAN Network Simulator, and SNAP#2 being connected to the network between the LAN#2 gateway and the WAN Network Simulator.

Table 7 shows the SNAP connections for the SCRAMNet Architecture. The SNAP setup was the same as the Simple Ethernet Architecture with the exception that SNAP#1 was connected to the network between the LAN#1 (which was the SCRAMNet #1 ring) gateway and the WAN Network simulator, and that SNAP#2 was connected between the LAN#2 (SCRAMNet #2 ring) gateway and the WAN Network simulator.

SNAP #1					
Ethernet #1	Ethernet #2	SCRAMNet	Interrupt	Stick Drive	EVDAS
LAN #1	N/A	no	Sel-J	N/A	yes
SNAP #2					
Ethernet #1	Ethernet #2	SCRAMNet	Interrupt	Stick Drive	EVDAS
LAN #2	N/A	yes	Sel-J	yes	N/A

Table 5 - Simple Ethernet Architecture SNAP Connections

SNAP #1					
Ethernet #1	Ethernet #2	SCRAMNet	Interrupt	Stick Drive	EVDAS
LAN #1	WAN#1	no	Sel-J	N/A	yes
SNAP #2					
Ethernet #1	Ethernet #2	SCRAMNet	Interrupt	Stick Drive	EVDAS
LAN #2	WAN#2	yes	Sel-J	yes	N/A

Table 6 - Ethernet with Gateways Architecture SNAP Connections

SNAP #1					
Ethernet #1	Ethernet #2	SCRAMNet	Interrupt	Stick Drive	EVDAS
WAN #1	N/A	no	Sel-J	N/A	yes
SNAP #2					
Ethernet #1	Ethernet #2	SCRAMNet	Interrupt	Stick Drive	EVDAS
WAN #2	N/A	yes	Sel-J	yes	N/A

Table 7 - SCRAMNet Architecture SNAP Connections

3.8 Step 5: Develop Test Scenario and Test Setup

While testing, the total end-to-end delay from one simulation to another was measured and the accuracy of the state of a remote entity was compared with its truth data.

SNAP was used to measure delays associated with the network traffic, stick inputs and outputs, and OTW displays. Code timing was accomplished by writing event times into SCRAMNet to be recorded by SNAP. Aircraft state data was recorded by the simulators and by SNAP via SCRAMNet.

The following sections discuss:

- Testing Variables and Parameters
- Architectural Delay Points
- DIS vs. DIS-Lite
- Delay Compensation
- Dead-Reckoning

3.8.1 Testing Variables and Parameters

One of the main variables during testing was the WAN network traffic. The network loading was varied by choosing four loading points [DORIS93]. Loading was accomplished by using one piloted and three digital players (on each LAN). The first loading level had all players flying straight and level. The second loading level had one digital player performing a high-G, high-PDU producing maneuver. The third loading level had two digital players performing the maneuver, and the third loading level had all three digital players performing the maneuver. Other parameters for testing included the three network architectures, DIS 2.0.4 and DIS-Lite protocols, delay compensation, and dead reckoning algorithm thresholds (varied for the local node testing).

Simulation Data	SNAP Data	Code Timings in SCRAMNet
Aircraft X	PDU's leaving LAN1	Start of frame to aircraft model done
Aircraft Y	PDU's arriving LAN2	Time to package and send aircraft data to NIU
Aircraft Z	Stick	NIU LAN receive to NIU WAN transmit
Aircraft U	Network loading	NIU WAN receive to NIU LAN transmit
Aircraft V	Aircraft Position	Time to receive from NIU and set aircraft data
Aircraft W		Current WAN delay
Aircraft AX		Gateway performance timings
Aircraft AY		
Aircraft AZ		
Aircraft Phi		
Aircraft Theta		
Aircraft PSI		
Aircraft p		
Aircraft q		
Aircraft r		

Table 8 - Data Recorded During Each Experiment

Table 8 summarizes the data that was recorded during each experiment. Aircraft data was collected to calculate errors and to determine when a new PDU arrived. A change in the remote aircraft's rate data for the current dead reckoning algorithm identified when a new PDU

arrived. SNAP recorded various types of data (PDUs, state variable, end-to-end, etc.) to determine network delay times. The code timings were recorded to determine the NIU and gateway performances (since these are software implemented).

In addition, the SNAP computer recorded the following data from SCRAMNet at a 320KB offset.

- Aircraft position, roll angle, and roll rate
- Other piloted aircraft's position
- Time when aircraft models finished on SELs
- Time when SELs write data into SCRAMNet for NIUs
- Time when NIUs start reading the data from the SELs
- Time when NIUs send PDU
- Time when NIUs finish receiving PDUs from the WAN/Gateway
- Time when NIUs write data into SCRAMNet for SELs
- Time when Gateways receive aircraft data from the LAN
- Time when Gateways send PDUs on the WAN
- Time when Gateways finish receiving PDUs from the WAN
- Time when Gateways send data on the LAN

Following is a discussion of the recordings made by each architecture:

- Simple Ethernet Architecture SEL/SNAP Recordings
- Ethernet with Gateways Architecture SEL/SNAP Recordings
- SCRAMNet Architecture SEL/SNAP Recordings

3.8.1.1 Simple Ethernet Architecture SEL/SNAP Recordings

Figure 13 displays the various data that each SNAP collected under each set of experiments for the first architecture. Note that EVDAS and SEL input data is collected during end-to-end testing, when a stick input is introduced from SNAP into the simulation, and the resulting visual effect is recording on the OTW display using EVDAS. Also, only one SNAP was used to collect SCRAMNet data since there was only one physical SCRAMNet ring - it was split virtually into two rings for the two LANs. Set one and two are the non-maneuvering case, and set three and four are the end-to-end case.

SNAP #1				
Set	PDUs	SCRAMNet	EVDAS	SEL Input
1	yes	no	no	no
2	yes	no	no	no
3	yes	no	yes	yes
4	yes	no	yes	yes

SNAP #2				
Set	PDUs	SCRAMNet	EVDAS	SEL Input
1	yes	yes	no	no
2	yes	yes	no	no
3	yes	yes	yes	yes
4	yes	yes	yes	yes

Figure 13 - Simple Ethernet Architecture SEL/SNAP Recordings

3.8.1.2 Ethernet with Gateways Architecture SEL/SNAP Recordings

Figure 14 displays the various data that each SNAP collected under each set of experiments for the second architecture. The data collected is similar to that collected in the previous architecture. Set one and two are the non-maneuvering case, and set three and four are the end-to-end case.

SNAP #1				
Set	PDUs	SCRAMNet	EVDAS	SEL Input
1	yes	no	no	no
2	yes	no	no	no
3	yes	no	yes	yes
3	yes	no	yes	yes

SNAP #2				
Set	PDUs	SCRAMNet	EVDAS	SEL Input
1	yes	yes	no	no
2	yes	yes	no	no
3	yes	yes	yes	yes
4	yes	yes	yes	yes

Figure 14 - Ethernet with Gateways Architecture SEL/SNAP Recordings

3.8.1.3 SCRAMNet Architecture SEL/SNAP Recordings

Figure 15 displays the various data that each SNAP collected under each set of experiments for the second architecture. The data collected is similar to that collected in the previous architecture. Set one and two are the non-maneuvering case, and set three and four are the end-to-end case.

SNAP #1				
Set	PDUs	SCRAMNet	EVDAS	SEL Input
1	yes	no	no	no
2	yes	no	no	no
3	yes	no	yes	yes
4	yes	no	yes	yes

SNAP #2				
Set	PDUs	SCRAMNet	EVDAS	SEL Input
1	yes	yes	no	no
2	yes	yes	no	no
3	yes	yes	yes	yes
4	yes	yes	yes	yes

Figure 15 - SCRAMNet Architecture SEL/SNAP Recordings

3.8.2 Architectural Delay Points

Latency, or delays, are present at several different points in each architecture. These delay points include normal architectural delays such as memory moves, transmission delays, etc.. The delay points were measured during testing using code timings with the results being listed later in the report. Following are detailed descriptions of the possible delay points within each network configuration:

- Simple Ethernet Architecture
- Ethernet with Gateways Architecture
- SCRAMNet Architecture

3.8.2.1 Simple Ethernet Architecture Delays

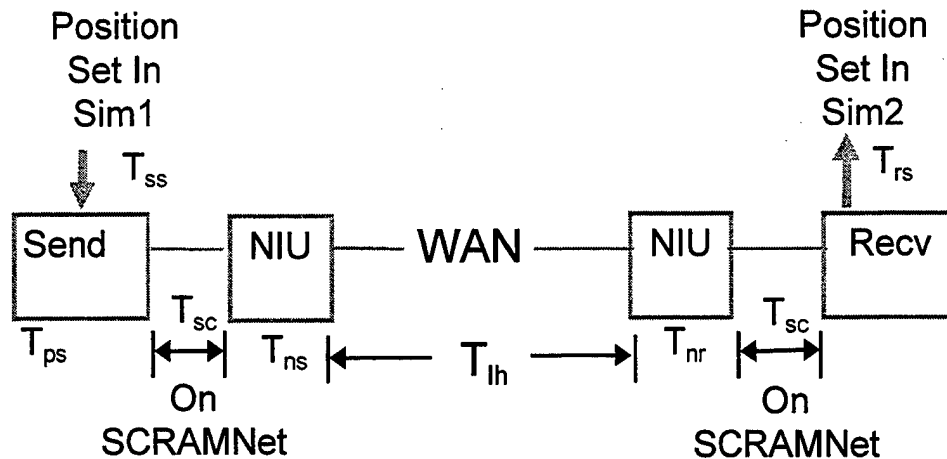


Figure 16 - Simple Ethernet Architecture Delays

Figure 16 shows a block diagram of the Simple Ethernet Architecture's delay measurement path. The sources of delay are:

T_{ss} – the time between new data being written to memory and calling the code to send data to the NIU (depends on the simulation schedule),

T_{ps} – the time taken to package the data and copy it into SCRAMNet memory. The Encore RSX can transfer data to SCRAMNet at a rate of 4 KB per ms, so the total time depends upon the amount of data transferred. The delay due to the transfer of data into SCRAMNet for this testing is essentially zero because of the minimum amount of data transferred.

T_{sc} – transmission delay for SCRAMNet – essentially zero (a few ns) due to SCRAMNet's shared memory architecture.

T_{ns} – the time taken to read and process the simulation data from SCRAMNet and transmit a PDU (depends on NIU implementation).

T_{lh} – the time taken to traverse the long haul network. In this study, T_{lh} was simulated using a pseudo random time delay with a Gaussian distribution [SWAINE95] with an initial long haul mean delay of 45ms and a standard deviation of 10ms [ZEH95].

T_{nr} – time taken to receive and process PDUs and send data to the receiving simulator.

T_{rs} – the time it takes to read the SCRAMNet data, process it, and write the data into the simulation's memory.

A typical value for the sum of T_{ss} , T_{ps} , T_{sc} , and T_{ns} (the time from updated state to PDU transmission) can be estimated from [ZEH95] as 40ms. In a similar fashion, a typical value for the sum of T_{nr} and T_{rs} (receipt of PDU to update remote simulator's state in local simulator) can be estimated as 50ms. This time can vary as much as one simulation frame time-unit since T_{nr} is a sampling process dependent upon network loading (heavier loading may cause an additional frame). Also, for two simulators on the same LAN, T_{lh} can be assumed to be either 0 or 1 simulation frame time unit because of sampling uncertainty.

3.8.2.2 Ethernet with Gateways Architecture Delays

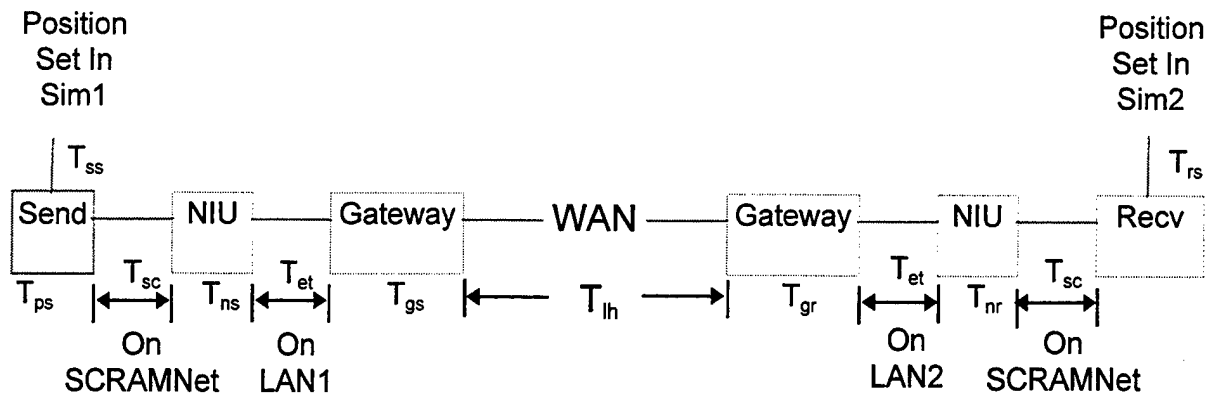


Figure 17 - Ethernet with Gateways Architecture Delays

Figure 17 shows a block diagram of the second architecture's delay measurement path. The additional delays incurred by this architecture over those in the first architecture (Figure 16) are two Ethernet transmissions on the LANs (T_{et}) and the delay from both gateways.

The two gateway delays, T_{gs} and T_{gr} , depend upon the gateway implementation, the network loading, and the synchronization between the gateway and simulation. (incurring an additional delay of 0 to 1 frame time unit due to sampling uncertainty).

The data path between two simulations on the same LAN for this architecture looks like the Simple Ethernet Architecture (Figure 16), with T_{lh} approximately equal to 0 since it is on a LAN. The LAN loading is assumed to be sufficiently low to make this approximation (since the gateway filters non-necessary packets).

3.8.2.3 SCRAMNet Architecture Delays

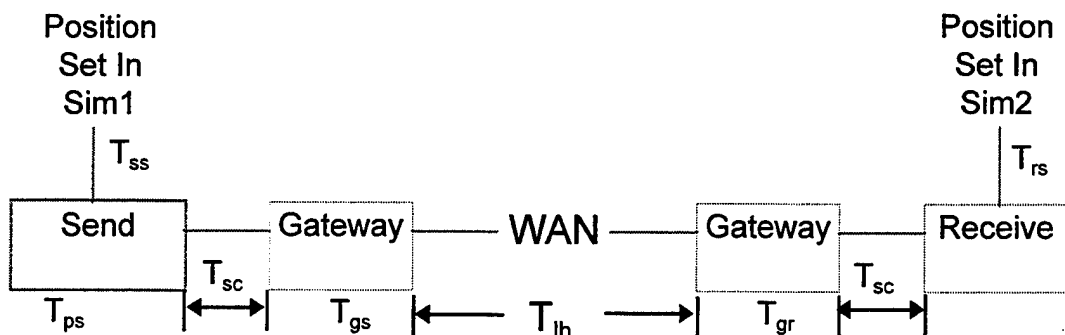


Figure 18 - SCRAMNet Architecture Delays

Figure 18 shows a block diagram of the third architecture's delay measurement path. This architecture removes the two LAN Ethernet transmission delays and the delay associated with the time to package the simulation data and send it by removing the NIU dedicated to the piloted player.

The data path between two local simulations for this architecture looks similar to those in Figure 17, but without the gateways or LAN. Therefore, the total local delay is a factor of the Encore write delay and SCRAMNet transmission - the total of which would be one simulation frame time due to scheduling of the SCRAMNet reads and writes of the simulations.

3.8.3 DIS vs. DIS-Lite

The goal of this block of tests (shown in Table 9) was to determine if DIS-Lite decreases the Ethernet bandwidth needed for a DIS exercise, to compare NIU and Gateway performance, and to ensure that the positional accuracy was preserved. The tests consisted of 4 sets, each set containing 4 experiments for the 4 network loads. The first 2 sets had the piloted player flying straight and level at a trim condition and no maneuvers. One set used DIS and the other DIS-Lite. These sets showed bandwidth usage differences between the 2 protocols for what should have been exactly the same PDU outputs. The next 2 sets measured the end-to-end delays by using SNAP to generate a step input in roll to one aircraft's stick and to measure the movement of that aircraft on the second aircraft's out-the-window display. Each aircraft flew at a trim condition.

Set	Description	Protocol	Piloted #1 Maneuver	Piloted #2 Maneuver
1	Non-maneuvering piloted	DIS	trim	trim
2	Non-maneuvering piloted	DIS-Lite	trim	trim
3	End to end	DIS	step input	trim
4	End to end	DIS-Lite	step input	trim

Table 9 - DIS vs. DIS-Lite Tests

3.8.4 Delay Compensation

The goal of this block of tests (shown in Table 10) was to determine if delay compensation techniques would allow us to improve simulation positional accuracy over the LAN and WAN. We know from [SWAINE95], that absolute timestamping is necessary. Utilizing absolute timestamping allowed delay compensation techniques to be used to update the position in a PDU that just arrived to the current time. Delay compensation was performed on the Silicon Graphics computers by dead reckoning the aircraft's position up to the current time plus one frame time to make up for the time it took for the data to get from the NIU to the Encore computers. The 4 sets of tests for the DIS vs. DIS-Lite testing were repeated utilizing delay compensation. The data from these two tests was used to determine if delay compensation improves simulation accuracies.

Set	Description	Protocol	Piloted #1 Maneuver	Piloted #2 Maneuver
1	Non-maneuvering piloted	DIS	trim	trim
2	Non-maneuvering piloted	DIS-Lite	trim	trim
3	End to end	DIS	step input	trim
4	End to end	DIS-Lite	step input	trim

Table 10 - Delay Compensation Tests

3.8.5 Dead Reckoning Thresholds

The goal of this block of tests (shown in Table 11) was to show what effect the dead reckoning thresholds have upon the positional accuracies and upon the NIU and Gateway performance. This block of tests repeated the tests performed in the first two testing blocks (DIS vs. DIS-Lite and Delay Compensation) but with different dead reckoning thresholds on the LAN. This block was only run on the two architectures that use Gateways because the local simulations shouldn't set their dead reckoning thresholds to 0 when directly attached to the DIS network [ZEH95].

During the tests where the LAN dead reckoning thresholds were set to three degrees rotational, one meter translational, and five seconds (3,1,5), the Gateway did not dead reckon the LAN traffic - PDUs were passed through to the WAN. Only WAN traffic was filtered. The gateway dead reckoned traffic in both directions during the (0,0,0) LAN threshold tests so that the traffic going onto the WAN had (3,1,5) thresholds and the traffic going onto the LAN sent an update each frame.

The tests from the first two blocks with the Gateway architectures had all the LAN dead reckoning thresholds, rotational, translation, and time, set to zero. Therefore, only the sets of test where the thresholds are set to 3,1,5 were run.

Set	Description	Protocol	Piloted #1 Maneuver	Piloted #2 Maneuver	Compensation	LAN Thresholds
1	Non-maneuvering	DIS	trim	trim	no	0,0,0
2	Non-maneuvering	DIS-Lite	trim	trim	no	0,0,0
3	Non-maneuvering	DIS	trim	trim	yes	0,0,0
4	Non-maneuvering	DIS-Lite	trim	trim	yes	0,0,0
5	End to end	DIS	step input	trim	no	0,0,0
6	End to end	DIS-Lite	step input	trim	no	0,0,0
7	End to end	DIS	step input	trim	yes	0,0,0
8	End to end	DIS-Lite	step input	trim	yes	0,0,0

Table 11 - Dead Reckoning Thresholds Tests

3.9 Step 6: Conduct Evaluation Test Runs

Numerous test runs were conducted to account for the different variables in question (architectures, protocols, thresholds, delay compensations, etc.). A type of code was developed using the SNAP computer data files to determine from the file name which test and what particular variables that data file was testing. Table 12 displays the key to that file name code. For example, the SNAP file named E142t3l contains the following information: Snap #1 recorded this file during end-to-end testing, the maximum loading case was being performed, the architecture being tested was the Ethernet with Gateways Architecture, the thresholds were set to 3-1-5, no delay compensation was in effect (due to the lack of the letter 'd'), and the DIS-Lite protocol was being used. For another example, the SNAP file named S111t0 contains the following information: SNAP#1 recorded this file (non end-to-end testing), there was no loading being performed, the Simple Ethernet Architecture was

being tested, the thresholds were set to 0-0-0, and the lack of any 'd' or 'l' indicate that there was no delay compensation in effect and the protocol being used was DIS 2.0.5.

File Name Portion	Notation	Meaning
SNAP Number	S1	SNAP #1 - Local Testing
	S2	SNAP #2 - Local Testing
	E1	SNAP #1 - End-to-End Testing
	E2	SNAP #2 - End-to-End Testing
Loading	1	no load - all digital aircraft straight and level
	2	low load - one digital aircraft perform high-G turn
	3	medium load - two digital aircraft perform high-G turn
	4	high load - three digital aircraft perform high-G turn
Architecture	1	Simple Ethernet Architecture
	2	Ethernet with Gateways Architecture
	3	SCRAMNet Architecture
Threshold	t0	0,0,0
	t3	3,1,5
Delay Compensation	(nothing)	No Delay Compensation
	d	Delay Compensation on
DIS Lite	(nothing)	DIS 2.0.5 Protocol Used
	l	DIS-Lite Protocol Used

Table 12 - SNAP Test Filename Legend

Table 13 displays all the tests for the NETS program. The table shows the test run number, the date performed, the SNAP test file name (which can be decoded by using Table 12), the simulation test file names (recording code timings, aircraft state data, and accuracy data), the loading performed, the architecture being tested, the threshold conditions, the delay compensation status and the protocol being used. Note that most of this information can be derived from the SNAP test file name, and that the tests were run over a period of 4 days. Also note that Test number 24 has no simulation test file. This is due to the fact that SNAP couldn't handle the data load for this particular test - despite repeated attempts.

Test	Date	SNAP Test File Name	Sim Test File Name	Load	Architecture	Threshold	Delay Comp	Protocol
1	12-May	SN11t3.dat	J12May.001/G12May.001	1	Ethernet	3,1,5	No Comp	DIS 2.0.5
2	12-May	SN21t3.dat	J12May.003/G12May.003	2	Ethernet	3,1,5	No Comp	DIS 2.0.5
3	12-May	SN31t3.dat	J12May.002/G12May.002	3	Ethernet	3,1,5	No Comp	DIS 2.0.5
4	12-May	SN41t3.dat	J12May.004/G12May.004	4	Ethernet	3,1,5	No Comp	DIS 2.0.5
5	12-May	SN11t3l.dat	J12May.005/G12May.005	1	Ethernet	3,1,5	No Comp	DIS-Lite
6	12-May	SN21t3l.dat	J12May.006/G12May.006	2	Ethernet	3,1,5	No Comp	DIS-Lite
7	12-May	SN31t3l.dat	J12May.007/G12May.007	3	Ethernet	3,1,5	No Comp	DIS-Lite
8	12-May	SN41t3l.dat	J12May.008/G12May.008	4	Ethernet	3,1,5	No Comp	DIS-Lite
9	12-May	SN11t3d.dat	J12May.013/G12May.013	1	Ethernet	3,1,5	Delay Comp	DIS 2.0.5
10	12-May	SN21t3d.dat	J12May.014/G12May.014	2	Ethernet	3,1,5	Delay Comp	DIS 2.0.5
11	12-May	SN31t3d.dat	J12May.015/G12May.015	3	Ethernet	3,1,5	Delay Comp	DIS 2.0.5
12	12-May	SN41t3d.dat	J12May.016/G12May.016	4	Ethernet	3,1,5	Delay Comp	DIS 2.0.5
13	12-May	SN11t3dl.dat	J12May.009/G12May.009	1	Ethernet	3,1,5	Delay Comp	DIS-Lite
14	12-May	SN21t3dl.dat	J12May.010/G12May.010	2	Ethernet	3,1,5	Delay Comp	DIS-Lite
15	12-May	SN31t3dl.dat	J12May.011/G12May.011	3	Ethernet	3,1,5	Delay Comp	DIS-Lite
16	12-May	SN41t3dl.dat	J12May.012/G12May.012	4	Ethernet	3,1,5	Delay Comp	DIS-Lite
17	14-May	SN12t0.dat	J14May.001/G14May.001	1	Ether w/ Gate	0,0,0	No Comp	DIS 2.0.5
18	14-May	SN22t0.dat	J14May.002/G14May.002	2	Ether w/ Gate	0,0,0	No Comp	DIS 2.0.5
19	14-May	SN32t0.dat	J14May.003/G14May.003	3	Ether w/ Gate	0,0,0	No Comp	DIS 2.0.5
20	14-May	SN42t0.dat	J14May.004/G14May.004	4	Ether w/ Gate	0,0,0	No Comp	DIS 2.0.5
21	14-May	SN12t0l.dat	J14May.005/G14May.005	1	Ether w/ Gate	0,0,0	No Comp	DIS-Lite
22	14-May	SN22t0l.dat	J14May.006/G14May.006	2	Ether w/ Gate	0,0,0	No Comp	DIS-Lite
23	14-May	SN32t0l.dat	J14May.007/G14May.007	3	Ether w/ Gate	0,0,0	No Comp	DIS-Lite
24	14-May	SN42t0l.dat	**N/A**	4	Ether w/ Gate	0,0,0	No Comp	DIS-Lite
25	14-May	SN12t0d.dat	J14May.008/G14May.008	1	Ether w/ Gate	0,0,0	Delay Comp	DIS 2.0.5
26	14-May	SN22t0d.dat	J14May.009/G14May.009	2	Ether w/ Gate	0,0,0	Delay Comp	DIS 2.0.5
27	14-May	SN32t0d.dat	J14May.010/G14May.010	3	Ether w/ Gate	0,0,0	Delay Comp	DIS 2.0.5
28	14-May	SN42t0d.dat	J14May.011/G14May.011	4	Ether w/ Gate	0,0,0	Delay Comp	DIS 2.0.5
29	14-May	SN12t0dl.dat	J14May.012/G14May.012	1	Ether w/ Gate	0,0,0	Delay Comp	DIS-Lite
30	14-May	SN22t0dl.dat	J14May.013/G14May.013	2	Ether w/ Gate	0,0,0	Delay Comp	DIS-Lite
31	14-May	SN32t0dl.dat	J14May.014/G14May.014	3	Ether w/ Gate	0,0,0	Delay Comp	DIS-Lite
32	14-May	SN42t0dl.dat	J14May.015/G14May.015	4	Ether w/ Gate	0,0,0	Delay Comp	DIS-Lite
33	14-May	SN12t3.dat	J14May.024/G14May.024	1	Ether w/ Gate	3,1,5	No Comp	DIS 2.0.5
34	14-May	SN22t3.dat	J14May.025/G14May.025	2	Ether w/ Gate	3,1,5	No Comp	DIS 2.0.5
35	14-May	SN32t3.dat	J14May.026/G14May.026	3	Ether w/ Gate	3,1,5	No Comp	DIS 2.0.5
36	14-May	SN42t3.dat	J14May.027/G14May.027	4	Ether w/ Gate	3,1,5	No Comp	DIS 2.0.5
37	14-May	SN12t3l.dat	J14May.028/G14May.028	1	Ether w/ Gate	3,1,5	No Comp	DIS-Lite
38	14-May	SN22t3l.dat	J14May.029/G14May.029	2	Ether w/ Gate	3,1,5	No Comp	DIS-Lite
39	14-May	SN32t3l.dat	J14May.030/G14May.030	3	Ether w/ Gate	3,1,5	No Comp	DIS-Lite
40	14-May	SN42t3l.dat	J14May.031/G14May.031	4	Ether w/ Gate	3,1,5	No Comp	DIS-Lite
41	14-May	SN13t3.dat	J14May.016/G14May.016	1	SCRAMNet	3,1,5	No Comp	DIS 2.0.5
42	14-May	SN23t3.dat	J14May.017/G14May.017	2	SCRAMNet	3,1,5	No Comp	DIS 2.0.5
43	14-May	SN33t3.dat	J14May.018/G14May.018	3	SCRAMNet	3,1,5	No Comp	DIS 2.0.5
44	14-May	SN43t3.dat	J14May.019/G14May.019	4	SCRAMNet	3,1,5	No Comp	DIS 2.0.5
45	14-May	SN13t3l.dat	J14May.020/G14May.020	1	SCRAMNet	3,1,5	No Comp	DIS-Lite
46	14-May	SN23t3l.dat	J14May.021/G14May.021	2	SCRAMNet	3,1,5	No Comp	DIS-Lite
47	14-May	SN33t3l.dat	J14May.022/G14May.022	3	SCRAMNet	3,1,5	No Comp	DIS-Lite
48	14-May	SN43t3l.dat	J14May.023/G14May.023	4	SCRAMNet	3,1,5	No Comp	DIS-Lite
49	15-May	EN11t3.dat	J15May.001/G15May.001	1	Ethernet	3,1,5	No Comp	DIS 2.0.5
50	15-May	EN21t3.dat	J15May.002/G15May.002	2	Ethernet	3,1,5	No Comp	DIS 2.0.5
51	15-May	EN31t3.dat	J15May.003/G15May.003	3	Ethernet	3,1,5	No Comp	DIS 2.0.5
52	15-May	EN41t3.dat	J15May.004/G15May.004	4	Ethernet	3,1,5	No Comp	DIS 2.0.5
53	15-May	EN11t3l.dat	J15May.006/G15May.006	1	Ethernet	3,1,5	No Comp	DIS-Lite
54	15-May	EN21t3l.dat	J15May.007/G15May.007	2	Ethernet	3,1,5	No Comp	DIS-Lite
55	15-May	EN31t3l.dat	J15May.008/G15May.008	3	Ethernet	3,1,5	No Comp	DIS-Lite

56	15-May	EN41t3l.dat	J15May.009/G15May.009	4	Ethernet	3,1,5	No Comp	DIS-Lite
57	15-May	EN11t3d.dat	J15May.010/G15May.010	1	Ethernet	3,1,5	Delay Comp	DIS 2.0.5
58	15-May	EN21t3d.dat	J15May.011/G15May.011	2	Ethernet	3,1,5	Delay Comp	DIS 2.0.5
59	15-May	EN31t3d.dat	J15May.012/G15May.012	3	Ethernet	3,1,5	Delay Comp	DIS 2.0.5
60	15-May	EN41t3d.dat	J15May.013/G15May.013	4	Ethernet	3,1,5	Delay Comp	DIS 2.0.5
61	15-May	EN11t3dl.dat	J15May.014/G15May.014	1	Ethernet	3,1,5	Delay Comp	DIS-Lite
62	15-May	EN21t3dl.dat	J15May.015/G15May.015	2	Ethernet	3,1,5	Delay Comp	DIS-Lite
63	15-May	EN31t3dl.dat	J15May.016/G15May.016	3	Ethernet	3,1,5	Delay Comp	DIS-Lite
64	15-May	EN41t3dl.dat	J15May.017/G15May.017	4	Ethernet	3,1,5	Delay Comp	DIS-Lite
65	15-May	EN12t0.dat	J15May.018/G15May.018	1	Ether w/ Gate	0,0,0	No Comp	DIS 2.0.5
66	15-May	EN22t0.dat	J15May.019/G15May.019	2	Ether w/ Gate	0,0,0	No Comp	DIS 2.0.5
67	15-May	EN32t0.dat	J15May.020/G15May.020	3	Ether w/ Gate	0,0,0	No Comp	DIS 2.0.5
68	15-May	EN42t0.dat	J15May.021/G15May.021	4	Ether w/ Gate	0,0,0	No Comp	DIS 2.0.5
69	15-May	EN12t0l.dat	J15May.022/G15May.022	1	Ether w/ Gate	0,0,0	No Comp	DIS-Lite
70	15-May	EN22t0l.dat	J15May.023/G15May.023	2	Ether w/ Gate	0,0,0	No Comp	DIS-Lite
71	15-May	EN32t0l.dat	J15May.024/G15May.024	3	Ether w/ Gate	0,0,0	No Comp	DIS-Lite
72	15-May	EN42t0l.dat	J15May.025/G15May.025	4	Ether w/ Gate	0,0,0	No Comp	DIS-Lite
73	15-May	EN12t0d.dat	J15May.026/G15May.026	1	Ether w/ Gate	0,0,0	Delay Comp	DIS 2.0.5
74	15-May	EN22t0d.dat	J15May.027/G15May.027	2	Ether w/ Gate	0,0,0	Delay Comp	DIS 2.0.5
75	15-May	EN32t0d.dat	J15May.028/G15May.028	3	Ether w/ Gate	0,0,0	Delay Comp	DIS 2.0.5
76	15-May	EN42t0d.dat	J15May.029/G15May.029	4	Ether w/ Gate	0,0,0	Delay Comp	DIS 2.0.5
77	15-May	EN12t0dl.dat	J15May.030/G15May.030	1	Ether w/ Gate	0,0,0	Delay Comp	DIS-Lite
78	15-May	EN22t0dl.dat	J15May.031/G15May.031	2	Ether w/ Gate	0,0,0	Delay Comp	DIS-Lite
79	15-May	EN32t0dl.dat	J15May.032/G15May.032	3	Ether w/ Gate	0,0,0	Delay Comp	DIS-Lite
80	15-May	EN42t0dl.dat	J15May.033/G15May.033	4	Ether w/ Gate	0,0,0	Delay Comp	DIS-Lite
81	15-May	EN13t3.dat	J15May.034/G15May.034	1	SCRAMNet	3,1,5	No Comp	DIS 2.0.5
82	15-May	EN23t3.dat	J15May.035/G15May.035	2	SCRAMNet	3,1,5	No Comp	DIS 2.0.5
83	15-May	EN33t3.dat	J15May.036/G15May.036	3	SCRAMNet	3,1,5	No Comp	DIS 2.0.5
84	15-May	EN43t3.dat	J15May.037/G15May.037	4	SCRAMNet	3,1,5	No Comp	DIS 2.0.5
85	15-May	EN13t3l.dat	J15May.038/G15May.038	1	SCRAMNet	3,1,5	No Comp	DIS-Lite
86	15-May	EN23t3l.dat	J15May.039/G15May.039	2	SCRAMNet	3,1,5	No Comp	DIS-Lite
87	15-May	EN33t3l.dat	J15May.040/G15May.040	3	SCRAMNet	3,1,5	No Comp	DIS-Lite
88	15-May	EN43t3l.dat	J15May.041/G15May.041	4	SCRAMNet	3,1,5	No Comp	DIS-Lite
89	16-May	EN11t0d.dat	J16May.001/G16May.001	1	Ethernet	0,0,0	Delay Comp	DIS 2.0.5
90	16-May	EN11t0dl.dat	J16May.002/G16May.002	1	Ethernet	0,0,0	Delay Comp	DIS-Lite
91	16-May	EN13t0.dat	J16May.003/G16May.003	1	SCRAMNet	0,0,0	No Comp	DIS 2.0.5
92	16-May	EN13t0l.dat	J16May.004/G16May.004	1	SCRAMNet	0,0,0	No Comp	DIS-Lite

Table 13 - NETS Test Runs

3.10 Step 7: Reduce Test Data and Analyze

Each test run resulted in megabytes worth of data, with over 2GB worth of data taken during the entire test phase. To manage this large amount of data, several PERL scripts were developed to reduce the data into a series of totals, averages, standard deviations, minimums, maximums, etc. The results of this data reduction are shown in Appendix A - Simulation Recorded Data. These reduced data files are also described in the appendix. This data is reduced further still (for readability) in the following sections. The following sections discuss:

- Simulation Test Results
 - Network Case
 - Simple Ethernet Architecture Data
 - Ethernet with Gateways Architecture Data
 - SCRAMNet Architecture Data
 - End-to-End Case
 - Simple Ethernet Architecture Data
 - Ethernet with Gateways Architecture Data
 - SCRAMNet Architecture Data
- Simulation Code Timings

3.10.1 Simulation Test Results

The following sections discuss the tables recording NETS simulation test data for all three architectures under normal operating conditions (network case) and under special end-to-end testing conditions. The special end-to-end conditions were the end-to-end tests with an introduced stick input and measurements of the OTW visual system changes.

3.10.1.1 Network Case - First Architecture (Simple Ethernet Architecture)

Table 14 shows the accuracy and network data for the Simple Ethernet Architecture (non end-to-end). No zero threshold tests were performed since simulations would not normally send all possible data at every simulation time frame across a Wide Area Network. Each run lasted ten seconds.

The first column displays the SNAP filename case number (the decoding was discussed earlier in Table 12).

The second and third columns show the accuracy data for both piloted simulators. The terms J and G stand for SEL-J and SEL-G (the simulation computers). This data (in feet) shows the positional error that one piloted simulator had when it recorded information from the other piloted simulator. Note that this data actually represents one simulator time frame, since the aircraft were going 646.41 ft/s (Mach 0.6), and the time frame is .002 sec, the possible error would be 12.92 ft. Note that while DIS and DIS-Lite produced very close accuracy values, the DIS values were slightly better than the DIS-Lite values. This is most likely due to the Dead Reckoning algorithms changing on the fly in DIS-Lite. Note also that the Delay Compensation values are a significant improvement over the standard accuracy values.

The next four columns show the accuracy data for a the piloted player's recording for four main digital player cases. The 'N/A' data points are for cases when there were no digital aircraft performing during that case. The first case is for digital aircraft flying straight and level that was on the same LAN. The next case was for a digital aircraft flying straight and level that was on a different LAN (i.e. through the WAN). The third case was for a digital aircraft performing the high-

G maneuver that was on the same LAN. The fourth case was for a digital aircraft performing the high-G maneuver that was on a different LAN (i.e. through the WAN). Note that the maneuvers were recordings, and thus produced the same results each time. The non-maneuvering digital aircraft velocity was 300ft/sec, and the maneuvering digital aircraft velocity ranged from a maximum of 841.45 ft/sec to a minimum of 426.93 ft/sec (averaging 564.03 ft/sec). This translates to errors of 6ft for the non-maneuvering aircraft, and errors ranging from 16.83 ft to 8.54 ft (average 11.28 ft). The Delay Compensation didn't work as well for some of the cross-LAN traffic. It was realized well after testing that the accelerations being sent by digital aircraft PDUs were body coordinate accelerations instead of inertial coordinates. This could reasonably cause greater accuracy errors, and greater errors for the Delay Compensation since it was dead-reckoning the wrong accelerations further into time. Also, due to the larger dead-reckoning errors, more PDUs might have been sent out. Asterisks (*) mark unexpected data - possibly due to the reason listed above, and/or due to the problems with the DIS-Lite Query Response PDU (a problem that MaK technologies has since fixed - see Lessons Learned).

The next two columns show the SNAP-recorded averages over the WAN, which for this case, effectively measures the WAN Network Simulator. The data confirms that the WAN Network Simulator, which was programmed to operate at a mean of 45ms and a Standard deviation of 10ms was operating within parameters. The extra few ms are due to overhead from typical sources such as the Operating System, Interfaces, Input/Output, etc.

The next two columns show the WAN Bandwidth in Kb/sec and the number of WAN packets that were sent. Note that these numbers increase with loading (as expected). It is interesting to note that even though the piloted player was in a trim condition, and the digital aircraft were performing a recorded maneuver, the different numbers of PDUs were released. The only possible solution that comes to mind might be GPS timestamping. The GPS timer was implemented in SCRAMNet and used two blocks due to its size. It is possible the right portion (least significant) was being changed during reads - which would trigger dead-reckoning time thresholds.

The next two columns show the DIS-Lite Bandwidth and packet count savings. Since DIS-Lite is designed to only send out information when updated - and only that information, then one might expect DIS-Lite to perform better than the DIS protocol. The percentages displayed generally confirm this statement. DIS-Lite typically sent out smaller packets (saving bandwidth), and fewer packets (reducing the packet count). Note that DIS-Lite saves more bandwidth as the network is more heavily loaded.

Case	Piloted G data at J's sim accuracy (ft)	Piloted J data at G's sim accuracy (ft)	Digital on LAN1		Digital on LAN2		Digital on LAN1		Digital on LAN2		LAN1 to LAN2 Network		Total # WAN Packets	DIS-Lite BW Savings	DIS-Lite Packet Savings
			data at piloted on LAN1 accuracy (ft) (non-maneuver)	accuracy (ft) (non-maneuver)	data at piloted on LAN1 accuracy (ft) (non-maneuver)	accuracy (ft) (non-maneuver)	data at piloted on LAN1 accuracy (ft) (maneuvering)	accuracy (ft) (maneuvering)	SNAP Net Delay Avg. (ms)	SNAP Net Stdev (ms)	Kb/s WAN BW				
s11113	12.89	12.49	5.76	5.72	N/A	N/A	N/A	N/A	49.5	11.3	5.5	41	N/A	N/A	N/A
s12113	12.90	12.54	5.74	5.74	14.55	20.10	20.10	20.10	49.2	9.7	113.9	1028	N/A	N/A	N/A
s13113	12.86	12.55	5.75	5.74	15.42	21.12	21.12	21.12	51.7	10.7	263.4	2005	N/A	N/A	N/A
s14113	12.90	12.54	N/A	N/A	15.90	20.86	20.86	20.86	48.6	10.0	387.2	3019	N/A	N/A	N/A
s11113l	13.09	12.74	5.80	23.80*	N/A	N/A	N/A	N/A	48.9	12.2	4.2	37	23.6%	9.8%	9.8%
s12113l	13.10	12.79	5.79	12.11	15.06	21.21	21.21	21.21	50.5	10.6	64.0	959	43.8%	6.7%	6.7%
s13113l	13.11	12.74	5.83	20.78*	15.45	20.89	20.89	20.89	48.9	12.3	146.6	1810	44.3%	9.7%	9.7%
s14113l	12.85	12.41	N/A	N/A	16.01	21.06	21.06	21.06	48.9	12.3	193.1	2491	50.1%	17.5%	17.5%
s11113d	1.00	1.10	0.24	0.25	N/A	N/A	N/A	N/A	49.2	10.5	4.2	32	N/A	N/A	N/A
s12113d	1.01	1.15	0.17	0.17	17.15	17.14	17.14	17.14	50.5	10.6	142.6	1022	N/A	N/A	N/A
s13113d	1.02	1.14	0.16	0.16	17.08	16.62	16.62	16.62	49.1	9.9	276.6	2023	N/A	N/A	N/A
s14113d	1.00	1.17	N/A	N/A	17.22	17.28	17.28	17.28	50.0	10.2	398.1	3014	N/A	N/A	N/A
s11113dl	1.29	1.23	0.18	17.82*	N/A	N/A	N/A	N/A	49.4	9.5	3.8	37	9.5%	-15.6%	-15.6%
s12113dl	1.55	1.51	0.19	11.07*	7.30	17.18	17.18	17.18	51.2	15.4	74.4	960	47.8%	6.1%	6.1%
s13113dl	1.23	1.31	0.19	23.79*	8.01	16.87	16.87	16.87	47.9	10.0	137.8	1740	50.2%	14.0%	14.0%
s14113dl	1.23	1.29	N/A	N/A	8.11	16.91	16.91	16.91	47.6	10.0	208.9	2497	47.5%	17.2%	17.2%

Table 14 - Simple Ethernet Architecture - Network Results

3.10.1.2 Network Case - Second Architecture (Ethernet with Gateways Architecture)

Table 15 shows the accuracy and network data for the Ethernet with Gateways Architecture (non end-to-end). The first seven columns and last four columns displayed are identical as those shown in Table 14. The eighth and ninth columns are similar to those in Table 14, except they also encompass the gateways. There are N/A values in these columns for the DIS-Lite cases due to the method used to implement the delay determinations. The NIU timestamp was put into an empty DIS field in the packet. This packet was dead-reckoned at the receiving gateway and the timestamp was pulled out and used by SNAP. Since DIS-Lite doesn't have any extra fields, this test couldn't be done with DIS-Lite packets. Refer to the code timing (Table 20) for NIU latencies during DIS-Lite. Many of the same comments and revelations mentioned in the previous architecture also apply to this one for these particular columns. This data series also contains the one case mentioned earlier where the loading overwhelmed the SNAP and SG machines.

The tenth and eleventh columns show, for a LAN (only one LAN's data is shown), the LAN Bandwidth in Kb/sec and the number of LAN packets that were sent. Note that these number increase with loading (as expected).

The next two columns show the DIS-Lite Bandwidth and packet count savings. Since DIS-Lite is designed to only send out information when updated - and only that information, then one might expect DIS-Lite to perform better than the DIS protocol. The percentages displayed generally confirm this statement. DIS-Lite typically sent out smaller packets (saving bandwidth), and fewer packets (reducing the packet count). These comparisons were done using recorded files, so the data sent on the network was the same. Note that DIS-Lite saves more bandwidth as the network is more heavily loaded. Also note that DIS-Lite does send out larger initial packets (Query Response PDU), than DIS, and since the tests were only conducted for the first 10 seconds of a simulation, the number of PDUs and Bandwidth savings is not as large as would be during a longer simulation.

While DIS-Lite savings were valid and reasonable over the LAN, the DIS-Lite bandwidth and packet savings data values over the WAN are problematic. However, the pattern of the data does indicate explanations of the high negative numbers. First, the worst numbers appear during the zero threshold tests. During these tests, packets were sent every frame (and not dead-reckoned) to the gateways. The gateways took this data and performed dead-reckoning. The gateways do not perform dead-reckoning when the thresholds were set to three. This combined with good DIS-Lite numbers on the LANs strongly indicates an implementation problem with the gateway when it dead-reckons. Note that even with the gateway implementation problems, DIS-Lite still performed significantly better with increased loads (a trend noticed in all DIS-Lite tests).

Case	Piloted G data at J's sim accuracy (ft)	Piloted J data at G's sim accuracy (ft)	Digital on LAN1 at piloted on LAN1 accuracy (ft) (non- maneuver)	Digital on LAN2 at piloted on LAN1 accuracy (ft) (non- maneuver)	Digital on LAN1 at piloted on LAN1 accuracy (ft) (maneuver)	Digital on LAN2 at piloted on LAN1 accuracy (ft) (maneuver)	LAN1 to LAN2 Network Delay (include gateway) Avg. (ms)	Net Sidev (ms)	Kb/s LAN BW	Total # LAN Packets	DIS-Lite BW Savings	DIS-Lite Packet Savings	Kb/s WAN BW	Total # WAN Packets	DIS-Lite BW Savings	DIS-Lite Packet Savings
s112i3	12.65	12.28	5.79	5.72	N/A	N/A	86.7	16.0	8	55	N/A	N/A	7.5	57	N/A	N/A
s122i3	12.81	12.44	5.77	5.75	27.10	27.10	89.5	14.5	141.1	945	N/A	N/A	130.0	947	N/A	N/A
s132i3	13.16	12.70	5.83	5.83	27.81	27.81	88.8	33.1	283.7	1892	N/A	N/A	261.0	1824	N/A	N/A
s142i3	12.79	12.48	N/A	N/A	28.01	28.01	88.4	25.0	410.2	2764	N/A	N/A	338.5	2467	N/A	N/A
s112i3i	13.10	12.74	8.79	35.68*	N/A	N/A	N/A	N/A	3.7	31	53.8%	43.6%	3.7	34	50.7%	40.4%
s122i3i	13.09	12.74	5.81	32.86*	27.42	27.42	N/A	N/A	82.0	908	41.9%	3.9%	76.0	888	41.5%	6.2%
s132i3i	12.89	12.82	5.77	18.54*	27.34	27.34	N/A	N/A	156.2	1647	44.9%	12.5%	129.1	1472	50.5%	19.3%
s142i3i	13.16	12.76	N/A	N/A	27.88	27.88	N/A	N/A	215.9	2394	47.4%	13.4%	172.1	2054	49.2%	16.7%
s112i0	12.62	12.32	5.92	5.67	N/A	N/A	90.1	22.0	272.9	2020	N/A	N/A	5.8	45	N/A	N/A
s122i0	12.68	12.29	5.92	5.58	27.21	27.21	86.4	17.8	300.6	2323	N/A	N/A	113.4	926	N/A	N/A
s132i0	12.82	12.48	5.92	5.74	27.42	27.42	85.7	16.8	373.4	2641	N/A	N/A	221.8	1686	N/A	N/A
s142i0	12.80	12.97	N/A	N/A	27.57	27.57	85.7	16.8	378.1	2921	N/A	N/A	299.0	2481	N/A	N/A
s112i0i	13.12	12.62	5.94	32.87*	N/A	N/A	N/A	N/A	145.9	1676	46.5%	17.0%	25.1	371	-332.8%	-724.4%
s122i0i	12.96	12.62	5.94	26.3*	27.42	27.42	N/A	N/A	191.7	2062	36.2%	11.2%	92.0	1163	18.9%	-25.6%
s132i0i	12.79	12.89	5.96	32.79*	26.54	26.54	N/A	N/A	171.0	2312	54.2%	12.5%	121.8	1861	45.1%	-10.4%
s142i0i	-	-	N/A	N/A	-	-	N/A	N/A	-	-	-	-	-	-	-	-
s112i0d	1.06	1.22	0.07	0.24	N/A	N/A	77.3	12.5	300.3	2015	N/A	N/A	4.0	29	N/A	N/A
s122i0d	1.23	1.40	0.07	0.45	25.44	25.44	83.1	13.9	349.7	2328	N/A	N/A	128.9	921	N/A	N/A
s132i0d	1.08	1.22	0.07	0.45	25.33	25.33	81.6	15.9	380.4	2660	N/A	N/A	220.4	1676	N/A	N/A
s142i0d	1.05	1.35	N/A	N/A	25.34	25.34	81.6	15.9	431.5	2957	N/A	N/A	328.1	2429	N/A	N/A
s112i0di	1.30	1.11	0.12	29.60*	N/A	N/A	N/A	N/A	272.9	1630	9.1%	19.1%	5.8	337	-45.0%	-1062.1%
s122i0di	0.76	0.92	0.08	15.72*	23.64	23.64	N/A	N/A	192.4	2056	45.0%	11.7%	99.4	1190	22.9%	-29.2%
s132i0di	1.06	1.61	0.22	15.61*	23.26	23.26	N/A	N/A	218.3	2340	42.6%	12.0%	149.5	1906	32.2%	-13.7%
s142i0di	1.28	1.35	N/A	N/A	23.10	23.10	N/A	N/A	225.2	2338	47.8%	20.9%	201.2	2461	38.7%	-1.3%

Table 15 - Ethernet with Gateways Architecture - Network Results

3.10.1.3 Network Case - Third Architecture (SCRAMNet Architecture)

Table 16 shows the accuracy and network data for the SCRAMNet Architecture (non end-to-end). The columns displayed are identical as those shown in Table 14. Many of the same comments and revelations listed in the previous architectures apply to this one as well. This architecture was especially good at accuracies for other local entities (.001 feet). This is due to the fact that local entities were sharing information with each other via SCRAMNet instead of via Ethernet PDUs. The SCRAMNet option is lower since there is no overhead in creating Ethernet packets, no overhead in creating DIS packets. SCRAMNet is simply a shared memory - so data is shared with other local entities by simply reading and writing to memory locations. The accuracies for entities across the network were higher since the overhead of Ethernet and DIS packets now comes into play.

The DIS-Lite results are good - resulting in a bandwidth savings of up to 60%.

The first case (s113t3) had a very large number (approx. 40 feet) for the accuracy rating of the digital aircraft across the network for the non-maneuvering case. This number should be much smaller - closer to the ones below in the same column (approx. 7 feet). This test data is considered an anomaly.

Case	Piloted G data at J's sim accuracy (ft)	Piloted J data at G's sim accuracy (ft)	Digital on LAN1 data at piloted on LAN1 accuracy (ft) (non-maneuver)	Digital on LAN2 data at piloted on LAN1 accuracy (ft) (non-maneuver)	Digital on LAN1 data at piloted on LAN1 accuracy (ft) (maneuvering)	Digital on LAN2 data at piloted on LAN1 accuracy (ft) (maneuvering)	LAN1 to LAN2 Network SNAP Net Delay Avg. (ms)	SNAP Net Stdev (ms)	Kb/s WAN BW	Total # WAN Packets	DIS-Lite BW Savings	DIS-Lite Packet Savings
s113i3	12.88	12.53	0.01	40.27*	N/A	N/A	51.5	10.0	10.2	35	N/A	N/A
s123i3	14.20	13.70	0.01	7.08	13.56	20.00	47.9	10.5	147.1	910	N/A	N/A
s133i3	12.98	12.60	0.01	6.96	13.44	19.98	48.1	10.3	288.7	1835	N/A	N/A
s143i3	13.92	14.10	N/A	N/A	13.39	20.04	49.1	10.8	430.6	2779	N/A	N/A
s113i3l	13.36	13.01	0.01	15.02	N/A	N/A	47.2	13.4	4.1	36	59.8%	-2.9%
s123i3l	13.11	12.77	0.01	11.85	13.41	20.24	48.9	16.3	91.2	925	38.0%	-1.6%
s133i3l	13.22	12.89	0.01	25.59	13.44	20.38	48.5	15.0	135.4	1363	53.1%	25.7%
s143i3l	13.38	13.03	N/A	N/A	13.43	20.27	48.5	15.0	202.8	2043	52.9%	26.5%

Table 16 - SCRAMNet Architecture - Network Results

3.10.1.4 End-to-End Case - First Architecture (Simple Ethernet Architecture)

Table 17 shows key network data from the end-to-end tests for the Simple Ethernet Architecture.

The first column displays the SNAP filename case number (the decoding of which was discussed earlier).

The second column displays the roll number. For each test, five separate roll inputs were provided by SNAP and performed by the simulation aircraft.

The next 2 columns display the end-to-end latency. The first end-to-end column (with DR, or Dead Reckoning) shows this end-to-end latency including the added delays caused by DR. This value was determined by taking the difference between the time of the change in the local state variable after the stick moved, to the resulting time of the change in the remote state variable (see Figure 19 - from number 1 to 3). Note that the remote site is only updated after the local side exceeds the DR threshold - which causes a packet to be sent to the other side. The second end-to-end column (no DR) shows end-to-end latencies without the added delays from DR. This value was determined by taking the same remote state variable update time, but instead of subtracting off the time when the local variable first changed, the time where the acceleration value in the local variable matched the updated value on the remote side is taken. What this gives you is the local to remote state update time AFTER dead-reckoning is performed (see Figure 19 - from number 2 to 3). It is exactly the same end-to-end time that would be found if there were zero thresholds. This fact is verified by looking at some t0 cases in Table 17 (i.e. the first two files in the table). The end-to-end result matches in both columns in these files (example - 0.070 in both columns in the first file [ex11t0d]). The third file (ex11t3) illustrates the latency that DR contributes to the system $0.248 - 0.088 = 160\text{ms}$. Note that the 'with DR' column has no data for DIS-Lite. The reason for this is that the accelerations were used to determine this end-to-end data (due to the fact that it was not being dead-reckoned). Since DIS sent this information out in every packet, it was used for these end-to-end tests. Since DIS-Lite only sends out needed information, the accelerations weren't sent out each time, and thus not allowing end-to-end tests during DIS-Lite.

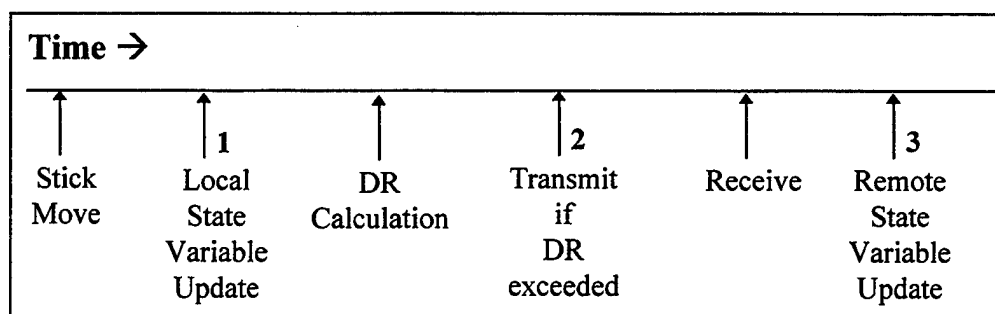


Figure 19 - End-to-End Case Data Points

Below each test run's listing, the average end-to-end values are shown for both DR and without DR. Below the entire listing of files, the 'no DR' column data is summarized as an average, maximum and minimum.

The next three columns display the SNAP time stamps used to derive the latency values in the previous two columns. These columns display the time stamps for when a local and remote

state variable changed. The first of the three is the time stamp for a local state variable change that includes Dead Reckoning. The second of the three is the time stamp for a local state variable change without Dead Reckoning. The last column is the time stamp for the remote variable change.

The results from the test runs on this architecture show that dead-reckoning serves as both a significant and variable delay point.

File	Roll #	with DR SV local to SV remote (seconds)	no DR SV local to SV remote (seconds)	DR Local SV (Z & AA) (seconds)	No DR Local SV (Z&AA) (seconds)	Remote SV (U & V) (seconds)
ex11t0d	1	0.060	0.060	55310.349	55310.349	55310.409
	2	0.060	0.060	55312.130	55312.130	55312.190
	3	0.070	0.070	55314.120	55314.120	55314.190
	4	0.080	0.080	55316.111	55316.111	55316.191
	5	0.080	0.080	55318.111	55318.111	55318.191
Averages:		0.070	0.070			
ex11t0dl	1	0.082	0.082	57365.380	57365.380	57365.463
	2	0.080	0.080	57367.383	57367.383	57367.463
	3	0.080	0.080	57369.384	57369.384	57369.464
	4	0.080	0.080	57371.384	57371.384	57371.464
	5	0.080	0.080	57373.385	57373.385	57373.465
Averages:		0.081	0.081			
ex11t3	1	0.500	0.100	62078.492	62078.892	62078.992
	2	0.220	0.100	62080.492	62080.612	62080.712
	3	0.080	0.080	62082.493	62082.493	62082.573
	4	0.220	0.080	62084.493	62084.633	62084.713
	5	0.220	0.080	62086.494	62086.634	62086.714
Averages:		0.248	0.088			
ex11t3d	1	0.220	0.089	63387.489	63387.620	63387.710
	2	0.460	0.100	63389.490	63389.850	63389.950
	3	0.320	0.080	63391.490	63391.730	63391.811
	4	0.460	0.100	63393.491	63393.851	63393.951
	5	0.320	0.081	63395.491	63395.730	63395.812
Averages:		0.356	0.090			
ex11t3dl	1	N/A	0.125	N/A	63822.980	63823.106
	2	N/A	0.100	N/A	63825.926	63826.026
	3	N/A	0.067	N/A	63827.940	63828.007
	4	N/A	0.100	N/A	63829.947	63830.047
	5	N/A	0.072	N/A	63831.948	63832.020
Averages:		N/A	0.093			
ex11t3l	1	N/A	0.080	N/A	62637.135	62637.215
	2	N/A	0.085	N/A	62640.290	62640.376
	3	N/A	0.080	N/A	62642.136	62642.216
	4	N/A	0.100	N/A	62644.277	62644.377
	5	N/A	0.100	N/A	62646.297	62646.397
Averages:		N/A	0.089			
ex21t3	1	0.480	0.080	62170.868	62171.268	62171.348

	2	0.211	0.091	62172.849	62172.969	62173.060
	3	0.070	0.110	62174.849	62174.809	62174.919
	4	0.420	0.090	62176.850	62177.180	62177.270
	5	0.320	0.060	62178.850	62179.110	62179.170
	Averages:	0.300	0.086			
ex21t3d	1	0.500	0.100	63531.580	63531.980	63532.080
	2	0.440	0.080	63533.580	63533.940	63534.020
	3	0.320	0.080	63535.581	63535.821	63535.901
	4	0.480	0.100	63537.561	63537.941	63538.041
	5	0.280	0.080	63539.562	63539.762	63539.842
	Averages:	0.404	0.088			
ex21t3dl	2	N/A	0.097	N/A	63945.943	63946.040
	3	N/A	0.083	N/A	63947.400	63947.483
	4	N/A	0.080	N/A	63949.884	63949.964
	5	N/A	0.084	N/A	63951.900	63951.985
	Averages:	N/A	0.086			
ex21t3l	1	N/A	0.080	N/A	62758.664	62758.744
	2	N/A	0.100	N/A	62760.585	62760.684
	3	N/A	0.080	N/A	62762.605	62762.685
	4	N/A	0.080	N/A	62764.566	62764.646
	Averages:	N/A	0.085			
ex31t3	1	0.360	0.100	62253.925	62254.185	62254.285
	2	0.480	0.080	62255.925	62256.325	62256.405
	3	0.300	0.100	62257.926	62258.126	62258.226
	4	0.500	0.100	62259.926	62260.326	62260.426
	5	0.287	0.100	62261.920	62262.107	62262.207
	Averages:	0.385	0.096			
ex31t3d	1	0.072	0.072	63613.328	63613.328	63613.400
	2	0.440	0.080	63615.329	63615.689	63615.769
	3	0.460	0.100	63617.329	63617.689	63617.789
	4	0.320	0.080	63619.330	63619.570	63619.650
	5	0.460	0.080	63621.330	63621.710	63621.791
	Averages:	0.350	0.082			
ex31t3dl	1	N/A	0.055	N/A	64037.195	64037.250
	2	N/A	0.080	N/A	64039.136	64039.216
	3	N/A	0.086	N/A	64040.090	64040.176
	4	N/A	0.100	N/A	64043.117	64043.217
	Averages:	N/A	0.080			
ex31t3l	1	N/A	0.080	N/A	63065.916	63065.996
	2	N/A	0.074	N/A	63067.816	63067.890
	3	N/A	0.080	N/A	63069.096	63069.176
	4	N/A	0.100	N/A	63071.837	63071.937
	5	N/A	0.100	N/A	63073.838	63073.938
	Averages:	N/A	0.087			
ex41t3	1	0.460	0.060	62344.176	62344.576	62344.636
	2	0.020	0.080	62346.176	62346.116	62346.196
	3	0.340	0.100	62348.177	62348.417	62348.517

	4	0.413	0.073	62350.177	62350.517	62350.590
	5	0.332	0.080	62352.178	62352.430	62352.510
	Averages:	0.313	0.079			
ex41t3d	1	0.500	0.100	63687.264	63687.664	63687.764
	2	0.220	0.100	63689.264	63689.384	63689.484
	3	0.080	0.080	63691.265	63691.265	63691.345
	4	0.200	0.105	63693.265	63693.360	63693.465
	5	0.080	0.080	63695.266	63695.266	63695.346
	Averages:	0.216	0.093			
ex41t3dl	1	N/A	0.100	N/A	64228.510	64228.610
	2	N/A	0.081	N/A	64231.470	64231.551
	3	N/A	0.080	N/A	64233.491	64233.571
	4	N/A	0.080	N/A	64235.472	64235.552
	5	N/A	0.098	N/A	64237.510	64237.608
	Averages:	N/A	0.088			
ex41t3l	2	N/A	0.080	N/A	63152.716	63152.796
	3	N/A	0.100	N/A	63154.136	63154.236
	4	N/A	0.100	N/A	63156.657	63156.757
	5	N/A	0.080	N/A	63158.677	63158.757
	Averages:	N/A	0.090			
ALL-DIS Average:		0.086				
Max:		0.125				
Min:		0.055				

Table 17 - Simple Ethernet Architecture - End-to-End Results

3.10.1.5 End-to-End Case - Second Architecture (Ethernet with Gateways Architecture)

Table 18 shows key network data from the end-to-end tests for the Ethernet with Gateways Architecture.

The columns in Table 18 are the same as in Table 17.

By comparing this architecture's data to the previous architecture, it can be seen that this architecture tends to have higher latencies (both with and without DR) than the first architecture.

File	Roll #	with DR	no DR	DR	No DR	Remote SV (U & V)
		SV local to SV remote (seconds)	SV local to SV remote (seconds)	Local SV (Z & AA) (seconds)	Local SV (Z&AA) (seconds)	
ex12t0	1	0.103	0.120	64531.400	64531.383	64531.503
	2	0.500	0.140	64533.043	64533.403	64533.543
	3	0.340	0.120	64535.043	64535.264	64535.384
	4	0.260	0.120	64537.044	64537.184	64537.304
	5	0.244	0.120	64539.040	64539.165	64539.285
	Averages:	0.289	0.124			
ex12t0d	1	0.100	0.120	65891.966	65891.946	65892.066
	2	0.460	0.140	65893.707	65894.027	65894.167
	3	0.440	0.140	65895.707	65896.007	65896.147
	4	0.440	0.140	65897.708	65898.008	65898.148
	5	0.440	0.120	65899.708	65900.028	65900.148
	Averages:	0.376	0.132			
ex12t0dl	1	N/A	0.157	N/A	71366.933	71367.090
	2	N/A	0.076	N/A	71369.874	71369.950
	3	N/A	0.116	N/A	71371.834	71371.950
	4	N/A	0.125	N/A	71373.830	71373.955
	5	N/A	0.100	N/A	71375.835	71375.936
	Averages:	N/A	0.115			
ex12t0l	1	N/A	0.120	N/A	65119.391	65119.511
	2	N/A	0.120	N/A	65121.391	65121.511
	3	N/A	0.137	N/A	65123.352	65123.488
	4	N/A	0.138	N/A	65125.352	65125.490
	Averages:	N/A	0.129			
ex22t0	1	0.239	0.119	64638.321	64638.441	64638.560
	2	0.162	0.140	64640.320	64640.342	64640.482
	3	0.320	0.140	64642.302	64642.482	64642.622
	4	0.480	0.140	64644.303	64644.643	64644.783
	5	0.380	0.120	64646.303	64646.563	64646.684
	Averages:	0.316	0.132			
ex22t0d	1	0.120	0.120	65970.254	65970.254	65970.374
	2	0.140	0.120	65972.254	65972.274	65972.394
	3	0.300	0.120	65974.255	65974.435	65974.555

	4	0.460	0.120	65976.255	65976.595	65976.715
	5	0.382	0.120	65978.254	65978.516	65978.636
	Averages:	0.280	0.120			
ex22t0dl	1	N/A	0.100	N/A	71466.484	71466.584
	2	N/A	0.100	N/A	71468.724	71468.824
	3	N/A	0.120	N/A	71471.145	71471.265
	4	N/A	0.120	N/A	71473.145	71473.265
	Averages:	N/A	0.110			
ex22t0l	1	N/A	0.140	N/A	65351.640	65351.780
	2	N/A	0.121	N/A	65354.100	65354.221
	3	N/A	0.141	N/A	65355.640	65355.781
	4	N/A	0.140	N/A	65358.102	65358.242
	5	N/A	0.120	N/A	65360.102	65360.223
	Averages:	N/A	0.132			
ex32t0	1	0.100	0.120	64783.822	64783.802	64783.922
	2	0.320	0.120	64785.682	64785.882	64786.002
	3	0.540	0.140	64787.683	64788.083	64788.223
	4	0.320	0.120	64789.683	64789.883	64790.003
	5	0.540	0.140	64791.683	64792.084	64792.224
	Averages:	0.364	0.128			
ex32t0d	1	0.720	0.120	66131.729	66132.329	66132.449
	2	0.080	0.129	66133.729	66133.680	66133.809
	3	0.380	0.140	66135.730	66135.970	66136.110
	4	0.520	0.140	66137.730	66138.110	66138.250
	5	0.320	0.120	66139.731	66139.931	66140.051
	Averages:	0.404	0.130			
ex32t0dl	1	N/A	0.100	N/A	71555.339	71555.438
	2	N/A	0.120	N/A	71557.639	71557.759
	3	N/A	0.120	N/A	71559.539	71559.659
	4	N/A	0.120	N/A	71561.560	71561.680
	5	N/A	0.120	N/A	71563.600	71563.721
	Averages:	N/A	0.116			
ex32t0l	1	N/A	0.100	N/A	65447.877	65447.977
	2	N/A	0.100	N/A	65450.098	65450.198
	3	N/A	0.120	N/A	65452.098	65452.218
	4	N/A	0.120	N/A	65454.099	65454.219
	Averages:	N/A	0.110			
ex42t0	1	0.100	0.120	64940.274	64940.254	64940.374
	2	0.460	0.124	64941.934	64942.270	64942.394
	3	0.364	0.100	64943.930	64944.194	64944.295
	4	0.460	0.100	64945.935	64946.295	64946.395
	5	0.380	0.140	64947.936	64948.176	64948.316
	Averages:	0.353	0.117			
ex42t0d	1	0.098	0.118	66296.162	66296.142	66296.260

	2	0.463	0.140	66297.860	66298.183	66298.323
	3	0.400	0.123	66299.863	66300.140	66300.263
	4	0.460	0.140	66301.864	66302.184	66302.324
	5	0.220	0.116	66303.860	66303.964	66304.080
	Averages:	0.328	0.127			
ex42t0dl	1	N/A	0.100	N/A	74005.204	74005.304
	2	N/A	0.160	N/A	74007.024	74007.185
	3	N/A	0.140	N/A	74009.845	74009.985
	4	N/A	0.125	N/A	74011.440	74011.566
	Averages:	N/A	0.131			
ex42t0l	1	N/A	0.122	N/A	65537.180	65537.303
	2	N/A	0.140	N/A	65539.183	65539.323
	3	N/A	0.100	N/A	65541.104	65541.203
	4	N/A	0.100	N/A	65543.204	65543.304
	5	N/A	0.120	N/A	65545.205	65545.324
	Averages:	N/A	0.116			
Gateway Average:		0.123				
Max:		0.160				
Min:		0.076				

Table 18 - Ethernet with Gateways Architecture - End-to-End Results

3.10.1.6 End-to-End Case - Third Architecture (SCRAMNet Architecture)

Table 19 shows key network data from the end-to-end tests for the Simple Ethernet Architecture.

The columns in Table 19 are the same as in Table 17.

By comparing this architecture's data to the previous architectures, it can be seen that this architecture tends to have much lower latencies (both with and without DR) than both the first and second architectures.

File	Roll #	with DR	no DR	DR	No DR	Remote SV (U & V)
		SV local to SV remote (seconds)	SV local to SV remote (seconds)	Local SV (Z & AA) (seconds)	Local SV (Z&AA) (seconds)	
ex13t0	1	0.060	0.060	57980.843	57980.843	57980.903
	2	0.060	0.060	57982.844	57982.844	57982.904
	3	0.080	0.080	57984.844	57984.844	57984.924
	4	0.080	0.080	57986.845	57986.845	57986.925
	5	0.085	0.085	57988.840	57988.840	57988.925
	Averages:	0.073	0.073			
ex13t0l	1	0.060	0.060	58211.493	58211.493	58211.553
	2	0.060	0.060	58213.313	58213.313	58213.373
	3	0.076	0.076	58215.294	58215.294	58215.370
	4	0.076	0.076	58217.294	58217.294	58217.370
	5	0.085	0.085	58219.290	58219.290	58219.375
	Averages:	0.071	0.071			
ex13t3	1	0.145	0.079	74823.500	74823.566	74823.645
	2	0.080	0.080	74825.326	74825.326	74825.406
	3	0.300	0.080	74827.327	74827.547	74827.627
	4	0.160	0.080	74829.327	74829.407	74829.487
	5	0.320	0.080	74831.328	74831.568	74831.648
	Averages:	0.201	0.080			
ex13t3l	1	N/A	0.100	N/A	75627.293	75627.393
	2	N/A	0.060	N/A	75630.634	75630.694
	3	N/A	0.080	N/A	75632.654	75632.734
	4	N/A	0.080	N/A	75634.595	75634.675
	5	N/A	0.080	N/A	75636.595	75636.675
	Averages:	N/A	0.080			
ex23t3	1	0.482	0.080	75093.780	75094.182	75094.262
	2	0.320	0.100	75095.783	75096.003	75096.103
	3	0.140	0.080	75097.783	75097.843	75097.923
	4	0.320	0.100	75099.784	75100.004	75100.104
	5	0.160	0.080	75101.784	75101.864	75101.944
	Averages:	0.284	0.088			
ex23t3l	1	N/A	0.080	N/A	75732.695	75732.775
	2	N/A	0.080	N/A	75736.195	75736.275

	3	N/A	0.060	N/A	75738.116	75738.176
	4	N/A	0.080	N/A	75740.116	75740.196
	5	N/A	0.080	N/A	75742.097	75742.177
	Averages:	N/A	0.076			
ex33t3	1	0.260	0.060	75312.114	75312.314	75312.374
	2	0.105	0.080	75314.110	75314.135	75314.215
	3	0.360	0.100	75316.115	75316.375	75316.475
	4	0.186	0.080	75318.110	75318.216	75318.296
	5	0.260	0.060	75320.116	75320.316	75320.376
	Averages:	0.234	0.076			
ex33t3l	1	N/A	0.072	N/A	75835.719	75835.790
	2	N/A	0.080	N/A	75838.719	75838.800
	4	N/A	0.080	N/A	75842.741	75842.820
	5	N/A	0.060	N/A	75844.701	75844.761
	Averages:	N/A	0.073			
ex43t3	1	0.060	0.080	75421.751	75421.731	75421.811
	2	0.319	0.079	75423.752	75423.992	75424.070
	3	0.160	0.080	75425.752	75425.832	75425.912
	4	0.278	0.078	75427.753	75427.953	75428.030
	5	0.120	0.083	75429.753	75429.790	75429.873
	Averages:	0.187	0.080			
ex43t3l	1	N/A	0.100	N/A	75942.079	75942.179
	2	N/A	0.080	N/A	75944.879	75944.959
	3	N/A	0.080	N/A	75946.800	75946.880
	4	N/A	0.100	N/A	75948.800	75948.900
	5	N/A	0.080	N/A	75950.781	75950.861
	Averages:	N/A	0.088			
SCRAMNet Average:			0.079			
Max:			0.100			
Min:			0.060			

Table 19 - SCRAMNet Architecture - End-to-End Results

3.10.2 Code Timings

Table 20 shows the code timings for each architecture. The first eight columns display (respectively) the date, architecture being tested, test block, whether the test was end-to-end (E2E) or not (Non), delay compensation being used (Y or N), LAN threshold being used (note that in SCRAMNet architectures it will be the WAN threshold), protocol being tested, and the loading. The next columns display the code timings (explained and described in Step 5 - Develop Test Scenario and Test Setup). The column labeled 'NIU' is the average total time for the NIU to operate during each pass of the simulation. It contains Tnr and Tns with the code around those two operations. The second-to-last column shows the total of all the code timings with the standard 45ms long haul delay added.

The last column is an estimate of the total state variable to state variable delay times that correspond to the estimations in Step 5, but using numbers from the NETS experiment instead of estimates from [Zeh95]. The sampling uncertainty occurs anywhere there is an Ethernet interface receiving PDUs since the PDU receipt time will be one time frame later if it misses the PDU during the time frame it is output. A one-way PDU path in the Simple Ethernet Architecture or the SCRAMNet Architecture contains only one Ethernet reception at the NIU or the WAN side of the Gateway. The Ethernet with Gateways Architecture contains three Ethernet receptions, one at the LAN side of the Gateway, one at the WAN side of the Gateway, and one at the NIU. The average of the delays caused by sampling uncertainty (with a frame time of 20ms) is therefore 10ms for the Simple Ethernet Architecture or the SCRAMNet Architecture, and 30ms for the Ethernet with Gateways Architecture.

Note that several timings, including NIU and gateway times, increase with an increase in loading - which would be expected.

Date	Arch	Block	Test	DC	Thres.	Protocol	Load	Tss+Tps (ms)	Tns (ms)	Tnr (ms)	Trs (ms)	NIU (ms)	Tgs (ms)	Tgr (ms)	Total with Tlh=45ms (ms)	Total with average time frame sampling uncertainty of 0-1
12-May	Simple Ethernet	DIS	Non	N	3,1,5	DIS	1	0.703	0.404	0.549	0.203	1.002	NA	NA	46.859	56.859
		vs.					2	0.653	0.427	1.040	0.627	1.520	NA	NA	47.747	57.747
		DIS-Lite					3	0.701	0.318	1.401	0.189	1.770	NA	NA	47.609	57.609
							4	0.699	0.342	1.952	0.483	2.323	NA	NA	48.476	58.476
	Simple Ethernet	DIS	Non	N	3,1,5	DIS-Lite	1	0.762	0.347	0.558	0.181	0.950	NA	NA	46.848	56.848
		vs.					2	0.703	0.463	0.870	0.406	1.372	NA	NA	47.442	57.442
		DIS-Lite					3	0.695	0.398	1.165	0.482	1.600	NA	NA	47.740	57.740
							4	0.703	0.399	1.384	0.530	1.819	NA	NA	48.016	58.016
	Simple Ethernet	DIS	Non	Y	3,1,5	DIS-Lite	1	0.739	0.338	0.577	0.186	0.968	NA	NA	46.840	56.840
		vs.					2	0.698	0.479	0.898	0.166	1.416	NA	NA	47.241	57.241
		DIS-Lite					3	0.718	0.391	1.177	0.225	1.605	NA	NA	47.511	57.511
							4	0.704	0.396	1.494	0.183	1.943	NA	NA	47.777	57.777
	Simple Ethernet	DIS	Non	Y	3,1,5	DIS	1	0.683	0.362	0.539	0.408	0.959	NA	NA	46.992	56.992
		vs.					2	0.680	0.434	1.105	0.186	1.573	NA	NA	47.405	57.405
		DIS-Lite					3	0.700	0.348	1.607	0.554	1.984	NA	NA	48.209	58.209
							4	0.700	0.345	1.876	0.402	2.252	NA	NA	48.323	58.323
14-May	Ethernet with Gateways	DIS	Non	N	0,0,0	DIS	1	0.976	0.804	1.575	0.384	2.413	0.781	0.418	49.938	79.938
		vs.					2	0.978	0.833	1.594	0.621	2.459	1.261	1.025	51.312	81.312
		DIS-Lite					3	0.981	0.916	1.723	0.409	2.676	2.077	1.503	52.609	82.609
							4	0.985	0.935	1.878	0.409	2.845	2.765	1.631	53.603	83.603
	Ethernet with Gateways	DIS	Non	N	0,0,0	DIS-Lite	1	0.971	1.134	1.194	0.406	2.363	1.347	0.908	50.960	80.960
		vs.					2	0.980	1.330	1.420	0.408	2.790	2.148	1.548	52.834	82.834
		DIS-Lite					3	1.000	1.169	1.338	0.402	2.566	2.672	1.521	53.102	83.102
							4	(no data)								
	Ethernet with Gateways	Delay	Non	Y	0,0,0	DIS	1	0.978	0.803	1.606	0.406	2.446	0.810	0.429	50.032	80.032
		Comp					2	0.979	0.825	1.711	0.476	2.570	1.367	1.024	51.382	81.382
		(DC)					3	0.981	0.924	1.800	0.477	2.757	2.120	1.500	52.802	82.802
							4	0.956	0.913	1.794	0.516	2.745	2.548	1.889	53.616	83.616
	Ethernet with Gateways	Delay	Non	Y	0,0,0	DIS-Lite	1	0.976	1.144	1.283	0.407	2.444	1.346	0.866	51.022	81.022
		Comp					2	0.977	1.310	1.379	0.548	2.727	2.281	1.525	53.020	83.020
		(DC)					3	1.018	1.190	1.497	0.404	2.681	2.801	2.275	54.185	84.185
							4	0.982	1.156	1.557	0.397	2.748	3.621	2.648	55.361	85.361

SCRAMNet	DIS vs. DIS-Lite	Non	N	N/A	DIS	1	0.977	NA	NA	0.542	NA	0.339	0.460	47.318	of 0-1
						2	0.981	NA	NA	0.388	NA	0.749	0.740	47.858	
						3	0.978	NA	NA	0.544	NA	1.192	1.176	48.890	
						4	0.970	NA	NA	0.631	NA	1.696	1.492	49.789	
SCRAMNet	DIS vs. DIS-Lite	Non	N	N/A	DIS-Lite	1	0.917	NA	NA	0.402	NA	0.503	0.378	47.200	of 0-3
						2	0.981	NA	NA	0.401	NA	0.980	0.683	48.045	
						3	0.978	NA	NA	0.607	NA	1.394	0.936	48.915	
						4	0.977	NA	NA	0.401	NA	1.945	1.276	49.599	
SCRAMNet	DR Thresh	Non	N	3,1,5	DIS	1	0.978	0.417	0.583	0.420	1.091	-0.273	0.317	47.442	
						2	0.978	0.371	0.938	0.578	1.343	0.545	1.019	49.429	
						3	1.027	0.401	1.371	0.554	1.826	1.238	1.526	51.117	
						4	0.980	0.343	1.721	0.406	2.099	2.512	1.268	52.230	
SCRAMNet	DR Thresh	Non	N	3,1,5	DIS-Lite	1	0.978	0.392	0.571	0.552	1.026	-0.246	0.317	47.564	
						2	0.996	0.446	0.824	0.404	1.329	0.736	1.143	49.549	
						3	0.897	0.373	1.078	0.595	1.485	1.648	1.956	51.547	
						4	0.999	0.405	1.288	0.401	1.709	2.566	1.775	52.434	
15-May Simple Ethernet	DIS vs. DIS-Lite	E2E	N	3,1,5	DIS	1	1.341	0.388	0.623	0.484	1.048	NA	NA	47.836	of 0-1
						2	1.346	0.383	1.130	0.306	1.545	NA	NA	48.165	
						3	1.324	0.352	1.415	0.408	1.822	NA	NA	48.499	
						4	1.279	0.350	1.787	0.184	2.172	NA	NA	48.600	
Simple Ethernet	DIS vs. DIS-Lite	E2E	N	3,1,5	DIS-Lite	1	1.345	0.356	0.633	0.186	1.026	NA	NA	47.520	
						2	1.282	0.415	0.898	0.183	1.415	NA	NA	47.778	
						3	1.283	0.383	1.213	0.402	1.632	NA	NA	48.281	
						4	1.323	0.350	1.375	0.182	1.759	NA	NA	48.230	
Simple Ethernet	Delay Comp (DC)	E2E	Y	3,1,5	DIS	1	1.348	0.341	0.664	0.184	1.043	NA	NA	47.537	
						2	1.334	0.358	1.044	0.624	1.444	NA	NA	48.360	
						3	1.347	0.361	1.543	0.185	1.938	NA	NA	48.436	
						4	1.364	0.306	1.864	0.185	2.162	NA	NA	48.719	
Simple Ethernet	Delay Comp (DC)	E2E	Y	3,1,5	DIS-Lite	1	1.286	0.402	0.710	0.184	1.149	NA	NA	47.582	
						2	1.403	0.397	0.982	0.185	1.419	NA	NA	47.967	
						3	1.326	0.378	1.244	0.186	1.661	NA	NA	48.134	
						4	1.335	0.389	1.438	0.403	1.863	NA	NA	48.565	
Ethernet with Gateways	DIS vs. DIS-Lite	E2E	N	0,0,0	DIS	1	1.351	0.932	1.449	0.405	2.414	0.795	0.409	50.341	of 0-3
						2	1.365	0.890	1.681	0.404	2.601	1.302	0.989	51.631	
						3	1.330	0.921	1.716	0.549	2.675	1.924	1.479	52.919	
						4	1.361	1.037	1.664	0.404	2.696	2.483	1.981	53.930	
Ethernet with Gateways	DIS vs. DIS-Lite	E2E	N	0,0,0	DIS-Lite	1	1.341	1.185	1.175	0.399	2.494	1.337	0.712	51.149	
						2	1.341	1.290	1.342	0.403	2.670	2.094	1.335	52.805	
						3	1.359	1.250	1.475	0.403	2.765	2.489	1.093	53.069	

Ethernet with Gateways	Delay Comp (DC)	E2E	Y	0,0,0	DIS	4	1.400	1.348	1.499	0.403	2.903	3.254	1.800	54.704	84.704
						1	1.343	0.971	1.510	0.500	2.513	0.715	0.418	50.457	80.457
						2	1.278	0.851	1.534	0.625	2.437	1.312	1.038	51.638	81.638
						3	1.345	0.899	1.635	0.480	2.570	1.980	1.488	52.827	82.827
Ethernet with Gateways	Delay Comp (DC)	E2E	Y	0,0,0	DIS-Lite	4	1.325	1.017	1.863	0.405	2.938	2.435	1.956	54.001	84.001
						1	1.421	1.325	1.209	0.624	2.612	1.262	0.677	51.518	81.518
						2	1.386	1.356	1.336	0.402	2.731	1.873	1.272	52.625	82.625
						3	1.330	1.263	1.397	0.624	2.699	4.880	-0.139	54.355	84.355
SCRAMNet	DIS vs. DIS-Lite	E2E	N	N/A	DIS	4	1.320	1.241	1.501	0.620	2.758	3.129	1.863	54.674	84.674
						1	1.300	NA	NA	0.429	NA	0.268	0.456	47.453	57.453
						2	1.334	NA	NA	0.610	NA	0.716	1.049	48.709	58.709
						3	1.301	NA	NA	0.544	NA	1.123	1.400	49.368	59.368
SCRAMNet	DIS vs. DIS-Lite	E2E	N	N/A	DIS-Lite	4	1.330	NA	NA	0.405	NA	1.715	1.394	49.844	59.844
						1	1.373	NA	NA	0.400	NA	0.460	0.528	47.761	57.761
						2	1.312	NA	NA	0.554	NA	2.954	0.924	60.744	70.744
						3	1.323	NA	NA	0.539	NA	1.472	1.070	49.404	59.404
16-May Ethernet	DC	E2E	Y	0,0,0	DIS	4	1.321	NA	NA	0.468	NA	1.863	1.068	49.720	59.720
						1	1.281	0.892	2.391	0.404	3.319	NA	NA	49.968	59.968
						2	1.335	1.381	1.831	0.480	3.259	NA	NA	50.027	60.027
						3	1.312	NA	NA	0.625	NA	2.190	1.957	51.084	61.084
SCRAMNet	DC	E2E	N	0,0,0	DIS-Lite	4	1.387	NA	NA	0.551	NA	2.190	1.957	51.085	61.085
						1	1.387	NA	NA	0.551	NA	2.190	1.957	51.085	61.085

Table 20 - Code Timings

3.11 Summary

To review, there were four objectives for NETS:

- Develop Optimized Network Architectures for UTD Applications
- Compare the Improved Network Protocol Designed for Highly Dynamic Air Vehicles (DIS-Lite) with Standard Protocol (DIS)
- Understand Performance Issues of Networks Using Simulator Network Analysis Project Tools
- Recommend an Architecture with the Best Bandwidth Utilization/Truth Data Performance

The first objective was met during some of the earlier steps in the NETS program. Architectures were developed specifically for UTD applications. These architectures were specifically optimized for small numbers of entities on local LANs with a single connection point between the two LANs (the WAN).

The second objective was met by thoroughly testing the DIS and DIS-Lite protocols under all the same conditions. The results were shown and discussed in the previous section (Step 7 - Reduce Data and Analyze). Based on those tables, DIS-Lite does reduce the number of packets on the network, reduces the bandwidth consumed, and maintains simulation data nearly as accurate (differences typically averaged less than one foot) as the DIS protocol in all three architectures (Table 14, Table 15, and Table 16).

The third objective, while not quantifiable in and of itself, was accomplished through the copious amounts of data collected on the network architectures, packet counts, bandwidth utilization, protocol comparisons, delay compensation effects, simulation accuracy (truth data comparisons), threshold comparisons (Table 14, Table 15, and Table 16), end-to-end data values (Table 17, Table 18, Table 19) and code timings (Table 20). Two important conclusions from the data in the tables are that DIS-Lite is a significant improvement to DIS, and that delay compensation is a good thing to do. The delay compensation tended to reduce errors down to around one foot - a vast improvement over the typical 12 foot time frame error. Note that the delay compensation implementation in this study was the standard DIS dead reckoning calculation. The important part of this method is to dead reckon the simulation data just before using it, instead of calculating the data and not using it until later in the simulation time frame.

The fourth objective was to recommend an architecture that had the best bandwidth/truth data performance (and best suited for the UTD applications discussed in the opening sections of this report). Based on all available data, the third architecture - SCRAMNet Architecture - is the best architecture for performance purposes. The SCRAMNet Architecture offers:

- A faster LAN for UTD to UTD communications (since the LAN is being implemented as a shared memory - UTDs need merely access memory instead of utilizing latency causing communication protocols). Table 20 (Code Timings) shows this numerically by lower gateway timings.
- Faster code in the NIU (see Table 20 Code Timings).
- One Ethernet receive interface (off the WAN) which decreases the opportunities of sampling errors (there were two interfaces in the second architecture).
- Local accuracies were better for non-maneuvering (99%), and average for maneuvering (+/- 3%).

3.11.1 Best Performance

For the best performance the SCRAMNet Architecture and the DIS-Lite protocol should be used (over a WAN), along with delay compensation. If WAN bandwidth is a concern, WAN

thresholds should be set at 3,1,5 or preferably some optimized settings such as 1,5,1 [SWAINE95]. If WAN bandwidth is not a concern, then thresholds should be set at 0,0,0 (although this is very rarely done due to the large amount of traffic this setting will cause). This type of setting would be appropriate, however, for a networked simulation with very low numbers of entities and PDUs (perhaps a one versus one scenario).

3.11.2 Best Cost

If cost is a primary concern, then the first architecture - Ethernet Architecture - might edge out the other two architectures:

- The first architecture does not require any additional hardware such as gateways from the second architecture, or SCRAMNet cards from the third architecture. The first architecture would, however, require Ethernet cards located at each UTD. Note that to improve performance, a second Ethernet card should be located inside each device attached to the network. This second card would carry all real-time DIS traffic, while the first would handle the high bandwidth mundane tasks (such as FTP, log-in accounts, communications traffic, etc.)
- The first architecture would need to be programmed to send and receive to the Ethernet cards - a capability some UTDs already have, whereas for the third architecture, new programming would be required to interface to the SCRAMNet cards at each UTD. For the second architecture, additional programming is required for the gateways.

3.11.3 Considerations

If the data is examined closely, both the first and third architectures resulted in the similar performance numbers. An important thing to consider is that these tests used low numbers of entities with only Entity State PDUs. A full simulation would most likely contain a few more entities (possibly enemy air defenses), or more likely, would contain additional PDUs (emissions mostly). This has the possibility of bringing down a single UTD interface (according to Table 20 - Code Timings, some NETS tests took 3-4 ms just for Entity State PDU processing). An important consideration would be the UTD frame rate, and if it could tolerate in its real-time schedule a process with a variable time (from less than one millisecond to greater than four).

3.12 Lessons Learned

NETS was a difficult and complicated program, and numerous lessons were learned during planning, development and testing. The following sections discuss some key lessons learned.

3.12.1 DIS-Lite

Since this was the first program to actually test DIS-Lite, several lessons about its operation were learned. One note was that the DIS-Lite accuracy differed (by one foot on average) with standard DIS. This is most likely due to the fact that DIS-Lite was designed for bandwidth optimization. As part of this optimization, dead reckoning is changed during the simulation to provide the least possible network traffic. It is this constant changing of dead reckoning that might be responsible for the differing accuracy numbers. Note that the accuracy was very close to DIS - still typically within a time frame.

A problem discovered during NETS with DIS-Lite implementation occurs after the first Query PDU arrives. The dead reckoning based on that Query PDU gives an accuracy error of up

to 3-5 times as much as normal. When the next Kinematic PDU arrives, the accuracy errors are back to normal. Note that this only occurs with the arrival of a Query PDU. MaK Technologies has fixed this problem in the latest release of DIS-Lite (Lite1-9).

A possible additional problem that might be contributing to some of the accuracy differences with DIS could be due to network delays. If a sending entity dead reckons a path, then alters its path and changes the DR algorithm accordingly, a receiving entity may be just getting the original PDU information. That information will be dead reckoned with the first algorithm. Once the second PDU and algorithm arrives, the accuracy difference will be greater, since during that transmit time the sending and receiving entities used different DR algorithms.

3.12.2 Ethernet/Network Configurations

To open multiple sockets on the same machine for the same port and network, you must use the reuse port and reuse address options. If you attach two or more Ethernet interfaces from one machine to the same network, each interface will receive the same packet. Each interface will also deliver that packet to any socket that matches the port number, therefore a process will receive multiple copies of the same packet. This happens when using multicast or broadcast. This is how UDP/IP works and the only way to change it is to change the Ethernet device driver, which is a considerable effort beyond the scope of this project. The work around was to put only two interfaces on one network, use multicast to receive on one interface and send on the other. The IP options for multicast allow users to specify what multicast groups an interface is listening to and what interface to send on. Therefore only the receive interface joined the multicast group to listen, the send interface only sent multicast packets.

3.12.3 Blitzing the Network

The limits of SNAP were definitely tested during the course of the NETS testing. Due to the software design of the network delay function used to simulate long-haul network delay, network packets that were fed in on one side were not always spaced the same way on the other side. Sometimes, the packets were transmitted in groups, one right after the other, with no gap in between. While this is an acceptable networking communication technique, SNAP's network interface would hang and crash with these repeated bursts of grouped packets under heavy network loading. SNAP, by design, can handle 2000 Entity State PDUs per second, sometimes when the packets were grouped by the delay function, instantaneous packet rates exceeded 3000 Entity State PDUs per second. This phenomenon would rarely be seen outside of a testing environment. To overcome the problem of bogging down SNAP in the heavy load cases, the delay function was modified to insert a brief space between packets when sent out as in groups. This brought the instantaneous packet rate down to a level that SNAP could handle, but still accurately simulating a real long-haul network environment.

3.12.4 SCRAMNet

SCRAMNet proved to be a very capable communication medium during NETS testing. SCRAMNet's high bandwidth allowed large amounts of data to be transferred - effectively acting as a continuous memory region at each computer. This high bandwidth would be very useful with simulations using Hardware in the Loop. SCRAMNet's speed also enabled the NETS simulation to perform operations within the same time frame - a necessity for high-accuracy simulations. SCRAMNet also proved easy to synchronize to the rest of the simulation architecture.

3.12.5 Dead Reckoning effects on Latency

One important lesson that was learned after data analysis was the effects of dead reckoning on overall end-to-end latency. Dead reckoning in the DIS protocol consists of two parts - one part at the sending simulation, and one at the receiving simulation. The sending application will only send out PDUs after a specific pre-defined time, rotational or positional threshold is reached. Once a PDU is received, that information is extrapolated by using that PDU's time-stamp to determine where that aircraft would be located at the current simulation time. The latency problem occurs at the sending simulation, and is basically derived from buffering. A simulation could conduct slight movements that are within the threshold range - in this case, no PDU is sent until the time threshold has been reached. When a simulation is performing a movement that exceeds the threshold, there is a gradual increase before the threshold is crossed that is the source of the delay. Worse, this delay is not predictable due to the timing thresholds. The positional thresholds could be exceeded just before or after a timing threshold, resulting in a longer or shorter time period between PDUs respectively. Example delays due to DR thresholds in the NETS study include: 316, 274, 236, 201, and 107 ms (Table 17, Table 18, and Table 19).

While it might be desirable to attempt to eliminate this source of latency within the end-to-end framework to obtain pure network delay values, it was deemed acceptable under NETS - and this is the key lesson that was learned. NETS conducted networking studies under realistic conditions, and these realistic conditions included operation of Dead Reckoning. Since Dead Reckoning would be used normally, it was deemed necessary to leave the latency resulting from Dead Reckoning in the overall calculations.

3.13 Future Work

A natural idea for follow-on work would be to take the architecture and network configurations recommended in this NETS report, and implement them in an operational capacity - to include obtaining a long-haul connection between two sites and conducting training tests.

HLA would be another area for follow-on work. Since HLA is a newer networking simulation method, studies comparing the performance of DIS and HLA in terms of latency, bandwidth and accuracies would be important.

Since the network architectures have now been investigated, a good follow-on project would be to conduct studies into network effects on various aspects of simulation using the best architecture and configuration determined from NETS. Weapons flyout options (discussed in Section 2.3.2) would be an excellent candidate. Issues such as operating a weapon's end-game at the target's simulation computers (synchronous), using a weapons server for all weapons, or other advanced weapon flyout notions are key future research areas.

4. Abbreviations

AFRL	-	Air Force Research Laboratory
AFRL/VACS	-	Air Vehicle Simulation Branch
ADS	-	Advanced Distributed Simulation
ASC	-	Aeronautical Systems Center
AMG	-	Architecture Management Group
API	-	Application Programming Interface
C4I	-	Command, Control, Communications, Computers and Intelligence
CSMA/CD	-	Carrier Sense Multiple Access/Collision Detection
DARPA	-	Defense Advanced Research Projects Agency
DD/PC	-	Data Dictionary/Protocol Catalog
DDR&E	-	Director, Defense Research & Engineering
DIS	-	Distributed Interactive Simulation
DMSO	-	Defense Modeling and Simulation Office
DoD	-	Department of Defense
ECM	-	Electronic Counter Measures
FOM	-	Federation Object Model
EVDAS	-	Electronic Visual Display Attitude Sensor
GPS	-	Global Positioning System
GUI	-	Graphical User Interface
HDD	-	Heads Down Display
HLA	-	High Level Architecture
HOTAS	-	Hands On Throttle and Stick
IEEE	-	Institute of Electrical and Electronics Engineers
I/O	-	Input/Output
IP	-	Internet Protocol
iRMX	-	Intel RMX
I/ITSEC	-	Interservice/Industry Training Systems and Education Conference
LAN	-	Local Area Network
LCD	-	Liquid Crystal Display
M&S	-	Modeling & Simulation
NETS	-	Network Evaluation for Training and Simulation
NIU	-	Network Interface Unit
OMT	-	Object Model Template
OTW	-	Out The Window
PCS	-	Piloted Combat Station
PDU	-	Protocol Data Unit
RMS	-	Reflective Memory System
RTI	-	Run Time Interface
SAM	-	Surface-to-air-Missile
SBIR	-	Small Business Innovative Research
SG	-	Silicon Graphics
SNAP	-	Simulation Network Analysis Project
SOM	-	Simulation Object Model
SPO	-	Systems Program Office
STGVIP	-	Special Task Group for Vision Implementation Plan
STOW	-	Synthetic Theater of War
STOW-E	-	Synthetic Theater of War in Europe
TBD	-	To Be Determined
TSPG	-	Training Systems Product Group
UDP/IP	-	User Datagram Protocol/Internet Protocol
USD(A&T)	-	Under Secretary of Defense for Acquisition and Technology
UTD	-	Unit Training Device
WAN	-	Wide Area Network
WPAFB	-	Wright Patterson Air Force Base

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6. APPENDIX A - HLA and DIS++

6.1 High Level Architecture (HLA)

In accordance with the Department of Defense (DoD) Modeling and Simulation (M&S) Master Plan (DoD 5000.59-P, dated October 1995), the Defense Modeling and Simulation Office (DMSO) is leading a DoD-wide effort to establish a common technical framework to facilitate the interoperability of all types of models and simulations among themselves and with Command, Control, Communications, Computers and Intelligence (C4I) systems, as well as to facilitate the reuse of M&S components. This Common Technical Framework includes the HLA, which represents the highest priority effort within the DoD modeling and simulation community. Initial definition of the M&S HLA was accomplished under the sponsorship of the Defense Advanced Research Projects Agency (DARPA) Advanced Distributed Simulation (ADS) program. It was transitioned to DMSO in March 1995 for further development by the DoD-wide Architecture Management Group (AMG). Central to this task was the development of a set of prototypes which addressed critical issues in the HLA. The HLA Baseline Definition was completed 21 August 1996. It was approved by the Under Secretary of Defense for Acquisition and Technology [USD(A&T)] as the standard technical architecture for all DoD simulations on 10 September 1996.

The DoD Modeling and Simulation Master Plan calls for a "review [of] all ongoing DoD M&S projects and/or programs by second quarter FY 1997 for feasibility of immediately adopting the HLA. If not immediately feasible, these reviews shall establish the date by which each program shall comply. If a specific M&S project and/or program is unable to comply with the HLA, the developing Component must report the reason(s) for non-compliance to DDR&E" (Director, Defense Research & Engineering).

HLA is defined in three parts by an interface specification: an Application Programming Interface (API) called a Run Time Infrastructure (RTI), an Object Model Template (OMT), and a set of underlying technical principles (rules).

HLA changes some existing terminology as well. A single simulation is considered a 'federate', and a collection of federates participating together in a joint simulation exercise or test is considered a 'federation'.

The following sections discuss the Run Time Infrastructure (information from Interface Specification Version 1.1 Final Draft dated 4 February 1997), Object Model Template (information from Object Model Template Version 1.1 dated 12 February 1997), and HLA Rules (information from HLA Rules Version 1.0 dated 15 August 1996). All these documents are available on the DMSO WWW site (<http://www.dmsol.mil>).

6.1.1 Run Time Infrastructure

The RTI provides services to federates in a way that is analogous to how a distributed operating system provides services to applications. These interfaces are arranged into the six basic RTI service groups given below:

- Federation Management
- Declaration Management
- Object Management
- Ownership Management

- Time Management
- Data Distribution Management

The six service groups describe the interface between the federates and the RTI, and the software services provided by the RTI for use by HLA federates. The initial set of these services was chosen to be those functions most likely to be required across multiple federations. As a result, federate applications will require most of the services described.

A concise and rigorous description of the object model framework is essential to the specification of the interface between federates and the RTI and of the RTI services. The rules and terminology used to describe a Federation Object Model (FOM) are described in the "High Level Architecture Object Model Template". A Simulation Object Model (SOM) describes salient characteristics of a federate to aid in its reuse and other activities focused on the details of its internal operation and as such is not the concern of the RTI and its services. A FOM, on the other hand, deals with inter-federate issues and is relevant to the use of the RTI. The DoD HLA definition states that federation object models describe:

- The set of object classes chosen to represent the real world for a planned federation,
- The set of interaction classes chosen to represent the interplay among real world objects,
- The attribute and parameters of these classes,
- The level of detail at which these classes represent the real world, including all characteristics.

Every object is an instance of an object class found in the FOM. Object class names are chosen by the object model designer to facilitate a desired organizational scheme. Each object class has a set of attribute names associated with it. An *attribute* is a named portion of the object state. In this discussion, "attribute name" refers to the name of the attribute and "attribute value" refers to its contents. From the federation perspective, the set of all attribute values for a particular object completely defines the state of the object. Federates are free to associate additional state information with an object that is not communicated between federates, but this is outside the HLA federation object model purview.

Federates use the state of the objects as one of the primary means of communication. At any given time only one federate is responsible for simulating a given object attribute. That federate provides new values for that attribute to the other federates in the federation execution through the RTI services. The federate providing the new attribute values is said to be *updating* that attribute value. Federates receiving those values are said to be *reflecting* that attribute.

The privilege to update a value for an attribute is uniquely held by a single federate at any given time during a federation execution. A federate that has the privilege to update values for an attribute is said to *own* that attribute. The RTI provides services that allow federates to exchange ownership of object attributes. The federate that registers an object implicitly has the privilege to delete that object. The RTI provides services that allow federates to transfer the "privilegeToDeleteObject" attribute in the same way as other attributes.

All objects have an ID. The value of the ID is unique for each federation execution. Object IDs are dynamically generated by an RTI service or can be drawn from a pool of reserved values. These reserved values are set aside for special situations where federates must have knowledge of object IDs before a federation execution begins.

The FOM framework also allows for interaction classes for each object model. The types of interactions possible between different classes of objects, their affected attributes and the interaction parameters are specified. An interaction is an explicit action taken by an object, that can optionally be directed toward another object.

A *federation* is the combination of a particular FOM, a particular set of federates, and the RTI services. A federation is designed for a specific purpose using a commonly understood federation object model and a set of federates that can associate their individual semantics with that object model. A *federation execution* is an instance of executing the federation with a specific FOM, an RTI and using various execution details.

6.1.2 Object Model Template

HLA object models are composed of a group of interrelated components specifying information about classes of objects, their attributes, and their interactions. While it is possible to represent the information content of these components in many different ways, the HLA requires documentation of these components in the form of tables. The template for the core of an HLA object model uses a tabular format and consists of the following components:

- **Object Class Structure Table:** To record the subclass-superclass relations between different types of simulation/federation objects.
- **Object Interaction Table:** To record the types of interactions possible between different classes of objects, their affected attributes, and the interaction parameters.
- **Attribute/Parameter Table:** To specify features of the public attributes of objects and the parameters of interactions in a simulation/federation.
- **FOM/SOM Lexicon:** To define all of the terms used in the tables.

Both federations and individual simulations (federates) are required to use all four of the core OMT components when providing an HLA object model, although, in some cases, certain tables may be empty. Since all object information is classified by object classes, there must be at least one object class for any meaningful HLA object model. Thus, every HLA object model must have an Object Class Structure Table containing at least one object class.

While federations typically will support interactions among some of the objects of its federates, some federates (such as a stealth viewer) might not be involved in interactions, so the Object Interaction Table may be empty for some HLA object models. It is expected that federates will commonly have objects with attributes of interest across the federation, in which cases, their documentation in the Attribute/Parameter Table is required. However, a federate or an entire federation may exchange information solely via interactions, in which case its Attribute/Parameter Table may be empty. While either the Object Interaction Table or the Attribute/Parameter Table may, thus, be empty, an HLA object model would not be of much use if both of these tables were empty since such a model would not support any exchange of information between federates except for notifications of the existence of objects.

The final HLA OMT component, the FOM/SOM Lexicon, is essential to ensure that the semantics of the terms used in an HLA object model are understood and documented. Since there will always be at least one term in an HLA object model, there will always be at least one term defined in the Lexicon, and ordinarily many more.

In addition to the OMT components shown above, federates and federations may also include supplemental categories of descriptive information in order to facilitate a more complete understanding of the object model. The format and content of this optional information is provided in the OMT Extensions Document.

6.1.3 Rules

General principles defining the HLA are described and the set of rules which apply to HLA federations and federates are delineated. Each rule is then described. Further information on these rules can be found at DMSO.

Rules for federations are:

- 1 Federations shall have an HLA Federation Object Model, documented in accordance with the HLA Object Model Template.
- 2 In a federation, all representation of objects in the FOM shall be in the federates, not in the runtime infrastructure.
- 3 During a federation execution, all exchange of FOM data among federates shall occur via the RTI.
- 4 During a federation execution, federates shall interact with the Runtime Infrastructure in accordance with the HLA interface specification.
- 5 During a federation execution, an attribute of an instance of an object shall be owned by only one federate at any given time.

Rules for federates are:

- 1 Federates shall have an HLA Simulation Object Model, documented in accordance with the HLA Object Model Template.
- 2 Federates shall be able to update and/or reflect any attributes of objects in their SOM and send and/or receive SOM object interactions externally, as specified in their SOM.
- 3 Federates shall be able to transfer and/or accept ownership of attributes dynamically during a federation execution, as specified in their SOM.
- 4 Federates shall be able to vary the conditions (e.g., thresholds) under which they provide updates of attributes of objects, as specified in their SOM.
- 5 Federates shall be able to manage local time in a way which will allow them to coordinate data exchange with other members of a federation.

6.2 DIS++

The name DIS++ has been chosen to communicate the essential objective of expanding the standards development activities to include both the High Level Architecture and other members of the modeling and simulation community. DIS++ refers to the evolution of the DIS standards to cover areas of modeling and simulation identified in the DIS Vision document but not addressed in the current standards (e.g. event driven simulations, analytic models, interfaces to operational systems).

DIS++ standards development will be conducted by the standards development organization and processes resulting from implementing the plan prepared by the current Special Task Group for Vision Implementation Plan (STGVIP) . The DIS++ standards workshop will

assume responsibility for standardization of the main components of the baseline HLA and other standards important to the M&S community as part of the normal standards development process. The DIS++ standards body will also expand the DIS DD/PC (Data Dictionary/Protocol Catalog) to include common data structures needed by DIS++ applications. This expanded product will be called simply the DIS++ Protocol Catalog.

The difference between DIS++ and HLA is that HLA is an architecture, defined by an interface specification (with corresponding API), an Object Model Template, and a set of underlying technical principles (rules). DIS++ is a set of standards supporting this architecture. It is envisioned that, during the design and implementation of an HLA federation, certain resources, such as a Protocol Catalog (an extension of the DIS Data Dictionary/Protocol Catalog) will be available through on-line repositories. Note that there is still considerable confusion between the terms DIS++ and HLA and what each notion entails and represents. The next few years will determine the true status of these architectures and implementation standards.

There will not be a DIS 3.0, in the sense of another DIS generation between the current 2.x standard and the HLA compliant version. Future evolution of DIS is denoted DIS++. The architecture adopted for DIS++ is HLA.

7. APPENDIX B - Simulation Recorded Data

This appendix contains the reduced version of the data recorded by the simulations. The raw data files were enormous, and were therefore reduced to be presented in this report. These data files contain:

- DIS Interface #1 Timing Information
- DIS Interface #2 Timing Information
- Delay Function PDU Information (one side of the delay function only)
- Delay Function Frame Timing Information (one side of the delay function only)
- Delay Function Total PDU count
- Delay Function PDU Delays (Side One)
- Delay Function PDU Delays (Side Two)
- Code Timings (see Section 3)
- SNAP Timing Data for the WAN
- Piloted Simulator's ('SEL-J') Information about Piloted Simulator ('SEL-G')
- Piloted Simulator's ('SEL-G') Information about Piloted Simulator ('SEL-J')
- SNAP's Recordings on Sel-J's Information about Digital #1 (1J) on Sel-J's LAN
- SNAP's Recordings on Sel-J's Information about Digital #2 (2J) on Sel-J's LAN
- SNAP's Recordings on Sel-J's Information about Digital #3 (3J) on Sel-J's LAN
- SNAP's Recordings on Sel-J's Information about Digital #1 (1G) on Sel-G's LAN (across WAN)
- SNAP's Recordings on Sel-J's Information about Digital #2 (2G) on Sel-G's LAN (across WAN)
- SNAP's Recordings on Sel-J's Information about Digital #3 (3G) on Sel-G's LAN (across WAN)
- SNAP's Recordings on Sel-G's Information about Digital #1 (1G) on Sel-G's LAN
- SNAP's Recordings on Sel-G's Information about Digital #2 (2G) on Sel-G's LAN
- SNAP's Recordings on Sel-G's Information about Digital #3 (3G) on Sel-G's LAN
- SNAP's Recordings on Sel-G's Information about Digital #1 (1J) on Sel-J's LAN (across WAN)
- SNAP's Recordings on Sel-G's Information about Digital #2 (2J) on Sel-J's LAN (across WAN)
- SNAP's Recordings on Sel-G's Information about Digital #3 (3J) on Sel-J's LAN (across WAN)

DIS Interface #1 & #2 Timing Information

This data, spread out over two groupings is information about the DIS Interface. There were two DIS Interfaces, resulting in two sets of identical information. This timing data is very similar to the NIU code timings mentioned previously in the report. Each set contains identical information:

1. Filename for DIS Interface #1 or #2 data.
2. The number of frames used during the test run.
3. The average time of execution (in seconds) of the DIS Interface.
4. The maximum time of execution (in seconds) of the DIS Interface.
5. The 2nd maximum time of execution (in seconds) of the DIS Interface. This datapoint is taken since initialization is done during the first frame of execution - typically resulting in the maximum execution time always being during the first frame. The 2nd maximum time will usually be the main datapoint during a run that isn't influenced by initialization overhead.
6. The minimum time of execution (in seconds) of the DIS Interface.
7. The number of errors (a debug feature). This indicates how many frame times executed in over 20ms.

Delay Function PDU Information

This data set contains the following information about the Delay Function's PDU count (one side only):

1. The filename holding this and the rest of the information in Appendix B.
2. The total number of PDUs sent to the delay function from this one side.
3. The total number of PDUs sent to the delay function from this one side according to the 'count' variable (used for debugging).
4. The average number of PDU's per second transmitted. This number is not really the number of PDU's sent - rather it's an indication of the 'bursting' or 'blitzing' of the network. The number of PDU's that were sent is listed as item number 2 above - but these were sent out so quickly that it resulted in the average PDU's per second rating listed here.
5. The maximum number of PDU's per second transmitted ('bursting' as described above).
6. The 2nd maximum number of PDU's per second transmitted ('bursting' as described above). This datapoint is taken since initialization is done during the first frame of execution - typically resulting in the maximum execution time always being during the first frame. The 2nd maximum time will usually be the main datapoint during a run that isn't influenced by initialization overhead.
7. The minimum number of PDU's per second transmitted ('bursting' as described above).

Delay Function Frame Timing Information

This data set contains the following timing information about the Delay Function (one side only):

1. The number of frames used during the test run.
2. The average time of execution (in seconds) of the Delay Function.
3. The maximum time of execution (in seconds) of the Delay Function.
4. The 2nd maximum time of execution (in seconds) of the Delay Function. This datapoint is taken since initialization is done during the first frame of execution - typically resulting in the maximum execution time always being during the first frame. The 2nd maximum time will usually be the main datapoint during a run that isn't influenced by initialization overhead.
5. The minimum time of execution (in seconds) of the Delay Function.

Delay Function Total PDU Count

This data point displays the number of PDUs that were received by the Delay Function from each side.

Delay Function PDU Delays (Side One [Buffer 1] & Side Two [Buffer 2])

This data displays the WAN Delay Function's PDU delays (as recorded by the simulation) for this particular side of the Delay Function. SNAP recorded this information also (listed below). The data includes:

1. Number of PDUs handled by this side of the delay function.
2. Average Delay Function latency in seconds.
3. Variance of the Delay Function latency in seconds.
4. Maximum Delay Function latency in seconds.
5. 2nd Maximum PDU latency in seconds. This datapoint is taken since initialization is done during the first frame of execution - typically resulting in the maximum execution time always being during the first frame. The 2nd maximum time will usually be the main datapoint during a run that isn't influenced by initialization overhead.
6. Minimum Delay Function latency in seconds.

Code Timings

This data displays the timing data (in seconds) for each delay variable in the architecture (T_{ss} , T_{ns} , T_{nr} , T_{rs} , NIU , T_{gs} , T_{gr}).

SNAP Timing Data for the WAN

This data displays the SNAP-recorded information about the WAN network latency for the PDUs for this particular test run. The data includes:

1. Average PDU WAN latency in seconds.
2. Maximum PDU WAN latency in seconds.
3. Minimum PDU WAN latency in seconds.
4. PDU WAN latency Variance in seconds.
5. PDU WAN latency Standard Deviation in seconds.

Piloted Simulator's ('SEL-J') Information about Piloted Simulator ('SEL-G')

This data is the accuracy data recorded by the simulation computers. This data includes accuracy information relating to where SEL-J thinks SEL-G is located. The data includes:

1. Data file name - when j is first, the data is for where j 'thinks it knows' g is located. When g is first, the data is for where g 'thinks it knows' j is located.
2. Data file name - the truth data of SEL-G is located here.
3. Average positional error (in feet).
4. Standard deviation of state variable truth data (in feet).
5. Maximum positional error (in feet).
6. Minimum positional error (in feet).

Piloted Simulator's ('SEL-G') Information about Piloted Simulator ('SEL-J')

This data is the accuracy data recorded by the simulation computers. This data includes accuracy information relating to where SEL-G thinks SEL-J is located. The data includes:

1. Data file name - when j is first, the data is for where j 'thinks it knows' g is located. When g is first, the data is for where g 'thinks it knows' j is located.
2. Data file name - the truth data of SEL-J is located here.
3. Average positional error (in feet).
4. Standard deviation of state variable truth data (in feet).
5. Maximum positional error (in feet).
6. Minimum positional error (in feet).

Piloted Simulator Information About Digital Players

These data sets, contained over twelve different groupings contains the truth data comparisons for where each piloted player 'thinks it knows' where each individual digital player is (both on the local LAN, and across the WAN on the other LAN). The data sets were developed by combining information from the simulator data files (DCU data) and the SNAP data files. The data includes:

1. Data file names - when j is first (the first letter after "../DCU/"), the data is for where j 'thinks it knows' the digital player is located. The digital player is marked by digi1j, digi2j, digi3j, digi1g, digi2g, digi3g (last letters in the filename) which represents which digital player is being compared and whether it is on J or G's LAN. For example, digi1j would be digital player number one on J's LAN, and digi3g would be digital player number three on G's LAN.
2. Average positional error (in feet).
3. Standard deviation of state variable truth data (in feet).
4. Maximum positional error (in feet).
5. Minimum positional error (in feet).

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7.1.1 Stats.001

/usr1/figd/DIS2.2/dis4.stats

Frames : 503

Average: 0.000938559

Maximum: 0.006525

2nd Max: 0.003263

Minimum: 0.000396

RateErr: 0

/usr1/figd/DIS2.2/dis3.stats

Frames : 503

Average: 0.00104605

Maximum: 0.00603

2nd Max: 0.002867

Minimum: 0.000494

RateErr: 0

/sg16/usr1/nets/DISNET/disnet7.stats

PDU's : 23

Count : 23

Average: 1822.88

Maximum: 2525.25

2nd Max: 2020.2

Minimum: 1445.09

Frames : 448195

Average: 0.000218047

Maximum: 0.010692

2nd Max: 0.010198

Minimum: 1.8e-05

PDU's from Net1: 20

PDU's from Net2: 23

PDU Buffer 1

-- Stats from CircularBuffer --

NumPass: 20

Average: 0.0466552

Variance: 6.66863e-05

Maximum: 0.069009

2nd Max: 0.062583

Minimum: 0.03401

-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --

NumPass: 23

Average: 0.0461147

Variance: 0.000157366

Maximum: 0.067032

2nd Max: 0.063373

Minimum: 0.022542

-- End Stats from CircularBuffer --

Code Times

Tss avg.:

0.00070326441356094807

Tns avg.:

0.00040360834975423714

Tnr avg.:

0.00054854274350790136

Trs avg.:

0.0002026898609025304

NIU avg.:

0.0010018330017925439

Tgs avg.: 0

Tgr avg.:

0.00029541152916158037

SNAPPdus.pl

Average: 0.049454

Maximum: 0.076808

Minimum: 0.023941

Variance: 0.000124

Std Dev : 0.011155

DCUAccuracy

j12may.001.dat.g

g12may.001.dat.ownship

Average:

12.487167507229

Stdev : 0.893705904484

Max : 13.369897842407

Min : 1.230449080467

DCUAccuracy

g12may.001.dat.j

j12may.001.dat.ownship

Average:

12.891733541091

Stdev : 1.081881761551

Max : 19.601392745972

Min : 0.323610872030

SNAPAccuracy

../DCU/j12may.001.dat.1j

s211t3.dat.digi1J

Average: 5.755068150478

Stdev : 0.174107715487

Max : 5.958129882812

Min : 2.680000066757

SNAPAccuracy

../DCU/j12may.001.dat.2j

s211t3.dat.digi2J

Average: 6.066122418012

Stdev : 0.175081104040

Max : 6.268000125885

Min : 2.976000070572

SNAPAccuracy

../DCU/j12may.001.dat.3j

s211t3.dat.digi3J

Average: 6.346697659027

Stdev : 0.177354797721

Max : 6.565000057220

Min : 3.243000030518

SNAPAccuracy

../DCU/j12may.001.dat.1g

s211t3.dat.digi1G

Average: 5.716191287497

Stdev : 0.473296046257

Max : 5.950930118561

Min : 0.101999998093

SNAPAccuracy

../DCU/j12may.001.dat.2g

s211t3.dat.digi2G

Average: 6.008712511758

Stdev : 0.659712910652

Max : 6.268000125885

Min : 0.203000009060

SNAPAccuracy

../DCU/j12may.001.dat.3g

s211t3.dat.digi3G

Average: 6.307518624014

Stdev : 0.488996177912

Max : 6.565000057220

Min : 0.500000000000

SNAPAccuracy

../DCU/g12may.001.dat.1j

s211t3.dat.digi1J

Average: 5.753017559060

Stdev : 0.676035702229

Max : 6.017230033875

Min : 0.013000000268

SNAPAccuracy

../DCU/g12may.001.dat.2j

s211t3.dat.digi2J

Average: 6.107633084485

Stdev : 0.484505623579

Max : 6.341000080109

Min : 0.291999995708

SNAPAccuracy

../DCU/g12may.001.dat.3j

s211t3.dat.digi3J

Average: 6.373979160438

Stdev : 0.682054340839

Max : 6.638000011444

Min : 0.588999986649

SNAPAccuracy

../DCU/g12may.001.dat.1g

s211t3.dat.digi1G

Average: 5.836782259100
Stdev : 0.165568843484
Max : 6.043330192566
Min : 3.019999980927

SNAPAccuracy
../DCU/g12may.001.dat.2g
s211t3.dat.digi2G
Average: 6.147884040527
Stdev : 0.165518030524
Max : 6.341000080109
Min : 3.346999883652

SNAPAccuracy
../DCU/g12may.001.dat.3g
s211t3.dat.digi3G
Average: 6.428497863831
Stdev : 0.166849672794
Max : 6.638000011444
Min : 3.643000125885

7.1.2 Stats.002

/usr1/figd/DIS2.2/dis4.stats
Frames : 503
Average: 0.00203726
Maximum: 0.012372
2nd Max: 0.007414
Minimum: 0.000495
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
Frames : 501
Average: 0.00189054
Maximum: 0.00613
2nd Max: 0.002076
Minimum: 0.000396
RateErr: 0

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 1001
Count : 951
Average: 2034.78
Maximum: 10638.3
2nd Max: 3367
Minimum: -2457

Frames : 373621
Average: 0.000220687
Maximum: 0.011088
2nd Max: 0.010396
Minimum: 1.9e-05

PDUs from Net1: 1000

PDUs from Net2: 1001

PDU Buffer 1
-- Stats from
CircularBuffer --
NumPass: 1000
Average: 0.045995
Variance: 9.96692e-05
Maximum: 0.073656
2nd Max: 0.070393
Minimum: 0.015719
-- End Stats from
CircularBuffer --

PDU Buffer 2
-- Stats from
CircularBuffer --
NumPass: 1001
Average: 0.0453203
Variance: 0.000103803
Maximum: 0.079998
2nd Max: 0.070887
Minimum: 0.010183
-- End Stats from
CircularBuffer --

SNAPPdus.pl
Average: 0.051628
Maximum: 0.089469
Minimum: 0.011618
Variance: 0.000114
Std Dev : 0.010654

SNAPTimes.pl s231t3.dat |
SNAPCodeTimes.pl
Sel-J Tss avg.:
0.00070110159357722132
Sel-J Tns avg.:
0.00031842031884628654
Sel-J Tnr avg.:
0.0014012031873087008
Sel-J Trs avg.:
0.0001892529880679936
Sel-J NIU avg.:
0.0017702749005203001
Sel-J Tgs avg.: 0
Sel-J Tgr avg.:
0.00029541035691221465

DCUAccuracy
j12may.002.dat.g
g12may.002.dat.ownship
Average:
12.552493351121
Stdev : 0.239804223180
Max : 13.377373695374
Min : 12.115049362183

DCUAccuracy g12may.002.dat.j
j12may.002.dat.ownship
Average: 12.863048983102
Stdev : 0.246836408973
Max : 13.675812721252
Min : 12.393345832825

SNAPAccuracy
../DCU/j12may.002.dat.1j
s231t3.dat.digi1J
Average: 5.751956964743
Stdev : 0.108648218215
Max : 5.957880020142
Min : 5.541999816895

SNAPAccuracy
../DCU/j12may.002.dat.2j
s231t3.dat.digi2J
Average: 13.625763442300
Stdev : 2.660414934158
Max : 17.502138137817
Min : 9.211404800415

SNAPAccuracy
../DCU/j12may.002.dat.3j
s231t3.dat.digi3J
Average: 15.419030037312
Stdev : 2.584115266800
Max : 19.176839828491
Min : 9.979197502136

SNAPAccuracy
../DCU/j12may.002.dat.1g
s231t3.dat.digi1G
Average: 5.738119830770
Stdev : 0.106105975807
Max : 5.949999809265
Min : 5.541999816895

SNAPAccuracy
../DCU/j12may.002.dat.2g
s231t3.dat.digi2G
Average: 19.746663446349
Stdev : 2.911425590515
Max : 29.613281250000
Min : 13.149539947510

SNAPAccuracy
../DCU/j12may.002.dat.3g
s231t3.dat.digi3G
Average: 21.117265028682
Stdev : 2.891068935394
Max : 29.750019073486
Min : 13.490432739258

SNAPAccuracy
../DCU/g12may.002.dat.1j
s231t3.dat.digi1J
Average: 5.817789268888

Stdev : 0.104382924736
Max : 6.019999980927
Min : 5.631000041962

SNAPAccuracy
../DCU/g12may.002.dat.2j
s231t3.dat.digi2J
Average: 19.804669525861
Stdev : 2.679460763931
Max : 27.555639266968
Min : 11.966495513916

SNAPAccuracy
../DCU/g12may.002.dat.3j
s231t3.dat.digi3J
Average: 21.322613459741
Stdev : 2.747789382935
Max : 29.074880599976
Min : 13.764869689941

SNAPAccuracy
../DCU/g12may.002.dat.1g
s231t3.dat.digi1G
Average: 5.831541607597
Stdev : 0.107604861259
Max : 6.034679889679
Min : 5.631000041962

SNAPAccuracy
../DCU/g12may.002.dat.2g
s231t3.dat.digi2G
Average: 13.785680603259
Stdev : 2.694963693619
Max : 17.727128982544
Min : 9.338016510010

SNAPAccuracy
../DCU/g12may.002.dat.3g
s231t3.dat.digi3G
Average: 15.626391963766
Stdev : 2.595928907394
Max : 19.405294418335
Min : 10.085804939270

7.1.3 Stats.003

/usr1/figd/DIS2.2/dis4.stats
Frames : 500
Average: 0.00139187
Maximum: 0.010594
2nd Max: 0.006327
Minimum: 0.000888
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats

Frames : 501
Average: 0.00161068
Maximum: 0.006921
2nd Max: 0.001384
Minimum: 0.000889
RateErr: 0

/sg16/usr1/nets/DISNET/di
snet7.stats
PDUs : 516
Count : 506
Average: 1899.17
Maximum: 10869.6
2nd Max: 3378.38
Minimum: -234.824

Frames : 438440
Average: 0.00022167
Maximum: 0.010989
2nd Max: 0.010198
Minimum: 1.8e-05

PDUs from Net1: 513
PDUs from Net2: 516

PDU Buffer 1
- Stats from
CircularBuffer --
NumPass: 513
Average: 0.0448568
Variance: 8.96979e-05
Maximum: 0.07761
2nd Max: 0.072864
Minimum: 0.012754
- End Stats from
CircularBuffer --

PDU Buffer 2
- Stats from
CircularBuffer --
NumPass: 516
Average: 0.0451316
Variance: 9.44353e-05
Maximum: 0.070887
2nd Max: 0.068514
Minimum: 0.007613
- End Stats from
CircularBuffer --

SNAPPdus.pl
Average: 0.049168
Maximum: 0.081722
Minimum: 0.013361
Variance: 0.000094
Std Dev : 0.009717

SNAPTtimes.pl
Sel-J Tss avg.:
0.00065354980075332076

Sel-J Tns avg.:
0.00042651792823182106
Sel-J Tnr avg.:
0.0010404621516282493
Sel-J Trs avg.:
0.0006272948208296082
Sel-J NIU avg.:
0.0015195796812735628
Sel-J Tgs avg.: 0
Sel-J Tgr avg.:
0.00029541035691221465

DCUAccuracy j12may.003.dat.g
g12may.003.dat.ownship
Average: 12.542753096301
Stdev : 0.249669313431
Max : 13.431278228760
Min : 12.019831657410

DCUAccuracy g12may.003.dat.j
j12may.003.dat.ownship
Average: 12.897736393322
Stdev : 0.234322860837
Max : 13.736789703369
Min : 12.401119232178

SNAPAccuracy
../DCU/j12may.003.dat.1j
s221t3.dat.digi1J
Average: 5.741522681761
Stdev : 0.108854852617
Max : 5.965000152588
Min : 5.526000022888

SNAPAccuracy
../DCU/j12may.003.dat.2j
s221t3.dat.digi2J
Average: 6.068035454156
Stdev : 0.108165621758
Max : 6.266990184784
Min : 5.864999771118

SNAPAccuracy
../DCU/j12may.003.dat.3j
s221t3.dat.digi3J
Average: 14.545737239730
Stdev : 2.349464178085
Max : 18.161069869995
Min : 9.599011421204

SNAPAccuracy
../DCU/j12may.003.dat.1g
s221t3.dat.digi1G
Average: 5.738428297543
Stdev : 0.108680464327
Max : 5.965000152588
Min : 5.521999835968

SNAPAccuracy
../DCU/j12may.003.dat.2g
s221t3.dat.digi2G
Average: 6.065186846641
Stdev : 0.107785135508
Max : 6.261000156403
Min : 5.864999771118

SNAPAccuracy
../DCU/j12may.003.dat.3g
s221t3.dat.digi3G
Average: 20.103879876570
Stdev : 2.707454681396
Max : 29.867988586426
Min : 13.289018630981

SNAPAccuracy
../DCU/g12may.003.dat.1j
s221t3.dat.digi1J
Average: 5.837389351892
Stdev : 0.106058605015
Max : 6.033999919891
Min : 5.638999938965

SNAPAccuracy
../DCU/g12may.003.dat.2j
s221t3.dat.digi2J
Average: 6.145868247446
Stdev : 0.107483670115
Max : 6.345290184021
Min : 5.934999942780

SNAPAccuracy
../DCU/g12may.003.dat.3j
s221t3.dat.digi3J
Average: 20.026624587088
Stdev : 2.535664319992
Max : 29.037858963013
Min : 11.242247581482

SNAPAccuracy
../DCU/g12may.003.dat.1g
s221t3.dat.digi1G
Average: 5.822608978394
Stdev : 0.108845494688
Max : 6.033999919891
Min : 5.610000133514

SNAPAccuracy
../DCU/g12may.003.dat.2g
s221t3.dat.digi2G
Average: 6.149152114209
Stdev : 0.108145900071
Max : 6.356090068817
Min : 5.934999942780

SNAPAccuracy
../DCU/g12may.003.dat.3g
s221t3.dat.digi3G

Average:
14.890643793895
Stdev : 2.481486797333
Max : 18.409097671509
Min : 9.822422981262

7.1.4 Stats.004

/usr1/figd/DIS2.2/dis4.stats
Frames : 503
Average: 0.00225484
Maximum: 0.006031
2nd Max: 0.001384
Minimum: 0.00089
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
Frames : 503
Average: 0.00235948
Maximum: 0.012472
2nd Max: 0.006624
Minimum: 0.00089
RateErr: 0

/sg16/usr1/nets/DISNET/di
snet7.stats
PDUs : 1511
Count : 1337
Average: 2020.17
Maximum: 3378.38
2nd Max: 3378.38
Minimum: -630.994

Frames : 318297
Average: 0.000225836
Maximum: 0.011483
2nd Max: 0.010494
Minimum: 8.8e-05

PDUs from Net1: 1508
PDUs from Net2: 1511

PDU Buffer 1
-- Stats from
CircularBuffer --
NumPass: 1508
Average: 0.0451403
Variance: 9.96256e-05
Maximum: 0.080972
2nd Max: 0.072271
Minimum: 0.007119
-- End Stats from
CircularBuffer --

PDU Buffer 2
-- Stats from CircularBuffer --
NumPass: 1511
Average: 0.0454999
Variance: 9.5514e-05
Maximum: 0.076325
2nd Max: 0.073161
Minimum: 0.015127
-- End Stats from CircularBuffer --

SNAPPdus.pl
Average: 0.048624
Maximum: 0.085990
Minimum: 0.009476
Variance: 0.000100
Std Dev : 0.010008

SNAPTtimes.pl
Sel-J Tss avg.:
0.00069895219151719118
Sel-J Tns avg.:
0.00034208964153871951
Sel-J Tnr avg.:
0.0019516115536529707
Sel-J Trs avg.:
0.00048310756963372521
Sel-J NIU avg.:
0.002323033864603172
Sel-J Tgs avg.: 0
Sel-J Tgr avg.:
0.00029541035691221465

DCUAccuracy j12may.004.dat.g
g12may.004.dat.ownship
Average: 12.547289384950
Stdev : 0.238720118999
Max : 13.370841979980
Min : 12.042332649231

DCUAccuracy g12may.004.dat.j
j12may.004.dat.ownship
Average: 12.896915426158
Stdev : 0.225177273154
Max : 13.675244331360
Min : 12.455402374268

SNAPAccuracy
../DCU/j12may.004.dat.1j
s241t3.dat.digi1J
Average: 13.344591117767
Stdev : 2.591045379639
Max : 17.282411575317
Min : 9.048884391785

SNAPAccuracy
../DCU/j12may.004.dat.2j
s241t3.dat.digi2J
Average: 14.277028930235
Stdev : 2.790544748306

Max : 18.270502090454
Min : 9.589523315430

SNAPAccuracy
../DCU/j12may.004.dat.3j
s241t3.dat.digi3J
Average: 15.897639946765
Stdev : 2.731149673462
Max : 19.434999465942
Min : 10.508561134338

SNAPAccuracy
../DCU/j12may.004.dat.1g
s241t3.dat.digi1G
Average: 19.418693565553
Stdev : 2.622908592224
Max : 26.557821273804
Min : 12.749041557312

SNAPAccuracy
../DCU/j12may.004.dat.2g
s241t3.dat.digi2G
Average: 19.945093233739
Stdev : 2.648649215698
Max : 29.990840911865
Min : 13.322060585022

SNAPAccuracy
../DCU/j12may.004.dat.3g
s241t3.dat.digi3G
Average: 20.863587346703
Stdev : 2.763794898987
Max : 30.218219757080
Min : 13.736937522888

SNAPAccuracy
../DCU/g12may.004.dat.1j
s241t3.dat.digi1J
Average: 19.552829761737
Stdev : 2.654239892960
Max : 29.712064743042
Min : 11.074309349060

SNAPAccuracy
../DCU/g12may.004.dat.2j
s241t3.dat.digi2J
Average: 20.010528750958
Stdev : 2.589186191559
Max : 33.949886322021
Min : 13.510099411011

SNAPAccuracy
../DCU/g12may.004.dat.3j
s241t3.dat.digi3J
Average: 20.999985261397
Stdev : 2.793797969818
Max : 30.059724807739
Min : 13.848550796509

SNAPAccuracy
../DCU/g12may.004.dat.1g
s241t3.dat.digi1G
Average:
13.507763797500
Stdev : 2.615434646606
Max : 17.321367263794
Min : 9.172262191772

SNAPAccuracy
../DCU/g12may.004.dat.2g
s241t3.dat.digi2G
Average:
14.441895335554
Stdev : 2.821413516998
Max : 18.432174682617
Min : 9.736065864563

SNAPAccuracy
../DCU/g12may.004.dat.3g
s241t3.dat.digi3G
Average:
16.085508444223
Stdev : 2.753798484802
Max : 19.582908630371
Min : 11.464404106140

7.1.5 Stats.005

/usr1/figd/DIS2.2/dis_lite3.
stats
Frames : 501
Average: 0.00103507
Maximum: 0.007019
2nd Max: 0.001483
Minimum: 0.000494
RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.
stats
Frames : 502
Average: 0.00103141
Maximum: 0.00613
2nd Max: 0.001879
Minimum: 0.000494
RateErr: 0

/sg16/usr1/nets/DISNET/di
snet7.stats
PDUs : 21
Count : 20
Average: 2050.7
Maximum: 2538.07
2nd Max: 2531.65
Minimum: -107.434

Frames : 489862
Average: 0.000217611
Maximum: 0.010199
2nd Max: 0.010198
Minimum: 1.8e-05

PDUs from Net1: 17
PDUs from Net2: 21

PDU Buffer 1
-- Stats from CircularBuffer --
NumPass: 17
Average: 0.0426695
Variance: 6.53301e-05
Maximum: 0.054278
2nd Max: 0.052696
Minimum: 0.028671
-- End Stats from CircularBuffer --

PDU Buffer 2
-- Stats from CircularBuffer --
NumPass: 21
Average: 0.0505073
Variance: 0.000167107
Maximum: 0.074545
2nd Max: 0
Minimum: 0.025903
-- End Stats from CircularBuffer --

SNAPPdus.pl
Average: 0.115484
Maximum: 1.765728
Minimum: 0.013062
Variance: 0.090626
Std Dev : 0.301041

SNAPTimes.pl
Sel-J Tss avg.:
0.00076193041759487574
Sel-J Tns avg.:
0.00034746520847168233
Sel-J Tnr avg.:
0.00055802186902901283
Sel-J Trs avg.:
0.00018099801175487941
Sel-J NIU avg.:
0.00094991650113074029
Sel-J Tgs avg.: 0
Sel-J Tgr avg.:
0.00029541152916158037

DCUAccuracy j12may.005.dat.g
g12may.005.dat.ownship
Average: 38.584397426018
Stdev : 26.366994857788
Max : 77.838874816895
Min : 12.500296592712

DCUAccuracyLite j12may.005.dat.g
g12may.005.dat.ownship 60.0
Average: 12.736379794391
Stdev : 0.185560241342
Max : 13.544171333313
Min : 12.500296592712

DCUAccuracy g12may.005.dat.j
j12may.005.dat.ownship
Average: 38.442479085441
Stdev : 25.716157913208
Max : 64.967277526855
Min : 12.881242752075

DCUAccuracyLite g12may.005.dat.j
j12may.005.dat.ownship 60.0
Average: 13.088355660913
Stdev : 0.176170215011
Max : 13.863429069519
Min : 12.881242752075

SNAPAccuracy
../DCU/j12may.005.dat.1j
s211t3l.dat.digi1J fix
Average: 5.802040089480
Stdev : 0.110245451331
Max : 6.047399997711
Min : 5.585000038147

SNAPAccuracy
../DCU/j12may.005.dat.2j
s211t3l.dat.digi2J fix
Average: 5.802040089480
Stdev : 0.110245451331
Max : 6.047399997711
Min : 5.585000038147

SNAPAccuracy
../DCU/j12may.005.dat.3j
s211t3l.dat.digi3J fix
Average: 8.777604868538
Stdev : 3.000212907791
Max : 12.008999824524
Min : 5.638000011444

SNAPAccuracy
../DCU/j12may.005.dat.1g
s211t3l.dat.digi1G fix
Average: 23.805767543917
Stdev : 0.110307663679
Max : 24.017000198364
Min : 23.586999893188

SNAPAccuracy
../DCU/j12may.005.dat.2g
s211t3l.dat.digi2G fix
Average: 29.801964034879
Stdev : 0.543057799339
Max : 30.017400741577

Min : 18.000000000000
SNAPAccuracy
../DCU/j12may.005.dat.3g
s211t3l.dat.digi3G fix
Average:
26.753184217748
Stdev : 3.000936269760
Max : 30.009000778198
Min : 23.625000000000

SNAPAccuracy
../DCU/g12may.005.dat.1j
s211t3l.dat.digi1J fix
Average:
23.823629929767
Stdev : 0.106356218457
Max : 24.038000106812
Min : 23.628000259399

SNAPAccuracy
../DCU/g12may.005.dat.2j
s211t3l.dat.digi2J fix
Average:
23.823270723922
Stdev : 0.106165915728
Max : 24.038000106812
Min : 23.628000259399

SNAPAccuracy
../DCU/g12may.005.dat.3j
s211t3l.dat.digi3J fix
Average:
23.828055750064
Stdev : 0.106208272278
Max : 24.039899826050
Min : 23.636999130249

SNAPAccuracy
../DCU/g12may.005.dat.1g
s211t3l.dat.digi1G fix
Average: 5.823042516284
Stdev : 0.106734730303
Max : 6.035000324249
Min : 5.627999782562

SNAPAccuracy
../DCU/g12may.005.dat.2g
s211t3l.dat.digi2G fix
Average: 5.823042516284
Stdev : 0.106734730303
Max : 6.035000324249
Min : 5.627999782562

SNAPAccuracy
../DCU/g12may.005.dat.3g
s211t3l.dat.digi3G fix
Average: 8.769429155690
Stdev : 3.001476764679

Max : 12.026000022888
Min : 5.625000000000

7.1.6 Stats.006

/usr1/figd/DIS2.2/dis_lite3.stats
Frames : 502
Average: 0.00143494
Maximum: 0.007909
2nd Max: 0.001483
Minimum: 0.000593
RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.stats
Frames : 503
Average: 0.0013961
Maximum: 0.008107
2nd Max: 0.001681
Minimum: 0.000494
RateErr: 0

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 490
Count : 484
Average: 1953.61
Maximum: 3424.66
2nd Max: 3367
Minimum: -107.434

Frames : 362119
Average: 0.000223242
Maximum: 0.010791
2nd Max: 0.010198
Minimum: 1.8e-05

PDUs from Net1: 486
PDUs from Net2: 490

PDU Buffer 1
-- Stats from CircularBuffer --
NumPass: 486
Average: 0.0459532
Variance: 0.000101633
Maximum: 0.081565
2nd Max: 0.072864
Minimum: 0.019575
-- End Stats from CircularBuffer --

PDU Buffer 2
-- Stats from CircularBuffer --
NumPass: 490
Average: 0.0454566
Variance: 9.99583e-05
Maximum: 0.072073
2nd Max: 0.071579
Minimum: 0.015818

-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.062114
Maximum: 4.311132
Minimum: 0.000016
Variance: 0.030249
Std Dev : 0.173921

SNAPTtimes.pl

Sel-J Tss avg.:
0.00070251195233053643
Sel-J Tns avg.:
0.00046370119543210882
Sel-J Tnr avg.:
0.00087070119529183347
Sel-J Trs avg.:
0.00040612748995204399
Sel-J NIU avg.:
0.0013716354582596021
Sel-J Tgs avg.: 0
Sel-J Tgr avg.:
0.00029541035691221465

DCUAccuracy j12may.006.dat.g

g12may.006.dat.ownship
Average: 25.534649737194
Stdev : 13.178560256958
Max : 51.818565368652
Min : 12.611504554749

DCUAccuracyLite j12may.006.dat.g

g12may.006.dat.ownship
Average: 12.788105059796
Stdev : 0.160761967301
Max : 13.661871910095
Min : 12.611504554749

DCUAccuracy g12may.006.dat.j

j12may.006.dat.ownship
Average: 37.499712364120
Stdev : 25.478868484497
Max : 64.975296020508
Min : 12.931170463562

DCUAccuracyLite g12may.006.dat.j

j12may.006.dat.ownship 37.0
Average: 13.095702724234
Stdev : 0.154081955552
Max : 13.907923698425
Min : 12.931170463562

SNAPAccuracy

../DCU/j12may.006.dat.1j
s221t3l.dat.digi1J
Average: 5.787452669874
Stdev : 0.111660271883
Max : 6.014999866486
Min : 5.566999912262

SNAPAccuracy

../DCU/j12may.006.dat.2j
s221t3l.dat.digi2J
Average: 8.932062283639
Stdev : 2.851941108704
Max : 12.006999969482
Min : 5.922999858856

SNAPAccuracy

../DCU/j12may.006.dat.3j
s221t3l.dat.digi3J
Average:
15.068219996748
Stdev : 2.603263616562
Max : 26.870477676392
Min : 2.034422159195

SNAPAccuracy

../DCU/j12may.006.dat.1g
s221t3l.dat.digi1G
Average:
12.119582605748
Stdev : 6.315998077393
Max : 30.017400741577
Min : 5.566999912262

SNAPAccuracy

../DCU/j12may.006.dat.2g
s221t3l.dat.digi2G
Average:
15.263515381678
Stdev : 8.920939445496
Max : 30.017400741577
Min : 5.920000076294

SNAPAccuracy

../DCU/j12may.006.dat.3g
s221t3l.dat.digi3G
Average:
21.212396908868
Stdev : 6.325122356415
Max : 66.850456237793
Min : 2.034422159195

SNAPAccuracyLite

../DCU/j12may.006.dat.3g
s221t3l.dat.digi3G 50.0
Average:
20.514629687301
Stdev : 3.178468465805
Max : 29.985471725464
Min : 2.034422159195

SNAPAccuracy

../DCU/g12may.006.dat.1j
s221t3l.dat.digi1J
Average:
14.978459039680

Stdev : 8.974286079407
Max : 24.008699417114
Min : 5.644000053406

SNAPAccuracy

../DCU/g12may.006.dat.2j
s221t3l.dat.digi2J
Average: 15.067464213622
Stdev : 8.740017890930
Max : 24.000000000000
Min : 6.000000000000

SNAPAccuracy

../DCU/g12may.006.dat.3j
s221t3l.dat.digi3J
Average: 21.608523630903
Stdev : 6.183384895325
Max : 66.838302612305
Min : 2.751621007919

SNAPAccuracyLite

../DCU/g12may.006.dat.3j
s221t3l.dat.digi3J 49.0
Average: 20.926279919138
Stdev : 3.070275306702
Max : 30.209039688110
Min : 2.751621007919

SNAPAccuracy

../DCU/g12may.006.dat.1g
s221t3l.dat.digi1G
Average: 5.807370185852
Stdev : 0.111377753317
Max : 6.037930011749
Min : 5.585000038147

SNAPAccuracy

../DCU/g12may.006.dat.2g
s221t3l.dat.digi2G
Average: 8.981531050897
Stdev : 2.823190450668
Max : 12.017000198364
Min : 5.993100166321

SNAPAccuracy

../DCU/g12may.006.dat.3g
s221t3l.dat.digi3G
Average: 15.120459654639
Stdev : 2.679242134094
Max : 26.870477676392
Min : 2.086434364319

7.1.7 Stats.007

/usr1/figd/DIS2.2/dis_lite3.stats

Frames : 503
Average: 0.00167824
Maximum: 0.011681
2nd Max: 0.006921
Minimum: 0.000791
RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.stats

Frames : 503
Average: 0.00153196
Maximum: 0.007218
2nd Max: 0.007019
Minimum: 0.000692
RateErr: 0

/sg16/usr1/nets/DISNET/disnet7.stats

PDUs : 958
Count : 923
Average: 2028.5
Maximum: 3378.38
2nd Max: 3367
Minimum: -348.23

Frames : 269056
Average: 0.00022344
Maximum: 0.010791
2nd Max: 0.010198
Minimum: 8.8e-05

PDUs from Net1: 953
PDUs from Net2: 958

PDU Buffer 1

-- Stats from CircularBuffer --
NumPass: 953
Average: 0.0454135
Variance: 9.8175e-05
Maximum: 0.074446
2nd Max: 0.06891
Minimum: 0.01305
-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --
NumPass: 958
Average: 0.045174
Variance: 0.000103536
Maximum: 0.078401
2nd Max: 0.070096
Minimum: 0.01572
-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.055740
Maximum: 1.678765
Minimum: 0.000015
Variance: 0.005322
Std Dev : 0.072950

SNAPTimes.pl

Sel-J Tss avg.:
0.00069476294830307899
Sel-J Tns avg.:
0.00039823306759214586
Sel-J Tnr avg.:
0.0011653366538768345
Sel-J Trs avg.:
0.00048152589645822054
Sel-J NIU avg.:
0.0016002071716064825
Sel-J Tgs avg.: 0
Sel-J Tgr avg.:
0.00029541035691221465

DCUAccuracy

j12may.007.dat.g
g12may.007.dat.ownship
Average:
32.149915966295
Stdev : 19.406885147095
Max : 51.963935852051
Min : 12.563340187073

DCUAccuracyLite

j12may.007.dat.g
g12may.007.dat.ownship
37.0
Average:
12.744063688863
Stdev : 0.144675761461
Max : 13.429723739624
Min : 12.563340187073

DCUAccuracy

g12may.007.dat.j
j12may.007.dat.ownship
Average:
38.161089760642
Stdev : 25.357620239258
Max : 65.012290954590
Min : 12.881242752075

DCUAccuracyLite

g12may.007.dat.j
j12may.007.dat.ownship
37.0
Average:
13.114352863312
Stdev : 0.164804130793
Max : 13.854578971863
Min : 12.881242752075

SNAPAccuracy

../DCU/j12may.007.dat.1j
s231t3l.dat.digi1J
Average: 5.830018483013
Stdev : 0.108122862875
Max : 6.039899826050

Min : 5.608999729156

SNAPAccuracy

../DCU/j12may.007.dat.2j
s231t3l.dat.digi2J
Average: 13.667699995769
Stdev : 2.764295101166
Max : 18.605611801147
Min : 9.223019599915

SNAPAccuracy

../DCU/j12may.007.dat.3j
s231t3l.dat.digi3J
Average: 15.449115594228
Stdev : 2.701885938644
Max : 26.745962142944
Min : 9.797216415405

SNAPAccuracy

../DCU/j12may.007.dat.1g
s231t3l.dat.digi1G
Average: 20.783734909950
Stdev : 3.015010118484
Max : 24.028999328613
Min : 17.598999023438

SNAPAccuracy

../DCU/j12may.007.dat.2g
s231t3l.dat.digi2G
Average: 20.451573654529
Stdev : 6.349844455719
Max : 67.040184020996
Min : 13.131618499756

SNAPAccuracyLite

../DCU/j12may.007.dat.2g
s231t3l.dat.digi2G 50.0
Average: 19.718804427835
Stdev : 2.714955568314
Max : 29.465866088867
Min : 13.131618499756

SNAPAccuracy

../DCU/j12may.007.dat.3g
s231t3l.dat.digi3G
Average: 20.891920910779
Stdev : 3.578883886337
Max : 54.419406890869
Min : 13.618350982666

SNAPAccuracyLite

../DCU/j12may.007.dat.3g
s231t3l.dat.digi3G 50.0
Average: 20.756174872788
Stdev : 2.890448570251
Max : 30.426210403442
Min : 13.618350982666

SNAPAccuracy
../DCU/g12may.007.dat.1j
s231t3l.dat.digi1J
Average: 23.723595015464
Stdev : 5.994712829590
Max : 30.025999069214
Min : 17.625000000000

SNAPAccuracy
../DCU/g12may.007.dat.2j
s231t3l.dat.digi2J
Average: 20.237592631771
Stdev : 4.689999103546
Max : 53.472755432129
Min : 13.154179573059

SNAPAccuracyLite
../DCU/g12may.007.dat.2j
s231t3l.dat.digi2J 50.0
Average: 19.739941249128
Stdev : 2.642431735992
Max : 26.158189773560
Min : 13.154179573059

SNAPAccuracy
../DCU/g12may.007.dat.3j
s231t3l.dat.digi3J
Average: 21.520762585825
Stdev : 6.114418506622
Max : 66.968307495117
Min : 13.498728752136

SNAPAccuracyLite
../DCU/g12may.007.dat.3j
s231t3l.dat.digi3J 50.0
Average: 20.871814131005
Stdev : 2.842680454254
Max : 28.815376281738
Min : 13.498728752136

SNAPAccuracy
../DCU/g12may.007.dat.1g
s231t3l.dat.digi1G
Average: 5.820389568566
Stdev : 0.108770854771
Max : 6.030999660492
Min : 5.608999729156

SNAPAccuracy
../DCU/g12may.007.dat.2g
s231t3l.dat.digi2G
Average: 13.915412793677
Stdev : 2.794693946838
Max : 18.758499145508
Min : 9.338224411011

SNAPAccuracy
../DCU/g12may.007.dat.3g
s231t3l.dat.digi3G

Average:
15.707282818944
Stdev : 2.677490234375
Max : 26.745962142944

7.1.8 Stats.008

/usr1/figd/DIS2.2/dis_lite3.
stats
Frames : 503
Average: 0.00187433
Maximum: 0.006822
2nd Max: 0.00168
Minimum: 0.000792
RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.
stats
Frames : 503
Average: 0.00188061
Maximum: 0.006723
2nd Max: 0.00178
Minimum: 0.000692
RateErr: 0

/sg16/usr1/nets/DISNET/di
snet7.stats
PDUs : 1435
Count : 1239
Average: 1988.88
Maximum: 3401.36
2nd Max: 3378.38
Minimum: -9259.26

Frames : 365809
Average: 0.000224277
Maximum: 0.010692
2nd Max: 0.010594
Minimum: 1.8e-05

PDUs from Net1: 1433
PDUs from Net2: 1435

PDU Buffer 1
-- Stats from
CircularBuffer --
NumPass: 1433
Average: 0.0456913
Variance: 9.6049e-05
Maximum: 0.08107
2nd Max: 0.07327
Minimum: 0.015621
-- End Stats from
CircularBuffer --

PDU Buffer 2
-- Stats from CircularBuffer --
NumPass: 1435
Average: 0.0457335
Variance: 0.000103087
Maximum: 0.078896
2nd Max: 0.071579
Minimum: 0.016411
-- End Stats from CircularBuffer --

SNAPPdus.pl
Average: 0.064835
Maximum: 8.025830
Minimum: 0.000016
Variance: 0.053073
Std Dev : 0.230376

SNAPTtimes.pl
Sel-J Tss avg.:
0.00070309561762037644
Sel-J Tns avg.:
0.00039857968122631579
Sel-J Tnr avg.:
0.0013841015932709536
Sel-J Trs avg.:
0.00053016533887879252
Sel-J NIU avg.:
0.0018185916330015557
Sel-J Tgs avg.: 0
Sel-J Tgr avg.:
0.00029541035691221465

DCUAccuracy j12may.008.dat.g
g12may.008.dat.ownship
Average: 21.109271783239
Stdev : 16.368478775024
Max : 51.997383117676
Min : 0.133240386844

DCUAccuracyLite j12may.008.dat.g
g12may.008.dat.ownship 37.0
Average: 12.412100234202
Stdev : 1.791377186775
Max : 19.215353012085
Min : 0.133240386844

DCUAccuracy g12may.008.dat.j
j12may.008.dat.ownship
Average: 21.872918856892
Stdev : 17.094011306763
Max : 64.822814941406
Min : 0.120104119182

DCUAccuracyLite g12may.008.dat.j
j12may.008.dat.ownship 37.0
Average: 12.854826587097
Stdev : 1.732030034065
Max : 19.600521087646
Min : 0.120104119182

SNAPAccuracy
../DCU/j12may.008.dat.1j
s241t3l.dat.digi1J
Average: 13.412120671339
Stdev : 2.871634244919
Max : 22.777051925659
Min : 8.493501663208

SNAPAccuracy
../DCU/j12may.008.dat.2j
s241t3l.dat.digi2J
Average: 14.426481494481
Stdev : 2.947359323502
Max : 19.426872253418
Min : 9.487757682800

SNAPAccuracy
../DCU/j12may.008.dat.3j
s241t3l.dat.digi3J
Average: 16.014205535413
Stdev : 2.921976566315
Max : 26.924356460571
Min : 8.870583534241

SNAPAccuracy
../DCU/j12may.008.dat.1g
s241t3l.dat.digi1G
Average: 20.412187930791
Stdev : 6.662631988525
Max : 66.907875061035
Min : 9.673400878906

SNAPAccuracyLite
../DCU/j12may.008.dat.1g
s241t3l.dat.digi1G 50.0
Average: 19.671079580789
Stdev : 3.309219360352
Max : 45.358081817627
Min : 9.673400878906

SNAPAccuracy
../DCU/j12may.008.dat.2g
s241t3l.dat.digi2G
Average: 20.960277014068
Stdev : 6.439024925232
Max : 66.907875061035
Min : 9.540347099304

SNAPAccuracyLite
../DCU/j12may.008.dat.2g
s241t3l.dat.digi2G 50.0
Average: 20.228172180834
Stdev : 2.965450286865
Max : 29.995618820190
Min : 9.540347099304

SNAPAccuracy
../DCU/j12may.008.dat.3g
s241t3l.dat.digi3G
Average:
21.759803264247
Stdev : 6.300636768341
Max : 66.913841247559
Min : 9.509954452515

SNAPAccuracyLite
../DCU/j12may.008.dat.3g
s241t3l.dat.digi3G 37.0
Average:
21.062206874659
Stdev : 3.077651262283
Max : 34.051086425781
Min : 9.509954452515

SNAPAccuracy
../DCU/g12may.008.dat.1j
s241t3l.dat.digi1J
Average:
20.261366248853
Stdev : 5.837355136871
Max : 66.920265197754
Min : 13.095389366150

SNAPAccuracyLite
../DCU/g12may.008.dat.1j
s241t3l.dat.digi1J 50.0
Average:
19.717001012010
Stdev : 3.122595071793
Max : 45.358081817627
Min : 13.095389366150

SNAPAccuracy
../DCU/g12may.008.dat.2j
s241t3l.dat.digi2J
Average:
21.108446134702
Stdev : 6.535653114319
Max : 66.995758056641
Min : 13.301776885986

SNAPAccuracyLite
../DCU/g12may.008.dat.2j
s241t3l.dat.digi2J 50.0
Average:
20.384015204725
Stdev : 3.260656118393
Max : 45.358116149902
Min : 13.301776885986

SNAPAccuracy
../DCU/g12may.008.dat.3j
s241t3l.dat.digi3J
Average:
21.940877267086

Stdev : 6.482801914215
Max : 66.995758056641
Min : 13.198332786560

SNAPAccuracyLite
../DCU/g12may.008.dat.3j
s241t3l.dat.digi3J 50.0
Average: 21.223982570108
Stdev : 3.275703430176
Max : 45.358146667480
Min : 13.198332786560

SNAPAccuracy
../DCU/g12may.008.dat.1g
s241t3l.dat.digi1G
Average: 13.643155622674
Stdev : 2.875773191452
Max : 18.768186569214
Min : 9.141060829163

SNAPAccuracy
../DCU/g12may.008.dat.2g
s241t3l.dat.digi2G
Average: 14.727733681001
Stdev : 3.004245281219
Max : 19.661333084106
Min : 9.341915130615

SNAPAccuracy
../DCU/g12may.008.dat.3g
s241t3l.dat.digi3G
Average: 16.236358824504
Stdev : 2.939290523529
Max : 26.924356460571
Min : 8.861981391907

7.1.9 Stats.009

/usr1/figd/DIS2.2/dis_lite3.stats
Frames : 501
Average: 0.00110123
Maximum: 0.010989
2nd Max: 0.007612
Minimum: 0.000593
RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.stats
Frames : 501
Average: 0.00107451
Maximum: 0.00781
2nd Max: 0.001285
Minimum: 0.000494
RateErr: 0

/sg16/usr1/nets/DISNET/disnet7.stats

PDUs : 22
Count : 20
Average: 1895.53
Maximum: 2531.65
2nd Max: 2531.65
Minimum: -107.434

Frames : 1196489
Average: 0.000220851
Maximum: 0.010199
2nd Max: 0.010198
Minimum: 1.8e-05

PDUs from Net1: 17
PDUs from Net2: 22

PDU Buffer 1

-- Stats from CircularBuffer --

NumPass: 17
Average: 0.0434719
Variance: 8.88006e-05
Maximum: 0.063175
2nd Max: 0.052992
Minimum: 0.026891

-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --

NumPass: 22
Average: 0.0442434
Variance: 0.000100043
Maximum: 0.065647
2nd Max: 0.059418
Minimum: 0.023925

-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.128841
Maximum: 2.902899
Minimum: 0.002836
Variance: 0.209291
Std Dev : 0.457484

SNAPTtimes.pl

Sel-J Tss avg.:
0.0007395776891902338
Sel-J Tns avg.:
0.00033810956184348776
Sel-J Tnr avg.:
0.0005770278883834956
Sel-J Trs avg.:
0.00018592629475826101
Sel-J NIU avg.:
0.00096852589644207826
Sel-J Tgs avg.: 0
Sel-J Tgr avg.:
0.00029541035691221465

DCUAccuracy
g12may.009.dat.j
j12may.009.dat.ownship
Average:
19.745418953154
Stddev : 18.679857254028
Max : 38.976356506348
Min : 0.026907248423

DCUAccuracyLite
g12may.009.dat.j
j12may.009.dat.ownship
37.0
Average: 1.231686334282
Stddev : 1.070141077042
Max : 3.590488433838
Min : 0.026907248423

DCUAccuracy
g12may.009.dat.g
g12may.009.dat.ownship
Average:
13.858979374140
Stddev : 12.861098289490
Max : 38.896610260010
Min : 0.126063480973

DCUAccuracyLite
j12may.009.dat.g
g12may.009.dat.ownship
24.0
Average: 1.290587235586
Stddev : 1.050558924675
Max : 3.566061735153
Min : 0.126063480973

SNAPAccuracy
../DCU/j12may.009.dat.1j
s211t3dl.dat.digi1J
Average: 0.184039113436
Stddev : 0.107354767621
Max : 0.384000003338
Min : 0.000000000000

SNAPAccuracy
../DCU/j12may.009.dat.2j
s211t3dl.dat.digi2J
Average: 0.184039113436
Stddev : 0.107354767621
Max : 0.384000003338
Min : 0.000000000000

SNAPAccuracy
../DCU/j12may.009.dat.3j
s211t3dl.dat.digi3J
Average: 2.964432268084
Stddev : 2.812803983688
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j12may.009.dat.1g
s211t3dl.dat.digi1G
Average: 17.816312546179
Stddev : 0.107048235834
Max : 18.010200500488
Min : 17.614999771118

SNAPAccuracy
../DCU/j12may.009.dat.2g
s211t3dl.dat.digi2G
Average: 20.858908941489
Stddev : 2.997768878937
Max : 24.010200500488
Min : 17.625000000000

SNAPAccuracy
../DCU/j12may.009.dat.3g
s211t3dl.dat.digi3G
Average: 20.858908941489
Stddev : 2.997768878937
Max : 24.010200500488
Min : 17.625000000000

SNAPAccuracy
../DCU/g12may.009.dat.1j
s211t3dl.dat.digi1J
Average: 17.871401061393
Stddev : 5.992495536804
Max : 24.000000000000
Min : 11.494999885559

SNAPAccuracy
../DCU/g12may.009.dat.2j
s211t3dl.dat.digi2J
Average: 17.881966971964
Stddev : 6.002951622009
Max : 24.017400741577
Min : 11.494999885559

SNAPAccuracy
../DCU/g12may.009.dat.3j
s211t3dl.dat.digi3J
Average: 20.760252343230
Stddev : 3.015708446503
Max : 24.031000137329
Min : 17.602199554443

SNAPAccuracy
../DCU/g12may.009.dat.1g
s211t3dl.dat.digi1G
Average: 0.209575000332
Stddev : 0.110076569021
Max : 0.517000019550
Min : 0.000000000000

SNAPAccuracy
../DCU/g12may.009.dat.2g
s211t3dl.dat.digi2G
Average: 0.209575000332
Stdev : 0.110076569021
Max : 0.517000019550
Min : 0.000000000000

SNAPAccuracy
../DCU/g12may.009.dat.3g
s211t3dl.dat.digi3G
Average: 2.993972173456
Stdev : 2.802256822586
Max : 6.027999877930
Min : 0.000000000000

7.1.10 Stats.010

/usr1/figd/DIS2.2/dis_lite3.stats
Frames : 503
Average: 0.00146806
Maximum: 0.006031
2nd Max: 0.003065
Minimum: 0.000692
RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.stats
Frames : 502
Average: 0.00134157
Maximum: 0.006031
2nd Max: 0.005734
Minimum: 0.000494
RateErr: 0

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 489
Count : 480
Average: 1885.61
Maximum: 5181.35
2nd Max: 3367
Minimum: -4830.92

Frames : 317097
Average: 0.000220739
Maximum: 0.010199
2nd Max: 0.010198
Minimum: 1.9e-05

PDUs from Net1: 486
PDUs from Net2: 489

PDU Buffer 1
-- Stats from CircularBuffer --
NumPass: 486
Average: 0.0451373
Variance: 8.60412e-05

Maximum: 0.077412
2nd Max: 0.069997
Minimum: 0.019674
-- End Stats from
CircularBuffer --

PDU Buffer 2
-- Stats from
CircularBuffer --
NumPass: 489
Average: 0.0449855
Variance: 0.000100702
Maximum: 0.075732
2nd Max: 0.071185
Minimum: 0.017697
-- End Stats from
CircularBuffer --

SNAPPdus.pl
Average: 0.059375
Maximum: 2.253697
Minimum: 0.000155
Variance: 0.012946
Std Dev : 0.113781

SNAPTimes.pl
Sel-J Tss avg.:
0.00069819322695739499
Sel-J Tns avg.:
0.00047915139401018936
Sel-J Tnr avg.:
0.00089847211159238842
Sel-J Trs avg.:
0.00016581474103504769
Sel-J NIU avg.:
0.001416207170973122
Sel-J Tgs avg.: 0
Sel-J Tgr avg.:
0.00029541035691221465

DCUAccuracy
j12may.010.dat.g
g12may.010.dat.ownship
Average:
25.872421446497
Stdev : 24.687618255615
Max : 51.977390289307
Min : 0.155080616474

DCUAccuracyLite
j12may.010.dat.g
g12may.010.dat.ownship
31.0
Average: 1.510097757638
Stdev : 1.224033355713
Max : 6.748218059540
Min : 0.155080616474

DCUAccuracy g12may.010.dat.j
j12may.010.dat.ownship
Average: 25.848406382318
Stdev : 24.733167648315
Max : 52.027210235596
Min : 0.060671247542

DCUAccuracyLite g12may.010.dat.j
j12may.010.dat.ownship 31.0
Average: 1.547800250604
Stdev : 1.897289633751
Max : 12.884175300598
Min : 0.060671247542

SNAPAccuracy
../DCU/j12may.010.dat.1j
s221t3dl.dat.digi1J
Average: 0.187677733505
Stdev : 0.165580689907
Max : 2.967300176620
Min : 0.000000000000

SNAPAccuracy
../DCU/j12may.010.dat.2j
s221t3dl.dat.digi2J
Average: 0.155799798468
Stdev : 0.164196878672
Max : 2.967300176620
Min : 0.000000000000

SNAPAccuracy
../DCU/j12may.010.dat.3j
s221t3dl.dat.digi3J
Average: 7.298403700112
Stdev : 2.583430528641
Max : 19.729475021362
Min : 0.580304265022

SNAPAccuracy
../DCU/j12may.010.dat.1g
s221t3dl.dat.digi1G
Average: 11.065643023033
Stdev : 8.539328575134
Max : 18.017000198364
Min : 0.075699999928

SNAPAccuracy
../DCU/j12may.010.dat.2g
s221t3dl.dat.digi2G
Average: 10.287453212704
Stdev : 8.235536575317
Max : 18.017000198364
Min : 0.000000000000

SNAPAccuracy
../DCU/j12may.010.dat.3g
s221t3dl.dat.digi3G
Average: 17.720593434039
Stdev : 6.107871532440

Max : 50.286647796631
Min : 3.230757951736

SNAPAccuracyLite
../DCU/j12may.010.dat.3g
s221t3dl.dat.digi3G 49.0
Average: 17.184592953398
Stdev : 4.500429630280
Max : 30.096109390259
Min : 3.230757951736

SNAPAccuracy
../DCU/g12may.010.dat.1j
s221t3dl.dat.digi1J
Average: 11.041095719356
Stdev : 8.584774017334
Max : 18.039999008179
Min : 0.001200000057

SNAPAccuracy
../DCU/g12may.010.dat.2j
s221t3dl.dat.digi2J
Average: 8.118052859844
Stdev : 6.468938350677
Max : 18.017400741577
Min : 0.063000001013

SNAPAccuracy
../DCU/g12may.010.dat.3j
s221t3dl.dat.digi3J
Average: 17.337564362743
Stdev : 5.928356170654
Max : 50.369430541992
Min : 3.275687694550

SNAPAccuracyLite
../DCU/g12may.010.dat.3j
s221t3dl.dat.digi3J 49.0
Average: 16.794382295333
Stdev : 4.192945003510
Max : 41.318946838379
Min : 3.275687694550

SNAPAccuracy
../DCU/g12may.010.dat.1g
s221t3dl.dat.digi1G
Average: 0.157290283980
Stdev : 0.209703490138
Max : 3.088500022888
Min : 0.000000000000

SNAPAccuracy
../DCU/g12may.010.dat.2g
s221t3dl.dat.digi2G
Average: 0.187100202819
Stdev : 0.210639238358
Max : 3.088500022888
Min : 0.000000000000

SNAPAccuracy
../DCU/g12may.010.dat.3g
s221t3dl.dat.digi3G
Average: 7.979004476958
Stdev : 2.051180601120
Max : 15.198519706726
Min : 0.580304265022

7.1.11 Stats.011

/usr1/figd/DIS2.2/dis_lite3.
stats
Frames : 503
Average: 0.00165878
Maximum: 0.005734
2nd Max: 0.002768
Minimum: 0.000593
RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.
stats
Frames : 503
Average: 0.00158597
Maximum: 0.005833
2nd Max: 0.005734
Minimum: 0.000494
RateErr: 0

/sg16/usr1/nets/DISNET/di
snet7.stats
PDUs : 951
Count : 875
Average: 1874.78
Maximum: 3378.38
2nd Max: 3367
Minimum: -142857

Frames : 266184
Average: 0.000222954
Maximum: 0.010198
2nd Max: 0.010198
Minimum: 1.9e-05

PDUs from Net1: 947
PDUs from Net2: 951

PDU Buffer 1
-- Stats from
CircularBuffer --
NumPass: 947
Average: 0.0454604
Variance: 0.000103903
Maximum: 0.072864
2nd Max: 0.070393
Minimum: 0.001384

-- End Stats from CircularBuffer --

PDU Buffer 2
-- Stats from CircularBuffer --
NumPass: 951
Average: 0.0460627
Variance: 9.95857e-05
Maximum: 0.076226
2nd Max: 0.075929
Minimum: 0.018982
-- End Stats from CircularBuffer --

SNAPPdus.pl
Average: 0.055217
Maximum: 1.151230
Minimum: 0.000015
Variance: 0.002806
Std Dev : 0.052967

SNAPTimes.pl
Sel-J Tss avg.:
0.00071825099616419099
Sel-J Tns avg.:
0.00039131673302434652
Sel-J Tnr avg.:
0.0011766155381859522
Sel-J Trs avg.:
0.00022476095585287012
Sel-J NIU avg.:
0.0016047649405084075
Sel-J Tgs avg.: 0
Sel-J Tgr avg.:
0.00029541035691221465

DCUAccuracy j12may.011.dat.g
g12may.011.dat.ownship
Average: 19.912383895247
Stdev : 18.694179534912
Max : 39.063587188721
Min : 0.145055159926

DCUAccuracyLite j12may.011.dat.g
g12may.011.dat.ownship 37.0
Average: 1.308683771685
Stdev : 1.042683005333
Max : 3.566061735153
Min : 0.145055159926

DCUAccuracy g12may.011.dat.j
j12may.011.dat.ownship
Average: 25.841888379463
Stdev : 24.822229385376
Max : 52.006423950195
Min : 0.040459856391

DCUAccuracyLite g12may.011.dat.j
j12may.011.dat.ownship 37.0
Average: 1.234783582015
Stdev : 1.070656418800

Max : 3.598483800888
Min : 0.040459856391

SNAPAccuracy
../DCU/j12may.011.dat.1j
s231t3dl.dat.digi1J
Average: 0.186771515114
Stdev : 0.106867693365
Max : 0.414000004530
Min : 0.000000000000

SNAPAccuracy
../DCU/j12may.011.dat.2j
s231t3dl.dat.digi2J
Average: 5.592821489199
Stdev : 2.089976787567
Max : 10.230733871460
Min : 0.580304265022

SNAPAccuracy
../DCU/j12may.011.dat.3j
s231t3dl.dat.digi3J
Average: 8.014827339095
Stdev : 1.959895730019
Max : 15.111941337585
Min : 0.580304265022

SNAPAccuracy
../DCU/j12may.011.dat.1g
s231t3dl.dat.digi1G
Average: 23.795029262984
Stdev : 0.385479599237
Max : 24.025501251221
Min : 17.979000091553

SNAPAccuracy
../DCU/j12may.011.dat.2g
s231t3dl.dat.digi2G
Average: 17.090915131037
Stdev : 5.635063171387
Max : 50.199264526367
Min : 2.077795267105

SNAPAccuracyLite
../DCU/j12may.011.dat.2g
s231t3dl.dat.digi2G 50.0
Average: 16.683988426745
Stdev : 4.305715560913
Max : 30.043367385864
Min : 2.077795267105

SNAPAccuracy
../DCU/j12may.011.dat.3g
s231t3dl.dat.digi3G
Average: 17.415890023868
Stdev : 5.954683303833
Max : 50.369430541992
Min : 3.617517709732

SNAPAccuracyLite
../DCU/j12may.011.dat.3g
s231t3dl.dat.digi3G 50.0
Average:
16.875621620159
Stdev : 4.249145030975
Max : 29.397096633911
Min : 3.617517709732

SNAPAccuracy
../DCU/g12may.011.dat.1j
s231t3dl.dat.digi1J
Average:
11.799247482486
Stdev : 0.108537457883
Max : 12.018899917603
Min : 11.564999580383

SNAPAccuracy
../DCU/g12may.011.dat.2j
s231t3dl.dat.digi2J
Average:
17.324403121554
Stdev : 6.903989791870
Max : 66.964469909668
Min : 2.790605306625

SNAPAccuracyLite
../DCU/g12may.011.dat.2j
s231t3dl.dat.digi2J 50.0
Average:
16.680099570702
Stdev : 4.275980949402
Max : 26.688489913940
Min : 2.790605306625

SNAPAccuracy
../DCU/g12may.011.dat.3j
s231t3dl.dat.digi3J
Average:
17.281203469688
Stdev : 4.838991165161
Max : 41.243148803711
Min : 3.664297342300

SNAPAccuracyLite
../DCU/g12may.011.dat.3j
s231t3dl.dat.digi3J 32.0
Average:
16.930940249445
Stdev : 4.211304664612
Max : 27.933872222900
Min : 3.664297342300

SNAPAccuracy
../DCU/g12may.011.dat.1g
s231t3dl.dat.digi1G
Average: 0.181951515855
Stdev : 0.107692599297

Max : 0.417999982834
Min : 0.000000000000

SNAPAccuracy
../DCU/g12may.011.dat.2g
s231t3dl.dat.digi2G
Average: 5.522573684201
Stdev : 2.102588176727
Max : 10.219282150269
Min : 0.580304265022

SNAPAccuracy
../DCU/g12may.011.dat.3g
s231t3dl.dat.digi3G
Average: 8.245267763282
Stdev : 1.731142163277
Max : 15.111941337585
Min : 0.580304265022

7.1.12 Stats.012

/usr1/figd/DIS2.2/dis_lite3.stats
Frames : 502
Average: 0.00199944
Maximum: 0.01178
2nd Max: 0.007218
Minimum: 0.000593
RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.stats
Frames : 503
Average: 0.00190893
Maximum: 0.01178
2nd Max: 0.005635
Minimum: 0.000593
RateErr: 0

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 1418
Count : 1286
Average: 2034.16
Maximum: 3401.36
2nd Max: 3378.38
Minimum: -3246.75

Frames : 214082
Average: 0.000228999
Maximum: 0.011286
2nd Max: 0.010692
Minimum: 5.8e-05

PDUs from Net1: 1414
PDUs from Net2: 1419

PDU Buffer 1	Stdev : 18.676670074463	Average: 16.721802887520
-- Stats from CircularBuffer --	Max : 39.019554138184	Stdev : 5.781748294830
NumPass: 1414	Min : 0.007280109916	Max : 50.351913452148
Average: 0.0450699		Min : 3.314923763275
Variance: 0.000100486	DCUAccuracyLite	
Maximum: 0.078302	g12may.012.dat.j	SNAPAccuracyLite
2nd Max: 0.074644	j12may.012.dat.ownship	../DCU/j12may.012.dat.2g
Minimum: 0.012853	37.0	s241t3dl.dat.digi2G 50.0
-- End Stats from CircularBuffer --	Average: 1.237730153558	Average: 16.239783487202
	Stdev : 1.068549752235	Stdev : 4.188841819763
PDU Buffer 2	Max : 3.590488433838	Max : 28.728935241699
-- Stats from CircularBuffer --	Min : 0.007280109916	Min : 3.314923763275
NumPass: 1419	SNAPAccuracy	SNAPAccuracy
Average: 0.0453548	../DCU/j12may.012.dat.1j	../DCU/j12may.012.dat.3g
Variance: 0.000106032	s241t3dl.dat.digi1J	s241t3dl.dat.digi3G
Maximum: 0.078796	Average: 4.690930006600	Average: 17.380264961695
2nd Max: 0.074644	Stdev : 1.251057744026	Stdev : 5.777895927429
Minimum: 0.010776	Max : 10.165618896484	Max : 50.351913452148
-- End Stats from CircularBuffer --	Min : 0.580298841000	Min : 3.813025712967
SNAPPdus.pl	SNAPAccuracy	SNAPAccuracyLite
Average: 0.050983	../DCU/j12may.012.dat.2j	../DCU/j12may.012.dat.3g
Maximum: 1.213660	s241t3dl.dat.digi2J	s241t3dl.dat.digi3G 50.0
Minimum: 0.000016	Average: 5.360097022490	Average: 16.907729583022
Variance: 0.001228	Stdev : 2.067842245102	Stdev : 4.258968830109
Std Dev : 0.035042	Max : 10.128942489624	Max : 29.991474151611
	Min : 0.580304265022	Min : 3.813025712967
SNAPTtimes.pl	SNAPAccuracy	SNAPAccuracy
Sel-J Tss avg.:	../DCU/j12may.012.dat.3j	../DCU/g12may.012.dat.1j
0.00070370717139486079	s241t3dl.dat.digi3J	s241t3dl.dat.digi1J
Sel-J Tns avg.:	Average: 8.107780636200	Average: 16.524939040343
0.00039627290837767264	Stdev : 1.788450360298	Stdev : 5.337262630463
Sel-J Tnr avg.:	Max : 15.111941337585	Max : 50.274215698242
0.0014942908364248858	Min : 0.580304265022	Min : 2.051762104034
Sel-J Trs avg.:	SNAPAccuracy	SNAPAccuracyLite
0.0001831274898270557	../DCU/j12may.012.dat.1g	../DCU/g12may.012.dat.1j
Sel-J NIU avg.:	s241t3dl.dat.digi1G	s241t3dl.dat.digi1J 40.0
0.0019425298802719722	Average:	Average: 16.128004238439
Sel-J Tgs avg.: 0	16.412862810178	Stdev : 3.972641468048
Sel-J Tgr avg.:	Stdev : 5.459205627441	Max : 26.217031478882
0.00029541035691221465	Max : 50.274219512939	Min : 2.051762104034
	Min : 2.017177581787	SNAPAccuracy
DCUAccuracy j12may.012.dat.g	SNAPAccuracyLite	../DCU/g12may.012.dat.2j
g12may.012.dat.ownship	../DCU/j12may.012.dat.1g	s241t3dl.dat.digi2J
Average: 20.140414573809	s241t3dl.dat.digi1G 50.0	Average: 16.961869485480
Stdev : 19.186073303223	Average:	Stdev : 5.800815105438
Max : 51.895042419434	16.066178082441	Max : 50.274219512939
Min : 0.136297464371	Stdev : 4.275761604309	Min : 3.568493843079
	Max : 29.991474151611	SNAPAccuracyLite
DCUAccuracyLite j12may.012.dat.g	Min : 2.017177581787	../DCU/g12may.012.dat.2j
g12may.012.dat.ownship 37.0	SNAPAccuracy	s241t3dl.dat.digi2J 40.0
Average: 1.292170743227	../DCU/j12may.012.dat.2g	Average: 16.432598617396
Stdev : 1.047949671745	s241t3dl.dat.digi2G	Stdev : 4.098531723022
Max : 3.566013097763		Max : 29.221561431885
Min : 0.136297464371		
DCUAccuracy g12may.012.dat.j		
j12may.012.dat.ownship		
Average: 19.823196694237		

Min : 3.568493843079

SNAPAccuracy

../DCU/g12may.012.dat.3j
s241t3dl.dat.digi3J
Average: 17.313660683061
Stdev : 5.746165275574
Max : 50.274219512939
Min : 3.876214265823

SNAPAccuracyLite

../DCU/g12may.012.dat.3j
s241t3dl.dat.digi3J 40.0
Average: 16.790192430536
Stdev : 4.066074848175
Max : 28.486944198608
Min : 3.876214265823

SNAPAccuracy

../DCU/g12may.012.dat.1g
s241t3dl.dat.digi1G
Average: 4.811016821982
Stdev : 1.459100723267
Max : 10.246307373047
Min : 0.580318868160

SNAPAccuracy

../DCU/g12may.012.dat.2g
s241t3dl.dat.digi2G
Average: 5.797069083320
Stdev : 2.231092691422
Max : 10.110716819763
Min : 0.580304265022

SNAPAccuracy

../DCU/g12may.012.dat.3g
s241t3dl.dat.digi3G
Average: 8.285531019683
Stdev : 1.625078439713
Max : 15.111941337585
Min : 0.580304265022

7.1.13 Stats.013

/usr1/figd/DIS2.2/dis4.stats

Frames : 502
Average: 0.00104431
Maximum: 0.01089
2nd Max: 0.006822
Minimum: 0.000692
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats

Frames : 502
Average: 0.00102695
Maximum: 0.011286

2nd Max: 0.00702
Minimum: 0.000789
RateErr: 0

/sg16/usr1/nets/DISNET/di

snet7.stats
PDUs : 19
Count : 19
Average: 1796.62
Maximum: 2531.65
2nd Max: 2525.25
Minimum: -105.197

Frames : 514333
Average: 0.000226212
Maximum: 0.010199
2nd Max: 0.010198
Minimum: 5.8e-05

PDUs from Net1: 15
PDUs from Net2: 19

PDU Buffer 1
-- Stats from
CircularBuffer --
NumPass: 15
Average: 0.0462233
Variance: 0.000131546
Maximum: 0.069206
2nd Max: 0.06021
Minimum: 0.028573
-- End Stats from
CircularBuffer --

PDU Buffer 2
-- Stats from
CircularBuffer --
NumPass: 19
Average: 0.0464054
Variance: 7.62734e-05
Maximum: 0.058232
2nd Max: 0.055266
Minimum: 0.026397
-- End Stats from
CircularBuffer --

SNAPPdus.pl
Average: 0.049163
Maximum: 0.072454
Minimum: 0.028658
Variance: 0.000107
Std Dev : 0.010331

SNAPTtimes.pl
Sel-J Tss avg.:
0.00068279880508771208
Sel-J Tns avg.:
0.00036240836679174811

Sel-J Tnr avg.:
0.00053900597595926962
Sel-J Trs avg.:
0.00040812151382127183
Sel-J NIU avg.:
0.00095934860575972011
Sel-J Tgs avg.: 0
Sel-J Tgr avg.:
0.00029541035691221465

DCUAccuracy j12may.013.dat.g
g12may.013.dat.ownship
Average: 1.098822626999
Stdev : 0.956431269646
Max : 4.890170097351
Min : 0.044407207519

DCUAccuracy g12may.013.dat.j
j12may.013.dat.ownship
Average: 1.002986137757
Stdev : 0.982555687428
Max : 4.720283985138
Min : 0.037483330816

SNAPAccuracy
../DCU/j12may.013.dat.1j
s211t3d.dat.digi1J
Average: 0.242579237644
Stdev : 0.107643231750
Max : 0.442999988794
Min : 0.024390000850

SNAPAccuracy
../DCU/j12may.013.dat.2j
s211t3d.dat.digi2J
Average: 0.097202128637
Stdev : 0.061753474176
Max : 0.246000006795
Min : 0.000000000000

SNAPAccuracy
../DCU/j12may.013.dat.3j
s211t3d.dat.digi3J
Average: 0.334893554299
Stdev : 0.109197154641
Max : 0.541999995708
Min : 0.119999997318

SNAPAccuracy
../DCU/j12may.013.dat.1g
s211t3d.dat.digi1G
Average: 0.245896142127
Stdev : 0.107204712927
Max : 0.446999996901
Min : 0.024390000850

SNAPAccuracy
../DCU/j12may.013.dat.2g
s211t3d.dat.digi2G

Average: 0.096582666785
Stdev : 0.061311583966
Max : 0.244000002742
Min : 0.000000000000

SNAPAccuracy

../DCU/j12may.013.dat.3g
s211t3d.dat.digi3G
Average: 0.096582666785
Stdev : 0.061311583966
Max : 0.244000002742
Min : 0.000000000000

SNAPAccuracy

../DCU/g12may.013.dat.1j
s211t3d.dat.digi1J
Average: 0.168739899821
Stdev : 0.105414934456
Max : 0.367000013590
Min : 0.000399999990

SNAPAccuracy

../DCU/g12may.013.dat.2j
s211t3d.dat.digi2J
Average: 0.123496646535
Stdev : 0.086774647236
Max : 0.326999992132
Min : 0.000000000000

SNAPAccuracy

../DCU/g12may.013.dat.3j
s211t3d.dat.digi3J
Average: 0.412073890649
Stdev : 0.109536267817
Max : 0.624000012875
Min : 0.195999994874

SNAPAccuracy

../DCU/g12may.013.dat.1g
s211t3d.dat.digi1G
Average: 0.165264619328
Stdev : 0.105229541659
Max : 0.363000005484
Min : 0.000399999990

SNAPAccuracy

../DCU/g12may.013.dat.2g
s211t3d.dat.digi2G
Average: 0.125587329466
Stdev : 0.088479965925
Max : 0.355000019073
Min : 0.000000000000

SNAPAccuracy

../DCU/g12may.013.dat.3g
s211t3d.dat.digi3G
Average: 0.414386324914
Stdev : 0.109694190323
Max : 0.624000012875

Min : 0.200000002980

7.1.14 Stats.014

/usr1/figd/DIS2.2/dis4.stats
Frames : 502
Average: 0.00142554
Maximum: 0.011285
2nd Max: 0.005634
Minimum: 0.000593
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
Frames : 501
Average: 0.0016685
Maximum: 0.006031
2nd Max: 0.002471
Minimum: 0.000494
RateErr: 0

/sg16/usr1/nets/DISNET/di
snet7.stats
PDUs : 513
Count : 505
Average: 1861.7
Maximum: 3367
2nd Max: 3367
Minimum: -9259.26

Frames : 196929
Average: 0.000232708
Maximum: 0.01079
2nd Max: 0.010198
Minimum: 8.9e-05

PDUs from Net1: 510
PDUs from Net2: 513

PDU Buffer 1
-- Stats from
CircularBuffer --
NumPass: 510
Average: 0.0454565
Variance: 0.000106168
Maximum: 0.0785
2nd Max: 0.067525
Minimum: 0.017104
-- End Stats from
CircularBuffer --

PDU Buffer 2
-- Stats from
CircularBuffer --
NumPass: 513
Average: 0.0452727

Variance: 0.000116542
Maximum: 0.076325
2nd Max: 0.075943
Minimum: 0.014929
-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.050477
Maximum: 0.084492
Minimum: 0.013761
Variance: 0.000113
Std Dev : 0.010626

SNAPTimes.pl s221t3d.dat | SNAPCodeTimes.pl

Sel-J Tss avg.:
0.00068022310780175774
Sel-J Tns avg.:
0.000433669323045983
Sel-J Tnr avg.:
0.001105073704980258
Sel-J Trs avg.:
0.00018611952198777844
Sel-J NIU avg.:
0.0015733645416611149
Sel-J Tgs avg.: 0
Sel-J Tgr avg.:
0.00029541035691221465

DCUAccuracy j12may.014.dat.g
g12may.014.dat.ownship
Average: 1.149893570902
Stdev : 0.980801165104
Max : 5.368845939636
Min : 0.088459029794

DCUAccuracy g12may.014.dat.j
j12may.014.dat.ownship
Average: 1.005955734940
Stdev : 0.983893990517
Max : 4.853922367096
Min : 0.060802958906

SNAPAccuracy

../DCU/j12may.014.dat.1j
s221t3d.dat.digi1J
Average: 0.174419878714
Stdev : 0.105829529464
Max : 0.377000004053
Min : 0.000899999985

SNAPAccuracy

../DCU/j12may.014.dat.2j
s221t3d.dat.digi2J
Average: 0.124476003971
Stdev : 0.087537355721
Max : 0.307999998331
Min : 0.000000000000

SNAPAccuracy
../DCU/j12may.014.dat.3j
s221t3d.dat.digi3J
Average: 17.154897809513
Stdev : 4.780385971069
Max : 29.612930297852
Min : 2.354576349258

SNAPAccuracy
../DCU/j12may.014.dat.1g
s221t3d.dat.digi1G
Average: 0.171468081445
Stdev : 0.106024928391
Max : 0.377000004053
Min : 0.000000000000

SNAPAccuracy
../DCU/j12may.014.dat.2g
s221t3d.dat.digi2G
Average: 0.126492424183
Stdev : 0.088983274996
Max : 0.307999998331
Min : 0.000000000000

SNAPAccuracy
../DCU/j12may.014.dat.3g
s221t3d.dat.digi3G
Average: 17.148812371783
Stdev : 4.855510234833
Max : 28.900529861450
Min : 1.785896182060

SNAPAccuracy
../DCU/g12may.014.dat.1j
s221t3d.dat.digi1J
Average: 0.174419878714
Stdev : 0.105829529464
Max : 0.377000004053
Min : 0.000899999985

SNAPAccuracy
../DCU/g12may.014.dat.2j
s221t3d.dat.digi2J
Average: 0.124476003971
Stdev : 0.087537355721
Max : 0.307999998331
Min : 0.000000000000

SNAPAccuracy
../DCU/g12may.014.dat.3j
s221t3d.dat.digi3J
Average: 17.154897809513
Stdev : 4.780385971069
Max : 29.612930297852
Min : 2.354576349258

SNAPAccuracy
../DCU/g12may.014.dat.1g
s221t3d.dat.digi1G
Average: 0.171468081445
Stdev : 0.106024928391
Max : 0.377000004053
Min : 0.000000000000

SNAPAccuracy
../DCU/g12may.014.dat.2g
s221t3d.dat.digi2G
Average: 0.126492424183
Stdev : 0.088983274996
Max : 0.307999998331
Min : 0.000000000000

SNAPAccuracy
../DCU/g12may.014.dat.3g
s221t3d.dat.digi3G
Average: 8.101630795965
Stdev : 2.003329992294
Max : 10.176090240479
Min : 0.846509277821

7.1.15 Stats.015

/usr1/figd/DIS2.2/dis4.stats
Frames : 503
Average: 0.001948
Maximum: 0.012373
2nd Max: 0.006624
Minimum: 0.00089
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
Frames : 503
Average: 0.00204736
Maximum: 0.011978
2nd Max: 0.00702
Minimum: 0.00089
RateErr: 0

/sg16/usr1/nets/DISNET/di
snet7.stats
PDUs : 1014
Count : 941
Average: 1972.93
Maximum: 3378.38
2nd Max: 3367
Minimum: -9259.26

Frames : 228746
Average: 0.00022504
Maximum: 0.010692
2nd Max: 0.010199
Minimum: 1.8e-05

PDUs from Net1: 1011
PDUs from Net2: 1014

PDU Buffer 1
-- Stats from CircularBuffer --
NumPass: 1011
Average: 0.0459376
Variance: 9.06965e-05
Maximum: 0.07514
2nd Max: 0.074941
Minimum: 0.021355
-- End Stats from CircularBuffer --

PDU Buffer 2
-- Stats from CircularBuffer --
NumPass: 1014
Average: 0.0451331
Variance: 0.000103754
Maximum: 0.072271
2nd Max: 0.071876
Minimum: 0.011073
-- End Stats from CircularBuffer --

SNAPPdus.pl
Average: 0.049066
Maximum: 0.079525
Minimum: 0.014781
Variance: 0.000098
Std Dev : 0.009875

SNAPTtimes.pl
Sel-J Tss avg.:
0.00069995816730114026
Sel-J Tns avg.:
0.00034778685236175311
Sel-J Tnr avg.:
0.0016071314742464936
Sel-J Trs avg.:
0.00055399203218591117
Sel-J NIU avg.:
0.0019838764938719263
Sel-J Tgs avg.: 0
Sel-J Tgr avg.:
0.00029541035691221465

DCUAccuracy g12may.015.dat.j
j12may.015.dat.ownship
Average: 1.023112814092
Stdev : 1.003585457802
Max : 4.851139545441
Min : 0.032202482224

DCUAccuracy j12may.015.dat.g
g12may.015.dat.ownship
Average: 1.140013659193
Stdev : 0.942986786366
Max : 4.898039340973

Min : 0.137615397573

SNAPAccuracy

../DCU/g12may.015.dat.1j
s231t3d.dat.digi1J
Average: 0.156349594776
Stdev : 0.100948348641
Max : 0.351000010967
Min : 0.000000000000

SNAPAccuracy

../DCU/g12may.015.dat.2j
s231t3d.dat.digi2J
Average: 16.596943900411
Stdev : 4.520821094513
Max : 29.251811981201
Min : 1.858757615089

SNAPAccuracy

../DCU/g12may.015.dat.3j
s231t3d.dat.digi3J
Average: 17.086459787751
Stdev : 4.614149093628
Max : 29.489196777344
Min : 2.447040796280

SNAPAccuracy

../DCU/g12may.015.dat.1g
s231t3d.dat.digi1G
Average: 0.157991767962
Stdev : 0.103271514177
Max : 0.388999998569
Min : 0.000000000000

SNAPAccuracy

../DCU/g12may.015.dat.2g
s231t3d.dat.digi2G
Average: 5.057002264333
Stdev : 1.996603846550
Max : 10.206469535828
Min : 0.641053020954

SNAPAccuracy

../DCU/g12may.015.dat.3g
s231t3d.dat.digi3G
Average: 7.925628392572
Stdev : 2.047596693039
Max : 10.095858573914
Min : 1.501780629158

SNAPAccuracy

../DCU/j12may.015.dat.1j
s231t3d.dat.digi1J
Average: 0.234612028709
Stdev : 0.108569107950
Max : 0.449000000954
Min : 0.019999999553

SNAPAccuracy

../DCU/j12may.015.dat.2j
s231t3d.dat.digi2J
Average: 4.804334451875
Stdev : 1.779375910759
Max : 10.244644165039
Min : 0.558952569962

SNAPAccuracy

../DCU/j12may.015.dat.3j
s231t3d.dat.digi3J
Average: 7.501943643074
Stdev : 2.316275358200
Max : 10.105792999268
Min : 1.274603128433

SNAPAccuracy

../DCU/j12may.015.dat.1g
s231t3d.dat.digi1G
Average: 0.237942505590
Stdev : 0.108088545501
Max : 0.449000000954
Min : 0.019999999553

SNAPAccuracy

../DCU/j12may.015.dat.2g
s231t3d.dat.digi2G
Average:
16.388348364685
Stdev : 4.496959209442
Max : 29.389774322510
Min : 2.395653009415

SNAPAccuracy

../DCU/j12may.015.dat.3g
s231t3d.dat.digi3G
Average:
16.616729881494
Stdev : 4.625948905945
Max : 29.348852157593
Min : 2.268107652664

7.1.16 Stats.016

/usr1/figd/DIS2.2/dis4.stats
Frames : 503
Average: 0.00230162
Maximum: 0.013065
2nd Max: 0.006526
Minimum: 7.6e-05
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
Frames : 503
Average: 0.00230989
Maximum: 0.007217

2nd Max: 0.001681

Minimum: 0.000988

RateErr: 0

/sg16/usr1/nets/DISNET/disnet7.stats

PDUs : 1509

Count : 1253

Average: 2052.96

Maximum: 3826.53

2nd Max: 3378.38

Minimum: -352.237

Frames : 301704

Average: 0.000230814

Maximum: 0.010198

2nd Max: 0.010198

Minimum: 1.8e-05

PDUs from Net1: 1506

PDUs from Net2: 1509

PDU Buffer 1

-- Stats from CircularBuffer --

NumPass: 1506

Average: 0.0451773

Variance: 9.93586e-05

Maximum: 0.076028

2nd Max: 0.07237

Minimum: 0.014928

-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --

NumPass: 1509

Average: 0.0460345

Variance: 9.97877e-05

Maximum: 0.08631

2nd Max: 0.080181

Minimum: 0.015423

-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.049990

Maximum: 0.088058

Minimum: 0.015808

Variance: 0.000104

Std Dev : 0.010190

SNAPTtimes.pl

Sel-J Tss avg.:

0.00069993027916435057

Sel-J Tns avg.:

0.00034507768940244545

Sel-J Tnr avg.:

0.0018760677290462567

Sel-J Trs avg.:

0.00040233266886334821

Sel-J NIU avg.:

0.0022522649404604872

Sel-J Tgs avg.: 0
Sel-J Tgr avg.:
0.00029541035691221465

DCUAccuracy g12may.016.dat.j
j12may.016.dat.ownship
Average: 0.995142436203
Stdev : 0.975558102131
Max : 4.853892326355
Min : 0.032202482224

DCUAccuracy j12may.016.dat.g
g12may.016.dat.ownship
Average: 1.169800976752
Stdev : 0.942199647427
Max : 4.898167133331
Min : 0.182098880410

SNAPAccuracy
../DCU/g12may.016.dat.1j
s241t3d.dat.digi1J
Average: 16.415903377292
Stdev : 4.635340690613
Max : 29.505414962769
Min : 1.692761778831

SNAPAccuracy
../DCU/g12may.016.dat.2j
s241t3d.dat.digi2J
Average: 16.513835309971
Stdev : 4.523612022400
Max : 28.799961090088
Min : 2.040712833405

SNAPAccuracy
../DCU/g12may.016.dat.3j
s241t3d.dat.digi3J
Average: 17.224806613285
Stdev : 4.705103397369
Max : 29.347822189331
Min : 2.689293622971

SNAPAccuracy
../DCU/g12may.016.dat.1g
s241t3d.dat.digi1G
Average: 5.362235901941
Stdev : 2.282408952713
Max : 10.257950782776
Min : 0.500312924385

SNAPAccuracy
../DCU/g12may.016.dat.2g
s241t3d.dat.digi2G
Average: 5.553138326831
Stdev : 2.285123586655
Max : 10.110599517822
Min : 1.218243837357

SNAPAccuracy
../DCU/g12may.016.dat.3g
s241t3d.dat.digi3G
Average: 8.180317907986
Stdev : 1.746997833252
Max : 10.053025245667
Min : 2.137738227844

SNAPAccuracy
../DCU/j12may.016.dat.1j
s241t3d.dat.digi1J
Average: 5.405615906001
Stdev : 2.295233726501
Max : 10.304921150208
Min : 0.561636209488

SNAPAccuracy
../DCU/j12may.016.dat.2j
s241t3d.dat.digi2J
Average: 5.520457540959
Stdev : 2.291624784470
Max : 10.137728691101
Min : 1.057794809341

SNAPAccuracy
../DCU/j12may.016.dat.3j
s241t3d.dat.digi3J
Average: 8.093822317344
Stdev : 1.827189564705
Max : 10.059059143066
Min : 1.980497360229

SNAPAccuracy
../DCU/j12may.016.dat.1g
s241t3d.dat.digi1G
Average:
16.534156874606
Stdev : 4.703844070435
Max : 28.474500656128
Min : 1.721991896629

SNAPAccuracy
../DCU/j12may.016.dat.2g
s241t3d.dat.digi2G
Average:
16.898499553985
Stdev : 4.891589164734
Max : 29.561250686646
Min : 2.027615547180

SNAPAccuracy
../DCU/j12may.016.dat.3g
s241t3d.dat.digi3G
Average:
17.283019527250
Stdev : 4.677859783173
Max : 29.238658905029
Min : 2.849569320679

7.2 14 May 97 Data

7.2.1 Stats.001

/usr1/figd/DIS2.2/dis4.stats

Frames : 503
Average: 0.0026594
Maximum: 0.012753
2nd Max: 0.007218
Minimum: 0.001385
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats

Frames : 503
Average: 0.00247347
Maximum: 0.012457
2nd Max: 0.012457
Minimum: 0.001383
RateErr: 0

/sg16/usr1/nets/GATEWAY/gateway1.s
tats

Frames : 503
Average: 0.00182496
Maximum: 0.010183
2nd Max: 0.004152
Minimum: 0.000395

/sg16/usr1/nets/GATEWAY/gateway2.s
tats

Frames : 503
Average: 0.00178692
Maximum: 0.00959
2nd Max: 0.005054
Minimum: 0.000396

/sg16/usr1/nets/DISNET/disnet7.stats

PDUs : 25
Count : 24
Average: 1799.96
Maximum: 3355.7
2nd Max: 2525.25
Minimum: 1264.22

Frames : 363512
Average: 0.0002309
Maximum: 0.010298
2nd Max: 0.010298
Minimum: 8.8e-05

PDUs from Net1: 24
PDUs from Net2: 25

PDU Buffer 1

-- Stats from CircularBuffer --

NumPass: 24
Average: 0.0433553
Variance: 0.000109576
Maximum: 0.063769
2nd Max: 0.045578
Minimum: 0.025606

-- End Stats from

CircularBuffer --

PDU Buffer 2

-- Stats from

CircularBuffer --

NumPass: 25
Average: 0.0468825
Variance: 7.17365e-05
Maximum: 0.06278
2nd Max: 0.062187
Minimum: 0.023925

-- End Stats from

CircularBuffer --

SNAPPdus.pl

Average: 1.072219
Maximum: 4.912565
Minimum: 0.000215
Variance: 2.535505
Std Dev : 1.592327

SNAPTtimes.pl s212t0.dat |

SNAPCodeTimes.pl

Sel-J Tss avg.:

0.00097588247015925709

Sel-J Tns avg.:

0.00080370717124565434

Sel-J Tnr avg.:

0.0015750039844037186

Sel-J Trs avg.:

0.00038402788838477384

Sel-J NIU avg.:

0.0024126015937888522

Sel-J Nius avg.:

0.00080370717124565434

Sel-J Niur avg.:

0.0015750039844037186

Sel-J Tgs avg.:

0.00078088645409932732

Sel-J Tgr avg.:

0.00041849402397378454

DCUAccuracy

j14may.001.dat.g

g14may.001.dat.ownship

Average:

12.328419161582

Stdev : 1.870245814323

Max : 13.854973793030

Min : 0.296233028173

DCUAccuracy g14may.001.dat.j

j14may.001.dat.ownship

Average: 12.629218091451

Stdev : 2.146621227264

Max : 19.591806411743

Min : 0.097529478371

SNAPAccuracy

../DCU/j14may.001.dat.1j

s212t0.dat.digi1J

Average: 5.920080355579

Stdev : 0.134014546871

Max : 5.970600128174

Min : 2.970000028610

SNAPAccuracy

../DCU/j14may.001.dat.2j

s212t0.dat.digi2J

Average: 6.264526632464

Stdev : 0.300420224667

Max : 6.355830192566

Min : 0.283899992704

SNAPAccuracy

../DCU/j14may.001.dat.3j

s212t0.dat.digi3J

Average: 6.554459025543

Stdev : 0.404022306204

Max : 6.681719779968

Min : 0.550999999046

SNAPAccuracy

../DCU/j14may.001.dat.1g

s212t0.dat.digi1G

Average: 5.675615551056

Stdev : 0.759628713131

Max : 5.965159893036

Min : 0.180099993944

SNAPAccuracy

../DCU/j14may.001.dat.2g

s212t0.dat.digi2G

Average: 6.029563612812

Stdev : 0.865159690380

Max : 6.350389957428

Min : 0.054999999702

SNAPAccuracy

../DCU/j14may.001.dat.3g

s212t0.dat.digi3G

Average: 6.292752171617

Stdev : 0.979714214802

Max : 6.676280021667

Min : 0.339000016451

SNAPAccuracy

../DCU/g14may.001.dat.1j

s212t0.dat.digi1J

Average: 5.772974510038

Stdev : 0.627510666847
Max : 6.023900032043
Min : 0.208000004292

SNAPAccuracy

../DCU/g14may.001.dat.2j
s212t0.dat.digi2J
Average: 6.142813136162
Stdev : 0.674125373363
Max : 6.411250114441
Min : 0.123000003397

SNAPAccuracy

../DCU/g14may.001.dat.3j
s212t0.dat.digi3J
Average: 6.422751077980
Stdev : 0.738949060440
Max : 6.737140178680
Min : 0.420000016689

SNAPAccuracy

../DCU/g14may.001.dat.1g
s212t0.dat.digi1G
Average: 6.004299033336
Stdev : 0.014632512815
Max : 6.059360027313
Min : 5.818999767303

SNAPAccuracy

../DCU/g14may.001.dat.2g
s212t0.dat.digi2G
Average: 6.360403885064
Stdev : 0.020377160981
Max : 6.415299892426
Min : 6.153999805450

SNAPAccuracy

../DCU/g14may.001.dat.3g
s212t0.dat.digi3G
Average: 6.650919734112
Stdev : 0.270799666643
Max : 6.779500007629
Min : 0.639999985695

7.2.2 Stats.002

/usr1/figd/DIS2.2/dis4.stats
Frames : 503
Average: 0.00251981
Maximum: 0.009096
2nd Max: 0.007316
Minimum: 0.001483
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
Frames : 503
Average: 0.0025107

Maximum: 0.008898
2nd Max: 0.007416
Minimum: 0.000274
RateErr: 0

/sg16/usr1/nets/GATEWA
Y/gateway1.stats
Frames : 503
Average: 0.00300741
Maximum: 0.010876
2nd Max: 0.004252
Minimum: 0.000274

/sg16/usr1/nets/GATEWA
Y/gateway2.stats
Frames : 503
Average: 0.00306453
Maximum: 0.014845
2nd Max: 0.010578
Minimum: 0.000297

/sg16/usr1/nets/DISNET/di
snet7.stats
PDUs : 483
Count : 476
Average: 1591.96
Maximum: 11111.1
2nd Max: 2531.65
Minimum: -360.62

Frames : 342796
Average: 0.000235613
Maximum: 0.011568
2nd Max: 0.010298
Minimum: 1.9e-05

PDUs from Net1: 480
PDUs from Net2: 483

PDU Buffer 1
-- Stats from
CircularBuffer --
NumPass: 480
Average: 0.0459103
Variance: 0.000101882
Maximum: 0.075336
2nd Max: 0.072369
Minimum: 0.017698

-- End Stats from
CircularBuffer --

PDU Buffer 2
-- Stats from
CircularBuffer --
NumPass: 483
Average: 0.0449992
Variance: 9.62426e-05
Maximum: 0.07059
2nd Max: 0.069503

Minimum: 0.015917
-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.126267
Maximum: 2.842892
Minimum: 0.000015
Variance: 0.034565
Std Dev : 0.185917

SNAPTimes.pl s222t0.dat

Sel-J Tss avg.:
0.00097826294802371371
Sel-J Tns avg.:
0.0008328764937563885
Sel-J Tnr avg.:
0.0015942828689571526
Sel-J Trs avg.:
0.00062154183277639513
Sel-J NIU avg.:
0.0024592290840037929
Sel-J Nius avg.:
0.0008328764937563885
Sel-J Niur avg.:
0.0015942828689571526
Sel-J Tgs avg.:
0.0013614780879700073
Sel-J Tgr avg.:
0.0010254820714847544

DCUAccuracy j14may.002.dat.g
g14may.002.dat.ownship
Average: 12.285549728430
Stdev : 1.860463857651
Max : 13.664728164673
Min : 0.301439881325

DCUAccuracy g14may.002.dat.j
j14may.002.dat.ownship
Average: 12.682994754845
Stdev : 1.852337598801
Max : 13.996452331543
Min : 0.221819743514

SNAPAccuracy

../DCU/j14may.002.dat.1j
s222t0.dat.digi1J
Average: 5.927717135946
Stdev : 0.019645316526
Max : 5.979000091553
Min : 5.829600334167

SNAPAccuracy

../DCU/j14may.002.dat.2j
s222t0.dat.digi2J
Average: 6.252666316042
Stdev : 0.032927978784
Max : 6.335000038147
Min : 6.185699939728

SNAPAccuracy
../DCU/j14may.002.dat.3j
s222t0.dat.digi3J
Average: 15.687755861992
Stdev : 2.693001747131
Max : 19.119375228882
Min : 6.970717430115

SNAPAccuracy
../DCU/j14may.002.dat.1g
s222t0.dat.digi1G
Average: 5.581418528976
Stdev : 0.567037701607
Max : 5.946700096130
Min : 0.072900004685

SNAPAccuracy
../DCU/j14may.002.dat.2g
s222t0.dat.digi2G
Average: 5.932296012617
Stdev : 0.755650818348
Max : 6.315130233765
Min : 0.177400007844

SNAPAccuracy
../DCU/j14may.002.dat.3g
s222t0.dat.digi3G
Average: 27.208755914870
Stdev : 3.894809722900
Max : 38.136386871338
Min : 16.973123550415

SNAPAccuracy
../DCU/g14may.002.dat.1j
s222t0.dat.digi1J
Average: 5.632039566245
Stdev : 0.825479626656
Max : 6.037600040436
Min : 0.004399999976

SNAPAccuracy
../DCU/g14may.002.dat.2j
s222t0.dat.digi2J
Average: 5.938927247002
Stdev : 0.835243463516
Max : 6.393199920654
Min : 0.254000008106

SNAPAccuracy
../DCU/g14may.002.dat.3j
s222t0.dat.digi3J
Average: 27.520048438526
Stdev : 3.833624601364
Max : 37.460674285889
Min : 13.685413360596

SNAPAccuracy
../DCU/g14may.002.dat.1g
s222t0.dat.digi1G
Average: 6.007670834271
Stdev : 0.015011884272
Max : 6.059299945831
Min : 5.948999881744

SNAPAccuracy
../DCU/g14may.002.dat.2g
s222t0.dat.digi2G
Average: 6.364836853994
Stdev : 0.021145427600
Max : 6.453999996185
Min : 6.266799926758

SNAPAccuracy
../DCU/g14may.002.dat.3g
s222t0.dat.digi3G
Average:
15.861555802750
Stdev : 2.732076883316
Max : 19.275102615356
Min : 7.004560470581

7.2.3 Stats.003

/usr1/figd/DIS2.2/dis4.stats
Frames : 502
Average: 0.00288747
Maximum: 0.012075
2nd Max: 0.01038
Minimum: 0.001483
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
Frames : 503
Average: 0.00271328
Maximum: 0.012767
2nd Max: 0.007514
Minimum: 0.001285
RateErr: 0

/sg16/usr1/nets/GATEWA
Y/gateway1.stats
Frames : 503
Average: 0.00422502
Maximum: 0.013461
2nd Max: 0.008898
Minimum: 0.000396

/sg16/usr1/nets/GATEWA
Y/gateway2.stats
Frames : 503
Average: 0.00406946
Maximum: 0.013262
2nd Max: 0.011073

Minimum: 0.000395

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 941
Count : 746
Average: 1684.72
Maximum: 3378.38
2nd Max: 3367
Minimum: -226.937

Frames : 257131
Average: 0.000234355
Maximum: 0.013742
2nd Max: 0.012358
Minimum: 9.5e-05

PDUs from Net1: 936
PDUs from Net2: 941

PDU Buffer 1
-- Stats from CircularBuffer --
NumPass: 936
Average: 0.046193
Variance: 9.05641e-05
Maximum: 0.075252
2nd Max: 0.074248
Minimum: 0.007514
-- End Stats from CircularBuffer --

PDU Buffer 2
-- Stats from CircularBuffer --
NumPass: 941
Average: 0.0455569
Variance: 0.000107069
Maximum: 0.078895
2nd Max: 0.072765
Minimum: 0.010282
-- End Stats from CircularBuffer --

SNAPPdus.pl
Average: 0.098712
Maximum: 1.795423
Minimum: 0.000020
Variance: 0.011864
Std Dev : 0.108920

SNAPTimes.pl s232t0.dat
Sel-J Tss avg.:
0.00098077490061602231
Sel-J Tns avg.:
0.00091617529899548861
Sel-J Tnr avg.:
0.0017233346614998718
Sel-J Trs avg.:
0.0004095338646506156
Sel-J NIU avg.:
0.0026755936258167318
Sel-J Nius avg.:
0.00091617529899548861

Sel-J Niur avg.:
0.0017233346614998718
Sel-J Tgs avg.:
0.0020770079684288398
Sel-J Tgr avg.:
0.0015029083659760635

DCUAccuracy j14may.003.dat.g
g14may.003.dat.ownship
Average: 12.478254544590
Stdev : 1.107309103012
Max : 16.607318878174
Min : 2.794416666031

DCUAccuracy g14may.003.dat.j
j14may.003.dat.ownship
Average: 12.824254350778
Stdev : 1.212903738022
Max : 25.930599212646
Min : 2.686456680298

SNAPAccuracy
../DCU/j14may.003.dat.1j
s232t0.dat.digi1J
Average: 5.926715217606
Stdev : 0.026339478791
Max : 6.181000232697
Min : 5.649000167847

SNAPAccuracy
../DCU/j14may.003.dat.2j
s232t0.dat.digi2J
Average: 14.644568575700
Stdev : 2.685286998749
Max : 18.188207626343
Min : 9.568576812744

SNAPAccuracy
../DCU/j14may.003.dat.3j
s232t0.dat.digi3J
Average: 15.881260534168
Stdev : 2.720808029175
Max : 19.288194656372
Min : 8.715104103088

SNAPAccuracy
../DCU/j14may.003.dat.1g
s232t0.dat.digi1G
Average: 5.744819394624
Stdev : 0.506956994534
Max : 5.968019962311
Min : 0.208999991417

SNAPAccuracy
../DCU/j14may.003.dat.2g
s232t0.dat.digi2G
Average: 26.011681972604
Stdev : 4.084377288818
Max : 37.955955505371

Min : 17.291906356812

SNAPAccuracy
../DCU/j14may.003.dat.3g
s232t0.dat.digi3G
Average:
27.426119357529
Stdev : 3.841435909271
Max : 37.576416015625
Min : 18.615245819092

SNAPAccuracy
../DCU/g14may.003.dat.1j
s232t0.dat.digi1J
Average: 5.763330231332
Stdev : 0.574661552906
Max : 11.925000190735
Min : 0.486999988556

SNAPAccuracy
../DCU/g14may.003.dat.2j
s232t0.dat.digi2J
Average:
26.135755353235
Stdev : 3.923011541367
Max : 38.066253662109
Min : 16.716573715210

SNAPAccuracy
../DCU/g14may.003.dat.3j
s232t0.dat.digi3J
Average:
27.539382585282
Stdev : 3.716408729553
Max : 38.048088073730
Min : 17.899539947510

SNAPAccuracy
../DCU/g14may.003.dat.1g
s232t0.dat.digi1G
Average: 6.015390453684
Stdev : 0.281554758549
Max : 12.029999732971
Min : 4.258999824524

SNAPAccuracy
../DCU/g14may.003.dat.2g
s232t0.dat.digi2G
Average:
14.785246388533
Stdev : 2.749984502792
Max : 20.667978286743
Min : 9.630243301392

SNAPAccuracy
../DCU/g14may.003.dat.3g
s232t0.dat.digi3G
Average:
16.058913773934

Stdev : 2.784799098969
Max : 22.332489013672
Min : 8.707365036011

7.2.4 Stats.004

/usr1/figd/DIS2.2/dis4.stats
Frames : 503
Average: 0.00301757
Maximum: 0.014237
2nd Max: 0.007711
Minimum: 0.001286
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
Frames : 503
Average: 0.00295751
Maximum: 0.013545
2nd Max: 0.007217
Minimum: 0.001385
RateErr: 0

/sg16/usr1/nets/GATEWAY/gateway1.s
tats
Frames : 503
Average: 0.0054341
Maximum: 0.017104
2nd Max: 0.016906
Minimum: 0.000297

/sg16/usr1/nets/GATEWAY/gateway2.s
tats
Frames : 503
Average: 0.00535913
Maximum: 0.02442
2nd Max: 0.019477
Minimum: 0.000295

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 1431
Count : 945
Average: 1638.4
Maximum: 3378.38
2nd Max: 3367
Minimum: -1033.32

Frames : 334329
Average: 0.000283116
Maximum: 0.014928
2nd Max: 0.014831
Minimum: 8.9e-05

PDUs from Net1: 1397
PDUs from Net2: 1433

PDU Buffer 1

-- Stats from CircularBuffer --			Average: 25.211133334023
NumPass: 1397	SNAPAccuracy		Stdev : 4.451555728912
Average: 0.0460167	../DCU/j14may.004.dat.1j		Max : 41.292301177979
Variance: 9.72298e-05	s242t0.dat.digi1J		Min : 9.575398445129
Maximum: 0.080675	Average:		
2nd Max: 0.072469	13.472489445440	SNAPAccuracy	
Minimum: 0.015718	Stdev : 2.732716798782	../DCU/g14may.004.dat.2j	
-- End Stats from CircularBuffer --	Max : 18.842699050903	s242t0.dat.digi2J	
	Min : 8.206096649170	Average: 26.896461053504	
PDU Buffer 2		Stdev : 4.510819435120	
-- Stats from CircularBuffer --	SNAPAccuracy	Max : 41.198905944824	
NumPass: 1433	../DCU/j14may.004.dat.2j	Min : 11.689505577087	
Average: 0.0455931	s242t0.dat.digi2J		
Variance: 0.00010872	Average:	SNAPAccuracy	
Maximum: 0.081664	14.888892460254	../DCU/g14may.004.dat.3j	
2nd Max: 0.073655	Stdev : 2.720266819000	s242t0.dat.digi3J	
Minimum: 0.012061	Max : 19.654628753662	Average: 28.204009172105	
-- End Stats from CircularBuffer --	Min : 9.644301414490	Stdev : 4.476038455963	
		Max : 43.697689056396	
SNAPPdus.pl	SNAPAccuracy	Min : 11.732244491577	
Average: 0.078743	../DCU/j14may.004.dat.3j		
Maximum: 2.847630	s242t0.dat.digi3J	SNAPAccuracy	
Minimum: 0.000031	Average:	../DCU/g14may.004.dat.1g	
Variance: 0.020256	15.933480251220	s242t0.dat.digi1G	
Std Dev : 0.142322	Stdev : 2.840010881424	Average: 13.864746818120	
	Max : 20.387563705444	Stdev : 3.704813480377	
	Min : 5.165315628052	Max : 33.694450378418	
SNAPTtimes.pl s242t0.dat		Min : 4.872984886169	
Sel-J Tss avg.:	SNAPAccuracy		
0.00098493426306654644	../DCU/j14may.004.dat.1g	SNAPAccuracy	
Sel-J Tns avg.:	s242t0.dat.digi1G	../DCU/g14may.004.dat.2g	
0.00093452589644005052	Average:	s242t0.dat.digi2G	
Sel-J Tnr avg.:	24.928984570163	Average: 15.259495345640	
0.0018784422309145303	Stdev : 4.471079826355	Stdev : 3.673387289047	
Sel-J Trs avg.:	Max : 45.865364074707	Max : 34.921047210693	
0.00040948804762665241	Min : 11.773078918457	Min : 4.941376686096	
Sel-J NIU avg.:			
0.0028454541831137705	SNAPAccuracy	SNAPAccuracy	
Sel-J Nius avg.:	../DCU/j14may.004.dat.2g	../DCU/g14may.004.dat.3g	
0.00093452589644005052	s242t0.dat.digi2G	s242t0.dat.digi3G	
Sel-J Niur avg.:	Average:	Average: 16.380013562784	
0.0018784422309145303	26.778699971993	Stdev : 3.732285261154	
Sel-J Tgs avg.:	Stdev : 4.655029773712	Max : 36.365863800049	
0.0027651095613735206	Max : 41.937858581543	Min : 5.252491474152	
Sel-J Tgr avg.:	Min : 11.687380790710		
0.0016306573707984659			
DCUAccuracy j14may.004.dat.g	SNAPAccuracy		
g14may.004.dat.ownship	../DCU/j14may.004.dat.3g		
Average: 12.969963106338	s242t0.dat.digi3G		
Stdev : 2.887572050095	Average:		
Max : 17.263900756836	27.569022143688		
Min : 0.210116639733	Stdev : 4.308722972870		
	Max : 41.266437530518		
	Min : 11.724865913391		
DCUAccuracy g14may.004.dat.j	SNAPAccuracy		
j14may.004.dat.ownship	../DCU/g14may.004.dat.1j		
Average: 12.802238402061	s242t0.dat.digi1J		
Stdev : 2.828894853592			
Max : 26.112667083740			
Min : 0.140856981277			

7.2.5 Stats.005

```

/usr1/figd/DIS2.2/dis_lite3.stats
Frames : 503
Average: 0.00242566
Maximum: 0.007217
2nd Max: 0.006723
Minimum: 0.001483
RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.stats

```

Frames : 503
Average: 0.00258979
Maximum: 0.007415
2nd Max: 0.006327
Minimum: 0.001484
RateErr: 0

/sg16/usr1/nets/GATEWAY/gateway_lit
e2.stats

Frames : 503
Average: 0.00274075
Maximum: 0.011567
2nd Max: 0.011271
Minimum: 0.000396

/sg16/usr1/nets/GATEWAY/gateway_lit
e1.stats

Frames : 503
Average: 0.00289382
Maximum: 0.01305
2nd Max: 0.00435
Minimum: 0.000395

/sg16/usr1/nets/DISNET/disnet7.stats

PDU's : 192
Count : 190
Average: 1556.74
Maximum: 2538.07
2nd Max: 2531.65
Minimum: -108.589

Frames : 321559
Average: 0.000228815
Maximum: 0.010298
2nd Max: 0.010296
Minimum: 9.5e-05

PDU's from Net1: 188
PDU's from Net2: 192

PDU Buffer 1

-- Stats from CircularBuffer --
NumPass: 188
Average: 0.0453129
Variance: 9.87859e-05
Maximum: 0.068612
2nd Max: 0.067032
Minimum: 0.017895
-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --
NumPass: 192
Average: 0.0448607
Variance: 8.63709e-05
Maximum: 0.070788
2nd Max: 0.063472
Minimum: 0.022048
-- End Stats from CircularBuffer --

SNAPPdus.pl
Average: 0.074596
Maximum: 0.321659
Minimum: 0.000017
Variance: 0.003711
Std Dev : 0.060915

SNAPTtimes.pl s212t0l.dat
Sel-J Tss avg.:
0.00097067529856008426
Sel-J Tns avg.:
0.0011339780875825808
Sel-J Tnr avg.:
0.0011936693228338287
Sel-J Trs avg.:
0.00040630876513121953
Sel-J NIU avg.:
0.0023629262947047914
Sel-J Nius avg.:
0.0011339780875825808
Sel-J Niur avg.:
0.0011936693228338287
Sel-J Tgs avg.:
0.0013468844625464384
Sel-J Tgr avg.:
0.00090765737063683706

DCUAccuracy
j14may.005.dat.g
g14may.005.dat.ownship
Average:
34.549562282951
Stddev : 26.283302307129
Max : 77.710128784180
Min : 0.208060085773

DCUAccuracyLite
j14may.005.dat.g
g14may.005.dat.ownship
50.0
Average:
12.626524166506
Stddev : 1.615946173668
Max : 29.515640258789
Min : 0.208060085773

DCUAccuracy
g14may.005.dat.j
j14may.005.dat.ownship
Average:
45.362631180026
Stddev : 32.246429443359
Max : 90.280052185059
Min : 9.316006660461

DCUAccuracyLite
g14may.005.dat.j

j14may.005.dat.ownship 50.0
Average: 13.128216770496
Stddev : 0.864745736122
Max : 25.863208770752
Min : 9.316006660461

SNAPAccuracy
../DCU/j14may.005.dat.1j
s212t0l.dat.digi1J
Average: 5.941881131838
Stddev : 0.273188918829
Max : 12.000000000000
Min : 5.881000041962

SNAPAccuracy
../DCU/j14may.005.dat.2j
s212t0l.dat.digi2J
Average: 6.305879300269
Stddev : 0.258498579264
Max : 12.000000000000
Min : 6.000000000000

SNAPAccuracy
../DCU/j14may.005.dat.3j
s212t0l.dat.digi3J
Average: 6.624712777090
Stddev : 0.347093135118
Max : 12.000000000000
Min : 6.000000000000

SNAPAccuracy
../DCU/j14may.005.dat.1g
s212t0l.dat.digi1G
Average: 32.874269624753
Stddev : 2.996931314468
Max : 36.017700195312
Min : 29.625000000000

SNAPAccuracy
../DCU/j14may.005.dat.2g
s212t0l.dat.digi2G
Average: 32.874097684818
Stddev : 3.021029710770
Max : 42.000000000000
Min : 29.625000000000

SNAPAccuracy
../DCU/j14may.005.dat.3g
s212t0l.dat.digi3G
Average: 35.631880166323
Stddev : 0.224872022867
Max : 36.017700195312
Min : 35.218997955322

SNAPAccuracy
../DCU/g14may.005.dat.1j
s212t0l.dat.digi1J
Average: 26.906785092373
Stddev : 3.071041107178

Max : 36.000000000000
Min : 21.747999191284

SNAPAccuracy
../DCU/g14may.005.dat.2j
s212t0l.dat.digi2J
Average: 32.775999609758
Stdev : 3.046915292740
Max : 42.000000000000
Min : 28.022998809814

SNAPAccuracy
../DCU/g14may.005.dat.3j
s212t0l.dat.digi3J
Average: 29.848659894529
Stdev : 0.495838195086
Max : 36.000000000000
Min : 27.739999771118

SNAPAccuracy
../DCU/g14may.005.dat.1g
s212t0l.dat.digi1G
Average: 6.025183473315
Stdev : 0.398953616619
Max : 12.008999824524
Min : 4.013000011444

SNAPAccuracy
../DCU/g14may.005.dat.2g
s212t0l.dat.digi2G
Average: 6.466907750673
Stdev : 0.469897538424
Max : 12.423999786377
Min : 4.458000183105

SNAPAccuracy
../DCU/g14may.005.dat.3g
s212t0l.dat.digi3G
Average: 6.826965179482
Stdev : 0.518526554108
Max : 12.809000015259
Min : 4.812999725342

7.2.6 Stats.006

/usr1/figd/DIS2.2/dis_lite3.stats
Frames : 503
Average: 0.0028247
Maximum: 0.012471
2nd Max: 0.006525
Minimum: 0.001582
RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.stats
Frames : 502
Average: 0.00297986

Maximum: 0.013658
2nd Max: 0.005834
Minimum: 0.001284
RateErr: 0

/sg16/usr1/nets/GATEWA
Y/gateway_lite2.stats
Frames : 503
Average: 0.00415631
Maximum: 0.011073
2nd Max: 0.009491
Minimum: 0.000197

/sg16/usr1/nets/GATEWA
Y/gateway_lite1.stats
Frames : 503
Average: 0.00431141
Maximum: 0.013856
2nd Max: 0.011568
Minimum: 0.000395

/sg16/usr1/nets/DISNET/di
snet7.stats
PDUs : 630
Count : 592
Average: 1588.19
Maximum: 3367
2nd Max: 2531.65
Minimum: -229.463

Frames : 231824
Average: 0.000236576
Maximum: 0.010791
2nd Max: 0.010297
Minimum: 9.5e-05

PDUs from Net1: 634
PDUs from Net2: 630

PDU Buffer 1
-- Stats from
CircularBuffer --
NumPass: 634
Average: 0.0449475
Variance: 9.14239e-05
Maximum: 0.073161
2nd Max: 0.066142
Minimum: 0.020959

-- End Stats from
CircularBuffer --

PDU Buffer 2
-- Stats from
CircularBuffer --
NumPass: 630
Average: 0.0456821
Variance: 0.000102492
Maximum: 0.075139
2nd Max: 0.065845

Minimum: 0.008404
-- End Stats from CircularBuffer --

SNAPPdus.pl
Average: 0.081300
Maximum: 1.927895
Minimum: 0.000016
Variance: 0.013586
Std Dev : 0.116561

SNAPTimes.pl s222t0l.dat
Sel-J Tss avg.:
0.00097980079683104154
Sel-J Tns avg.:
0.0013301494023523783
Sel-J Tnr avg.:
0.0014200816737985112
Sel-J Trs avg.:
0.00040811354577804791
Sel-J NIU avg.:
0.0027898207171894313
Sel-J Nius avg.:
0.0013301494023523783
Sel-J Niur avg.:
0.0014200816737985112
Sel-J Tgs avg.:
0.0021481055775794118
Sel-J Tgr avg.:
0.0015482370521299508

DCUAccuracy j14may.006.dat.g
g14may.006.dat.ownship
Average: 45.306779963285
Stdev : 32.435134887695
Max : 77.971099853516
Min : 2.397227048874

DCUAccuracyLite j14may.006.dat.g
g14may.006.dat.ownship 50.0
Average: 12.626868612912
Stdev : 1.322286248207
Max : 13.600284576416
Min : 2.397227048874

DCUAccuracy g14may.006.dat.j
j14may.006.dat.ownship
Average: 45.087190797454
Stdev : 32.281852722168
Max : 77.943153381348
Min : 2.631775379181

DCUAccuracyLite g14may.006.dat.j
j14may.006.dat.ownship 50.0
Average: 12.955726976356
Stdev : 1.584759354591
Max : 26.054090499878
Min : 2.631775379181

SNAPAccuracy
../DCU/j14may.006.dat.1j
s222t0l.dat.digi1J
Average: 5.945623010217
Stdev : 0.272527873516
Max : 12.000000000000
Min : 5.881000041962

SNAPAccuracy
../DCU/j14may.006.dat.2j
s222t0l.dat.digi2J
Average: 6.346788549327
Stdev : 0.257420718670
Max : 12.000000000000
Min : 6.000000000000

SNAPAccuracy
../DCU/j14may.006.dat.3j
s222t0l.dat.digi3J
Average: 15.605531479511
Stdev : 2.961396694183
Max : 33.360149383545
Min : 10.088557243347

SNAPAccuracy
../DCU/j14may.006.dat.1g
s222t0l.dat.digi1G
Average: 26.304569614828
Stdev : 9.316431999207
Max : 36.017700195312
Min : 5.839000225067

SNAPAccuracy
../DCU/j14may.006.dat.2g
s222t0l.dat.digi2G
Average: 29.291336339096
Stdev : 8.936755180359
Max : 36.017700195312
Min : 6.224999904633

SNAPAccuracy
../DCU/j14may.006.dat.3g
s222t0l.dat.digi3G
Average: 27.426649592711
Stdev : 7.726526737213
Max : 83.707717895508
Min : 17.069831848145

SNAPAccuracy
../DCU/g14may.006.dat.1j
s222t0l.dat.digi1J
Average: 26.916601250529
Stdev : 7.755683898926
Max : 36.000000000000
Min : 5.907000064850

SNAPAccuracy
../DCU/g14may.006.dat.2j
s222t0l.dat.digi2J

Average:
24.059825925209
Stdev : 7.103129863739
Max : 36.000000000000
Min : 6.292999744415

SNAPAccuracy
../DCU/g14may.006.dat.3j
s222t0l.dat.digi3J
Average:
27.074322420008
Stdev : 8.117499351501
Max : 83.707061767578
Min : 16.701757431030

SNAPAccuracyLite
../DCU/g14may.006.dat.3j
s222t0l.dat.digi3J 80.0
Average:
26.142602240179
Stdev : 3.672017812729
Max : 40.438243865967
Min : 16.701757431030

SNAPAccuracy
../DCU/g14may.006.dat.1g
s222t0l.dat.digi1G
Average: 6.013423586466
Stdev : 0.282136470079
Max : 11.999699592590
Min : 4.160500049591

SNAPAccuracy
../DCU/g14may.006.dat.2g
s222t0l.dat.digi2G
Average: 6.439018384791
Stdev : 0.378436088562
Max : 12.415100097656
Min : 4.575900077820

SNAPAccuracy
../DCU/g14may.006.dat.3g
s222t0l.dat.digi3G
Average:
16.128337006214
Stdev : 3.054353952408
Max : 35.897380828857
Min : 9.601170539856

7.2.7 Stats.007

./usr1/figd/DIS2.2/dis_lite3.
stats
Frames : 501
Average: 0.00267308
Maximum: 0.0087

2nd Max: 0.006426
Minimum: 0.001384
RateErr: 0

./usr1/figd/DIS2.2/dis_lite4.stats
Frames : 503
Average: 0.00266842
Maximum: 0.008898
2nd Max: 0.006822
Minimum: 0.001384
RateErr: 0

/sg16/usr1/nets/GATEWAY/gateway_lit
e2.stats
Frames : 503
Average: 0.00540051
Maximum: 0.019195
2nd Max: 0.014138
Minimum: 0.000396

/sg16/usr1/nets/GATEWAY/gateway_lit
e1.stats
Frames : 502
Average: 0.00572813
Maximum: 0.018686
2nd Max: 0.01483
Minimum: 0.000395

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 1124
Count : 970
Average: 1610.55
Maximum: 3378.38
2nd Max: 3367
Minimum: -9090.91

Frames : 256034
Average: 0.000249461
Maximum: 0.011582
2nd Max: 0.010792
Minimum: 9.5e-05

PDUs from Net1: 1116
PDUs from Net2: 1124

PDU Buffer 1
-- Stats from CircularBuffer --
NumPass: 1116
Average: 0.0450095
Variance: 9.70016e-05
Maximum: 0.074447
2nd Max: 0.071481
Minimum: 0.016808
-- End Stats from CircularBuffer --

PDU Buffer 2
-- Stats from CircularBuffer --
NumPass: 1124
Average: 0.0447517

Variance: 0.000105762
 Maximum: 0.076028
 2nd Max: 0.069122
 Minimum: 0.009195
 -- End Stats from CircularBuffer --

SNAPPdus.pl
 Average: 0.078592
 Maximum: 4.657882
 Minimum: 0.000016
 Variance: 0.075222
 Std Dev : 0.274266

SNAPTtimes.pl
 Sel-J Tss avg.:
 0.00099990039859087663
 Sel-J Tns avg.:
 0.0011692290837631608
 Sel-J Tnr avg.:
 0.0013381633464041986
 Sel-J Trs avg.:
 0.00040158167336135173
 Sel-J NIU avg.:
 0.0025663107569643437
 Sel-J Nius avg.:
 0.0011692290837631608
 Sel-J Niur avg.:
 0.0013381633464041986
 Sel-J Tgs avg.:
 0.0026724840636632731
 Sel-J Tgr avg.:
 0.0015212191240161666

DCUAccuracy j14may.007.dat.g
 g14may.007.dat.ownship
 Average: 51.504930383791
 Stdev : 38.807773590088
 Max : 90.998588562012
 Min : 8.721715927124

DCUAccuracyLite j14may.007.dat.g
 g14may.007.dat.ownship 50.0
 Average: 12.892031380039
 Stdev : 1.476871490479
 Max : 25.777086257935
 Min : 8.721715927124

DCUAccuracy g14may.007.dat.j
 j14may.007.dat.ownship
 Average: 15.802213692716
 Stdev : 14.749436378479
 Max : 90.791191101074
 Min : 0.112004466355

DCUAccuracyLite g14may.007.dat.j
 j14may.007.dat.ownship 50.0
 Average: 12.796182084742
 Stdev : 1.353472828865
 Max : 26.179033279419

Min : 0.112004466355
 SNAPAccuracy
 ../DCU/j14may.007.dat.1j
 s232t0l.dat.digi1J
 Average: 5.963255244242
 Stdev : 0.563298285007
 Max : 11.940999984741
 Min : 4.042000293732

SNAPAccuracy
 ../DCU/j14may.007.dat.2j
 s232t0l.dat.digi2J
 Average:
 14.754271047696
 Stdev : 3.075112581253
 Max : 33.856117248535
 Min : 7.247308254242

SNAPAccuracy
 ../DCU/j14may.007.dat.3j
 s232t0l.dat.digi3J
 Average:
 16.429721031151
 Stdev : 3.253812313080
 Max : 35.903656005859
 Min : 7.954782962799

SNAPAccuracy
 ../DCU/j14may.007.dat.1g
 s232t0l.dat.digi1G
 Average:
 32.788861876327
 Stdev : 3.054176330566
 Max : 41.756000518799
 Min : 27.815000534058

SNAPAccuracy
 ../DCU/j14may.007.dat.2g
 s232t0l.dat.digi2G
 Average:
 25.545935655946
 Stdev : 5.798048019409
 Max : 83.440536499023
 Min : 16.621984481812

SNAPAccuracyLite
 ../DCU/j14may.007.dat.2g
 s232t0l.dat.digi2G 80.0
 Average:
 25.203778122882
 Stdev : 3.817247629166
 Max : 41.953392028809
 Min : 16.621984481812

SNAPAccuracy
 ../DCU/j14may.007.dat.3g
 s232t0l.dat.digi3G

Average: 26.883453314309
 Stdev : 5.833889007568
 Max : 83.440536499023
 Min : 16.707218170166

SNAPAccuracyLite
 ../DCU/j14may.007.dat.3g
 s232t0l.dat.digi3G 80.0
 Average: 26.545344557644
 Stdev : 3.959104299545
 Max : 43.125247955322
 Min : 16.707218170166

SNAPAccuracy
 ../DCU/g14may.007.dat.1j
 s232t0l.dat.digi1J
 Average: 29.819824578554
 Stdev : 0.107127703726
 Max : 30.026100158691
 Min : 29.625000000000

SNAPAccuracy
 ../DCU/g14may.007.dat.2j
 s232t0l.dat.digi2J
 Average: 25.400155370975
 Stdev : 4.670073032379
 Max : 83.440536499023
 Min : 16.611009597778

SNAPAccuracyLite
 ../DCU/g14may.007.dat.2j
 s232t0l.dat.digi2J 80.0
 Average: 25.280730718448
 Stdev : 3.861184597015
 Max : 36.822616577148
 Min : 16.611009597778

SNAPAccuracy
 ../DCU/g14may.007.dat.3j
 s232t0l.dat.digi3J
 Average: 26.462215976951
 Stdev : 3.643215656281
 Max : 46.646896362305
 Min : 16.818960189819

SNAPAccuracy
 ../DCU/g14may.007.dat.1g
 s232t0l.dat.digi1G
 Average: 6.019690650809
 Stdev : 0.269696116447
 Max : 12.000000000000
 Min : 5.940000057220

SNAPAccuracy
 ../DCU/g14may.007.dat.2g
 s232t0l.dat.digi2G
 Average: 15.274071169571
 Stdev : 2.847384214401
 Max : 33.360149383545

Min : 9.771589279175

SNAPAccuracy

../DCU/g14may.007.dat.3g

s232t0l.dat.digi3G

Average: 16.599389081989

Stddev : 3.094891309738

Max : 33.360149383545

Min : 11.426787376404

Min : 11.426787376404

7.2.8 Stats.008

/usr1/figd/DIS2.2/dis4.stats

Frames : 503

Average: 0.00265134

Maximum: 0.008008

2nd Max: 0.001483

Minimum: 0.001482

RateErr: 0

/usr1/figd/DIS2.2/dis3.stats

Frames : 503

Average: 0.00251548

Maximum: 0.010372

2nd Max: 0.007513

Minimum: 0.001483

RateErr: 0

/usr1/figd/DIS2.2/dis_lite3.stats

Frames : 501

Average: 0.00212161

Maximum: 0.012077

2nd Max: 0.01178

Minimum: 0.001383

RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.stats

Frames : 498

Average: 0.0019777

Maximum: 0.011879

2nd Max: 0.008106

Minimum: 0.001383

RateErr: 0

/sg16/usr1/nets/GATEWAY/gateway_lit
e2.stats

Frames : 498

Average: 0.00177383

Maximum: 0.014632

2nd Max: 0.000396

Minimum: 0.000297

/sg16/usr1/nets/GATEWAY/gateway_lit
e1.stats

Frames : 501

Average: 0.00192896

Maximum: 0.01483

2nd Max: 0.000297

Minimum: 0.000297

/sg16/usr1/nets/GATEWA

Y/gateway1.stats

Frames : 503

Average: 0.00185923

Maximum: 0.011468

2nd Max: 0.004548

Minimum: 0.000395

/sg16/usr1/nets/GATEWA

Y/gateway2.stats

Frames : 503

Average: 0.00197614

Maximum: 0.01048

2nd Max: 0.004746

Minimum: 0.000395

/sg16/usr1/nets/DISNET/di

snet7.stats

PDUUs : 17

Count : 16

Average: 1568.68

Maximum: 2531.65

2nd Max: 2525.25

Minimum: -108.589

Frames : 285284

Average: 0.000237028

Maximum: 0.010298

2nd Max: 0.010297

Minimum: 8.8e-05

PDUUs from Net1: 14

PDUUs from Net2: 17

PDU Buffer 1

-- Stats from

CircularBuffer --

NumPass: 14

Average: 0.0422372

Variance: 7.98171e-05

Maximum: 0.058939

2nd Max: 0.053092

Minimum: 0.028671

-- End Stats from

CircularBuffer --

PDU Buffer 2

-- Stats from

CircularBuffer --

NumPass: 17

Average: 0.0402337

Variance: 8.76172e-05

Maximum: 0.059221

2nd Max: 0.0523

Minimum: 0.028375

-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.004995

Maximum: 0.006632

Minimum: 0.003300

Variance: 0.000002

Std Dev : 0.001361

SNAPTimes.pl s212t0d.dat

Sel-J Tss avg.:

0.00097778884468338557

Sel-J Tns avg.:

0.00080275896401422846

Sel-J Tnr avg.:

0.001606472111951775

Sel-J Trs avg.:

0.00040631673334837074

Sel-J NIU avg.:

0.0024462569722907145

Sel-J Nius avg.:

0.00080275896401422846

Sel-J Niur avg.:

0.001606472111951775

Sel-J Tgs avg.:

0.00080988446201394454

Sel-J Tgr avg.:

0.00042934860524895834

DCUAccuracy j14may.008.dat.g

g14may.008.dat.ownship

Average: 1.223102424632

Stddev : 1.014493227005

Max : 5.875279903412

Min : 0.154392361641

DCUAccuracy g14may.008.dat.j

j14may.008.dat.ownship

Average: 1.062788870888

Stddev : 1.052683472633

Max : 5.841858863831

Min : 0.058694120497

SNAPAccuracy

../DCU/j14may.008.dat.1j

s212t0d.dat.digi1J

Average: 0.072682092547

Stddev : 0.018953571096

Max : 0.119199998677

Min : 0.020999999717

SNAPAccuracy

../DCU/j14may.008.dat.2j

s212t0d.dat.digi2J

Average: 0.282442298484

Stddev : 0.033609241247

Max : 0.364999979734

Min : 0.207000002265

SNAPAccuracy
../DCU/j14may.008.dat.3j
s212t0d.dat.digi3J
Average: 0.619234074649
Stddev : 0.032299280167
Max : 0.720000028610
Min : 0.453000009060

SNAPAccuracy
../DCU/j14may.008.dat.1g
s212t0d.dat.digi1G
Average: 0.243162373659
Stddev : 0.106515042484
Max : 0.438999980688
Min : 0.041000001132

SNAPAccuracy
../DCU/j14may.008.dat.2g
s212t0d.dat.digi2G
Average: 0.129160494081
Stddev : 0.089796125889
Max : 0.314999997616
Min : 0.002000000095

SNAPAccuracy
../DCU/j14may.008.dat.3g
s212t0d.dat.digi3G
Average: 0.293203265771
Stddev : 0.198555484414
Max : 0.666319966316
Min : 0.000000000000

SNAPAccuracy
../DCU/g14may.008.dat.1j
s212t0d.dat.digi1J
Average: 0.168210568058
Stddev : 0.104886919260
Max : 0.370999991894
Min : 0.000799999980

SNAPAccuracy
../DCU/g14may.008.dat.2j
s212t0d.dat.digi2J
Average: 0.190395375110
Stddev : 0.109154924750
Max : 0.425099998713
Min : 0.000000000000

SNAPAccuracy
../DCU/g14may.008.dat.3j
s212t0d.dat.digi3J
Average: 0.519078511468
Stddev : 0.104147017002
Max : 0.724999964237
Min : 0.310999989510

SNAPAccuracy
../DCU/g14may.008.dat.1g
s212t0d.dat.digi1G
Average: 0.006823219253
Stddev : 0.013266220689
Max : 0.081000000238
Min : 0.000000000000

SNAPAccuracy
../DCU/g14may.008.dat.2g
s212t0d.dat.digi2G
Average: 0.387702832220
Stddev : 0.020236406475
Max : 0.596000015736
Min : 0.305000007153

SNAPAccuracy
../DCU/g14may.008.dat.3g
s212t0d.dat.digi3G
Average: 0.706416183794
Stddev : 0.020900942385
Max : 0.779999971390
Min : 0.630999982357

7.2.9 Stats.009

/usr1/figd/DIS2.2/dis4.stats
Frames : 503
Average: 0.00278816
Maximum: 0.012274
2nd Max: 0.010281
Minimum: 0.001482
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
Frames : 503
Average: 0.00261718
Maximum: 0.012472
2nd Max: 0.010084
Minimum: 0.001384
RateErr: 0

/sg16/usr1/nets/GATEWA
Y/gateway1.stats
Frames : 502
Average: 0.00299789
Maximum: 0.011878
2nd Max: 0.010876
Minimum: 0.000396

/sg16/usr1/nets/GATEWA
Y/gateway2.stats
Frames : 503
Average: 0.00320859
Maximum: 0.013362
2nd Max: 0.011567

Minimum: 0.000296

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 480
Count : 474
Average: 1571.2
Maximum: 3367
2nd Max: 2538.07
Minimum: -110.975

Frames : 227508
Average: 0.000233577
Maximum: 0.011483
2nd Max: 0.010298
Minimum: 9.5e-05

PDUs from Net1: 477
PDUs from Net2: 480

PDU Buffer 1
-- Stats from CircularBuffer --
NumPass: 477
Average: 0.0454829
Variance: 0.00010301
Maximum: 0.074149
2nd Max: 0.066537
Minimum: 0.016116
-- End Stats from CircularBuffer --

PDU Buffer 2
-- Stats from CircularBuffer --
NumPass: 480
Average: 0.0450628
Variance: 0.000115177
Maximum: 0.073161
2nd Max: 0.070788
Minimum: 0.013743
-- End Stats from CircularBuffer --

SNAPPdus.pl
Average: 0.009903
Maximum: 0.014441
Minimum: 0.005365
Variance: 0.000021
Std Dev : 0.004538

SNAPTtimes.pl
Sel-J Tss avg.:
0.00097879083677908352
Sel-J Tns avg.:
0.00082541832671267912
Sel-J Tnr avg.:
0.0017109302789032222
Sel-J Trs avg.:
0.00047600996017662913
Sel-J NIU avg.:
0.0025697988048668922
Sel-J Nius avg.:
0.00082541832671267912

Sel-J Niur avg.:
0.0017109302789032222
Sel-J Tgs avg.:
0.0013670318723337138
Sel-J Tgr avg.:
0.001023920318779658

DCUAccuracy j14may.009.dat.g
g14may.009.dat.ownship
Average: 1.395473076654
Stdev : 1.783884286880
Max : 13.928812980652
Min : 0.105683490634

DCUAccuracy g14may.009.dat.j
j14may.009.dat.ownship
Average: 1.232403963706
Stdev : 1.621214389801
Max : 13.377936363220
Min : 0.041109610349

SNAPAccuracy
../DCU/j14may.009.dat.1j
s222t0d.dat.digi1J
Average: 0.072916237424
Stdev : 0.019551280886
Max : 0.140000000596
Min : 0.020999999717

SNAPAccuracy
../DCU/j14may.009.dat.2j
s222t0d.dat.digi2J
Average: 0.283897771412
Stdev : 0.245196685195
Max : 5.715690135956
Min : 0.178000003099

SNAPAccuracy
../DCU/j14may.009.dat.3j
s222t0d.dat.digi3J
Average: 8.061633531476
Stdev : 1.943772912025
Max : 15.205730438232
Min : 1.518107414246

SNAPAccuracy
../DCU/j14may.009.dat.1g
s222t0d.dat.digi1G
Average: 0.451418232173
Stdev : 0.209602400661
Max : 0.826000034809
Min : 0.076099999249

SNAPAccuracy
../DCU/j14may.009.dat.2g
s222t0d.dat.digi2G
Average: 0.180680020633
Stdev : 0.625273406506
Max : 5.789400100708

Min : 0.000000000000

SNAPAccuracy
../DCU/j14may.009.dat.3g
s222t0d.dat.digi3G
Average:
25.437285474541
Stdev : 5.834767818451
Max : 40.478618621826
Min : 3.150560617447

SNAPAccuracy
../DCU/g14may.009.dat.1j
s222t0d.dat.digi1J
Average: 0.177483120530
Stdev : 0.106492541730
Max : 0.406000018120
Min : 0.001000000047

SNAPAccuracy
../DCU/g14may.009.dat.2j
s222t0d.dat.digi2J
Average: 0.226705842610
Stdev : 0.505501806736
Max : 5.706069946289
Min : 0.001000000047

SNAPAccuracy
../DCU/g14may.009.dat.3j
s222t0d.dat.digi3J
Average:
25.409515428737
Stdev : 5.961741924286
Max : 38.335857391357
Min : 3.240329742432

SNAPAccuracy
../DCU/g14may.009.dat.1g
s222t0d.dat.digi1G
Average: 0.009720905451
Stdev : 0.013166874647
Max : 0.059300001711
Min : 0.000000000000

SNAPAccuracy
../DCU/g14may.009.dat.2g
s222t0d.dat.digi2G
Average: 0.370962093054
Stdev : 0.236789673567
Max : 5.626890182495
Min : 0.296999990940

SNAPAccuracy
../DCU/g14may.009.dat.3g
s222t0d.dat.digi3G
Average: 8.096496224164
Stdev : 1.885690093040
Max : 14.959916114807
Min : 1.900534868240

7.2.10 Stats.010

/usr1/figd/DIS2.2/dis4.stats
Frames : 503
Average: 0.00278932
Maximum: 0.013263
2nd Max: 0.007514
Minimum: 0.001384
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
Frames : 502
Average: 0.0028512
Maximum: 0.012966
2nd Max: 0.010974
Minimum: 0.00168
RateErr: 0

/sg16/usr1/nets/GATEWAY/gateway1.s
tats
Frames : 503
Average: 0.0042768
Maximum: 0.012951
2nd Max: 0.012753
Minimum: 0.000396

/sg16/usr1/nets/GATEWAY/gateway2.s
tats
Frames : 503
Average: 0.00416497
Maximum: 0.012966
2nd Max: 0.012753
Minimum: 0.000395

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 938
Count : 752
Average: 1636.19
Maximum: 3378.38
2nd Max: 3367
Minimum: -492.55

Frames : 192938
Average: 0.000238672
Maximum: 0.013544
2nd Max: 0.011959
Minimum: 9.5e-05

PDUs from Net1: 935
PDUs from Net2: 938

PDU Buffer 1
-- Stats from CircularBuffer --
NumPass: 935
Average: 0.0456401
Variance: 0.000104474

Maximum: 0.074461
2nd Max: 0.060605
Minimum: 0.018092
-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --
NumPass: 938
Average: 0.0453649
Variance: 0.000101612
Maximum: 0.074842
2nd Max: 0.067722
Minimum: 0.00781
-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.006589
Maximum: 0.006589
Minimum: 0.006589
Variance: 0.000000
Std Dev : 0.000000

SNAPTtimes.pl s232t0d.dat

Sel-J Tss avg.:
0.00098139043845560034
Sel-J Tns avg.:
0.00092424502010356104
Sel-J Tnr avg.:
0.0018004661349304192
Sel-J Trs avg.:
0.00047699601575106092
Sel-J NIU avg.:
0.0027570199202298579
Sel-J Nius avg.:
0.00092424502010356104
Sel-J Niur avg.:
0.0018004661349304192
Sel-J Tgs avg.:
0.0021197031870919402
Sel-J Tgr avg.:
0.0014976215141185789

DCUAccuracy j14may.010.dat.g
g14may.010.dat.ownship
Average: 1.217644288261
Stdev : 1.063542246819
Max : 6.381868839264
Min : 0.145168870687

DCUAccuracy g14may.010.dat.j
j14may.010.dat.ownship
Average: 1.080862755480
Stdev : 1.082036852837
Max : 5.827409744263
Min : 0.014866068959

SNAPAccuracy

../DCU/j14may.010.dat.1j
s232t0d.dat.digi1J

Average: 0.073802173006
Stdev : 0.056544497609
Max : 1.251100063324
Min : 0.020999999717

SNAPAccuracy

../DCU/j14may.010.dat.2j
s232t0d.dat.digi2J
Average: 6.006634987096
Stdev : 2.535047054291
Max : 10.148034095764
Min : 0.941646456718

SNAPAccuracy

../DCU/j14may.010.dat.3j
s232t0d.dat.digi3J
Average: 8.021937725290
Stdev : 1.908692836761
Max : 10.062777519226
Min : 1.890037059784

SNAPAccuracy

../DCU/j14may.010.dat.1g
s232t0d.dat.digi1G
Average: 0.451612212565
Stdev : 0.217451587319
Max : 1.467800021172
Min : 0.075470000505

SNAPAccuracy

../DCU/j14may.010.dat.2g
s232t0d.dat.digi2G
Average:
24.023627553877
Stdev : 5.583283424377
Max : 36.783878326416
Min : 2.844630002975

SNAPAccuracy

../DCU/j14may.010.dat.3g
s232t0d.dat.digi3G
Average:
25.333641645110
Stdev : 5.673122406006
Max : 38.415008544922
Min : 3.327821016312

SNAPAccuracy

../DCU/g14may.010.dat.1j
s232t0d.dat.digi1J
Average: 0.187297413719
Stdev : 0.105944037437
Max : 0.400999993086
Min : 0.001000000047

SNAPAccuracy

../DCU/g14may.010.dat.2j
s232t0d.dat.digi2J

Average: 23.814197719947
Stdev : 5.951589584351
Max : 38.066734313965
Min : 4.055382251740

SNAPAccuracy

../DCU/g14may.010.dat.3j
s232t0d.dat.digi3J
Average: 25.269649358000
Stdev : 6.026831626892
Max : 38.512172698975
Min : 4.457616329193

SNAPAccuracy

../DCU/g14may.010.dat.1g
s232t0d.dat.digi1G
Average: 0.009300945637
Stdev : 0.014098647051
Max : 0.059399999678
Min : 0.000000000000

SNAPAccuracy

../DCU/g14may.010.dat.2g
s232t0d.dat.digi2G
Average: 5.994383384284
Stdev : 2.506736040115
Max : 10.128967285156
Min : 1.145676255226

SNAPAccuracy

../DCU/g14may.010.dat.3g
s232t0d.dat.digi3G
Average: 8.151316416815
Stdev : 1.774473428726
Max : 10.053025245667
Min : 2.127623319626

7.2.11 Stats.011

/usr1/figd/DIS2.2/dis4.stats
Frames : 501
Average: 0.00286403
Maximum: 0.010974
2nd Max: 0.006229
Minimum: 0.001384
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
Frames : 502
Average: 0.00281474
Maximum: 0.008898
2nd Max: 0.006921
Minimum: 0.001285
RateErr: 0

/sg16/usr1/nets/GATEWAY/gateway1.s
tats
Frames : 502
Average: 0.00519423
Maximum: 0.015621
2nd Max: 0.014039
Minimum: 0.000297

/sg16/usr1/nets/GATEWAY/gateway2.s
tats
Frames : 502
Average: 0.00524723
Maximum: 0.021059
2nd Max: 0.01226
Minimum: 0.000297

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 1420
Count : 970
Average: 1706.65
Maximum: 3378.38
2nd Max: 2890.17
Minimum: -1513.62

Frames : 290773
Average: 0.00023725
Maximum: 0.01315
2nd Max: 0.013149
Minimum: 9.5e-05

PDUs from Net1: 1391
PDUs from Net2: 1421

PDU Buffer 1
-- Stats from CircularBuffer --
NumPass: 1391
Average: 0.0457446
Variance: 0.000103989
Maximum: 0.077624
2nd Max: 0.075633
Minimum: 0.018587
-- End Stats from CircularBuffer --

PDU Buffer 2
-- Stats from CircularBuffer --
NumPass: 1421
Average: 0.0456231
Variance: 0.00010267
Maximum: 0.074941
2nd Max: 0.074249
Minimum: 0.017697
-- End Stats from CircularBuffer --

SNAPPdus.pl
Average: 0.012430
Maximum: 0.041464
Minimum: 0.000011
Variance: 0.000090
Std Dev : 0.009506

SNAPTimes.pl s242t0d.dat
Sel-J Tss avg.:
0.00095649800786634437
Sel-J Tns avg.:
0.00091343625504068985
Sel-J Tnr avg.:
0.0017943665337648179
Sel-J Trs avg.:
0.00051584661356985121
Sel-J NIU avg.:
0.0027451892428907595
Sel-J Nius avg.:
0.00091343625504068985
Sel-J Niur avg.:
0.0017943665337648179
Sel-J Tgs avg.:
0.0025776474102897906
Sel-J Tgr avg.:
0.0018886992035271782

DCUAccuracy
j14may.011.dat.g
g14may.011.dat.ownship
Average: 1.048314281743
Stdev : 1.864507794380
Max : 13.205075263977
Min : 0.089274853468

DCUAccuracy
g14may.011.dat.j
j14may.011.dat.ownship
Average: 1.354067083757
Stdev : 1.999558687210
Max : 13.074008941650
Min : 0.025806976482

SNAPAccuracy
../DCU/j14may.011.dat.1j
s242t0d.dat.digi1J
Average: 5.659192656967
Stdev : 2.526897907257
Max : 10.300320625305
Min : 0.561218559742

SNAPAccuracy
../DCU/j14may.011.dat.2j
s242t0d.dat.digi2J
Average: 7.345124613351
Stdev : 2.499398708344
Max : 11.460121154785
Min : 1.074466347694

SNAPAccuracy
../DCU/j14may.011.dat.3j
s242t0d.dat.digi3J
Average: 7.998973978357
Stdev : 1.927990198135
Max : 10.311155319214

Min : 2.059732437134
SNAPAccuracy
../DCU/j14may.011.dat.1g
s242t0d.dat.digi1G
Average: 23.764146980074
Stdev : 5.865478992462
Max : 40.807685852051
Min : 2.223393917084

SNAPAccuracy
../DCU/j14may.011.dat.2g
s242t0d.dat.digi2G
Average: 25.203603818093
Stdev : 6.009205341339
Max : 38.765033721924
Min : 4.213891983032

SNAPAccuracy
../DCU/j14may.011.dat.3g
s242t0d.dat.digi3G
Average: 25.346159371903
Stdev : 6.380559921265
Max : 42.988975524902
Min : 3.879483699799

SNAPAccuracy
../DCU/g14may.011.dat.1j
s242t0d.dat.digi1J
Average: 23.540215914922
Stdev : 6.391716957092
Max : 38.624015808105
Min : 2.741685390472

SNAPAccuracy
../DCU/g14may.011.dat.2j
s242t0d.dat.digi2J
Average: 25.433439399864
Stdev : 6.376446247101
Max : 39.874137878418
Min : 2.480835437775

SNAPAccuracy
../DCU/g14may.011.dat.3j
s242t0d.dat.digi3J
Average: 25.539387026362
Stdev : 6.010088920593
Max : 40.010002136230
Min : 4.017141342163

SNAPAccuracy
../DCU/g14may.011.dat.1g
s242t0d.dat.digi1G
Average: 5.762049220697
Stdev : 2.827032089233
Max : 18.469625473022
Min : 0.500312924385

SNAPAccuracy
../DCU/g14may.011.dat.2g
s242t0d.dat.digi2G
Average: 7.567674700883
Stdev : 2.757918834686
Max : 19.789903640747
Min : 1.288622975349

SNAPAccuracy
../DCU/g14may.011.dat.3g
s242t0d.dat.digi3G
Average: 8.260865872535
Stdev : 2.277982711792
Max : 20.707958221436
Min : 2.297335147858

7.2.12 Stats.012

/usr1/figd/DIS2.2/dis_lite3.stats
Frames : 503
Average: 0.00248352
Maximum: 0.01267
2nd Max: 0.006326
Minimum: 0.001582
RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.stats
Frames : 503
Average: 0.00269112
Maximum: 0.012966
2nd Max: 0.008305
Minimum: 0.001582
RateErr: 0

/sg16/usr1/nets/GATEWAY/gateway_lit
e2.stats
Frames : 503
Average: 0.00292216
Maximum: 0.014335
2nd Max: 0.000297
Minimum: 0.000297

/sg16/usr1/nets/GATEWAY/gateway_lit
e1.stats
Frames : 503
Average: 0.00286979
Maximum: 0.014335
2nd Max: 0.000198
Minimum: 0.000198

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 185
Count : 175
Average: 1515.11
Maximum: 2531.65
2nd Max: 2024.29

Minimum: -110.963
Frames : 317073
Average: 0.000231497
Maximum: 0.010298
2nd Max: 0.010296
Minimum: 9.5e-05

PDUs from Net1: 168
PDUs from Net2: 185

PDU Buffer 1
-- Stats from
CircularBuffer --
NumPass: 168
Average: 0.0456276
Variance: 8.51337e-05
Maximum: 0.069108
2nd Max: 0.067527
Minimum: 0.019971

-- End Stats from
CircularBuffer --

PDU Buffer 2
-- Stats from
CircularBuffer --
NumPass: 185
Average: 0.0458023
Variance: 0.000104608
Maximum: 0.075336
2nd Max: 0.066735
Minimum: 0.008108

-- End Stats from
CircularBuffer --

SNAPPdus.pl
Average: 0.027899
Maximum: 0.058573
Minimum: 0.016798
Variance: 0.000314
Std Dev : 0.017732

SNAPTtimes.pl
s212t0dl.dat
Sel-J Tss avg.:
0.00097640836637479206
Sel-J Tns avg.:
0.001144474103637049
Sel-J Tnr avg.:
0.0012829900397517927
Sel-J Trs avg.:
0.0004068904381711036
Sel-J NIU avg.:
0.0024441772905726589
Sel-J Nius avg.:
0.001144474103637049
Sel-J Niur avg.:
0.0012829900397517927

Sel-J Tgs avg.:
0.0013463565741389232
Sel-J Tgr avg.:
0.0008663824700926193

DCUAccuracy j14may.012.dat.g
g14may.012.dat.ownship
Average: 14.611796545501
Stdev : 22.420665740967
Max : 51.954730987549
Min : 0.100044988096

DCUAccuracyLite j14may.012.dat.g
g14may.012.dat.ownship 50.0
Average: 1.109252696852
Stdev : 1.334836244583
Max : 13.150731086731
Min : 0.100044988096

DCUAccuracy g14may.012.dat.j
j14may.012.dat.ownship
Average: 27.387565067072
Stdev : 26.370115280151
Max : 77.838279724121
Min : 0.032249029726

DCUAccuracyLite g14may.012.dat.j
j14may.012.dat.ownship 37.0
Average: 1.297667281056
Stdev : 1.091309309006
Max : 3.776655673981
Min : 0.032249029726

SNAPAccuracy
../DCU/j14may.012.dat.1j
s212t0dl.dat.digi1J
Average: 0.118388092422
Stdev : 0.651957035065
Max : 12.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j14may.012.dat.2j
s212t0dl.dat.digi2J
Average: 0.330370026185
Stdev : 0.584085226059
Max : 12.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j14may.012.dat.3j
s212t0dl.dat.digi3J
Average: 0.658926955891
Stdev : 0.722035944462
Max : 12.000000000000
Min : 0.541999995708

SNAPAccuracy
../DCU/j14may.012.dat.1g
s212t0dl.dat.digi1G
Average: 29.596229189550
Stddev : 0.216847062111
Max : 30.000000000000
Min : 29.202999114990

SNAPAccuracy
../DCU/j14may.012.dat.2g
s212t0dl.dat.digi2G
Average: 26.575660006720
Stddev : 2.828056335449
Max : 29.632999420166
Min : 23.589000701904

SNAPAccuracy
../DCU/j14may.012.dat.3g
s212t0dl.dat.digi3G
Average: 29.596229189550
Stddev : 0.216847062111
Max : 30.000000000000
Min : 29.202999114990

SNAPAccuracy
../DCU/g14may.012.dat.1j
s212t0dl.dat.digi1J
Average: 26.865748090144
Stddev : 3.005902290344
Max : 30.018899917603
Min : 21.968999862671

SNAPAccuracy
../DCU/g14may.012.dat.2j
s212t0dl.dat.digi2J
Average: 23.899189297840
Stddev : 6.080121040344
Max : 42.000000000000
Min : 15.977999687195

SNAPAccuracy
../DCU/g14may.012.dat.3j
s212t0dl.dat.digi3J
Average: 29.652512776682
Stddev : 0.439069390297
Max : 35.479000091553
Min : 27.623001098633

SNAPAccuracy
../DCU/g14may.012.dat.1g
s212t0dl.dat.digi1G
Average: 0.065155241013
Stddev : 0.545899391174
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/g14may.012.dat.2g
s212t0dl.dat.digi2G

Average: 0.508743562029
Stddev : 0.690413177013
Max : 12.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/g14may.012.dat.3g
s212t0dl.dat.digi3G
Average: 0.868925575040
Stddev : 0.836238920689
Max : 12.000000000000
Min : 0.720000028610

7.2.13 Stats.013

/usr1/figd/DIS2.2/dis_lite3.
stats
Frames : 503
Average: 0.0027822
Maximum: 0.010183
2nd Max: 0.001384
Minimum: 0.001384
RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.
stats
Frames : 503
Average: 0.00286812
Maximum: 0.009986
2nd Max: 0.001483
Minimum: 0.001483
RateErr: 0

/sg16/usr1/nets/GATEWA
Y/gateway_lite2.stats
Frames : 503
Average: 0.00476766
Maximum: 0.019378
2nd Max: 0.000395
Minimum: 0.000395

/sg16/usr1/nets/GATEWA
Y/gateway_lite1.stats
Frames : 503
Average: 0.0046131
Maximum: 0.019081
2nd Max: 0.000494
Minimum: 0.000297

/sg16/usr1/nets/DISNET/di
snet7.stats
PDUs : 667
Count : 636
Average: 1390.35
Maximum: 3367
2nd Max: 3367

Minimum: -111111

Frames : 207197
Average: 0.000234338
Maximum: 0.011285
2nd Max: 0.010298
Minimum: 8.7e-05

PDUs from Net1: 638
PDUs from Net2: 667

PDU Buffer 1
-- Stats from CircularBuffer --
NumPass: 638
Average: 0.0454107
Variance: 0.000104224
Maximum: 0.072863
2nd Max: 0.069998
Minimum: 0.013644
-- End Stats from CircularBuffer --

PDU Buffer 2
-- Stats from CircularBuffer --
NumPass: 667
Average: 0.0454956
Variance: 9.87154e-05
Maximum: 0.073063
2nd Max: 0.070591
Minimum: 0.009195
-- End Stats from CircularBuffer --

SNAPPdus.pl
Average: 0.015642
Maximum: 0.036999
Minimum: 0.000030
Variance: 0.000139
Std Dev : 0.011784

SNAPTtimes.pl
Sel-J Tss avg.:
0.000977426295194671
Sel-J Tns avg.:
0.0013096832670097468
Sel-J Tnr avg.:
0.0013786035856156447
Sel-J Trs avg.:
0.00054791633451224838
Sel-J NIU avg.:
0.0027267231073265755
Sel-J Tgs avg.:
0.00016819521916039526
Sel-J Tgr avg.:
0.00094764143394573453

DCUAccuracy j14may.013.dat.g
g14may.013.dat.ownship
Average: 32.743254758538
Stddev : 31.810739517212
Max : 64.955299377441

Min : 0.107074737549

DCUAccuracyLite j14may.013.dat.g
g14may.013.dat.ownship 37.0

Average: 0.962042172368

Stddev : 1.921513438225

Max : 13.431906700134

Min : 0.107074737549

DCUAccuracy g14may.013.dat.j
j14may.013.dat.ownship

Average: 32.374255000263

Stddev : 31.898853302002

Max : 64.937286376953

Min : 0.053310412914

DCUAccuracyLite g14may.013.dat.j
j14may.013.dat.ownship 37.0

Average: 0.761539308751

Stddev : 1.903268694878

Max : 13.064599990845

Min : 0.053310412914

SNAPAccuracy

../DCU/j14may.013.dat.1j

s222t0dl.dat.digi1J

Average: 0.081924558101

Stddev : 0.266580671072

Max : 6.000000000000

Min : 0.000000000000

SNAPAccuracy

../DCU/j14may.013.dat.2j

s222t0dl.dat.digi2J

Average: 0.378462895691

Stddev : 0.629407286644

Max : 12.000000000000

Min : 0.000000000000

SNAPAccuracy

../DCU/j14may.013.dat.3j

s222t0dl.dat.digi3J

Average: 6.976177672066

Stddev : 2.749457359314

Max : 33.360149383545

Min : 1.952657938004

SNAPAccuracy

../DCU/j14may.013.dat.1g

s222t0dl.dat.digi1G

Average: 15.728004411813

Stddev : 10.645091056824

Max : 30.031200408936

Min : 0.108800001442

SNAPAccuracy

../DCU/j14may.013.dat.2g

s222t0dl.dat.digi2G

Average: 18.776156489032

Stddev : 11.568562507629

Max : 30.031200408936

Min : 0.123999997973

SNAPAccuracy

../DCU/j14may.013.dat.3g

s222t0dl.dat.digi3G

Average:

23.637010798562

Stddev : 5.588778495789

Max : 42.876018524170

Min : 4.383477210999

SNAPAccuracy

../DCU/g14may.013.dat.1j

s222t0dl.dat.digi1J

Average:

14.403209305792

Stddev : 9.049633026123

Max : 30.000000000000

Min : 0.024800000712

SNAPAccuracy

../DCU/g14may.013.dat.2j

s222t0dl.dat.digi2J

Average:

18.742272310381

Stddev : 11.557089805603

Max : 30.026100158691

Min : 0.186999991536

SNAPAccuracy

../DCU/g14may.013.dat.3j

s222t0dl.dat.digi3J

Average:

22.987435926402

Stddev : 5.731228828430

Max : 55.874702453613

Min : 4.462239265442

SNAPAccuracy

../DCU/g14may.013.dat.1g

s222t0dl.dat.digi1G

Average: 0.045628252936

Stddev : 0.599764108658

Max : 12.000000000000

Min : 0.000000000000

SNAPAccuracy

../DCU/g14may.013.dat.2g

s222t0dl.dat.digi2G

Average: 0.457874654766

Stddev : 0.629286468029

Max : 12.000000000000

Min : 0.000000000000

SNAPAccuracy

../DCU/g14may.013.dat.3g

s222t0dl.dat.digi3G

Average: 8.163564747596

Stddev : 2.219929695129

Max : 33.360149383545

Min : 2.221807718277

7.2.14 Stats.014

/usr1/figd/DIS2.2/dis_lite3.stats

Frames : 503

Average: 0.0027822

Maximum: 0.010183

2nd Max: 0.001384

Minimum: 0.001384

RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.stats

Frames : 503

Average: 0.00286812

Maximum: 0.009986

2nd Max: 0.001483

Minimum: 0.001483

RateErr: 0

/sg16/usr1/nets/GATEWAY/gateway_lit
e2.stats

Frames : 503

Average: 0.00476766

Maximum: 0.019378

2nd Max: 0.000395

Minimum: 0.000395

/sg16/usr1/nets/GATEWAY/gateway_lit
e1.stats

Frames : 503

Average: 0.0046131

Maximum: 0.019081

2nd Max: 0.000494

Minimum: 0.000297

/sg16/usr1/nets/DISNET/disnet7.stats

PDUs : 667

Count : 636

Average: 1390.35

Maximum: 3367

2nd Max: 3367

Minimum: -111111

Frames : 207197

Average: 0.000234338

Maximum: 0.011285

2nd Max: 0.010298

Minimum: 8.7e-05

PDUs from Net1: 638

PDUs from Net2: 667

PDU Buffer 1	Min : 0.107074737549	Max : 30.031200408936
-- Stats from CircularBuffer --		Min : 0.123999997973
NumPass: 638	DCUAccuracy	SNAPAccuracy
Average: 0.0454107	g14may.013.dat.j	../DCU/j14may.013.dat.3g
Variance: 0.000104224	j14may.013.dat.ownship	s222t0dl.dat.digi3G
Maximum: 0.072863	Average:	Average: 23.637010798562
2nd Max: 0.069998	32.374255000263	Stdev : 5.588778495789
Minimum: 0.013644	Stdev : 31.898853302002	Max : 42.876018524170
-- End Stats from CircularBuffer --	Max : 64.937286376953	Min : 4.383477210999
	Min : 0.053310412914	
PDU Buffer 2		
-- Stats from CircularBuffer --	DCUAccuracyLite	SNAPAccuracy
NumPass: 667	g14may.013.dat.j	../DCU/g14may.013.dat.1j
Average: 0.0454956	j14may.013.dat.ownship	s222t0dl.dat.digi1J
Variance: 9.87154e-05	37.0	Average: 14.403209305792
Maximum: 0.073063	Average: 0.761539308751	Stdev : 9.049633026123
2nd Max: 0.070591	Stdev : 1.903268694878	Max : 30.000000000000
Minimum: 0.009195	Max : 13.064599990845	Min : 0.024800000712
-- End Stats from CircularBuffer --	Min : 0.053310412914	
		SNAPAccuracy
SNAPPdus.pl	SNAPAccuracy	../DCU/g14may.013.dat.2j
Average: 0.015642	../DCU/j14may.013.dat.1j	s222t0dl.dat.digi2J
Maximum: 0.036999	s222t0dl.dat.digi1J	Average: 18.742272310381
Minimum: 0.000030	Average: 0.081924558101	Stdev : 11.557089805603
Variance: 0.000139	Stdev : 0.266580671072	Max : 30.026100158691
Std Dev : 0.011784	Max : 6.000000000000	Min : 0.186999991536
	Min : 0.000000000000	
SNAPTtimes.pl		SNAPAccuracy
Sel-J Tss avg.:	SNAPAccuracy	../DCU/g14may.013.dat.3j
0.000977426295194671	../DCU/j14may.013.dat.2j	s222t0dl.dat.digi3J
Sel-J Tns avg.:	s222t0dl.dat.digi2J	Average: 22.987435926402
0.0013096832670097468	Average: 0.378462895691	Stdev : 5.731228828430
Sel-J Tnr avg.:	Stdev : 0.629407286644	Max : 55.874702453613
0.0013786035856156447	Max : 12.000000000000	Min : 4.462239265442
Sel-J Trs avg.:	Min : 0.000000000000	
0.00054791633451224838		SNAPAccuracy
Sel-J NIU avg.:	SNAPAccuracy	../DCU/g14may.013.dat.1g
0.0027267231073265755	../DCU/j14may.013.dat.3j	s222t0dl.dat.digi1G
Sel-J Nius avg.:	s222t0dl.dat.digi3J	Average: 0.045628252936
0.0013096832670097468	Average: 6.976177672066	Stdev : 0.599764108658
Sel-J Niur avg.:	Stdev : 2.749457359314	Max : 12.000000000000
0.0013786035856156447	Max : 33.360149383545	Min : 0.000000000000
Sel-J Tgs avg.:	Min : 1.952657938004	
0.002280836653439059		SNAPAccuracy
Sel-J Tgr avg.:	SNAPAccuracy	../DCU/g14may.013.dat.2g
0.0015247231071935021	../DCU/j14may.013.dat.1g	s222t0dl.dat.digi2G
	s222t0dl.dat.digi1G	Average: 0.457874654766
DCUAccuracy j14may.013.dat.g	Average:	Stdev : 0.629286468029
g14may.013.dat.ownship	15.728004411813	Max : 12.000000000000
Average: 32.743254758538	Stdev : 10.645091056824	Min : 0.000000000000
Stdev : 31.810739517212	Max : 30.031200408936	
Max : 64.955299377441	Min : 0.108800001442	SNAPAccuracy
Min : 0.107074737549		../DCU/g14may.013.dat.3g
	SNAPAccuracy	s222t0dl.dat.digi3G
DCUAccuracyLite j14may.013.dat.g	../DCU/j14may.013.dat.2g	Average: 8.163564747596
g14may.013.dat.ownship 37.0	s222t0dl.dat.digi2G	Stdev : 2.219929695129
Average: 0.962042172368	Average:	Max : 33.360149383545
Stdev : 1.921513438225	18.776156489032	Min : 2.221807718277
Max : 13.431906700134	Stdev : 11.568562507629	

7.2.15 Stats.015

/usr1/figd/DIS2.2/dis_lite3.stats

Frames : 503

Average: 0.00280813

Maximum: 0.008304

2nd Max: 0.003956

Minimum: 0.001582

RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.stats

Frames : 503

Average: 0.00299948

Maximum: 0.012571

2nd Max: 0.008403

Minimum: 0.001483

RateErr: 0

/sg16/usr1/nets/GATEWAY/gateway_lit
e2.stats

Frames : 502

Average: 0.00732812

Maximum: 0.022556

2nd Max: 0.016906

Minimum: 0.000296

/sg16/usr1/nets/GATEWAY/gateway_lit
e1.stats

Frames : 503

Average: 0.00702322

Maximum: 0.01651

2nd Max: 0.015324

Minimum: 0.000395

/sg16/usr1/nets/DISNET/disnet7.stats

PDUs : 1582

Count : 1229

Average: 1577.13

Maximum: 3378.38

2nd Max: 2531.65

Minimum: -4830.92

Frames : 231129

Average: 0.00024515

Maximum: 0.010594

2nd Max: 0.010298

Minimum: 9.5e-05

PDUs from Net1: 1551

PDUs from Net2: 1582

PDU Buffer 1

-- Stats from CircularBuffer --

NumPass: 1551

Average: 0.0453097

Variance: 9.68542e-05

Maximum: 0.073655

2nd Max: 0.070591

Minimum: 0.000296

-- End Stats from

CircularBuffer --

PDU Buffer 2

-- Stats from

CircularBuffer --

NumPass: 1582

Average: 0.045422

Variance: 0.000101087

Maximum: 0.078401

2nd Max: 0.077809

Minimum: 0.017303

-- End Stats from

CircularBuffer --

SNAPPdus.pl

Average: 0.063886

Maximum: 1.826070

Minimum: 0.000001

Variance: 0.012977

Std Dev : 0.113915

SNAPTtimes.pl

s242t0dl.dat

Sel-J Tss avg.:

0.00098196812725646334

Sel-J Tns avg.:

0.0011558207172266879

Sel-J Tnr avg.:

0.001557233067952

Sel-J Trs avg.:

0.0003969541834507312

Sel-J NIU avg.:

0.0027475219123509332

Sel-J Nius avg.:

0.0011558207172266879

Sel-J Niur avg.:

0.001557233067952

Sel-J Tgs avg.:

0.0036214422313978829

Sel-J Tgr avg.:

0.0026479083663504292

DCUAccuracy

j14may.015.dat.g

g14may.015.dat.ownship

Average:

32.815771649874

Stdev : 31.604993820190

Max : 64.977813720703

Min : 0.100841462612

DCUAccuracyLite

j14may.015.dat.g

g14may.015.dat.ownship

Average: 1.348052345276

Stdev : 1.062993884087

Max : 3.662668943405

Min : 0.100841462612

DCUAccuracy g14may.015.dat.j

j14may.015.dat.ownship

Average: 26.356230735537

Stdev : 25.602380752563

Max : 64.868812561035

Min : 0.056435804814

DCUAccuracyLite g14may.015.dat.j

j14may.015.dat.ownship 38.0

Average: 1.281786997955

Stdev : 1.096155166626

Max : 3.776759147644

Min : 0.056435804814

SNAPAccuracy

../DCU/j14may.015.dat.1j

s242t0dl.dat.digi1J

Average: 4.932062401498

Stdev : 2.447875976562

Max : 33.360149383545

Min : 0.633206844330

SNAPAccuracy

../DCU/j14may.015.dat.2j

s242t0dl.dat.digi2J

Average: 7.150407730214

Stdev : 2.697808265686

Max : 33.360149383545

Min : 1.349184155464

SNAPAccuracy

../DCU/j14may.015.dat.3j

s242t0dl.dat.digi3J

Average: 8.324657902152

Stdev : 2.014668703079

Max : 33.360149383545

Min : 2.448955059052

SNAPAccuracy

../DCU/j14may.015.dat.1g

s242t0dl.dat.digi1G

Average: 22.710296503445

Stdev : 7.985925674438

Max : 80.026969909668

Min : 3.204645395279

SNAPAccuracyLite

../DCU/j14may.015.dat.1g

s242t0dl.dat.digi1G 50.0

Average: 21.956367582941

Stdev : 5.423428535461

Max : 34.317218780518

Min : 3.204645395279

SNAPAccuracy
../DCU/j14may.015.dat.2g
s242t0dl.dat.digi2G
Average: 23.440008351473
Stdev : 8.722679138184
Max : 83.683723449707
Min : 4.081444740295

SNAPAccuracyLite
../DCU/j14may.015.dat.2g
s242t0dl.dat.digi2G 50.0
Average: 22.697427508272
Stdev : 5.639806270599
Max : 37.955646514893
Min : 4.081444740295

SNAPAccuracy
../DCU/j14may.015.dat.3g
s242t0dl.dat.digi3G
Average: 23.847204794507
Stdev : 7.813976764679
Max : 67.053703308105
Min : 4.978455066681

SNAPAccuracyLite
../DCU/j14may.015.dat.3g
s242t0dl.dat.digi3G 50.0
Average: 23.095120274331
Stdev : 5.545478820801
Max : 39.101238250732
Min : 4.978455066681

SNAPAccuracy
../DCU/g14may.015.dat.1j
s242t0dl.dat.digi1J
Average: 22.730337130371
Stdev : 7.608106613159
Max : 68.669021606445
Min : 3.231025695801

SNAPAccuracyLite
../DCU/g14may.015.dat.1j
s242t0dl.dat.digi1J 50.0
Average: 22.090588242919
Stdev : 5.466846942902
Max : 34.155849456787
Min : 3.231025695801

SNAPAccuracy
../DCU/g14may.015.dat.2j
s242t0dl.dat.digi2J
Average: 23.362158901068
Stdev : 7.980180740356
Max : 80.026969909668
Min : 4.169361114502

SNAPAccuracyLite
../DCU/g14may.015.dat.2j
s242t0dl.dat.digi2J 50.0

Average:
22.616722161991
Stdev : 5.493623256683
Max : 36.136238098145
Min : 4.169361114502

SNAPAccuracy
../DCU/g14may.015.dat.3j
s242t0dl.dat.digi3J
Average:
23.269096656681
Stdev : 6.146852493286
Max : 68.669334411621
Min : 5.558022499084

SNAPAccuracyLite
../DCU/g14may.015.dat.3j
s242t0dl.dat.digi3J 50.0
Average:
23.083223108920
Stdev : 5.437006950378
Max : 37.695899963379
Min : 5.558022499084

SNAPAccuracy
../DCU/g14may.015.dat.1g
s242t0dl.dat.digi1G
Average: 4.703103716704
Stdev : 2.248970746994
Max : 33.360149383545
Min : 0.736549377441

SNAPAccuracy
../DCU/g14may.015.dat.2g
s242t0dl.dat.digi2G
Average: 6.899521992720
Stdev : 2.704041957855
Max : 33.360149383545
Min : 1.500370979309

SNAPAccuracy
../DCU/g14may.015.dat.3g
s242t0dl.dat.digi3G
Average: 8.359303667752
Stdev : 1.967190742493
Max : 33.360149383545
Min : 2.643815755844

7.2.16 Stats.016

/sg16/usr1/nets/GATEWA
Y/gateway1.stats
Frames : 490
Average: 0.00131273
Maximum: 0.005734
2nd Max: 0.004845

Minimum: 0.001087
/sg16/usr1/nets/GATEWAY/gateway2.s
tats
Frames : 489
Average: 0.00131514
Maximum: 0.011088
2nd Max: 0.011088
Minimum: 0.000989
/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 18
Count : 13
Average: 1956.45
Maximum: 2531.65
2nd Max: 2531.65
Minimum: 1443

Frames : 198059
Average: 0.000205954
Maximum: 0.010297
2nd Max: 0.010198
Minimum: 9.4e-05

PDUs from Net1: 18
PDUs from Net2: 18

PDU Buffer 1
-- Stats from CircularBuffer --
NumPass: 18
Average: 0.0472694
Variance: 8.59945e-05
Maximum: 0.066537
2nd Max: 0.04538
Minimum: 0.031638
-- End Stats from CircularBuffer --

PDU Buffer 2
-- Stats from CircularBuffer --
NumPass: 18
Average: 0.0479555
Variance: 0.00012729
Maximum: 0.060506
2nd Max: 0.059913
Minimum: 0.023728
-- End Stats from CircularBuffer --

SNAPPdus.pl
Average: 0.051503
Maximum: 0.068727
Minimum: 0.027088
Variance: 0.000097
Std Dev : 0.009846

SNAPTtimes.pl s213t3.dat
Sel-J Tss avg.:
0.00097739641431513142
Sel-J Tns avg.:
0.00088822710187154896

Sel-J Tnr avg.:
0.002960091633481007
Sel-J Trs avg.:
0.00054200996022831015
Sel-J NIU avg.:
0.0038483187353525561
Sel-J Nius avg.:
0.00088822710187154896
Sel-J Niur avg.:
0.002960091633481007
Sel-J Tgs avg.:
0.00033878884437671153
Sel-J Tgr avg.:
0.00046004382495149653

DCUAccuracy j14may.016.dat.g
g14may.016.dat.ownship
Average: 12.532610196011
Stdev : 1.180660843849
Max : 16.497161865234
Min : 0.571182966232

DCUAccuracy g14may.016.dat.j
j14may.016.dat.ownship
Average: 12.880272589053
Stdev : 1.089531302452
Max : 16.773874282837
Min : 0.373471528292

SNAPAccuracy
../DCU/j14may.016.dat.1j
s213t3.dat.digi1J
Average: 0.012320328542
Stdev : 0.271606653929
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j14may.016.dat.2j
s213t3.dat.digi2J
Average: 4.238193018480
Stdev : 2.732558965683
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j14may.016.dat.3j
s213t3.dat.digi3J
Average: 6.000000000000
Stdev : 0.000000000000
Max : 6.000000000000
Min : 6.000000000000

SNAPAccuracy
../DCU/j14may.016.dat.1g
s213t3.dat.digi1G
Average: 40.275735946854
Stdev : 33.274059295654
Max : 72.461997985840

Min : 0.082999996841
SNAPAccuracy
../DCU/j14may.016.dat.2g
s213t3.dat.digi2G
Average:
40.208262442496
Stdev : 33.272731781006
Max : 72.461997985840
Min : 0.082999996841

SNAPAccuracy
../DCU/j14may.016.dat.3g
s213t3.dat.digi3G
Average:
40.208262442496
Stdev : 33.272731781006
Max : 72.461997985840
Min : 0.082999996841

SNAPAccuracy
../DCU/g14may.016.dat.1j
s213t3.dat.digi1J
Average: 6.738220928819
Stdev : 0.986331224442
Max : 7.763400077820
Min : 0.065999999642

SNAPAccuracy
../DCU/g14may.016.dat.2j
s213t3.dat.digi2J
Average:
40.420345428028
Stdev : 33.119426727295
Max : 72.335998535156
Min : 0.065999999642

SNAPAccuracy
../DCU/g14may.016.dat.3j
s213t3.dat.digi3J
Average:
40.407937560053
Stdev : 33.133419036865
Max : 72.335998535156
Min : 0.063000001013

SNAPAccuracy
../DCU/g14may.016.dat.1g
s213t3.dat.digi1G
Average: 3.203285420945
Stdev : 2.993104696274
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/g14may.016.dat.2g
s213t3.dat.digi2G
Average: 6.000000000000
Stdev : 0.000000000000

Max : 6.000000000000
Min : 6.000000000000

SNAPAccuracy
../DCU/g14may.016.dat.3g
s213t3.dat.digi3G
Average: 6.000000000000
Stdev : 0.000000000000
Max : 6.000000000000
Min : 6.000000000000

7.2.17 Stats.017

/sg16/usr1/nets/GATEWAY/gateway1.s
tats
Frames : 481
Average: 0.00213948
Maximum: 0.008306
2nd Max: 0.003757
Minimum: 0.001088

/sg16/usr1/nets/GATEWAY/gateway2.s
tats
Frames : 481
Average: 0.00196026
Maximum: 0.008206
2nd Max: 0.003164
Minimum: 0.00089

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 454
Count : 444
Average: 1738.9
Maximum: 3378.38
2nd Max: 2531.65
Minimum: -4830.92

Frames : 178841
Average: 0.000207803
Maximum: 0.010594
2nd Max: 0.010198
Minimum: 8.8e-05

PDUs from Net1: 456
PDUs from Net2: 455

PDU Buffer 1
— Stats from CircularBuffer —
NumPass: 456
Average: 0.0456021
Variance: 0.000104045
Maximum: 0.074348
2nd Max: 0.074249
Minimum: 0.019477

-- End Stats from CircularBuffer --

Min : 0.000000000000

PDU Buffer 2

SNAPAccuracy

-- Stats from CircularBuffer --

../DCU/j14may.017.dat.2j

NumPass: 455

s223t3.dat.digi2J

Average: 0.0452435

Average: 5.485355648536

Variance: 0.000118497

Stdev : 1.680180788040

Maximum: 0.076621

Max : 6.000000000000

2nd Max: 0.073161

Min : 0.000000000000

Minimum: 0.015423

-- End Stats from CircularBuffer --

SNAPAccuracy

../DCU/j14may.017.dat.3j

s223t3.dat.digi3J

Average:

13.563161452111

Stdev : 2.588978290558

Max : 16.838010787964

Min : 9.338472366333

SNAPPdus.pl

Average: 0.047894

Maximum: 0.079044

Minimum: 0.018004

Variance: 0.000112

Std Dev : 0.010561

SNAPAccuracy

../DCU/g14may.017.dat.3j

s223t3.dat.digi3J

Average: 20.430639319390

Stdev : 2.707842826843

Max : 31.891571044922

Min : 13.694419860840

SNAPAccuracy

../DCU/g14may.017.dat.1g

s223t3.dat.digi1G

Average: 4.882845188285

Stdev : 2.335571527481

Max : 6.000000000000

Min : 0.000000000000

SNAPTtimes.pl s223t3.dat |

SNAPCodeTimes.pl

Sel-J Tss avg.: 0.00098098406335223

Sel-J Tns avg.:

0.00088822710187154896

Sel-J Tnr avg.:

0.002960091633481007

Sel-J Trs avg.:

0.00038799601597168788

Sel-J NIU avg.:

0.0038483187353525561

Sel-J Nius avg.:

0.00088822710187154896

Sel-J Niur avg.:

0.002960091633481007

Sel-J Tgs avg.:

0.00074876095618764166

Sel-J Tgr avg.:

0.00073954980082154107

SNAPAccuracy

../DCU/j14may.017.dat.1g

s223t3.dat.digi1G

Average: 7.081524823788

Stdev : 1.259095668793

Max : 8.466890335083

Min : 5.297699928284

SNAPAccuracy

../DCU/j14may.017.dat.2g

s223t3.dat.digi2G

Average: 7.083168869543

Stdev : 1.258590817451

Max : 8.466890335083

Min : 5.297699928284

SNAPAccuracy

../DCU/g14may.017.dat.2g

s223t3.dat.digi2G

Average: 6.000000000000

Stdev : 0.000000000000

Max : 6.000000000000

Min : 6.000000000000

SNAPAccuracy

../DCU/g14may.017.dat.3g

s223t3.dat.digi3G

Average: 13.563159864654

Stdev : 2.588980197906

Max : 16.838010787964

Min : 9.338425636292

DCUAccuracy j14may.017.dat.g

g14may.017.dat.ownship

Average: 13.707808048916

Stdev : 3.102029800415

Max : 27.207519531250

Min : 6.206263065338

SNAPAccuracy

../DCU/j14may.017.dat.3g

s223t3.dat.digi3G

Average:

19.995239415078

Stdev : 2.754493474960

Max : 28.686658859253

Min : 12.926452636719

SNAPAccuracy

../DCU/g14may.017.dat.1j

s223t3.dat.digi1J

Average: 7.284393238971

Stdev : 1.316969394684

Max : 8.747519493103

Min : 5.494299888611

DCUAccuracy g14may.017.dat.j

j14may.017.dat.ownship

Average: 14.202172299520

Stdev : 3.255482196808

Max : 28.333656311035

Min : 6.640846252441

SNAPAccuracy

../DCU/j14may.017.dat.1j

s223t3.dat.digi1J

Average: 0.012552301255

Stdev : 0.274146407843

Max : 6.000000000000

SNAPAccuracy

../DCU/g14may.017.dat.2j

s223t3.dat.digi2J

Average: 7.284393238971

Stdev : 1.316969394684

Max : 8.747519493103

Min : 5.494299888611

7.2.18 Stats.018

/sg16/usr1/nets/GATEWAY/gateway1.s
tats

Frames : 493

Average: 0.00297141

Maximum: 0.015325

2nd Max: 0.004449

Minimum: 0.001186

/sg16/usr1/nets/GATEWAY/gateway2.s
tats

Frames : 494

Average: 0.00272158

Maximum: 0.015225

2nd Max: 0.003659

Minimum: 0.001185

/sg16/usr1/nets/DISNET/disnet7.stats

PDU's : 917

Count : 782

Average: 1854

Maximum: 3378.38

2nd Max: 3355.7
Minimum: -4830.92

Frames : 157925
Average: 0.000214245
Maximum: 0.011187
2nd Max: 0.011088
Minimum: 8.8e-05

PDUs from Net1: 915
PDUs from Net2: 917

PDU Buffer 1

-- Stats from CircularBuffer --

NumPass: 915
Average: 0.0455657
Variance: 0.000110006
Maximum: 0.073853
2nd Max: 0.06932
Minimum: 0.012457

-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --

NumPass: 917
Average: 0.0450602
Variance: 9.92749e-05
Maximum: 0.081664
2nd Max: 0.078007
Minimum: 0.017896

-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.048182
Maximum: 0.085235
Minimum: 0.015231
Variance: 0.000107
Std Dev : 0.010325

SNAPTimes.pl s233t3.dat

Sel-J Tss avg.:
0.00097844422323187718
Sel-J Tns avg.:
0.00088822710187154896
Sel-J Tnr avg.:
0.002960091633481007
Sel-J Trs avg.:
0.00054357569688254876
Sel-J NIU avg.:
0.0038483187353525561
Sel-J Nius avg.:
0.00088822710187154896
Sel-J Niur avg.:
0.002960091633481007
Sel-J Tgs avg.:
0.0011922808762501083
Sel-J Tgr avg.:
0.001175802788761884

DCUAccuracy
j14may.018.dat.g
g14may.018.dat.ownship
Average:
12.596610725293
Stdev : 0.422053277493
Max : 15.603322982788
Min : 12.068299293518

DCUAccuracy
g14may.018.dat.j
j14may.018.dat.ownship
Average:
12.978587500582
Stdev : 0.420221060514
Max : 16.211809158325
Min : 12.337481498718

SNAPAccuracy
../DCU/j14may.018.dat.1j
s233t3.dat.digi1J
Average: 0.012219959267
Stdev : 0.270500332117
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j14may.018.dat.2j
s233t3.dat.digi2J
Average:
13.449836734850
Stdev : 2.644958257675
Max : 16.838010787964
Min : 9.241168975830

SNAPAccuracy
../DCU/j14may.018.dat.3j
s233t3.dat.digi3J
Average:
13.449869638560
Stdev : 2.644989252090
Max : 16.838010787964
Min : 9.241168975830

SNAPAccuracy
../DCU/j14may.018.dat.1g
s233t3.dat.digi1G
Average: 6.966598762379
Stdev : 1.202947139740
Max : 8.335450172424
Min : 5.530000209808

SNAPAccuracy
../DCU/j14may.018.dat.2g
s233t3.dat.digi2G
Average:
19.631048224056
Stdev : 2.822427511215
Max : 29.728492736816

Min : 13.351221084595

SNAPAccuracy
../DCU/j14may.018.dat.3g
s233t3.dat.digi3G
Average: 19.972658480462
Stdev : 2.943347454071
Max : 33.133510589600
Min : 13.185977935791

SNAPAccuracy
../DCU/g14may.018.dat.1j
s233t3.dat.digi1J
Average: 7.205493405125
Stdev : 1.278209447861
Max : 8.651630401611
Min : 5.481999874115

SNAPAccuracy
../DCU/g14may.018.dat.2j
s233t3.dat.digi2J
Average: 20.193198591409
Stdev : 2.729329347610
Max : 29.771516799927
Min : 13.314785003662

SNAPAccuracy
../DCU/g14may.018.dat.3j
s233t3.dat.digi3J
Average: 20.303775244644
Stdev : 2.685832977295
Max : 29.619695663452
Min : 13.314785003662

SNAPAccuracy
../DCU/g14may.018.dat.1g
s233t3.dat.digi1G
Average: 5.816700610998
Stdev : 1.032568454742
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/g14may.018.dat.2g
s233t3.dat.digi2G
Average: 13.449867478196
Stdev : 2.644990921021
Max : 16.838010787964
Min : 9.241168975830

SNAPAccuracy
../DCU/g14may.018.dat.3g
s233t3.dat.digi3G
Average: 13.449867820740
Stdev : 2.644991397858
Max : 16.838010787964
Min : 9.241168975830

7.2.19 Stats.019

/sg16/usr1/nets/GATEWAY/gateway1.s
tats

Frames : 501
Average: 0.00377925
Maximum: 0.012768
2nd Max: 0.010085
Minimum: 0.001087

/sg16/usr1/nets/GATEWAY/gateway2.s
tats

Frames : 501
Average: 0.00355212
Maximum: 0.012867
2nd Max: 0.009591
Minimum: 0.001087

/sg16/usr1/nets/DISNET/disnet7.stats

PDUs : 1392
Count : 1048
Average: 1915.89
Maximum: 3836.32
2nd Max: 3378.38
Minimum: -492.55

Frames : 156139
Average: 0.000228415
Maximum: 0.011088
2nd Max: 0.010198
Minimum: 1.9e-05

PDUs from Net1: 1388
PDUs from Net2: 1394

PDU Buffer 1

-- Stats from CircularBuffer --
NumPass: 1388
Average: 0.0457498
Variance: 0.000104746
Maximum: 0.078204
2nd Max: 0.074446
Minimum: 0.009096
-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --
NumPass: 1394
Average: 0.0452585
Variance: 0.000105107
Maximum: 0.076425
2nd Max: 0.075733
Minimum: 0.01206
-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.049065
Maximum: 0.081661
Minimum: 0.001952
Variance: 0.000117
Std Dev : 0.010824

SNAPTimes.pl
Sel-J Tss avg.:
0.00097002390436656523
Sel-J Tns avg.:
0.00088822710187154896
Sel-J Tnr avg.:
0.002960091633481007
Sel-J Trs avg.:
0.00063089641408004102
Sel-J NIU avg.:
0.0038483187353525561
Sel-J Nius avg.:
0.00088822710187154896
Sel-J Niur avg.:
0.002960091633481007
Sel-J Tgs avg.:
0.0016961274901057123
Sel-J Tgr avg.:
0.0014920577694037169

DCUAccuracy
j14may.019.dat.g
g14may.019.dat.ownship
Average:
14.101141862058
Stdev : 4.017563343048
Max : 31.341869354248
Min : 12.065686225891

DCUAccuracy
g14may.019.dat.j
j14may.019.dat.ownship
Average:
13.927347767426
Stdev : 3.106972217560
Max : 30.983718872070
Min : 12.386458396912

SNAPAccuracy
../DCU/j14may.019.dat.1j
s243t3.dat.digi1J
Average: 3.918491256742
Stdev : 6.009781360626
Max : 16.832506179810
Min : 0.000000000000

SNAPAccuracy
../DCU/j14may.019.dat.2j
s243t3.dat.digi2J
Average:
13.389944648359
Stdev : 2.673644065857
Max : 16.838010787964

Min : 9.170569419861

SNAPAccuracy
../DCU/j14may.019.dat.3j
s243t3.dat.digi3J
Average: 13.389977340007
Stdev : 2.673674583435
Max : 16.838010787964
Min : 9.170519828796

SNAPAccuracy
../DCU/j14may.019.dat.1g
s243t3.dat.digi1G
Average: 19.649107988916
Stdev : 2.950942754745
Max : 32.433429718018
Min : 12.934171676636

SNAPAccuracy
../DCU/j14may.019.dat.2g
s243t3.dat.digi2G
Average: 20.137575995320
Stdev : 3.240345478058
Max : 32.879703521729
Min : 13.233886718750

SNAPAccuracy
../DCU/j14may.019.dat.3g
s243t3.dat.digi3G
Average: 20.045525452585
Stdev : 2.904620409012
Max : 32.433429718018
Min : 13.233886718750

SNAPAccuracy
../DCU/g14may.019.dat.1j
s243t3.dat.digi1J
Average: 19.964813870131
Stdev : 2.727392435074
Max : 29.915128707886
Min : 11.226552009583

SNAPAccuracy
../DCU/g14may.019.dat.2j
s243t3.dat.digi2J
Average: 20.170726240524
Stdev : 2.662208557129
Max : 29.426181793213
Min : 11.226691246033

SNAPAccuracy
../DCU/g14may.019.dat.3j
s243t3.dat.digi3J
Average: 20.271581603448
Stdev : 2.715926170349
Max : 29.426059722900
Min : 13.267064094543

SNAPAccuracy
../DCU/g14may.019.dat.1g
s243t3.dat.digi1G
Average: 13.389943740737
Stdev : 2.673645973206
Max : 16.838010787964
Min : 9.170610427856

SNAPAccuracy
../DCU/g14may.019.dat.2g
s243t3.dat.digi2G
Average: 13.389975039292
Stdev : 2.673676490784
Max : 16.838010787964
Min : 9.170610427856

SNAPAccuracy
../DCU/g14may.019.dat.3g
s243t3.dat.digi3G
Average: 13.389975377012
Stdev : 2.673676967621
Max : 16.838010787964
Min : 9.170610427856

7.2.20 Stats.020

/sg16/usr1/nets/GATEWAY/gateway_lit
e2.stats
Frames : 493
Average: 0.00152525
Maximum: 0.011483
2nd Max: 0.008799
Minimum: 0.000584

/sg16/usr1/nets/GATEWAY/gateway_lit
e1.stats
Frames : 494
Average: 0.00147739
Maximum: 0.010678
2nd Max: 0.004453
Minimum: 0.000784

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 21
Count : 14
Average: 2139.25
Maximum: 2528.45
2nd Max: 2528.45
Minimum: 1124.86

Frames : 223045
Average: 0.000211855
Maximum: 0.010297
2nd Max: 0.010297
Minimum: 1.9e-05

PDUs from Net1: 21
PDUs from Net2: 21

PDU Buffer 1
-- Stats from
CircularBuffer --
NumPass: 21
Average: 0.0527475
Variance: 0.000194167
Maximum: 0.069997
2nd Max: 0.06891
Minimum: 0.030846
-- End Stats from
CircularBuffer --

PDU Buffer 2
-- Stats from
CircularBuffer --
NumPass: 21
Average: 0.0456999
Variance: 6.11765e-05
Maximum: 0.056057
2nd Max: 0.056057
Minimum: 0.03134
-- End Stats from
CircularBuffer --

SNAPPdus.pl
Average: 1.794722
Maximum: 4.961020
Minimum: 0.001551
Variance: 5.230645
Std Dev : 2.287060

SNAPTtimes.pl s213t3l.dat
Sel-J Tss avg.:
0.0009174741035783237
Sel-J Tns avg.:
0.00088822710187154896
Sel-J Tnr avg.:
0.002960091633481007
Sel-J Trs avg.:
0.00040215737049201634
Sel-J NIU avg.:
0.0038483187353525561
Sel-J Nius avg.:
0.00088822710187154896
Sel-J Niur avg.:
0.002960091633481007
Sel-J Tgs avg.:
0.00050304980086583826
Sel-J Tgr avg.:
0.00037751394404359048

DCUAccuracy
j14may.020.dat.g
g14may.020.dat.ownship

Average: 33.541392431421
Stdev : 19.481071472168
Max : 90.789398193359
Min : 12.717759132385

DCUAccuracyLite j14may.020.dat.g
g14may.020.dat.ownship
Average: 13.008607744097
Stdev : 0.134688988328
Max : 13.258233070374
Min : 12.717759132385

DCUAccuracy g14may.020.dat.j
j14may.020.dat.ownship
Average: 41.185510269931
Stdev : 25.439907073975
Max : 65.158271789551
Min : 13.100765228271

DCUAccuracyLite g14may.020.dat.j
j14may.020.dat.ownship 38.0
Average: 13.368693347450
Stdev : 0.132746040821
Max : 13.636923789978
Min : 13.100765228271

SNAPAccuracy
../DCU/j14may.020.dat.1j
s213t3l.dat.digi1J
Average: 0.012195121951
Stdev : 0.270225852728
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j14may.020.dat.2j
s213t3l.dat.digi2J
Average: 5.878048780488
Stdev : 0.846661210060
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j14may.020.dat.3j
s213t3l.dat.digi3J
Average: 6.000000000000
Stdev : 0.000000000000
Max : 6.000000000000
Min : 6.000000000000

SNAPAccuracy
../DCU/j14may.020.dat.1g
s213t3l.dat.digi1G
Average: 15.024348746558
Stdev : 8.899758338928
Max : 24.000000000000
Min : 5.821000099182

SNAPAccuracy
../DCU/j14may.020.dat.2g
s213t3l.dat.digi2G
Average: 15.073111697299
Stdev : 8.916471481323
Max : 30.000000000000
Min : 5.821000099182

SNAPAccuracy
../DCU/j14may.020.dat.3g
s213t3l.dat.digi3G
Average: 15.073111697299
Stdev : 8.916471481323
Max : 30.000000000000
Min : 5.821000099182

SNAPAccuracy
../DCU/g14may.020.dat.1j
s213t3l.dat.digi1J
Average: 29.801111330752
Stdev : 0.545261263847
Max : 30.031200408936
Min : 18.000000000000

SNAPAccuracy
../DCU/g14may.020.dat.2j
s213t3l.dat.digi2J
Average: 31.370922289006
Stdev : 8.309113502502
Max : 96.000000000000
Min : 29.611999511719

SNAPAccuracy
../DCU/g14may.020.dat.3j
s213t3l.dat.digi3J
Average: 31.273341465366
Stdev : 8.439249038696
Max : 96.000000000000
Min : 6.195069789886

SNAPAccuracy
../DCU/g14may.020.dat.1g
s213t3l.dat.digi1G
Average: 5.780487804878
Stdev : 1.126449108124
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/g14may.020.dat.2g
s213t3l.dat.digi2G
Average: 6.000000000000
Stdev : 0.000000000000
Max : 6.000000000000
Min : 6.000000000000

SNAPAccuracy
../DCU/g14may.020.dat.3g
s213t3l.dat.digi3G

Average: 6.000000000000
Stdev : 0.000000000000
Max : 6.000000000000
Min : 6.000000000000

7.2.21 Stats.021

/sg16/usr1/nets/GATEWA
Y/gateway_lite2.stats
Frames : 499
Average: 0.00214257
Maximum: 0.009392
2nd Max: 0.004349
Minimum: 0.001384

/sg16/usr1/nets/GATEWA
Y/gateway_lite1.stats
Frames : 499
Average: 0.00228701
Maximum: 0.012373
2nd Max: 0.007712
Minimum: 0.001285

/sg16/usr1/nets/DISNET/di
snet7.stats
PDUs : 477
Count : 468
Average: 1774.54
Maximum: 10638.3
2nd Max: 3367
Minimum: -108.589

Frames : 150525
Average: 0.000211098
Maximum: 0.010198
2nd Max: 0.0101
Minimum: 1.8e-05

PDUs from Net1: 479
PDUs from Net2: 477

PDU Buffer 1
-- Stats from
CircularBuffer --
NumPass: 479
Average: 0.0450309
Variance: 9.90951e-05
Maximum: 0.077018
2nd Max: 0.067539
Minimum: 0.010875
-- End Stats from
CircularBuffer --

PDU Buffer 2
-- Stats from
CircularBuffer --

NumPass: 477
Average: 0.0449742
Variance: 8.85831e-05
Maximum: 0.075138
2nd Max: 0.07326
Minimum: 0.019082
-- End Stats from CircularBuffer --

SNAPPdus.pl
Average: 0.082242
Maximum: 0.258864
Minimum: 0.000017
Variance: 0.002765
Std Dev : 0.052585

SNAPTtimes.pl s223t3l.dat
Sel-J Tss avg.:
0.00098135458186975641
Sel-J Tns avg.:
0.00088822710187154896
Sel-J Tnr avg.:
0.002960091633481007
Sel-J Trs avg.:
0.00040099402406439371
Sel-J NIU avg.:
0.0038483187353525561
Sel-J Nius avg.:
0.00088822710187154896
Sel-J Niur avg.:
0.002960091633481007
Sel-J Tgs avg.:
0.00097998007964430946
Sel-J Tgr avg.:
0.00068261155365146253

DCUAccuracy j14may.021.dat.g
g14may.021.dat.ownship
Average: 25.750027456904
Stdev : 12.891917228699
Max : 51.836357116699
Min : 12.327514648438

DCUAccuracyLite j14may.021.dat.g
g14may.021.dat.ownship 37.0
Average: 12.771357977977
Stdev : 0.356223136187
Max : 16.427181243896
Min : 12.327514648438

DCUAccuracy g14may.021.dat.j
j14may.021.dat.ownship
Average: 32.463901958891
Stdev : 19.180244445801
Max : 64.800994873047
Min : 12.684135437012

DCUAccuracyLite g14may.021.dat.j
j14may.021.dat.ownship 37.0
Average: 13.116742223990

Stddev : 0.265466511250
Max : 13.762958526611
Min : 12.684135437012

SNAPAccuracy
../DCU/j14may.021.dat.1j
s223t3l.dat.digi1J
Average: 0.012096774194
Stddev : 0.269136250019
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j14may.021.dat.2j
s223t3l.dat.digi2J
Average: 5.915322580645
Stddev : 0.707738816738
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j14may.021.dat.3j
s223t3l.dat.digi3J
Average: 13.406970696497
Stddev : 2.665643930435
Max : 16.838010787964
Min : 9.170519828796

SNAPAccuracy
../DCU/j14may.021.dat.1g
s223t3l.dat.digi1G
Average: 11.845425463304
Stddev : 6.072032451630
Max : 24.000000000000
Min : 5.515999794006

SNAPAccuracy
../DCU/j14may.021.dat.2g
s223t3l.dat.digi2G
Average: 11.857620585256
Stddev : 6.090378284454
Max : 24.000000000000
Min : 5.515999794006

SNAPAccuracy
../DCU/j14may.021.dat.3g
s223t3l.dat.digi3G
Average: 20.237317798583
Stddev : 4.285820007324
Max : 66.740303039551
Min : 13.295889854431

SNAPAccuracy
../DCU/g14may.021.dat.1j
s223t3l.dat.digi1J
Average: 14.928725864534
Stddev : 8.944581031799
Max : 24.008001327515
Min : 5.708000183105

SNAPAccuracy
../DCU/g14may.021.dat.2j
s223t3l.dat.digi2J
Average:
14.928725864534
Stddev : 8.944581031799
Max : 24.008001327515
Min : 5.708000183105

SNAPAccuracy
../DCU/g14may.021.dat.3j
s223t3l.dat.digi3J
average:
20.329523392188
Stddev : 4.041326522827
Max : 66.740303039551
Min : 12.960615158081

SNAPAccuracy
../DCU/g14may.021.dat.1g
s223t3l.dat.digi1G
Average: 5.782258064516
Stddev : 1.122069597244
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/g14may.021.dat.2g
s223t3l.dat.digi2G
Average: 6.000000000000
Stddev : 0.000000000000
Max : 6.000000000000
Min : 6.000000000000

SNAPAccuracy
../DCU/g14may.021.dat.3g
s223t3l.dat.digi3G
Average:
13.406968897039
Stddev : 2.665646076202
Max : 16.838010787964
Min : 9.170610427856

7.2.22 Stats.022

/sg16/usr1/nets/GATEWA
Y/gateway_lite2.stats
Frames : 494
Average: 0.0028244
Maximum: 0.011765
2nd Max: 0.005042
Minimum: 0.001483

/sg16/usr1/nets/GATEWA
Y/gateway_lite1.stats

Frames : 491
Average: 0.00297528
Maximum: 0.012655
2nd Max: 0.005239
Minimum: 0.001285

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 928
Count : 721
Average: 1869.85
Maximum: 3378.38
2nd Max: 3378.38
Minimum: -232.126

Frames : 170850
Average: 0.000210871
Maximum: 0.010396
2nd Max: 0.010198
Minimum: 9.3e-05

PDUs from Net1: 928
PDUs from Net2: 928

PDU Buffer 1
-- Stats from CircularBuffer --
NumPass: 928
Average: 0.0449698
Variance: 0.00010515
Maximum: 0.07593
2nd Max: 0.073755
Minimum: 0.009788
-- End Stats from CircularBuffer --

PDU Buffer 2
-- Stats from CircularBuffer --
NumPass: 928
Average: 0.0447214
Variance: 9.70437e-05
Maximum: 0.072667
2nd Max: 0.072271
Minimum: 0.015127
-- End Stats from CircularBuffer --

SNAPPdus.pl
Average: 0.054548
Maximum: 0.208950
Minimum: 0.000012
Variance: 0.001303
Std Dev : 0.036091

SNAPTtimes.pl s233t3l.dat
Sel-J Tss avg.:
0.00097818924329777903
Sel-J Tns avg.:
0.00088822710187154896
Sel-J Tnr avg.:
0.002960091633481007
Sel-J Trs avg.:
0.00060715338660369766

Sel-J NIU avg.:
0.0038483187353525561
Sel-J Nius avg.:
0.00088822710187154896
Sel-J Niur avg.:
0.002960091633481007
Sel-J Tgs avg.:
0.001394476095731398
Sel-J Tgr avg.:
0.00093575896428219887

DCUAccuracy j14may.022.dat.g
g14may.022.dat.ownship
Average: 33.278636519919
Stdev : 19.512884140015
Max : 90.789398193359
Min : 12.495001792908

DCUAccuracyLite j14may.022.dat.g
g14may.022.dat.ownship
Average: 12.891096746657
Stdev : 0.259575575590
Max : 14.548254013062
Min : 12.495001792908

DCUAccuracy g14may.022.dat.j
j14may.022.dat.ownship
Average: 33.492637050806
Stdev : 19.399761199951
Max : 90.789398193359
Min : 12.802011489868

DCUAccuracyLite g14may.022.dat.j
j14may.022.dat.ownship
Average: 13.224056371053
Stdev : 0.279994696379
Max : 14.933873176575
Min : 12.802011489868

SNAPAccuracy
../DCU/j14may.022.dat.1j
s233t3l.dat.digi1J
Average: 0.012195121951
Stdev : 0.270225852728
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j14may.022.dat.2j
s233t3l.dat.digi2J
Average: 13.441219830950
Stdev : 2.649139404297
Max : 16.838010787964
Min : 9.218936920166

SNAPAccuracy
../DCU/j14may.022.dat.3j
s233t3l.dat.digi3J
Average: 13.441252667647

Stdev : 2.649170398712
Max : 16.838010787964
Min : 9.218936920166

SNAPAccuracy
../DCU/j14may.022.dat.1g
s233t3l.dat.digi1G
Average:
25.597814729315
Stdev : 9.372941017151
Max : 96.000000000000
Min : 23.388000488281

SNAPAccuracy
../DCU/j14may.022.dat.2g
s233t3l.dat.digi2G
Average:
20.353343193575
Stdev : 4.488229274750
Max : 83.410537719727
Min : 13.160223007202

SNAPAccuracy
../DCU/j14may.022.dat.3g
s233t3l.dat.digi3G
Average:
20.385616191919
Stdev : 4.272136688232
Max : 83.410537719727
Min : 13.333000183105

SNAPAccuracy
../DCU/g14may.022.dat.1j
s233t3l.dat.digi1J
Average:
25.579787788244
Stdev : 9.434943199158
Max : 96.000000000000
Min : 6.907030105591

SNAPAccuracy
../DCU/g14may.022.dat.2j
s233t3l.dat.digi2J
Average:
20.573327733863
Stdev : 4.233132362366
Max : 83.410537719727
Min : 13.348984718323

SNAPAccuracy
../DCU/g14may.022.dat.3j
s233t3l.dat.digi3J
Average:
20.435987269292
Stdev : 3.115548133850
Max : 54.317455291748
Min : 13.331826210022

SNAPAccuracy
../DCU/g14may.022.dat.1g
s233t3l.dat.digi1G
Average: 5.804878048780
Stdev : 1.064264535904
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/g14may.022.dat.2g
s233t3l.dat.digi2G
Average: 13.441250511682
Stdev : 2.649172067642
Max : 16.838010787964
Min : 9.218936920166

SNAPAccuracy
../DCU/g14may.022.dat.3g
s233t3l.dat.digi3G
Average: 13.441250853529
Stdev : 2.649172544479
Max : 16.838010787964
Min : 9.218936920166

7.2.23 Stats.023

/sg16/usr1/nets/GATEWAY/gateway_lit
e2.stats
Frames : 495
Average: 0.00354299
Maximum: 0.011271
2nd Max: 0.004152
Minimum: 0.001285

/sg16/usr1/nets/GATEWAY/gateway_lit
e1.stats
Frames : 495
Average: 0.00383725
Maximum: 0.014449
2nd Max: 0.010975
Minimum: 0.001186

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 1378
Count : 977
Average: 1968.87
Maximum: 22727.3
2nd Max: 3378.38
Minimum: -638.978

Frames : 159338
Average: 0.000223888
Maximum: 0.011286
2nd Max: 0.010594
Minimum: 8.9e-05

PDU's from Net1: 1382

PDU's from Net2: 1379

PDU Buffer 1

-- Stats from CircularBuffer --

NumPass: 1382

Average: 0.0455026

Variance: 0.000117842

Maximum: 0.079884

2nd Max: 0.072879

Minimum: 0.014831

-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --

NumPass: 1379

Average: 0.0458974

Variance: 0.000110524

Maximum: 0.075633

2nd Max: 0.070393

Minimum: 0.013347

-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.053268

Maximum: 0.189906

Minimum: 0.000017

Variance: 0.000682

Std Dev : 0.026115

SNAPTtimes.pl s243t3l.dat

Sel-J Tss avg.:

0.0009770258963483745

Sel-J Tns avg.:

0.00088822710187154896

Sel-J Tnr avg.:

0.002960091633481007

Sel-J Trs avg.:

0.00040059561764198054

Sel-J NIU avg.:

0.0038483187353525561

Sel-J Nius avg.:

0.00088822710187154896

Sel-J Niur avg.:

0.002960091633481007

Sel-J Tgs avg.:

0.0019452490041911811

Sel-J Tgr avg.:

0.0012760159364285548

DCUAccuracy j14may.023.dat.g

g14may.023.dat.ownship

Average: 32.490875638899

Stdev : 19.229503631592

Max : 51.986450195312

Min : 12.778741836548

DCUAccuracyLite j14may.023.dat.g

g14may.023.dat.ownship

Average:

13.025020654765

Stdev : 0.137376040220

Max : 13.310237884521

Min : 12.778741836548

DCUAccuracy

g14may.023.dat.j

j14may.023.dat.ownship

Average:

32.760340299763

Stdev : 19.073888778687

Max : 64.842208862305

Min : 13.106413841248

DCUAccuracyLite

g14may.023.dat.j

j14may.023.dat.ownship

Average:

13.382456604640

Stdev : 0.133840739727

Max : 13.643105506897

Min : 13.106413841248

SNAPAccuracy

../DCU/j14may.023.dat.1j

s243t3l.dat.digi1J

Average: 0.108085721503

Stdev : 1.209594368935

Max : 16.670299530029

Min : 0.000000000000

SNAPAccuracy

../DCU/j14may.023.dat.2j

s243t3l.dat.digi2J

Average:

13.425954358398

Stdev : 2.651851654053

Max : 16.838010787964

Min : 9.214953422546

SNAPAccuracy

../DCU/j14may.023.dat.3j

s243t3l.dat.digi3J

Average:

13.425987195095

Stdev : 2.651883125305

Max : 16.838010787964

Min : 9.214953422546

SNAPAccuracy

../DCU/j14may.023.dat.1g

s243t3l.dat.digi1G

Average:

19.999074056653

Stdev : 4.229197978973

Max : 66.740303039551

Min : 12.104727745056

SNAPAccuracy

../DCU/j14may.023.dat.2g

s243t3l.dat.digi2G

Average: 20.058885143523

Stdev : 4.166466236115

Max : 67.802452087402

Min : 13.221461296082

SNAPAccuracy

../DCU/j14may.023.dat.3g

s243t3l.dat.digi3G

Average: 20.278844604257

Stdev : 4.136075973511

Max : 66.740303039551

Min : 12.145759582520

SNAPAccuracy

../DCU/g14may.023.dat.1j

s243t3l.dat.digi1J

Average: 20.552482483817

Stdev : 4.813745498657

Max : 83.440536499023

Min : 13.547808647156

SNAPAccuracy

../DCU/g14may.023.dat.2j

s243t3l.dat.digi2J

Average: 20.484243889324

Stdev : 4.533658504486

Max : 83.440536499023

Min : 13.547432899475

SNAPAccuracy

../DCU/g14may.023.dat.3j

s243t3l.dat.digi3J

Average: 20.308453374222

Stdev : 3.356575727463

Max : 54.281127929688

Min : 13.270554542542

SNAPAccuracy

../DCU/g14may.023.dat.1g

s243t3l.dat.digi1G

Average: 13.432628775031

Stdev : 2.653284072876

Max : 16.838010787964

Min : 9.214911460876

SNAPAccuracy

../DCU/g14may.023.dat.2g

s243t3l.dat.digi2G

Average: 13.432660391660

Stdev : 2.653314828873

Max : 16.838010787964

Min : 9.214911460876

SNAPAccuracy

../DCU/g14may.023.dat.3g

s243t3l.dat.digi3G

Average: 13.432660732812
Stdev : 2.653315305710
Max : 16.838010787964
Min : 9.214911460876

7.2.24 Stats.024

/usr1/figd/DIS2.2/dis4.stats
Frames : 502
Average: 0.000988976
Maximum: 0.006328
2nd Max: 0.006229
Minimum: 0.000692
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
Frames : 503
Average: 0.00115052
Maximum: 0.007909
2nd Max: 0.006327
Minimum: 0.000692
RateErr: 0

/sg16/usr1/nets/GATEWAY/gateway1.s
tats
Frames : 503
Average: 0.000673197
Maximum: 0.011369
2nd Max: 0.00346
Minimum: 0.000395

/sg16/usr1/nets/GATEWAY/gateway2.s
tats
Frames : 502
Average: 0.000620514
Maximum: 0.01305
2nd Max: 0.003065
Minimum: 0.000198

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 32
Count : 28
Average: 1961.56
Maximum: 3355.7
2nd Max: 2531.65
Minimum: 1264.22

Frames : 264790
Average: 0.000230251
Maximum: 0.010297
2nd Max: 0.010198
Minimum: 9.5e-05

PDUs from Net1: 26
PDUs from Net2: 32

PDU Buffer 1
-- Stats from
CircularBuffer --
NumPass: 26
Average: 0.0434936
Variance: 0.000141045
Maximum: 0.069108
2nd Max: 0.040238
Minimum: 0.014039

-- End Stats from
CircularBuffer --

PDU Buffer 2
-- Stats from
CircularBuffer --
NumPass: 32
Average: 0.0465288
Variance: 7.30101e-05
Maximum: 0.061988
2nd Max: 0.061396
Minimum: 0.02788

-- End Stats from
CircularBuffer --

SNAPPdus.pl
Average: 0.086679
Maximum: 0.121879
Minimum: 0.050804
Variance: 0.000250
Std Dev : 0.015811

SNAPTtimes.pl s212t3.dat
Sel-J Tss avg.:
0.00097763021863074909
Sel-J Tns avg.:
0.00041731411504265748
Sel-J Tnr avg.:
0.00058340357846712828
Sel-J Trs avg.:
0.00042028031816472767
Sel-J NIU avg.:
0.0010909165011727664
Sel-J Nius avg.:
0.00041731411504265748
Sel-J Niur avg.:
0.00058340357846712828
Sel-J Tgs avg.: -
0.00027300596414698625
Sel-J Tgr avg.:
0.00031740954244730598

DCUAccuracy
j14may.024.dat.g
g14may.024.dat.ownship
Average:
12.284501110504
Stdev : 2.049261808395
Max : 19.269805908203
Min : 0.165096938610

DCUAccuracy g14may.024.dat.j
j14may.024.dat.ownship
Average: 12.649163227769
Stdev : 1.969825029373
Max : 19.589942932129
Min : 0.361997246742

SNAPAccuracy
../DCU/j14may.024.dat.1j
s212t3.dat.digi1J
Average: 5.794449136142
Stdev : 0.214674174786
Max : 8.805999755859
Min : 2.841000080109

SNAPAccuracy
../DCU/j14may.024.dat.2j
s212t3.dat.digi2J
Average: 6.128837468012
Stdev : 0.342441856861
Max : 9.131999969482
Min : 0.177900001407

SNAPAccuracy
../DCU/j14may.024.dat.3j
s212t3.dat.digi3J
Average: 6.454950289500
Stdev : 0.342474877834
Max : 9.458999633789
Min : 0.504200041294

SNAPAccuracy
../DCU/j14may.024.dat.1g
s212t3.dat.digi1G
Average: 5.721127032735
Stdev : 0.580399930477
Max : 8.805999755859
Min : 0.289999991655

SNAPAccuracy
../DCU/j14may.024.dat.2g
s212t3.dat.digi2G
Average: 6.059356262354
Stdev : 0.637257158756
Max : 9.131999969482
Min : 0.014999999665

SNAPAccuracy
../DCU/j14may.024.dat.3g
s212t3.dat.digi3G
Average: 6.385436766924
Stdev : 0.637238681316
Max : 9.458999633789
Min : 0.342000007629

SNAPAccuracy
../DCU/g14may.024.dat.1j
s212t3.dat.digi1J

Average: 5.765317270903
Stdev : 0.670191764832
Max : 6.027500152588
Min : 0.210000008345

SNAPAccuracy
../DCU/g14may.024.dat.2j
s212t3.dat.digi2J
Average: 6.089726132122
Stdev : 0.773474752903
Max : 6.383599758148
Min : 0.061999998987

SNAPAccuracy
../DCU/g14may.024.dat.3j
s212t3.dat.digi3J
Average: 6.382213720764
Stdev : 0.930844426155
Max : 6.713349819183
Min : 0.421999990940

SNAPAccuracy
../DCU/g14may.024.dat.1g
s212t3.dat.digi1G
Average: 5.852243976247
Stdev : 0.277521610260
Max : 6.054999828339
Min : 2.822999954224

SNAPAccuracy
../DCU/g14may.024.dat.2g
s212t3.dat.digi2G
Average: 6.186643494533
Stdev : 0.385762363672
Max : 6.386960029602
Min : 0.236900001764

SNAPAccuracy
../DCU/g14may.024.dat.3g
s212t3.dat.digi3G
Average: 6.512763204954
Stdev : 0.385756224394
Max : 6.713349819183
Min : 0.563399970531

7.2.25 Stats.025

/usr1/figd/DIS2.2/dis4.stats
Frames : 502
Average: 0.00143356
Maximum: 0.006129
2nd Max: 0.001482
Minimum: 0.000692
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats

Frames : 501
Average: 0.00141534
Maximum: 0.006327
2nd Max: 0.001483
Minimum: 0.000692
RateErr: 0

/sg16/usr1/nets/GATEWA
Y/gateway1.stats
Frames : 501
Average: 0.00218693
Maximum: 0.011172
2nd Max: 0.003658
Minimum: 0.000395

/sg16/usr1/nets/GATEWA
Y/gateway2.stats
Frames : 502
Average: 0.00221879
Maximum: 0.010083
2nd Max: 0.003263
Minimum: 0.000296

/sg16/usr1/nets/DISNET/di
snet7.stats
PDUs : 473
Count : 460
Average: 1620.83
Maximum: 3367
2nd Max: 2531.65
Minimum: -3246.75

Frames : 238184
Average: 0.000233521
Maximum: 0.01127
2nd Max: 0.010297
Minimum: 9.5e-05

PDUs from Net1: 473
PDUs from Net2: 473

PDU Buffer 1
- Stats from
CircularBuffer --
NumPass: 473
Average: 0.0448545
Variance: 9.9739e-05
Maximum: 0.074545
2nd Max: 0.074249
Minimum: 0.0175

- End Stats from
CircularBuffer --

PDU Buffer 2
- Stats from
CircularBuffer --
NumPass: 473
Average: 0.0450356
Variance: 0.00010257

Maximum: 0.081663
2nd Max: 0.072864
Minimum: 0.019787
-- End Stats from CircularBuffer --

SNAPPdus.pl
Average: 0.095616
Maximum: 1.315743
Minimum: 0.024224
Variance: 0.006628
Std Dev : 0.081415

SNAPTimes.pl s222t3.dat
Sel-J Tss avg.:
0.00097764143424592829
Sel-J Tns avg.:
0.00037109760939866209
Sel-J Tnr avg.:
0.00093820318724613166
Sel-J Trs avg.:
0.00057800398430248089
Sel-J NIU avg.:
0.0013431812748099599
Sel-J Nius avg.:
0.00037109760939866209
Sel-J Niur avg.:
0.00093820318724613166
Sel-J Tgs avg.:
0.00054471513923847554
Sel-J Tgr avg.:
0.001019061753064611

DCUAccuracy j14may.025.dat.g
g14may.025.dat.ownship
Average: 12.435589099480
Stdev : 1.259754419327
Max : 13.665648460388
Min : 0.231049776077

DCUAccuracy g14may.025.dat.j
j14may.025.dat.ownship
Average: 12.806711141005
Stdev : 1.170078992844
Max : 13.960242271423
Min : 0.113137081265

SNAPAccuracy
../DCU/j14may.025.dat.1j
s222t3.dat.digi1J
Average: 5.775044171383
Stdev : 0.267900824547
Max : 5.958000183105
Min : 0.268700003624

SNAPAccuracy
../DCU/j14may.025.dat.2j
s222t3.dat.digi2J
Average: 6.097932896118
Stdev : 0.291655331850

Max : 6.313000202179
Min : 0.028100000694

SNAPAccuracy
../DCU/j14may.025.dat.3j
s222t3.dat.digi3J
Average: 15.008247099172
Stdev : 2.495011806488
Max : 18.860408782959
Min : 8.896577835083

SNAPAccuracy
../DCU/j14may.025.dat.1g
s222t3.dat.digi1G
Average: 5.757298573085
Stdev : 0.107613474131
Max : 5.938199996948
Min : 5.531000137329

SNAPAccuracy
../DCU/j14may.025.dat.2g
s222t3.dat.digi2G
Average: 6.092463163229
Stdev : 0.114629253745
Max : 6.290999889374
Min : 5.856999874115

SNAPAccuracy
../DCU/j14may.025.dat.3g
s222t3.dat.digi3G
Average: 27.107625485434
Stdev : 4.028404235840
Max : 39.745262145996
Min : 16.509204864502

SNAPAccuracy
../DCU/g14may.025.dat.1j
s222t3.dat.digi1J
Average: 5.839202283115
Stdev : 0.107525914907
Max : 6.005000114441
Min : 5.611999988556

SNAPAccuracy
../DCU/g14may.025.dat.2j
s222t3.dat.digi2J
Average: 6.137916484207
Stdev : 0.554080545902
Max : 6.361000061035
Min : 0.104900002480

SNAPAccuracy
../DCU/g14may.025.dat.3j
s222t3.dat.digi3J
Average: 27.173633726020
Stdev : 3.866259336472
Max : 37.853050231934
Min : 16.568000793457

SNAPAccuracy
../DCU/g14may.025.dat.1g
s222t3.dat.digi1G
Average: 5.855735312045
Stdev : 0.275132179260
Max : 6.060750007629
Min : 0.179600000381

SNAPAccuracy
../DCU/g14may.025.dat.2g
s222t3.dat.digi2G
Average: 6.178968918126
Stdev : 0.291460961103
Max : 6.363999843597
Min : 0.117200002074

SNAPAccuracy
../DCU/g14may.025.dat.3g
s222t3.dat.digi3G
Average:
15.161578022978
Stdev : 2.538214445114
Max : 19.074804306030
Min : 8.874571800232

7.2.26 Stats.026

/usr1/figd/DIS2.2/dis4.stats
Frames : 502
Average: 0.00199179
Maximum: 0.012274
2nd Max: 0.009886
Minimum: 0.000692
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
Frames : 503
Average: 0.00186199
Maximum: 0.011779
2nd Max: 0.006328
Minimum: 0.000692
RateErr: 0

/sg16/usr1/nets/GATEWA
Y/gateway1.stats
Frames : 503
Average: 0.00382022
Maximum: 0.018884
2nd Max: 0.012951
Minimum: 0.000396

/sg16/usr1/nets/GATEWA
Y/gateway2.stats
Frames : 503
Average: 0.00380231
Maximum: 0.01829

2nd Max: 0.014039
Minimum: 0.000197

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 934
Count : 696
Average: 1673.76
Maximum: 6968.64
2nd Max: 3378.38
Minimum: -383.387

Frames : 211144
Average: 0.000238834
Maximum: 0.014039
2nd Max: 0.013941
Minimum: 9.5e-05

PDUs from Net1: 956
PDUs from Net2: 934

PDU Buffer 1
-- Stats from CircularBuffer --
NumPass: 956
Average: 0.046279
Variance: 9.43459e-05
Maximum: 0.074941
2nd Max: 0.074051
Minimum: 0.020564
-- End Stats from CircularBuffer --

PDU Buffer 2
-- Stats from CircularBuffer --
NumPass: 934
Average: 0.0463116
Variance: 9.391e-05
Maximum: 0.072272
2nd Max: 0.071382
Minimum: 0.007711
-- End Stats from CircularBuffer --

SNAPPdus.pl
Average: 0.090968
Maximum: 0.865283
Minimum: 0.023632
Variance: 0.002164
Std Dev : 0.046523

SNAPTtimes.pl s232t3.dat
Sel-J Tss avg.:
0.0010267729083432322
Sel-J Tns avg.:
0.00040127490037811952
Sel-J Tnr avg.:
0.001371177290947746
Sel-J Trs avg.:
0.00055400996000053312
Sel-J NIU avg.:
0.0018256215140187791

Sel-J Nius avg.:
0.00040127490037811952
Sel-J Niur avg.:
0.001371177290947746
Sel-J Tgs avg.:
0.0012375657371951701
Sel-J Tgr avg.:
0.0015261035852991804

DCUAccuracy j14may.026.dat.g
g14may.026.dat.ownship
Average: 12.697332117722
Stdev : 1.857687354088
Max : 25.978088378906
Min : 5.512865066528

DCUAccuracy g14may.026.dat.j
j14may.026.dat.ownship
Average: 13.162756596190
Stdev : 0.873809397221
Max : 17.123598098755
Min : 12.422451019287

SNAPAccuracy
../DCU/j14may.026.dat.1j
s232t3.dat.digi1J
Average: 5.838369743205
Stdev : 0.864752531052
Max : 11.950099945068
Min : 1.398499965668

SNAPAccuracy
../DCU/j14may.026.dat.2j
s232t3.dat.digi2J
Average: 14.326194452328
Stdev : 3.338593482971
Max : 33.926212310791
Min : 6.369104862213

SNAPAccuracy
../DCU/j14may.026.dat.3j
s232t3.dat.digi3J
Average: 15.748344590247
Stdev : 3.343401670456
Max : 35.259136199951
Min : 7.151724815369

SNAPAccuracy
../DCU/j14may.026.dat.1g
s232t3.dat.digi1G
Average: 5.834828910075
Stdev : 0.867575585842
Max : 11.950099945068
Min : 1.398499965668

SNAPAccuracy
../DCU/j14may.026.dat.2g
s232t3.dat.digi2G
Average: 25.920269000868

Stdev : 4.001894474030
Max : 39.642406463623
Min : 15.919855117798

SNAPAccuracy
../DCU/j14may.026.dat.3g
s232t3.dat.digi3G
Average:
27.808727217884
Stdev : 4.102556705475
Max : 42.557880401611
Min : 16.866632461548

SNAPAccuracy
../DCU/g14may.026.dat.1j
s232t3.dat.digi1J
Average: 5.840838807592
Stdev : 0.107529133558
Max : 6.042759895325
Min : 5.639999866486

SNAPAccuracy
../DCU/g14may.026.dat.2j
s232t3.dat.digi2J
Average:
25.970020023369
Stdev : 4.033720970154
Max : 38.835597991943
Min : 17.513917922974

SNAPAccuracy
../DCU/g14may.026.dat.3j
s232t3.dat.digi3J
Average:
27.614505938398
Stdev : 3.953446865082
Max : 38.917186737061
Min : 18.639499664307

SNAPAccuracy
../DCU/g14may.026.dat.1g
s232t3.dat.digi1G
Average: 5.845891491988
Stdev : 0.108670949936
Max : 6.059000015259
Min : 5.639999866486

SNAPAccuracy
../DCU/g14may.026.dat.2g
s232t3.dat.digi2G
Average:
14.363719886457
Stdev : 2.648536443710
Max : 18.690172195435
Min : 9.339308738708

SNAPAccuracy
../DCU/g14may.026.dat.3g
s232t3.dat.digi3G

Average: 15.727898900897
Stdev : 2.695292949677
Max : 19.798679351807
Min : 10.015582084656

7.2.27 Stats.027

/usr1/figd/DIS2.2/dis4.stats
Frames : 503
Average: 0.00218924
Maximum: 0.013643
2nd Max: 0.008008
Minimum: 0.000692
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
Frames : 503
Average: 0.00218018
Maximum: 0.013164
2nd Max: 0.007712
Minimum: 0.000693
RateErr: 0

/sg16/usr1/nets/GATEWAY/gateway1.s
tats
Frames : 503
Average: 0.0062508
Maximum: 0.024024
2nd Max: 0.023036
Minimum: 0.000296

/sg16/usr1/nets/GATEWAY/gateway2.s
tats
Frames : 502
Average: 0.00590426
Maximum: 0.029265
2nd Max: 0.025013
Minimum: 0.000297

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 1393
Count : 955
Average: 1681.4
Maximum: 3378.38
2nd Max: 3367
Minimum: -3246.75

Frames : 191994
Average: 0.000244694
Maximum: 0.013545
2nd Max: 0.013347
Minimum: 8.9e-05

PDUs from Net1: 1396

PDU's from Net2: 1395

PDU Buffer 1

-- Stats from CircularBuffer --

NumPass: 1396
Average: 0.0456294
Variance: 0.000103041
Maximum: 0.080181
2nd Max: 0.079784
Minimum: 0.019081

-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --

NumPass: 1395
Average: 0.0462197
Variance: 9.76469e-05
Maximum: 0.075732
2nd Max: 0.074447
Minimum: 0.018192

-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.094776
Maximum: 2.637991
Minimum: 0.000160
Variance: 0.008570
Std Dev : 0.092574

SNAPTtimes.pl s242t3.dat

Sel-J Tss avg.:
0.00097959561737725499
Sel-J Tns avg.:
0.00034342828683046797
Sel-J Tnr avg.:
0.0017209940239095102
Sel-J Trs avg.:
0.00040610557757953436
Sel-J NIU avg.:
0.0020994621513256493
Sel-J Nius avg.:
0.00034342828683046797
Sel-J Niur avg.:
0.0017209940239095102
Sel-J Tgs avg.:
0.0025124382471447288
Sel-J Tgr avg.:
0.0012678824695542851

DCUAccuracy j14may.027.dat.g

g14may.027.dat.ownship
Average: 12.478359814831
Stdev : 1.170644521713
Max : 13.536448478699
Min : 1.943576574326

DCUAccuracy g14may.027.dat.j

j14may.027.dat.ownship
Average: 12.785652488289

Stdev : 1.215238332748
Max : 14.133720397949
Min : 1.888304233551

SNAPAccuracy

../DCU/j14may.027.dat.1j
s242t3.dat.digi1J
Average:
14.140195150011
Stdev : 2.554815530777
Max : 18.291767120361
Min : 7.944975852966

SNAPAccuracy

../DCU/j14may.027.dat.2j
s242t3.dat.digi2J
Average:
15.198900788843
Stdev : 2.727438449860
Max : 19.314838409424
Min : 7.836734771729

SNAPAccuracy

../DCU/j14may.027.dat.3j
s242t3.dat.digi3J
Average:
16.100941788503
Stdev : 2.806681156158
Max : 20.310932159424
Min : 7.909290313721

SNAPAccuracy

../DCU/j14may.027.dat.1g
s242t3.dat.digi1G
Average:
26.207886361205
Stdev : 4.515656948090
Max : 40.267459869385
Min : 16.741804122925

SNAPAccuracy

../DCU/j14may.027.dat.2g
s242t3.dat.digi2G
Average:
27.224088645610
Stdev : 4.332377433777
Max : 40.972724914551
Min : 17.465742111206

SNAPAccuracy

../DCU/j14may.027.dat.3g
s242t3.dat.digi3G
Average:
28.010718335970
Stdev : 4.113141059875
Max : 42.284572601318
Min : 19.024637222290

SNAPAccuracy

../DCU/g14may.027.dat.1j
s242t3.dat.digi1J
Average: 26.439335905645
Stdev : 4.782022953033
Max : 46.187576293945
Min : 11.825804710388

SNAPAccuracy

../DCU/g14may.027.dat.2j
s242t3.dat.digi2J
Average: 27.095127780829
Stdev : 4.688733577728
Max : 46.232624053955
Min : 11.699474334717

SNAPAccuracy

../DCU/g14may.027.dat.3j
s242t3.dat.digi3J
Average: 28.262584576391
Stdev : 4.603691101074
Max : 42.307777404785
Min : 15.424272537231

SNAPAccuracy

../DCU/g14may.027.dat.1g
s242t3.dat.digi1G
Average: 14.315343293626
Stdev : 2.571900129318
Max : 18.503646850586
Min : 7.920626163483

SNAPAccuracy

../DCU/g14may.027.dat.2g
s242t3.dat.digi2G
Average: 15.368374053141
Stdev : 2.744435548782
Max : 19.458662033081
Min : 7.837799072266

SNAPAccuracy

../DCU/g14may.027.dat.3g
s242t3.dat.digi3G
Average: 16.234708747634
Stdev : 2.860335826874
Max : 20.532659530640
Min : 7.929116249084

7.2.28 Stats.028

/usr1/figd/DIS2.2/dis_lite3.stats

Frames : 503
Average: 0.00107986
Maximum: 0.006229
2nd Max: 0.006129
Minimum: 0.000692

RateErr: 0	2nd Max: 0.041623	DCUAccuracyLite g14may.028.dat.j
/usr1/figd/DIS2.2/dis_lite4.stats	Minimum: 0.030748	j14may.028.dat.ownship
Frames : 503	-- End Stats from	Average: 13.096924988104
Average: 0.00100934	CircularBuffer --	Stdev : 0.201645836234
Maximum: 0.00613	SNAPPdus.pl	Max : 13.961745262146
2nd Max: 0.001483	Average: 0.159529	Min : 12.908437728882
Minimum: 0.000692	Maximum: 2.204404	SNAPAccuracy
RateErr: 0	Minimum: 0.063571	../DCU/j14may.028.dat.1j
	Variance: 0.139559	s212t3l.dat.digi1J
/sg16/usr1/nets/GATEWAY/gateway_lit	Std Dev : 0.373576	Average: 8.798101415577
e2.stats	SNAPTtimes.pl s212t3l.dat	Stdev : 3.000589132309
Frames : 503	Sel-J Tss avg.:	Max : 12.027999877930
Average: 0.000643726	0.0009776739561911784	Min : 5.636000156403
Maximum: 0.011765	Sel-J Tns avg.:	SNAPAccuracy
2nd Max: 0.003855	0.00039213717665507553	../DCU/j14may.028.dat.2j
Minimum: 0.000297	Sel-J Tnr avg.:	s212t3l.dat.digi2J
/sg16/usr1/nets/GATEWAY/gateway_lit	0.00057141550688839576	Average: 8.798101415577
e1.stats	Sel-J Trs avg.:	Stdev : 3.000589132309
Frames : 503	0.00055214512924164731	Max : 12.027999877930
Average: 0.000705493	Sel-J NIU avg.:	Min : 5.636000156403
Maximum: 0.012259	0.0010258270374989456	SNAPAccuracy
2nd Max: 0.004449	Sel-J Nius avg.:	../DCU/j14may.028.dat.3j
Minimum: 0.000296	0.00039213717665507553	s212t3l.dat.digi3J
/sg16/usr1/nets/DISNET/disnet7.stats	Sel-J Niur avg.:	Average: 8.798101415577
PDU's : 20	0.00057141550688839576	Stdev : 3.000589132309
Count : 17	Sel-J Tgs avg.:	Max : 12.027999877930
Average: 1769.53	0.00026460238542036518	Min : 5.636000156403
Maximum: 2538.07	Sel-J Tgr avg.:	SNAPAccuracy
2nd Max: 2531.65	0.00031745526826802538	../DCU/j14may.028.dat.1g
Minimum: -217.179	DCUAccuracy	s212t3l.dat.digi1G
Frames : 401988	j14may.028.dat.g	Average: 35.680035465387
Average: 0.00037877	g14may.028.dat.ownship	Stdev : 5.995203018188
Maximum: 60.0002	Average:	Max : 42.013999938965
2nd Max: 0.010298	39.538628655563	Min : 29.624000549316
Minimum: 9.5e-05	Stdev : 27.126983642578	SNAPAccuracy
PDU's from Net1: 16	Max : 90.802444458008	../DCU/j14may.028.dat.2g
PDU's from Net2: 20	Min : 12.525811195374	s212t3l.dat.digi2G
PDU Buffer 1	DCUAccuracyLite	Average: 42.841678452870
-- Stats from CircularBuffer --	j14may.028.dat.g	Stdev : 6.373574256897
NumPass: 16	g14may.028.dat.ownship	Max : 96.000000000000
Average: 0.0497493	Average:	Min : 30.000000000000
Variance: 0.000164828	12.745228081215	SNAPAccuracyLite
Maximum: 0.065251	Stdev : 0.203746661544	../DCU/j14may.028.dat.2g
2nd Max: 0.062385	Max : 13.599327087402	s212t3l.dat.digi2G fix 50.0
Minimum: 0.027979	Min : 12.525811195374	Average: 41.761740617791
-- End Stats from CircularBuffer --	DCUAccuracy	Stdev : 0.763317465782
PDU Buffer 2	g14may.028.dat.j	Max : 42.013999938965
-- Stats from CircularBuffer --	j14may.028.dat.ownship	Min : 30.000000000000
NumPass: 20	Average:	SNAPAccuracy
Average: 0.0506607	51.640845731202	../DCU/j14may.028.dat.3g
Variance: 0.000178108	Stdev : 38.305278778076	s212t3l.dat.digi3G
Maximum: 0.06802	Max : 90.951805114746	Average: 35.680035465387
	Min : 12.908437728882	

Stdev : 5.995203018188
Max : 42.013999938965
Min : 29.624000549316

SNAPAccuracy
../DCU/g14may.028.dat.1j
s212t3l.dat.digi1J
Average: 32.844989807625
Stdev : 2.994192361832
Max : 36.017398834229
Min : 29.625000000000

SNAPAccuracy
../DCU/g14may.028.dat.2j
s212t3l.dat.digi2J
Average: 38.760829577340
Stdev : 3.029197692871
Max : 42.061000823975
Min : 35.606998443604

SNAPAccuracy
../DCU/g14may.028.dat.3j
s212t3l.dat.digi3J
Average: 38.766441019570
Stdev : 3.029713869095
Max : 42.061000823975
Min : 35.606998443604

SNAPAccuracy
../DCU/g14may.028.dat.1g
s212t3l.dat.digi1G
Average: 8.787652925227
Stdev : 2.998656749725
Max : 12.015000343323
Min : 5.625000000000

SNAPAccuracy
../DCU/g14may.028.dat.2g
s212t3l.dat.digi2G
Average: 8.787652925227
Stdev : 2.998656749725
Max : 12.015000343323
Min : 5.625000000000

SNAPAccuracy
../DCU/g14may.028.dat.3g
s212t3l.dat.digi3G
Average: 8.787652925227
Stdev : 2.998656749725
Max : 12.015000343323
Min : 5.625000000000

7.2.29 Stats.029

/usr1/figd/DIS2.2/dis_lite3.stats
Frames : 503

Average: 0.00140501
Maximum: 0.011088
2nd Max: 0.006723
Minimum: 0.000791
RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.
stats
Frames : 502
Average: 0.00127565
Maximum: 0.011286
2nd Max: 0.006723
Minimum: 0.000593
RateErr: 0

/sg16/usr1/nets/GATEWA
Y/gateway_lite2.stats
Frames : 502
Average: 0.00260619
Maximum: 0.011962
2nd Max: 0.004054
Minimum: 0.000297

/sg16/usr1/nets/GATEWA
Y/gateway_lite1.stats
Frames : 502
Average: 0.00256195
Maximum: 0.014647
2nd Max: 0.012853
Minimum: 0.000297

/sg16/usr1/nets/DISNET/di
snet7.stats
PDUs : 481
Count : 469
Average: 1565.43
Maximum: 3367
2nd Max: 2247.19
Minimum: -9259.26

Frames : 298086
Average: 0.000243009
Maximum: 0.011172
2nd Max: 0.010791
Minimum: 9.5e-05

PDUs from Net1: 479
PDUs from Net2: 481

PDU Buffer 1
-- Stats from
CircularBuffer --
NumPass: 479
Average: 0.0449726
Variance: 9.35342e-05
Maximum: 0.074051
2nd Max: 0.068515
Minimum: 0.012161

-- End Stats from CircularBuffer --

PDU Buffer 2
-- Stats from CircularBuffer --
NumPass: 481
Average: 0.0449208
Variance: 0.000105467
Maximum: 0.074347
2nd Max: 0.066043
Minimum: 0.014435
-- End Stats from CircularBuffer --

SNAPPdus.pl
Average: 0.099340
Maximum: 1.741420
Minimum: 0.000002
Variance: 0.008937
Std Dev : 0.094533

SNAPTimes.pl s222t3l.dat
Sel-J Tss avg.:
0.00099559960149616321
Sel-J Tns avg.:
0.00044570916341116792
Sel-J Tnr avg.:
0.00082420119498596638
Sel-J Trs avg.:
0.00040448207153212393
Sel-J NIU avg.:
0.0013286254976134454
Sel-J Nius avg.:
0.00044570916341116792
Sel-J Niur avg.:
0.00082420119498596638
Sel-J Tgs avg.:
0.00073612151404033857
Sel-J Tgr avg.:
0.0011425039842453473

DCUAccuracy j14may.029.dat.g
g14may.029.dat.ownship
Average: 45.394337101987
Stdev : 32.387050628662
Max : 77.939613342285
Min : 11.415390968323

DCUAccuracyLite j14may.029.dat.g
g14may.029.dat.ownship
Average: 12.744813288475
Stdev : 0.204777911305
Max : 13.544171333313
Min : 11.415390968323

DCUAccuracy g14may.029.dat.j
j14may.029.dat.ownship
Average: 51.359153264930
Stdev : 38.335643768311
Max : 90.995048522949
Min : 12.507913589478

DCUAccuracyLite g14may.029.dat.j
j14may.029.dat.ownship
Average: 13.091949393392
Stdev : 0.186736047268
Max : 13.915553092957
Min : 12.507913589478

SNAPAccuracy
../DCU/j14may.029.dat.1j
s222t3l.dat.digi1J
Average: 5.807758754408
Stdev : 0.111379593611
Max : 6.019200325012
Min : 5.248800277710

SNAPAccuracy
../DCU/j14may.029.dat.2j
s222t3l.dat.digi2J
Average: 5.807758754408
Stdev : 0.111379593611
Max : 6.019200325012
Min : 5.248800277710

SNAPAccuracy
../DCU/j14may.029.dat.3j
s222t3l.dat.digi3J
Average: 14.867779303844
Stdev : 2.478090047836
Max : 26.745962142944
Min : 9.432236671448

SNAPAccuracy
../DCU/j14may.029.dat.1g
s222t3l.dat.digi1G
Average: 32.865823320153
Stdev : 2.991808414459
Max : 36.034801483154
Min : 29.632999420166

SNAPAccuracy
../DCU/j14may.029.dat.2g
s222t3l.dat.digi2G
Average: 29.827624183639
Stdev : 0.110525488853
Max : 30.043498992920
Min : 29.273099899292

SNAPAccuracy
../DCU/j14may.029.dat.3g
s222t3l.dat.digi3G
Average: 27.424780090237
Stdev : 5.174687385559
Max : 83.440536499023
Min : 18.072103500366

SNAPAccuracyLite
../DCU/j14may.029.dat.3g
s222t3l.dat.digi3G 80.0

Average:
27.198020286003
Stdev : 3.809267282486
Max : 38.569686889648
Min : 18.072103500366

SNAPAccuracy
../DCU/g14may.029.dat.1j
s222t3l.dat.digi1J
Average:
32.738676503602
Stdev : 2.986470460892
Max : 36.000000000000
Min : 29.600099563599

SNAPAccuracy
../DCU/g14may.029.dat.2j
s222t3l.dat.digi2J
Average:
37.097964441352
Stdev : 7.323400974274
Max : 96.000000000000
Min : 35.588001251221

SNAPAccuracyLite
../DCU/g14may.029.dat.2j
s222t3l.dat.digi2J 37.0
Average:
35.785123471861
Stdev : 0.105912961066
Max : 36.000000000000
Min : 35.588001251221

SNAPAccuracy
../DCU/g14may.029.dat.3j
s222t3l.dat.digi3J
Average:
26.957034926484
Stdev : 4.814510345459
Max : 83.955986022949
Min : 15.739914894104

SNAPAccuracyLite
../DCU/g14may.029.dat.3j
s222t3l.dat.digi3J 80.0
Average:
26.838779841221
Stdev : 4.058719158173
Max : 38.360717773438
Min : 15.739914894104

SNAPAccuracy
../DCU/g14may.029.dat.1g
s222t3l.dat.digi1G
Average: 5.828194171130
Stdev : 0.108327634633
Max : 6.043499946594
Min : 5.605199813843

SNAPAccuracy
../DCU/g14may.029.dat.2g
s222t3l.dat.digi2G
Average: 8.792948687340
Stdev : 3.000623464584
Max : 12.034999847412
Min : 5.605199813843

SNAPAccuracy
../DCU/g14may.029.dat.3g
s222t3l.dat.digi3G
Average: 15.222702707563
Stdev : 2.581191062927
Max : 26.745962142944
Min : 9.545629501343

7.2.30 Stats.030

/usr1/figd/DIS2.2/dis_lite3.stats
Frames : 501
Average: 0.00162842
Maximum: 0.012555
2nd Max: 0.006624
Minimum: 0.00089
RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.stats
Frames : 500
Average: 0.00161944
Maximum: 0.009788
2nd Max: 0.007118
Minimum: 0.000691
RateErr: 0

/sg16/usr1/nets/GATEWAY/gateway_lit
e2.stats
Frames : 500
Average: 0.00423622
Maximum: 0.016412
2nd Max: 0.015423
Minimum: 0.000296

/sg16/usr1/nets/GATEWAY/gateway_lit
e1.stats
Frames : 501
Average: 0.00440082
Maximum: 0.017302
2nd Max: 0.016214
Minimum: 0.000297

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 946
Count : 676
Average: 1752.56
Maximum: 3378.38
2nd Max: 3378.38

Minimum: -568.747

Frames : 224515

Average: 0.000238137

Maximum: 0.021157

2nd Max: 0.014929

Minimum: 9.5e-05

PDUs from Net1: 954

PDUs from Net2: 946

PDU Buffer 1

-- Stats from CircularBuffer --

NumPass: 954

Average: 0.0456306

Variance: 0.000100455

Maximum: 0.07583

2nd Max: 0.075633

Minimum: 0.017895

-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --

NumPass: 946

Average: 0.0454419

Variance: 0.000131921

Maximum: 0.084643

2nd Max: 0.064263

Minimum: 0.011765

-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.090073

Maximum: 1.304361

Minimum: 0.000004

Variance: 0.004773

Std Dev : 0.069084

SNAPTtimes.pl s232t3l.dat

Sel-J Tss avg.:

0.00089697011934191664

Sel-J Tns avg.:

0.00037300000029251505

Sel-J Tnr avg.:

0.001078258964157268

Sel-J Trs avg.:

0.00059541832645000723

Sel-J NIU avg.:

0.0014853087649900982

Sel-J Nius avg.:

0.00037300000029251505

Sel-J Niur avg.:

0.001078258964157268

Sel-J Tgs avg.:

0.0016478645423148013

Sel-J Tgr avg.:

0.0019558187241309351

DCUAccuracy

j14may.030.dat.g

g14may.030.dat.ownship

Average:

15.504729431168

Stdev : 12.919945716858

Max : 77.875045776367

Min : 3.056270360947

DCUAccuracyLite

j14may.030.dat.g

g14may.030.dat.ownship

Average:

12.821004659443

Stdev : 2.891056299210

Max : 38.990539550781

Min : 3.056270360947

DCUAccuracy

g14may.030.dat.j

j14may.030.dat.ownship

Average:

16.148398170658

Stdev : 14.380816459656

Max : 90.913955688477

Min : 0.020999999717

DCUAccuracyLite

g14may.030.dat.j

j14may.030.dat.ownship

Average:

12.896409017355

Stdev : 1.304455399513

Max : 16.335792541504

Min : 0.020999999717

SNAPAccuracy

../DCU/j14may.030.dat.1j

s232t3l.dat.digi1J

Average: 5.774898000645

Stdev : 0.828844547272

Max : 11.906999588013

Min : 0.004000000190

SNAPAccuracy

../DCU/j14may.030.dat.2j

s232t3l.dat.digi2J

Average:

13.979462211869

Stdev : 3.049239635468

Max : 33.611030578613

Min : 6.836070060730

SNAPAccuracy

../DCU/j14may.030.dat.3j

s232t3l.dat.digi3J

Average:

15.614099385748

Stdev : 3.084318399429

Max : 35.345123291016

Min : 9.821558952332

SNAPAccuracy

../DCU/j14may.030.dat.1g

s232t3l.dat.digi1G

Average: 18.547373680933

Stdev : 14.796379089355

Max : 41.922901153564

Min : 4.246999740601

SNAPAccuracy

../DCU/j14may.030.dat.2g

s232t3l.dat.digi2G

Average: 25.807952249001

Stdev : 6.683676719666

Max : 84.397186279297

Min : 16.374053955078

SNAPAccuracyLite

../DCU/j14may.030.dat.2g

s232t3l.dat.digi2G 50.0

Average: 25.228077852726

Stdev : 4.023607254028

Max : 39.859043121338

Min : 16.374053955078

SNAPAccuracy

../DCU/j14may.030.dat.3g

s232t3l.dat.digi3G

Average: 28.246872192973

Stdev : 8.162457466125

Max : 83.707717895508

Min : 18.420673370361

SNAPAccuracyLite

../DCU/j14may.030.dat.3g

s232t3l.dat.digi3G 50.0

Average: 27.339489050287

Stdev : 4.143154621124

Max : 43.322616577148

Min : 18.420673370361

SNAPAccuracy

../DCU/g14may.030.dat.1j

s232t3l.dat.digi1J

Average: 16.005681595822

Stdev : 11.789810180664

Max : 30.009000778198

Min : 5.635000228882

SNAPAccuracy

../DCU/g14may.030.dat.2j

s232t3l.dat.digi2J

Average: 26.154642799393

Stdev : 8.002829551697

Max : 83.694519042969

Min : 16.482587814331

SNAPAccuracyLite
../DCU/g14may.030.dat.2j
s232t3l.dat.digi2J 50.0
Average: 25.235989858108
Stdev : 3.602236747742
Max : 37.946060180664
Min : 16.482587814331

SNAPAccuracy
../DCU/g14may.030.dat.3j
s232t3l.dat.digi3J
Average: 27.428572460016
Stdev : 5.765800476074
Max : 86.836929321289
Min : 17.055908203125

SNAPAccuracyLite
../DCU/g14may.030.dat.3j
s232t3l.dat.digi3J 50.0
Average: 27.018783853835
Stdev : 3.587842226028
Max : 38.255680084229
Min : 17.055908203125

SNAPAccuracy
../DCU/g14may.030.dat.1g
s232t3l.dat.digi1G
Average: 5.845945389874
Stdev : 0.101214185357
Max : 6.038000106812
Min : 5.635000228882

SNAPAccuracy
../DCU/g14may.030.dat.2g
s232t3l.dat.digi2G
Average: 14.202304692632
Stdev : 2.819746017456
Max : 26.870477676392
Min : 9.379276275635

SNAPAccuracy
../DCU/g14may.030.dat.3g
s232t3l.dat.digi3G
Average: 15.731646681406
Stdev : 2.777794122696
Max : 26.870477676392
Min : 9.812332153320

7.2.31 Stats.031

/usr1/figd/DIS2.2/dis_lite3.stats
Frames : 503
Average: 0.00181088
Maximum: 0.012471
2nd Max: 0.011384
Minimum: 0.000782

RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.
stats
Frames : 503
Average: 0.00175401
Maximum: 0.011186
2nd Max: 0.00603
Minimum: 0.000692
RateErr: 0

/sg16/usr1/nets/GATEWA
Y/gateway_lite2.stats
Frames : 503
Average: 0.0064538
Maximum: 0.030451
2nd Max: 0.017993
Minimum: 0.000197

/sg16/usr1/nets/GATEWA
Y/gateway_lite1.stats
Frames : 503
Average: 0.00659594
Maximum: 0.02175
2nd Max: 0.021355
Minimum: 0.000395

/sg16/usr1/nets/DISNET/di
snet7.stats
PDUs : 1412
Count : 922
Average: 1573.92
Maximum: 3367
2nd Max: 3367
Minimum: -111111

Frames : 214509
Average: 0.000241057
Maximum: 0.014039
2nd Max: 0.013742
Minimum: 9.5e-05

PDUs from Net1: 1403
PDUs from Net2: 1412

PDU Buffer 1
-- Stats from
CircularBuffer --
NumPass: 1403
Average: 0.0460767
Variance: 0.000101837
Maximum: 0.085717
2nd Max: 0.085026
Minimum: 0.015523
-- End Stats from
CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --
NumPass: 1412
Average: 0.0461157
Variance: 0.000101656
Maximum: 0.079587
2nd Max: 0.071579
Minimum: 0.013544
-- End Stats from CircularBuffer --

SNAPPdus.pl
Average: 0.097735
Maximum: 3.244259
Minimum: 0.003059
Variance: 0.012757
Std Dev : 0.112946

SNAPTimes.pl s242t3l.dat
Sel-J Tss avg.:
0.00099876095591608306
Sel-J Tns avg.:
0.00040471713137265621
Sel-J Tnr avg.:
0.001287816733062041
Sel-J Trs avg.:
0.00040097609549608689
Sel-J NIU avg.:
0.0017086593622635804
Sel-J Nius avg.:
0.00040471713137265621
Sel-J Niur avg.:
0.001287816733062041
Sel-J Tgs avg.:
0.0025664940239006812
Sel-J Tgr avg.:
0.0017751633472308382

DCUAccuracy j14may.031.dat.g
g14may.031.dat.ownship
Average: 18.576134883968
Stdev : 18.716020584106
Max : 90.913299560547
Min : 0.209117189050

DCUAccuracyLite j14may.031.dat.g
g14may.031.dat.ownship 70.0
Average: 12.758071825529
Stdev : 1.251543760300
Max : 25.552766799927
Min : 0.209117189050

DCUAccuracy g14may.031.dat.j
j14may.031.dat.ownship
Average: 17.513071249487
Stdev : 16.237827301025
Max : 77.825897216797
Min : 9.564558029175

DCUAccuracyLite g14may.031.dat.j
j14may.031.dat.ownship 70.0

Average: 13.158452976181
Stdev : 1.202984094620
Max : 25.972347259521
Min : 9.564558029175

SNAPAccuracy
../DCU/j14may.031.dat.1j
s242t3l.dat.digi1J
Average: 14.164856139323
Stdev : 2.578699111938
Max : 30.655679702759
Min : 9.099686622620

SNAPAccuracy
../DCU/j14may.031.dat.2j
s242t3l.dat.digi2J
Average: 15.305056926950
Stdev : 2.640662431717
Max : 32.710716247559
Min : 10.101528167725

SNAPAccuracy
../DCU/j14may.031.dat.3j
s242t3l.dat.digi3J
Average: 16.146789149739
Stdev : 2.857686281204
Max : 33.688190460205
Min : 11.541846275330

SNAPAccuracy
../DCU/j14may.031.dat.1g
s242t3l.dat.digi1G
Average: 27.057103864986
Stdev : 8.102226257324
Max : 83.696517944336
Min : 16.162992477417

SNAPAccuracyLite
../DCU/j14may.031.dat.1g
s242t3l.dat.digi1G 50.0
Average: 26.086610280397
Stdev : 4.007351875305
Max : 39.845664978027

SNAPAccuracy
../DCU/j14may.031.dat.2g
s242t3l.dat.digi2G
Average: 28.008454675811
Stdev : 7.769081592560
Max : 83.696517944336
Min : 16.758136749268

SNAPAccuracyLite
../DCU/j14may.031.dat.2g
s242t3l.dat.digi2G 50.0
Average: 27.201486670625
Stdev : 3.967911720276
Max : 42.828765869141
Min : 16.758136749268

SNAPAccuracy
../DCU/j14may.031.dat.3g
s242t3l.dat.digi3G
Average:
28.896565321486
Stdev : 8.454629898071
Max : 83.787994384766
Min : 17.815122604370

SNAPAccuracyLite
../DCU/j14may.031.dat.3g
s242t3l.dat.digi3G 50.0
Average:
27.881828815421
Stdev : 4.035892486572
Max : 41.286331176758
Min : 17.815122604370

SNAPAccuracy
../DCU/g14may.031.dat.1j
s242t3l.dat.digi1J
Average:
26.547343960367
Stdev : 5.350012779236
Max : 83.736152648926
Min : 16.106178283691

SNAPAccuracyLite
../DCU/g14may.031.dat.1j
s242t3l.dat.digi1J 50.0
Average:
26.343035361346
Stdev : 4.296329498291
Max : 41.710067749023
Min : 16.106178283691

SNAPAccuracy
../DCU/g14may.031.dat.2j
s242t3l.dat.digi2J
Average:
27.313774398963
Stdev : 4.010496139526
Max : 41.813247680664
Min : 16.378652572632

SNAPAccuracy
../DCU/g14may.031.dat.3j
s242t3l.dat.digi3J
Average:
28.120401115656
Stdev : 5.251849651337
Max : 83.736152648926
Min : 19.405469894409

SNAPAccuracyLite
../DCU/g14may.031.dat.3j
s242t3l.dat.digi3J 50.0

Average: 27.894987446207
Stdev : 3.938760757446
Max : 41.913909912109
Min : 19.405469894409

SNAPAccuracy
../DCU/g14may.031.dat.1g
s242t3l.dat.digi1G
Average: 14.343544750866
Stdev : 2.691408634186
Max : 31.041625976562
Min : 9.224370002747

SNAPAccuracy
../DCU/g14may.031.dat.2g
s242t3l.dat.digi2G
Average: 15.478609334535
Stdev : 2.770312547684
Max : 33.051311492920
Min : 10.189666748047

SNAPAccuracy
../DCU/g14may.031.dat.3g
s242t3l.dat.digi3G
Average: 16.318760096667
Stdev : 2.982353448868
Max : 33.967319488525
Min : 11.609789848328

7.3 15 May 97 Data

7.3.1 Stats.001

/usr1/figd/DIS2.2/dis4.stats

Frames : 503

Average: 0.00105508

Maximum: 0.006426

2nd Max: 0.001187

Minimum: 0.000387

RateErr: 0

/usr1/figd/DIS2.2/dis3.stats

Frames : 503

Average: 0.00110736

Maximum: 0.00692

2nd Max: 0.001286

Minimum: 0.000387

RateErr: 0

/sg16/usr1/nets/DISNET/disnet7.stats

PDUs : 28

Count : 28

Average: 1996.69

Maximum: 3367

2nd Max: 2531.65

Minimum: 919.118

Frames : 306395

Average: 0.000207852

Maximum: 0.010297

2nd Max: 0.010198

Minimum: 8.9e-05

PDUs from Net1: 16

PDUs from Net2: 28

PDU Buffer 1

-- Stats from CircularBuffer --

NumPass: 16

Average: 0.0453177

Variance: 7.70725e-05

Maximum: 0.062582

2nd Max: 0.062187

Minimum: 0.032625

-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --

NumPass: 28

Average: 0.0432328

Variance: 0.000105418

Maximum: 0.064758

2nd Max: 0.062878

Minimum: 0.02699

-- End Stats from

CircularBuffer --

SNAPPdus.pl

Average: 0.048162

Maximum: 0.069412

Minimum: 0.033015

Variance: 0.000097

Std Dev : 0.009838

SNAPTtimes.pl

Sel-J Tss avg.:

0.001340487077523247

Sel-J Tns avg.:

0.0003879622266503795

Sel-J Tnr avg.:

0.0006230596419855226

Sel-J Trs avg.:

0.00048395825053112042

Sel-J NIU avg.:

0.0010479920475946686

Sel-J Tgs avg.: 0

Sel-J Tgr avg.: 0

DCUAccuracy

j15may.001.dat.g

g15may.001.dat.ownship

Average:

14.526470299690

Stdev : 0.992989242077

Max : 16.346832275391

Min : 12.788065910339

DCUAccuracy

g15may.001.dat.j

j15may.001.dat.ownship

Average:

13.575931044299

Stdev : 0.310518503189

Max : 14.154398918152

Min : 13.040795326233

SNAPAccuracy

../DCU/j15may.001.dat.1j

e211t3.dat.digi1J

Comparing:

../DCU/j15may.001.dat.1j

with e211t3.dat.digi1J

Average: 5.730520925369

Stdev : 0.109280966222

Max : 5.967000007629

Min : 5.521999835968

SNAPAccuracy

../DCU/j15may.001.dat.2j

e211t3.dat.digi2J

Comparing: ../DCU/j15may.001.dat.2j

with e211t3.dat.digi2J

Average: 6.057292670131

Stdev : 0.108867906034

Max : 6.267270088196

Min : 5.847000122070

SNAPAccuracy

../DCU/j15may.001.dat.3j

e211t3.dat.digi3J

Comparing: ../DCU/j15may.001.dat.3j

with e211t3.dat.digi3J

Average: 6.411652204023

Stdev : 0.109245590866

Max : 6.649000167847

Min : 6.203999996185

SNAPAccuracy

../DCU/j15may.001.dat.1g

e211t3.dat.digi1G

Comparing: ../DCU/j15may.001.dat.1g

with e211t3.dat.digi1G

Average: 5.727391172801

Stdev : 0.109005086124

Max : 5.967000007629

Min : 5.493999958038

SNAPAccuracy

../DCU/j15may.001.dat.2g

e211t3.dat.digi2G

Comparing: ../DCU/j15may.001.dat.2g

with e211t3.dat.digi2G

Average: 6.083714130425

Stdev : 0.108975961804

Max : 6.322999954224

Min : 5.849999904633

SNAPAccuracy

../DCU/j15may.001.dat.3g

e211t3.dat.digi3G

Comparing: ../DCU/j15may.001.dat.3g

with e211t3.dat.digi3G

Average: 6.428062145527

Stdev : 0.107021443546

Max : 6.649000167847

Min : 6.232000350952

SNAPAccuracy

../DCU/g15may.001.dat.1j

e211t3.dat.digi1J

Comparing: ../DCU/g15may.001.dat.1j

with e211t3.dat.digi1J

Average: 5.818967338484

Stdev : 0.106516085565

Max : 6.043000221252

Min : 5.610000133514

SNAPAccuracy
 ../DCU/g15may.001.dat.2j
 e211t3.dat.digi2J
 Comparing: ../DCU/g15may.001.dat.2j
 with e211t3.dat.digi2J
 Average: 6.115685712075
 Stdev : 0.106515392661
 Max : 6.339999675751
 Min : 5.906000137329

SNAPAccuracy
 ../DCU/g15may.001.dat.3j
 e211t3.dat.digi3J
 Comparing: ../DCU/g15may.001.dat.3j
 with e211t3.dat.digi3J
 Average: 6.481865975351
 Stdev : 0.109201371670
 Max : 6.724999904633
 Min : 6.255000114441

SNAPAccuracy
 ../DCU/g15may.001.dat.1g
 e211t3.dat.digi1G
 Comparing: ../DCU/g15may.001.dat.1g
 with e211t3.dat.digi1G
 Average: 5.803419274020
 Stdev : 0.109860412776
 Max : 6.043000221252
 Min : 5.572999954224

SNAPAccuracy
 ../DCU/g15may.001.dat.2g
 e211t3.dat.digi2G
 Comparing: ../DCU/g15may.001.dat.2g
 with e211t3.dat.digi2G
 Average: 6.159739251118
 Stdev : 0.109817475080
 Max : 6.399000167847
 Min : 5.928999900818

SNAPAccuracy
 ../DCU/g15may.001.dat.3g
 e211t3.dat.digi3G
 Comparing: ../DCU/g15may.001.dat.3g
 with e211t3.dat.digi3G
 Average: 6.484570154703
 Stdev : 0.109886050224
 Max : 6.724999904633
 Min : 6.255000114441

7.3.2 Stats.002

/usr1/figd/DIS2.2/dis4.stats
 Frames : 503

Average: 0.00139593
 Maximum: 0.007317
 2nd Max: 0.001384
 Minimum: 0.000593
 RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
 Frames : 503
 Average: 0.00160903
 Maximum: 0.00791
 2nd Max: 0.001087
 Minimum: 0.000494
 RateErr: 0

/sg16/usr1/nets/DISNET/di
 snet7.stats
 PDUs : 494
 Count : 483
 Average: 1994.03
 Maximum: 3389.83
 2nd Max: 3378.38
 Minimum: -302.297

Frames : 243576
 Average: 0.000453869
 Maximum: 60
 2nd Max: 0.010298
 Minimum: 1.9e-05

PDUs from Net1: 484
 PDUs from Net2: 494

PDU Buffer 1
 -- Stats from
 CircularBuffer --
 NumPass: 484
 Average: 0.0456349
 Variance: 0.000104206
 Maximum: 0.0785
 2nd Max: 0.053585
 Minimum: 0.01048

-- End Stats from
 CircularBuffer --

PDU Buffer 2
 -- Stats from
 CircularBuffer --
 NumPass: 494
 Average: 0.0451301
 Variance: 0.000101864
 Maximum: 0.075138
 2nd Max: 0.07405
 Minimum: 0.015522

-- End Stats from
 CircularBuffer --

SNAPPdus.pl
 Average: 0.049332
 Maximum: 0.084476

Minimum: 0.013358
 Variance: 0.000104
 Std Dev : 0.010217

SNAPTimes.pl
 Sel-J Tss avg.:
 0.0013461928427649641
 Sel-J Tns avg.:
 0.0003832962226423955
 Sel-J Tnr avg.:
 0.0011302027831670586
 Sel-J Trs avg.:
 0.0003060775347957554
 Sel-J NIU avg.:
 0.0015453061629307761
 Sel-J Tgs avg.: 0
 Sel-J Tgr avg.: 0

DCUAccuracy j15may.002.dat.g
 g15may.002.dat.ownship
 Average: 14.239819555513
 Stdev : 1.946671724319
 Max : 21.947957992554
 Min : 0.232693552971

DCUAccuracy g15may.002.dat.j
 j15may.002.dat.ownship
 Average: 13.460712668366
 Stdev : 1.587593555450
 Max : 20.341011047363
 Min : 0.131381124258

SNAPAccuracy
 ../DCU/j15may.002.dat.1j
 e221t3.dat.digi1J
 Comparing: ../DCU/j15may.002.dat.1j
 with e221t3.dat.digi1J
 Average: 5.728082271723
 Stdev : 0.226231828332
 Max : 5.959000110626
 Min : 2.628999948502

SNAPAccuracy
 ../DCU/j15may.002.dat.2j
 e221t3.dat.digi2J
 Comparing: ../DCU/j15may.002.dat.2j
 with e221t3.dat.digi2J
 Average: 6.099453646644
 Stdev : 0.224284395576
 Max : 6.330999851227
 Min : 3.015000104904

SNAPAccuracy
 ../DCU/j15may.002.dat.3j
 e221t3.dat.digi3J
 Comparing: ../DCU/j15may.002.dat.3j
 with e221t3.dat.digi3J
 Average: 14.653271478197
 Stdev : 2.926210880280

Max : 18.932235717773
Min : 9.380626678467

SNAPAccuracy

../DCU/j15may.002.dat.1g
e221t3.dat.digi1G
Comparing: ../DCU/j15may.002.dat.1g
with e221t3.dat.digi1G
Average: 5.665983446155
Stdev : 0.608929812908
Max : 5.959000110626
Min : 0.074000000954

SNAPAccuracy

../DCU/j15may.002.dat.2g
e221t3.dat.digi2G
Comparing: ../DCU/j15may.002.dat.2g
with e221t3.dat.digi2G
Average: 6.023270145392
Stdev : 0.676889836788
Max : 6.330999851227
Min : 0.265000015497

SNAPAccuracy

../DCU/j15may.002.dat.3g
e221t3.dat.digi3G
Comparing: ../DCU/j15may.002.dat.3g
with e221t3.dat.digi3G
Average: 20.464463164167
Stdev : 3.111106157303
Max : 29.896411895752
Min : 11.163173675537

SNAPAccuracy

../DCU/g15may.002.dat.1j
e221t3.dat.digi1J
Comparing: ../DCU/g15may.002.dat.1j
with e221t3.dat.digi1J
Average: 5.739741924829
Stdev : 0.668464303017
Max : 8.597000122070
Min : 0.002000000095

SNAPAccuracy

../DCU/g15may.002.dat.2j
e221t3.dat.digi2J
Comparing: ../DCU/g15may.002.dat.2j
with e221t3.dat.digi2J
Average: 6.109851371368
Stdev : 0.672380268574
Max : 8.982000350952
Min : 0.342000007629

SNAPAccuracy

../DCU/g15may.002.dat.3j
e221t3.dat.digi3J
Comparing: ../DCU/g15may.002.dat.3j
with e221t3.dat.digi3J
Average: 20.671783672116

Stdev : 3.135610342026
Max : 29.951704025269
Min : 9.978733062744

SNAPAccuracy

../DCU/g15may.002.dat.1g
e221t3.dat.digi1G
Comparing:
../DCU/g15may.002.dat.1g
with e221t3.dat.digi1G
Average: 5.814942117171
Stdev : 0.208095297217
Max : 8.597000122070
Min : 3.026000022888

SNAPAccuracy

../DCU/g15may.002.dat.2g
e221t3.dat.digi2G
Comparing:
../DCU/g15may.002.dat.2g
with e221t3.dat.digi2G
Average: 6.174138993747
Stdev : 0.334098726511
Max : 8.982000350952
Min : 0.354000002146

SNAPAccuracy

../DCU/g15may.002.dat.3g
e221t3.dat.digi3G
Comparing:
../DCU/g15may.002.dat.3g
with e221t3.dat.digi3G
Average:
14.913529721655
Stdev : 2.886618614197
Max : 21.587764739990
Min : 8.036425590515

7.3.3 Stats.03

/usr1/figd/DIS2.2/dis4.stats
Frames : 502
Average: 0.00174744
Maximum: 0.006525
2nd Max: 0.001483
Minimum: 0.00089
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
Frames : 500
Average: 0.0019255
Maximum: 0.011483
2nd Max: 0.007514
Minimum: 0.000889

RateErr: 0

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 939
Count : 897
Average: 2073.75
Maximum: 5050.51
2nd Max: 3401.36
Minimum: -664.011

Frames : 219189
Average: 0.000209053
Maximum: 0.01089
2nd Max: 0.010297
Minimum: 8.8e-05

PDUs from Net1: 935
PDUs from Net2: 939

PDU Buffer 1

-- Stats from CircularBuffer --
NumPass: 935
Average: 0.0454275
Variance: 9.76532e-05
Maximum: 0.074842
2nd Max: 0.07189
Minimum: 0.013643
-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --
NumPass: 939
Average: 0.045239
Variance: 9.9745e-05
Maximum: 0.075138
2nd Max: 0.06891
Minimum: 0.015819
-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.051213
Maximum: 0.812371
Minimum: 0.002943
Variance: 0.000425
Std Dev : 0.020623

SNAPTtimes.pl

Sel-J Tss avg.:
0.0013243419482573131
Sel-J Tns avg.:
0.00035274950290403365
Sel-J Tnr avg.:
0.0014149423460216885
Sel-J Trs avg.:
0.00040845924458213272
Sel-J NIU avg.:
0.0018219642146609938
Sel-J Tgs avg.: 0
Sel-J Tgr avg.: 0

DCUAccuracy j15may.003.dat.g
g15may.003.dat.ownship
Average: 14.511405666589
Stdev : 0.963613033295
Max : 16.197570800781
Min : 12.760227203369

DCUAccuracy g15may.003.dat.j
j15may.003.dat.ownship
Average: 13.556924193136
Stdev : 0.316394686699
Max : 14.154499053955
Min : 13.061047554016

SNAPAccuracy
../DCU/j15may.003.dat.1j
e231t3.dat.digi1J
Comparing: ../DCU/j15may.003.dat.1j
with e231t3.dat.digi1J
Average: 5.754130598525
Stdev : 0.108093626797
Max : 5.970580101013
Min : 5.544000148773

SNAPAccuracy
../DCU/j15may.003.dat.2j
e231t3.dat.digi2J
Comparing: ../DCU/j15may.003.dat.2j
with e231t3.dat.digi2J
Average: 13.539687586502
Stdev : 2.722505569458
Max : 17.684467315674
Min : 9.181105613708

SNAPAccuracy
../DCU/j15may.003.dat.3j
e231t3.dat.digi3J
Comparing: ../DCU/j15may.003.dat.3j
with e231t3.dat.digi3J
Average: 15.446123798608
Stdev : 2.633305072784
Max : 19.587667465210
Min : 9.961161613464

SNAPAccuracy
../DCU/j15may.003.dat.1g
e231t3.dat.digi1G
Comparing: ../DCU/j15may.003.dat.1g
with e231t3.dat.digi1G
Average: 5.753102462800
Stdev : 0.105702891946
Max : 5.941999912262
Min : 5.559999942780

SNAPAccuracy
../DCU/j15may.003.dat.2g
e231t3.dat.digi2G

Comparing: ../DCU/j15may.003.dat.2g
with e231t3.dat.digi2G
Average:
19.573718576779
Stdev : 2.719421386719
Max : 29.813547134399
Min : 13.107870101929

SNAPAccuracy
../DCU/j15may.003.dat.3g
e231t3.dat.digi3G
Comparing:
../DCU/j15may.003.dat.3g
with e231t3.dat.digi3G
Average:
21.152152009233
Stdev : 2.904633760452
Max : 30.067607879639
Min : 13.839692115784

SNAPAccuracy
../DCU/g15may.003.dat.1j
e231t3.dat.digi1J
Comparing:
../DCU/g15may.003.dat.1j
with e231t3.dat.digi1J
Average: 5.825546002533
Stdev : 0.107332102954
Max : 6.026000022888
Min : 5.607999801636

SNAPAccuracy
../DCU/g15may.003.dat.2j
e231t3.dat.digi2J
Comparing:
../DCU/g15may.003.dat.2j
with e231t3.dat.digi2J
Average:
19.758325455405
Stdev : 2.616721391678
Max : 29.702327728271
Min : 13.186768531799

SNAPAccuracy
../DCU/g15may.003.dat.3j
e231t3.dat.digi3J
Comparing:
../DCU/g15may.003.dat.3j
with e231t3.dat.digi3J
Average:
21.145178673238
Stdev : 2.783846378326
Max : 30.071254730225
Min : 13.949705123901

SNAPAccuracy
../DCU/g15may.003.dat.1g
e231t3.dat.digi1G

Comparing: ../DCU/g15may.003.dat.1g
with e231t3.dat.digi1G
Average: 5.828502009332
Stdev : 0.108160868287
Max : 6.029000282288
Min : 5.607999801636

SNAPAccuracy
../DCU/g15may.003.dat.2g
e231t3.dat.digi2G
Comparing: ../DCU/g15may.003.dat.2g
with e231t3.dat.digi2G
Average: 13.697120762447
Stdev : 2.757194042206
Max : 17.927053451538
Min : 9.338016510010

SNAPAccuracy
../DCU/g15may.003.dat.3g
e231t3.dat.digi3G
Comparing: ../DCU/g15may.003.dat.3g
with e231t3.dat.digi3G
Average: 15.640199853141
Stdev : 2.656384468079
Max : 19.878501892090
Min : 10.270707130432

7.3.4 Stats.004

/usr1/figd/DIS2.2/dis4.stats
Frames : 503
Average: 0.00223404
Maximum: 0.006426
2nd Max: 0.001582
Minimum: 0.000494
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
Frames : 503
Average: 0.00223536
Maximum: 0.006426
2nd Max: 0.002373
Minimum: 0.00079
RateErr: 0

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 1411
Count : 1257
Average: 1877.46
Maximum: 10752.7
2nd Max: 3378.38
Minimum: -142857

Frames : 254305

Average: 0.000211889
Maximum: 0.01089
2nd Max: 0.010593
Minimum: 1.9e-05

PDUs from Net1: 1394
PDUs from Net2: 1411

PDU Buffer 1

-- Stats from CircularBuffer --
NumPass: 1394
Average: 0.0454887
Variance: 0.000102942
Maximum: 0.080393
2nd Max: 0.066635
Minimum: 0.010678
-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --
NumPass: 1411
Average: 0.0451505
Variance: 0.000105951
Maximum: 0.08018
2nd Max: 0.075435
Minimum: 9.9e-05
-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.050641
Maximum: 0.310394
Minimum: 0.000020
Variance: 0.000691
Std Dev : 0.026280

SNAPTtimes.pl

Sel-J Tss avg.:
0.0012789025844048632
Sel-J Tns avg.:
0.00034966003978020876
Sel-J Tnr avg.: 0.00178743538779538
Sel-J Trs avg.:
0.0001839542745012664
Sel-J NIU avg.:
0.0021722803182092684
Sel-J Tgs avg.: 0
Sel-J Tgr avg.: 0

DCUAccuracy j15may.004.dat.g
g15may.004.dat.ownship
Average: 14.888702436712
Stdev : 1.790763378143
Max : 20.834081649780
Min : 12.785066604614

DCUAccuracy g15may.004.dat.j
j15may.004.dat.ownship
Average: 13.655835424288
Stdev : 1.161049127579

Max : 27.100774765015
Min : 7.995439052582

SNAPAccuracy

../DCU/j15may.004.dat.1j
e241t3.dat.digi1J
Comparing:
../DCU/j15may.004.dat.1j
with e241t3.dat.digi1J
Average:
13.263716516956
Stdev : 2.672438859940
Max : 17.274042129517
Min : 9.047160148621

SNAPAccuracy

../DCU/j15may.004.dat.2j
e241t3.dat.digi2J
Comparing:
../DCU/j15may.004.dat.2j
with e241t3.dat.digi2J
Average:
14.207835028248
Stdev : 2.845453500748
Max : 18.425121307373
Min : 9.644261360168

SNAPAccuracy

../DCU/j15may.004.dat.3j
e241t3.dat.digi3J
Comparing:
../DCU/j15may.004.dat.3j
with e241t3.dat.digi3J
Average:
15.864430579447

Stdev : 2.918635368347
Max : 24.804031372070
Min : 10.276943206787

SNAPAccuracy

../DCU/j15may.004.dat.1g
e241t3.dat.digi1G
Comparing:
../DCU/j15may.004.dat.1g
with e241t3.dat.digi1G
Average:
19.245103487862

Stdev : 2.589310646057
Max : 25.764287948608
Min : 13.024482727051

SNAPAccuracy

../DCU/j15may.004.dat.2g
e241t3.dat.digi2G
Comparing:
../DCU/j15may.004.dat.2g
with e241t3.dat.digi2G
Average:
20.064802581834

Stdev : 2.593877792358
Max : 26.125074386597
Min : 13.057620048523

SNAPAccuracy

../DCU/j15may.004.dat.3g
e241t3.dat.digi3G
Comparing: ../DCU/j15may.004.dat.3g
with e241t3.dat.digi3G
Average: 21.215910340903
Stdev : 2.847209692001
Max : 30.202976226807
Min : 11.529566764832

SNAPAccuracy

../DCU/g15may.004.dat.1j
e241t3.dat.digi1J
Comparing: ../DCU/g15may.004.dat.1j
with e241t3.dat.digi1J
Average: 19.539988219253
Stdev : 2.844403982162
Max : 35.484878540039
Min : 11.412705421448

SNAPAccuracy

../DCU/g15may.004.dat.2j
e241t3.dat.digi2J
Comparing: ../DCU/g15may.004.dat.2j
with e241t3.dat.digi2J
Average: 20.186706722871
Stdev : 2.911539554596
Max : 36.436870574951
Min : 13.593011856079

SNAPAccuracy

../DCU/g15may.004.dat.3j
e241t3.dat.digi3J
Comparing: ../DCU/g15may.004.dat.3j
with e241t3.dat.digi3J
Average: 21.473732795793
Stdev : 3.182025194168
Max : 37.272525787354
Min : 13.882781982422

SNAPAccuracy

../DCU/g15may.004.dat.1g
e241t3.dat.digi1G
Comparing: ../DCU/g15may.004.dat.1g
with e241t3.dat.digi1G
Average: 13.472604507400
Stdev : 2.972241878510
Max : 31.701377868652
Min : 8.484454154968

SNAPAccuracy

../DCU/g15may.004.dat.2g
e241t3.dat.digi2G
Comparing: ../DCU/g15may.004.dat.2g
with e241t3.dat.digi2G

Average: 14.419600184887
Stdev : 3.137582302094
Max : 32.756851196289
Min : 9.285559654236

SNAPAccuracy

../DCU/g15may.004.dat.3g
e241t3.dat.digi3G
Comparing: ../DCU/g15may.004.dat.3g
with e241t3.dat.digi3G
Average: 16.196194723729
Stdev : 3.168177843094
Max : 33.666336059570
Min : 9.957441329956

7.3.5 Stats.005

(No Stats.005 data file was taken)

7.3.6 Stats.006

/usr1/figd/DIS2.2/dis_lite3.stats
Frames : 500
Average: 0.00111539
Maximum: 0.006427
2nd Max: 0.002966
Minimum: 0.000186
RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.stats
Frames : 501
Average: 0.00112899
Maximum: 0.00613
2nd Max: 0.005933
Minimum: 0.000186
RateErr: 0

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 33
Count : 33
Average: 1989.19
Maximum: 3367
2nd Max: 2024.29
Minimum: 1011.12

Frames : 340740
Average: 0.000204228
Maximum: 0.010198
2nd Max: 0.010198
Minimum: 8.8e-05

PDUs from Net1: 20
PDUs from Net2: 33

PDU Buffer 1
-- Stats from
CircularBuffer --
NumPass: 20
Average: 0.0443811
Variance: 6.28944e-05
Maximum: 0.061989
2nd Max: 0.060606
Minimum: 0.032033
-- End Stats from
CircularBuffer --

PDU Buffer 2
-- Stats from
CircularBuffer --
NumPass: 33
Average: 0.0453138
Variance: 0.000108124
Maximum: 0.064164
2nd Max: 0.059419
Minimum: 0.019081
-- End Stats from
CircularBuffer --

SNAPPdus.pl
Average: 0.061261
Maximum: 0.466594
Minimum: 0.004370
Variance: 0.005109
Std Dev : 0.071476

SNAPTtimes.pl
Sel-J Tss avg.:
0.0013448151095246546
Sel-J Tns avg.:
0.000356499006012737
Sel-J Tnr avg.:
0.0006329145129436995
Sel-J Trs avg.:
0.00018556063610745158
Sel-J NIU avg.:
0.0010255864811480272
Sel-J Tgs avg.: 0
Sel-J Tgr avg.: 0

DCUAccuracy
j15may.006.dat.g
g15may.006.dat.ownship
Average:
22.070795532196
Stdev : 16.417076110840
Max : 60.772888183594
Min : 9.387167930603

DCUAccuracy g15may.006.dat.j
j15may.006.dat.ownship
Average: 25.147368734883
Stdev : 18.087919235229
Max : 54.908569335938
Min : 13.174493789673

SNAPAccuracy
../DCU/j15may.006.dat.1j
e211t3l.dat.digi1J
Comparing: ../DCU/j15may.006.dat.1j
with e211t3l.dat.digi1J
Average: 5.797015753178
Stdev : 0.155003666878
Max : 6.026000022888
Min : 3.345000028610

SNAPAccuracy
../DCU/j15may.006.dat.2j
e211t3l.dat.digi2J
Comparing: ../DCU/j15may.006.dat.2j
with e211t3l.dat.digi2J
Average: 5.797015753178
Stdev : 0.155003666878
Max : 6.026000022888
Min : 3.345000028610

SNAPAccuracy
../DCU/j15may.006.dat.3j
e211t3l.dat.digi3J
Comparing: ../DCU/j15may.006.dat.3j
with e211t3l.dat.digi3J
Average: 8.764128878622
Stdev : 3.027103900909
Max : 12.046999931335
Min : 5.586999893188

SNAPAccuracy
../DCU/j15may.006.dat.1g
e211t3l.dat.digi1G
Comparing: ../DCU/j15may.006.dat.1g
with e211t3l.dat.digi1G
Average: 26.828367163637
Stdev : 3.042198181152
Max : 30.022500991821
Min : 18.000000000000

SNAPAccuracy
../DCU/j15may.006.dat.2g
e211t3l.dat.digi2G
Comparing: ../DCU/j15may.006.dat.2g
with e211t3l.dat.digi2G
Average: 20.747588875328
Stdev : 2.983207702637
Max : 24.000000000000
Min : 17.617000579834

SNAPAccuracy
 ../DCU/j15may.006.dat.3g
 e211t3l.dat.digi3G
 Comparing: ../DCU/j15may.006.dat.3g
 with e211t3l.dat.digi3G
 Average: 26.760535399119
 Stdev : 3.012795925140
 Max : 30.031000137329
 Min : 23.607999801636

SNAPAccuracy
 ../DCU/g15may.006.dat.1j
 e211t3l.dat.digi1J
 Comparing: ../DCU/g15may.006.dat.1j
 with e211t3l.dat.digi1J
 Average: 20.752118097116
 Stdev : 3.001052618027
 Max : 24.025999069214
 Min : 17.611000061035

SNAPAccuracy
 ../DCU/g15may.006.dat.2j
 e211t3l.dat.digi2J
 Comparing: ../DCU/g15may.006.dat.2j
 with e211t3l.dat.digi2J
 Average: 23.817684835159
 Stdev : 0.107877530158
 Max : 24.026399612427
 Min : 23.597000122070

SNAPAccuracy
 ../DCU/g15may.006.dat.3j
 e211t3l.dat.digi3J
 Comparing: ../DCU/g15may.006.dat.3j
 with e211t3l.dat.digi3J
 Average: 20.752118097116
 Stdev : 3.001052618027
 Max : 24.025999069214
 Min : 17.611000061035

SNAPAccuracy
 ../DCU/g15may.006.dat.1g
 e211t3l.dat.digi1G
 Comparing: ../DCU/g15may.006.dat.1g
 with e211t3l.dat.digi1G
 Average: 5.801883840079
 Stdev : 0.107925787568
 Max : 6.021999835968
 Min : 5.593999862671

SNAPAccuracy
 ../DCU/g15may.006.dat.2g
 e211t3l.dat.digi2G
 Comparing: ../DCU/g15may.006.dat.2g
 with e211t3l.dat.digi2G
 Average: 5.801883840079
 Stdev : 0.107925787568
 Max : 6.021999835968
 Min : 5.593999862671

SNAPAccuracy
 ../DCU/g15may.006.dat.3g
 e211t3l.dat.digi3G
 Comparing:
 ../DCU/g15may.006.dat.3g
 with e211t3l.dat.digi3G
 Average: 8.769051510397
 Stdev : 3.015309572220
 Max : 12.043000221252
 Min : 5.598999977112

7.3.7 Stats.007

/usr1/figd/DIS2.2/dis_lite3.
 stats
 Frames : 502
 Average: 0.00147687
 Maximum: 0.011088
 2nd Max: 0.006624
 Minimum: 0.000395
 RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.
 stats
 Frames : 500
 Average: 0.00134681
 Maximum: 0.011384
 2nd Max: 0.011285
 Minimum: 0.000495
 RateErr: 0

/sg16/usr1/nets/DISNET/di
 snet7.stats
 PDUs : 494
 Count : 486
 Average: 2014.38
 Maximum: 3424.66
 2nd Max: 3378.38
 Minimum: -108.589

Frames : 303295
 Average: 0.000206045
 Maximum: 0.010296
 2nd Max: 0.010198
 Minimum: 8.8e-05

PDUs from Net1: 477
 PDUs from Net2: 494

PDU Buffer 1
 -- Stats from
 CircularBuffer --
 NumPass: 477

Average: 0.0449666
 Variance: 0.000105231
 Maximum: 0.075929
 2nd Max: 0.070294
 Minimum: 0.012753
 -- End Stats from CircularBuffer --

PDU Buffer 2
 -- Stats from CircularBuffer --
 NumPass: 494
 Average: 0.0449275
 Variance: 0.000105007
 Maximum: 0.07761
 2nd Max: 0.069799
 Minimum: 0.015027
 -- End Stats from CircularBuffer --

SNAPPdus.pl
 Average: 0.085240
 Maximum: 2.994469
 Minimum: 0.000017
 Variance: 0.022315
 Std Dev : 0.149382

SNAPTtimes.pl
 Sel-J Tss avg.:
 0.0012818230617351442
 Sel-J Tns avg.:
 0.00041509741533000976
 Sel-J Tnr avg.:
 0.00089756063622826153
 Sel-J Trs avg.:
 0.00018255467188767218
 Sel-J NIU avg.:
 0.0014151610337659738
 Sel-J Tgs avg.: 0
 Sel-J Tgr avg.: 0

DCUAccuracy j15may.007.dat.g
 g15may.007.dat.ownship
 Average: 22.924140325219
 Stdev : 17.669275283813
 Max : 65.360191345215
 Min : 12.886663436890

DCUAccuracy g15may.007.dat.j
 j15may.007.dat.ownship
 Average: 25.116035099952
 Stdev : 18.132219314575
 Max : 54.960552215576
 Min : 13.202637672424

SNAPAccuracy
 ../DCU/j15may.007.dat.1j
 e221t3l.dat.digi1J
 Comparing: ../DCU/j15may.007.dat.1j
 with e221t3l.dat.digi1J
 Average: 5.817775928057
 Stdev : 0.108817897737
 Max : 6.036299705505

Min : 5.618000030518

SNAPAccuracy

../DCU/j15may.007.dat.2j

e221t3l.dat.digi2J

Comparing: ../DCU/j15may.007.dat.2j

with e221t3l.dat.digi2J

Average: 5.817775928057

Stdev : 0.108817897737

Max : 6.036299705505

Min : 5.618000030518

SNAPAccuracy

../DCU/j15may.007.dat.3j

e221t3l.dat.digi3J

Comparing: ../DCU/j15may.007.dat.3j

with e221t3l.dat.digi3J

Average: 14.285560104046

Stdev : 2.674010753632

Max : 18.757400512695

Min : 9.419964790344

SNAPAccuracy

../DCU/j15may.007.dat.1g

e221t3l.dat.digi1G

Comparing: ../DCU/j15may.007.dat.1g

with e221t3l.dat.digi1G

Average: 20.854266926918

Stdev : 3.006431341171

Max : 24.039899826050

Min : 17.629999160767

SNAPAccuracy

../DCU/j15may.007.dat.2g

e221t3l.dat.digi2G

Comparing: ../DCU/j15may.007.dat.2g

with e221t3l.dat.digi2G

Average: 26.873094104215

Stdev : 3.011200666428

Max : 30.039899826050

Min : 23.621999740601

SNAPAccuracy

../DCU/j15may.007.dat.3g

e221t3l.dat.digi3G

Comparing: ../DCU/j15may.007.dat.3g

with e221t3l.dat.digi3G

Average: 20.839243567087

Stdev : 6.198485374451

Max : 66.989456176758

Min : 13.335025787354

SNAPAccuracy

../DCU/g15may.007.dat.1j

e221t3l.dat.digi1J

Comparing: ../DCU/g15may.007.dat.1j

with e221t3l.dat.digi1J

Average: 23.786895122645

Stdev : 0.107544563711

Max : 24.000000000000

Min : 23.576000213623

SNAPAccuracy

../DCU/g15may.007.dat.2j

e221t3l.dat.digi2J

Comparing:

../DCU/g15may.007.dat.2j

with e221t3l.dat.digi2J

Average:

23.786895122645

Stdev : 0.107544563711

Max : 24.000000000000

Min : 23.576000213623

SNAPAccuracy

../DCU/g15may.007.dat.3j

e221t3l.dat.digi3J

Comparing:

../DCU/g15may.007.dat.3j

with e221t3l.dat.digi3J

Average:

20.816248721224

Stdev : 7.730781078339

Max : 83.515548706055

Min : 13.284584045410

SNAPAccuracy

../DCU/g15may.007.dat.1g

e221t3l.dat.digi1G

Comparing:

../DCU/g15may.007.dat.1g

with e221t3l.dat.digi1G

Average: 5.816544537602

Stdev : 0.108311779797

Max : 6.026400089264

Min : 5.602999687195

SNAPAccuracy

../DCU/g15may.007.dat.2g

e221t3l.dat.digi2G

Comparing:

../DCU/g15may.007.dat.2g

with e221t3l.dat.digi2G

Average: 5.816544537602

Stdev : 0.108311779797

Max : 6.026400089264

Min : 5.602999687195

SNAPAccuracy

../DCU/g15may.007.dat.3g

e221t3l.dat.digi3G

Comparing:

../DCU/g15may.007.dat.3g

with e221t3l.dat.digi3G

Average:

15.154154233122

Stdev : 2.587110996246

Max : 26.745962142944

Min : 9.544189453125

7.3.8 Stats.008

/usr1/figd/DIS2.2/dis_lite3.stats

Frames : 503

Average: 0.00169293

Maximum: 0.005636

2nd Max: 0.001581

Minimum: 0.000989

RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.stats

Frames : 503

Average: 0.00162744

Maximum: 0.004745

2nd Max: 0.001285

Minimum: 0.000889

RateErr: 0

/sg16/usr1/nets/DISNET/disnet7.stats

PDUs : 950

Count : 907

Average: 2119.27

Maximum: 5076.14

2nd Max: 5050.51

Minimum: -664.011

Frames : 288847

Average: 0.000207448

Maximum: 0.01079

2nd Max: 0.010677

Minimum: 8.9e-05

PDUs from Net1: 936

PDUs from Net2: 950

PDU Buffer 1

-- Stats from CircularBuffer --

NumPass: 936

Average: 0.0451774

Variance: 0.000101901

Maximum: 0.076918

2nd Max: 0.075929

Minimum: 0.012854

-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --

NumPass: 950

Average: 0.0454933

Variance: 0.000103076

Maximum: 0.072172

2nd Max: 0.071481
Minimum: 0.012754
-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.059201
Maximum: 1.787644
Minimum: 0.000006
Variance: 0.007652
Std Dev : 0.087479

SNAPTtimes.pl

Sel-J Tss avg.:
0.0012830000000694077
Sel-J Tns avg.:
0.00038308747517253749
Sel-J Tnr avg.:
0.0012127316102694958
Sel-J Trs avg.:
0.0004025288270756317
Sel-J NIU avg.:
0.0016323916500822638
Sel-J Tgs avg.: 0
Sel-J Tgr avg.: 0

DCUAccuracy j15may.008.dat.g
g15may.008.dat.ownership
Average: 21.405374173195
Stdev : 15.651482582092
Max : 60.562931060791
Min : 12.885663986206

DCUAccuracy g15may.008.dat.j
j15may.008.dat.ownership
Average: 23.897885501385
Stdev : 17.552316665649
Max : 54.817867279053
Min : 13.085317611694

SNAPAccuracy

../DCU/j15may.008.dat.1j
e231t3l.dat.digi1J
Comparing: ../DCU/j15may.008.dat.1j
with e231t3l.dat.digi1J
Average: 5.817065200575
Stdev : 0.108650363982
Max : 6.043499946594
Min : 5.611000061035

SNAPAccuracy

../DCU/j15may.008.dat.2j
e231t3l.dat.digi2J
Comparing: ../DCU/j15may.008.dat.2j
with e231t3l.dat.digi2J
Average: 13.556842349185
Stdev : 2.702134847641
Max : 17.972913742065
Min : 9.181145668030

SNAPAccuracy

../DCU/j15may.008.dat.3j
e231t3l.dat.digi3J
Comparing:
../DCU/j15may.008.dat.3j
with e231t3l.dat.digi3J
Average:
15.593626361977
Stdev : 3.339934349060
Max : 33.621288299561
Min : 10.023968696594

SNAPAccuracy

../DCU/j15may.008.dat.1g
e231t3l.dat.digi1G
Comparing:
../DCU/j15may.008.dat.1g
with e231t3l.dat.digi1G
Average:
23.844281013566
Stdev : 5.992016315460
Max : 30.017400741577
Min : 17.624000549316

SNAPAccuracy

../DCU/j15may.008.dat.2g
e231t3l.dat.digi2G
Comparing:
../DCU/j15may.008.dat.2g
with e231t3l.dat.digi2G
Average:
20.551697582669
Stdev : 6.027653217316
Max : 66.862792968750
Min : 13.118022918701

SNAPAccuracy

../DCU/j15may.008.dat.3g
e231t3l.dat.digi3G
Comparing:
../DCU/j15may.008.dat.3g
with e231t3l.dat.digi3G
Average:
21.955009545392
Stdev : 6.890682697296
Max : 83.539367675781
Min : 14.077318191528

SNAPAccuracy

../DCU/g15may.008.dat.1j
e231t3l.dat.digi1J
Comparing:
../DCU/g15may.008.dat.1j
with e231t3l.dat.digi1J
Average:
26.833000591548
Stdev : 3.021643400192
Max : 30.005100250244
Min : 18.000000000000

SNAPAccuracy

../DCU/g15may.008.dat.2j
e231t3l.dat.digi2J
Comparing: ../DCU/g15may.008.dat.2j
with e231t3l.dat.digi2J
Average: 20.506352836917
Stdev : 6.281029701233
Max : 66.920265197754
Min : 11.584857940674

SNAPAccuracy

../DCU/g15may.008.dat.3j
e231t3l.dat.digi3J
Comparing: ../DCU/g15may.008.dat.3j
with e231t3l.dat.digi3J
Average: 22.031778995807
Stdev : 6.184450149536
Max : 66.995758056641
Min : 13.914773941040

SNAPAccuracy

../DCU/g15may.008.dat.1g
e231t3l.dat.digi1G
Comparing: ../DCU/g15may.008.dat.1g
with e231t3l.dat.digi1G
Average: 5.829002816912
Stdev : 0.108036793768
Max : 6.068000316620
Min : 5.610000133514

SNAPAccuracy

../DCU/g15may.008.dat.2g
e231t3l.dat.digi2G
Comparing: ../DCU/g15may.008.dat.2g
with e231t3l.dat.digi2G
Average: 13.719395338170
Stdev : 2.731099843979
Max : 18.052045822144
Min : 9.305132865906

SNAPAccuracy

../DCU/g15may.008.dat.3g
e231t3l.dat.digi3G
Comparing: ../DCU/g15may.008.dat.3g
with e231t3l.dat.digi3G
Average: 15.598008031097
Stdev : 2.628740072250
Max : 26.745962142944
Min : 9.999383926392

7.3.9 Stats.009

/usr1/figd/DIS2.2/dis_lite3.stats

Frames : 502
Average: 0.00187257
Maximum: 0.006129
2nd Max: 0.003163
Minimum: 0.000593
RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.stats

Frames : 501
Average: 0.00181647
Maximum: 0.006328
2nd Max: 0.002768
Minimum: 0.000494
RateErr: 0

/sg16/usr1/nets/DISNET/disnet7.stats

PDU's : 1415
Count : 1112
Average: 2017.43
Maximum: 3401.36
2nd Max: 3378.38
Minimum: -9259.26

Frames : 333805
Average: 0.000209815
Maximum: 0.01305
2nd Max: 0.011468
Minimum: 7.9e-05

PDU's from Net1: 1406
PDU's from Net2: 1415

PDU Buffer 1

-- Stats from CircularBuffer --
NumPass: 1406
Average: 0.0460138
Variance: 9.62197e-05
Maximum: 0.076028
2nd Max: 0.075435
Minimum: 0.014928
-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --
NumPass: 1415
Average: 0.0449067
Variance: 9.8063e-05
Maximum: 0.077328
2nd Max: 0.075435
Minimum: 0.014533
-- End Stats from CircularBuffer --

SNAPPdus.pl
Average: 0.051719
Maximum: 0.523460
Minimum: 0.000009
Variance: 0.000895
Std Dev : 0.029909

SNAPTimes.pl
Sel-J Tss avg.:
0.0013231689859518159
Sel-J Tns avg.:
0.00035020477147370199
Sel-J Tnr avg.:
0.0013751312126947112
Sel-J Trs avg.:
0.0001820119285267948
Sel-J NIU avg.:
0.0017585387675852606
Sel-J Tgs avg.: 0
Sel-J Tgr avg.: 0

DCUAccuracy
j15may.009.dat.g
g15may.009.dat.ownship
Average:
25.365288722876
Stdev : 22.624711990356
Max : 77.944610595703
Min : 9.386178970337

DCUAccuracy
g15may.009.dat.j
j15may.009.dat.ownship
Average:
28.482561269433
Stdev : 24.166830062866
Max : 78.862915039062
Min : 10.093287467957

SNAPAccuracy
../DCU/j15may.009.dat.1j
e241t3l.dat.digi1J
Comparing:
../DCU/j15may.009.dat.1j
with e241t3l.dat.digi1J
Average:
13.745130442415
Stdev : 3.184179067612
Max : 33.780338287354
Min : 9.047160148621

SNAPAccuracy
../DCU/j15may.009.dat.2j
e241t3l.dat.digi2J
Comparing:
../DCU/j15may.009.dat.2j
with e241t3l.dat.digi2J
Average:
14.681793824864
Stdev : 3.294211149216
Max : 34.974098205566
Min : 9.643389701843

SNAPAccuracy
../DCU/j15may.009.dat.3j
e241t3l.dat.digi3J

Comparing: ../DCU/j15may.009.dat.3j
with e241t3l.dat.digi3J
Average: 16.066821640802
Stdev : 3.096422910690
Max : 36.012325286865
Min : 10.407088279724

SNAPAccuracy
../DCU/j15may.009.dat.1g
e241t3l.dat.digi1G
Comparing: ../DCU/j15may.009.dat.1g
with e241t3l.dat.digi1G
Average: 20.594209232951
Stdev : 6.256250858307
Max : 83.489646911621
Min : 13.104102134705

SNAPAccuracy
../DCU/j15may.009.dat.2g
e241t3l.dat.digi2G
Comparing: ../DCU/j15may.009.dat.2g
with e241t3l.dat.digi2G
Average: 21.239936612577
Stdev : 7.021228790283
Max : 83.539611816406
Min : 13.444418907166

SNAPAccuracy
../DCU/j15may.009.dat.3g
e241t3l.dat.digi3G
Comparing: ../DCU/j15may.009.dat.3g
with e241t3l.dat.digi3G
Average: 22.710014634608
Stdev : 7.985307216644
Max : 83.707717895508
Min : 12.316145896912

SNAPAccuracy
../DCU/g15may.009.dat.1j
e241t3l.dat.digi1J
Comparing: ../DCU/g15may.009.dat.1j
with e241t3l.dat.digi1J
Average: 21.049834243650
Stdev : 7.512876510620
Max : 83.680305480957
Min : 13.099409103394

SNAPAccuracy
../DCU/g15may.009.dat.2j
e241t3l.dat.digi2J
Comparing: ../DCU/g15may.009.dat.2j
with e241t3l.dat.digi2J
Average: 21.428270425254
Stdev : 4.923634052277
Max : 54.359687805176
Min : 13.562582969666

SNAPAccuracy
 ../DCU/g15may.009.dat.3j
 e241t3l.dat.digi3J
 Comparing: ../DCU/g15may.009.dat.3j
 with e241t3l.dat.digi3J
 Average: 22.613146973819
 Stdev : 5.149258136749
 Max : 54.359943389893
 Min : 13.903475761414

SNAPAccuracy
 ../DCU/g15may.009.dat.1g
 e241t3l.dat.digi1G
 Comparing: ../DCU/g15may.009.dat.1g
 with e241t3l.dat.digi1G
 Average: 13.857319426440
 Stdev : 2.993654966354
 Max : 33.943874359131
 Min : 9.170610427856

SNAPAccuracy
 ../DCU/g15may.009.dat.2g
 e241t3l.dat.digi2G
 Comparing: ../DCU/g15may.009.dat.2g
 with e241t3l.dat.digi2G
 Average: 14.797997762317
 Stdev : 3.136909484863
 Max : 35.137210845947
 Min : 9.770715713501

SNAPAccuracy
 ../DCU/g15may.009.dat.3g
 e241t3l.dat.digi3G
 Comparing: ../DCU/g15may.009.dat.3g
 with e241t3l.dat.digi3G
 Average: 16.145774903085
 Stdev : 2.934475421906
 Max : 36.172256469727
 Min : 10.611288070679

7.3.10 Stats.010

/usr1/figd/DIS2.2/dis4.stats
 Frames : 503
 Average: 0.001083
 Maximum: 0.007316
 2nd Max: 0.001483
 Minimum: 0.000396
 RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
 Frames : 503
 Average: 0.00110305
 Maximum: 0.006822

2nd Max: 0.002075
 Minimum: 0.000495
 RateErr: 0

/sg16/usr1/nets/DISNET/di
 snet7.stats
 PDUs : 25
 Count : 24
 Average: 1759.73
 Maximum: 2525.25
 2nd Max: 1686.34
 Minimum: 94.3931

Frames : 450796
 Average: 0.000203845
 Maximum: 0.010297
 2nd Max: 0.010198
 Minimum: 8.8e-05

PDUs from Net1: 16
 PDUs from Net2: 25

PDU Buffer 1
 -- Stats from
 CircularBuffer --
 NumPass: 16
 Average: 0.0438657
 Variance: 8.01897e-05
 Maximum: 0.06268
 2nd Max: 0
 Minimum: 0.027386
 -- End Stats from
 CircularBuffer --

PDU Buffer 2
 -- Stats from
 CircularBuffer --
 NumPass: 25
 Average: 0.0455457
 Variance: 5.83464e-05
 Maximum: 0.055959
 2nd Max: 0.053487
 Minimum: 0.031044
 -- End Stats from
 CircularBuffer --

SNAPPdus.pl
 Average: 0.047985
 Maximum: 0.068263
 Minimum: 0.031094
 Variance: 0.000066
 Std Dev : 0.008114

SNAPTtimes.pl
 Sel-J Tss avg.:
 0.0013484831014833234
 Sel-J Tns avg.:
 0.00034104373765621933

Sel-J Tnr avg.:
 0.0006639502980634311
 Sel-J Trs avg.:
 0.0001837574552768234
 Sel-J NIU avg.:
 0.0010435248508255106
 Sel-J Tgs avg.: 0
 Sel-J Tgr avg.: 0

DCUAccuracy j15may.010.dat.g
 g15may.010.dat.ownship
 Average: 0.874673890145
 Stdev : 0.815470457077
 Max : 4.858421325684
 Min : 0.086501218379

DCUAccuracy g15may.010.dat.j
 j15may.010.dat.ownship
 Average: 1.218773922324
 Stdev : 1.021826624870
 Max : 4.849093914032
 Min : 0.061741396785

SNAPAccuracy
 ../DCU/j15may.010.dat.1j
 e211t3d.dat.digi1J
 Comparing: ../DCU/j15may.010.dat.1j
 with e211t3d.dat.digi1J
 Average: 0.242493737677
 Stdev : 0.106850676239
 Max : 0.465999990702
 Min : 0.029839999974

SNAPAccuracy
 ../DCU/j15may.010.dat.2j
 e211t3d.dat.digi2J
 Comparing: ../DCU/j15may.010.dat.2j
 with e211t3d.dat.digi2J
 Average: 0.119250061118
 Stdev : 0.084471203387
 Max : 0.326220005751
 Min : 0.000000000000

SNAPAccuracy
 ../DCU/j15may.010.dat.3j
 e211t3d.dat.digi3J
 Comparing: ../DCU/j15may.010.dat.3j
 with e211t3d.dat.digi3J
 Average: 0.380015798319
 Stdev : 0.110325969756
 Max : 0.622439980507
 Min : 0.164000004530

SNAPAccuracy
 ../DCU/j15may.010.dat.1g
 e211t3d.dat.digi1G
 Comparing: ../DCU/j15may.010.dat.1g
 with e211t3d.dat.digi1G
 Average: 0.245891829589

Stdev : 0.106287524104
Max : 0.465999990702
Min : 0.032000001520

SNAPAccuracy

../DCU/j15may.010.dat.2g
e211t3d.dat.digi2G
Comparing: ../DCU/j15may.010.dat.2g
with e211t3d.dat.digi2G
Average: 0.117041098049
Stdev : 0.082828044891
Max : 0.307020008564
Min : 0.000000000000

SNAPAccuracy

../DCU/j15may.010.dat.3g
e211t3d.dat.digi3G
Comparing: ../DCU/j15may.010.dat.3g
with e211t3d.dat.digi3G
Average: 0.377438232091
Stdev : 0.109449900687
Max : 0.603229999542
Min : 0.164000004530

SNAPAccuracy

../DCU/g15may.010.dat.1j
e211t3d.dat.digi1J
Comparing: ../DCU/g15may.010.dat.1j
with e211t3d.dat.digi1J
Average: 0.169355371970
Stdev : 0.103287279606
Max : 0.372999995947
Min : 0.000000000000

SNAPAccuracy

../DCU/g15may.010.dat.2j
e211t3d.dat.digi2J
Comparing: ../DCU/g15may.010.dat.2j
with e211t3d.dat.digi2J
Average: 0.170255528754
Stdev : 0.105421081185
Max : 0.411720007658
Min : 0.000000000000

SNAPAccuracy

../DCU/g15may.010.dat.3j
e211t3d.dat.digi3J
Comparing: ../DCU/g15may.010.dat.3j
with e211t3d.dat.digi3J
Average: 0.451675336211
Stdev : 0.110576480627
Max : 0.707939982414
Min : 0.219999998808

SNAPAccuracy

../DCU/g15may.010.dat.1g
e211t3d.dat.digi1G
Comparing: ../DCU/g15may.010.dat.1g
with e211t3d.dat.digi1G

Average: 0.169962606602
Stdev : 0.105761036277
Max : 0.3930000006676
Min : 0.000000000000

SNAPAccuracy

../DCU/g15may.010.dat.2g
e211t3d.dat.digi2G
Comparing:
../DCU/g15may.010.dat.2g
with e211t3d.dat.digi2G
Average: 0.173995717556
Stdev : 0.106187559664
Max : 0.411720007658
Min : 0.000000000000

SNAPAccuracy

../DCU/g15may.010.dat.3g
e211t3d.dat.digi3G
Comparing:
../DCU/g15may.010.dat.3g
with e211t3d.dat.digi3G
Average: 0.453779637934
Stdev : 0.110889509320
Max : 0.707939982414
Min : 0.219999998808

7.3.11 Stats.011

../usr1/figd/DIS2.2/dis4.stats
Frames : 503
Average: 0.00156867
Maximum: 0.007118
2nd Max: 0.001582
Minimum: 0.00079
RateErr: 0

../usr1/figd/DIS2.2/dis3.stats
Frames : 503
Average: 0.00151186
Maximum: 0.007217
2nd Max: 0.007118
Minimum: 0.000285
RateErr: 0

../sg16/usr1/nets/DISNET/di
snet7.stats
PDUs : 485
Count : 480
Average: 1842.15
Maximum: 5181.35
2nd Max: 3378.38
Minimum: -311.624

Frames : 168907
Average: 0.000209664
Maximum: 0.010198
2nd Max: 0.010098
Minimum: 9e-05

PDUs from Net1: 477
PDUs from Net2: 485

PDU Buffer 1

-- Stats from CircularBuffer --
NumPass: 477
Average: 0.0448736
Variance: 0.000101036
Maximum: 0.072073
2nd Max: 0.065648
Minimum: 0.010974
-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --
NumPass: 485
Average: 0.0450578
Variance: 0.000106579
Maximum: 0.073358
2nd Max: 0.068218
Minimum: 0.017301
-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.048872
Maximum: 0.080538
Minimum: 0.015442
Variance: 0.000107
Std Dev : 0.010347

SNAPTtimes.pl

Sel-J Tss avg.:
0.0013341908548975031
Sel-J Tns avg.:
0.00035752286268298644
Sel-J Tnr avg.:
0.001044469184851923
Sel-J Trs avg.:
0.00062427833005387857
Sel-J NIU avg.:
0.001443872763300833
Sel-J Tgs avg.: 0
Sel-J Tgr avg.: 0

DCUAccuracy j15may.011.dat.g
g15may.011.dat.ownship
Average: 0.866732631510
Stdev : 0.761998772621
Max : 4.650048732758
Min : 0.067719966173

DCUAccuracy g15may.011.dat.j
j15may.011.dat.ownship

Average: 1.226110312937
Stdev : 1.016256570816
Max : 4.848155498505
Min : 0.087664134800

SNAPAccuracy

../DCU/j15may.011.dat.1j
e221t3d.dat.digi1J
Comparing: ../DCU/j15may.011.dat.1j
with e221t3d.dat.digi1J
Average: 0.264022088449
Stdev : 0.107503578067
Max : 0.469000011683
Min : 0.064999997616

SNAPAccuracy

../DCU/j15may.011.dat.2j
e221t3d.dat.digi2J
Comparing: ../DCU/j15may.011.dat.2j
with e221t3d.dat.digi2J
Average: 0.117866204742
Stdev : 0.082747422159
Max : 0.313840001822
Min : 0.001000000047

SNAPAccuracy

../DCU/j15may.011.dat.3j
e221t3d.dat.digi3J
Comparing: ../DCU/j15may.011.dat.3j
with e221t3d.dat.digi3J
Average: 6.943955271598
Stdev : 2.535121679306
Max : 10.200250625610
Min : 1.060795903206

SNAPAccuracy

../DCU/j15may.011.dat.1g
e221t3d.dat.digi1G
Comparing: ../DCU/j15may.011.dat.1g
with e221t3d.dat.digi1G
Average: 0.267405858651
Stdev : 0.106913305819
Max : 0.469000011683
Min : 0.064999997616

SNAPAccuracy

../DCU/j15may.011.dat.2g
e221t3d.dat.digi2G
Comparing: ../DCU/j15may.011.dat.2g
with e221t3d.dat.digi2G
Average: 0.122256270295
Stdev : 0.086427204311
Max : 0.313840001822
Min : 0.000000000000

SNAPAccuracy

../DCU/j15may.011.dat.3g
e221t3d.dat.digi3G

Comparing:

../DCU/j15may.011.dat.3g
with e221t3d.dat.digi3G
Average:
16.671630256259
Stdev : 4.174486160278
Max : 29.367958068848
Min : 2.446295261383

SNAPAccuracy

../DCU/g15may.011.dat.1j
e221t3d.dat.digi1J
Comparing:
../DCU/g15may.011.dat.1j
with e221t3d.dat.digi1J
Average: 0.188767347451
Stdev : 0.106645204127
Max : 0.386000007391
Min : 0.004999999888

SNAPAccuracy

../DCU/g15may.011.dat.2j
e221t3d.dat.digi2J
Comparing:
../DCU/g15may.011.dat.2j
with e221t3d.dat.digi2J
Average: 0.167170485114
Stdev : 0.106052078307
Max : 0.392140001059
Min : 0.001000000047

SNAPAccuracy

../DCU/g15may.011.dat.3j
e221t3d.dat.digi3J
Comparing:
../DCU/g15may.011.dat.3j
with e221t3d.dat.digi3J
Average:
16.426415697734
Stdev : 4.393938064575
Max : 27.912736892700
Min : 2.821816682816

SNAPAccuracy

../DCU/g15may.011.dat.1g
e221t3d.dat.digi1G
Comparing:
../DCU/g15may.011.dat.1g
with e221t3d.dat.digi1G
Average: 0.189322490575
Stdev : 0.108394451439
Max : 0.398000001907
Min : 0.000000000000

SNAPAccuracy

../DCU/g15may.011.dat.2g
e221t3d.dat.digi2G

Comparing: ../DCU/g15may.011.dat.2g
with e221t3d.dat.digi2G
Average: 0.182741124696
Stdev : 0.108005411923
Max : 0.392140001059
Min : 0.001000000047

SNAPAccuracy

../DCU/g15may.011.dat.3g
e221t3d.dat.digi3G
Comparing: ../DCU/g15may.011.dat.3g
with e221t3d.dat.digi3G
Average: 6.828101347728
Stdev : 2.523530244827
Max : 10.176090240479
Min : 1.197994947433

7.3.12 Stats.012

/usr1/figd/DIS2.2/dis4.stats
Frames : 503
Average: 0.00188031
Maximum: 0.00613
2nd Max: 0.002373
Minimum: 0.000593
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
Frames : 503
Average: 0.00199935
Maximum: 0.006822
2nd Max: 0.002768
Minimum: 0.000692
RateErr: 0

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 945
Count : 901
Average: 2061.1
Maximum: 3378.38
2nd Max: 3378.38
Minimum: -3278.69

Frames : 147296
Average: 0.000216479
Maximum: 0.010692
2nd Max: 0.010296
Minimum: 1.9e-05

PDUs from Net1: 933
PDUs from Net2: 945

PDU Buffer 1

— Stats from CircularBuffer —

NumPass: 933
Average: 0.0454829
Variance: 0.000101297
Maximum: 0.076227
2nd Max: 0.056552
Minimum: 0.012754
-- End Stats from CircularBuffer --

PDU Buffer 2
-- Stats from CircularBuffer --
NumPass: 945
Average: 0.0450671
Variance: 0.000104442
Maximum: 0.075731
2nd Max: 0.073358
Minimum: 0.015621
-- End Stats from CircularBuffer --

SNAPPdus.pl
Average: 0.049184
Maximum: 0.080050
Minimum: 0.017326
Variance: 0.000106
Std Dev : 0.010309

SNAPTimes.pl
Sel-J Tss avg.:
0.0013473260438570311
Sel-J Tns avg.:
0.00036111729631580462
Sel-J Tnr avg.:
0.0015429204773377936
Sel-J Trs avg.:
0.00018552683890824044
Sel-J NIU avg.:
0.0019378349903096568
Sel-J Tgs avg.: 0
Sel-J Tgr avg.: 0

DCUAccuracy j15may.012.dat.g
g15may.012.dat.ownship
Average: 0.892890747141
Stdev : 1.080400347710
Max : 7.990213394165
Min : 0.103305600584

DCUAccuracy g15may.012.dat.j
j15may.012.dat.ownship
Average: 1.207610929107
Stdev : 1.695465326309
Max : 20.102064132690
Min : 0.057245086879

SNAPAccuracy
../DCU/j15may.012.dat.1j
e231t3d.dat.digi1J
Comparing: ../DCU/j15may.012.dat.1j
with e231t3d.dat.digi1J
Average: 1.469821032144

Stdev : 1.276580214500
Max : 3.233199834824
Min : 0.041999999434

SNAPAccuracy
../DCU/j15may.012.dat.2j
e231t3d.dat.digi2J
Comparing:
../DCU/j15may.012.dat.2j
with e231t3d.dat.digi2J
Average: 4.550588108434
Stdev : 1.233619093895
Max : 9.985651016235
Min : 0.687811732292

SNAPAccuracy
../DCU/j15may.012.dat.3j
e231t3d.dat.digi3J
Comparing:
../DCU/j15may.012.dat.3j
with e231t3d.dat.digi3J
Average: 7.131442994542
Stdev : 2.227188825607
Max : 11.963094711304
Min : 1.830416917801

SNAPAccuracy
../DCU/j15may.012.dat.1g
e231t3d.dat.digi1G
Comparing:
../DCU/j15may.012.dat.1g
with e231t3d.dat.digi1G
Average: 2.201083873032
Stdev : 1.033768057823
Max : 2.905999898911
Min : 0.041999999434

SNAPAccuracy
../DCU/j15may.012.dat.2g
e231t3d.dat.digi2G
Comparing:
../DCU/j15may.012.dat.2g
with e231t3d.dat.digi2G
Average:
16.017851504369
Stdev : 4.332407474518
Max : 29.683980941772
Min : 2.302090883255

SNAPAccuracy
../DCU/j15may.012.dat.3g
e231t3d.dat.digi3G
Comparing:
../DCU/j15may.012.dat.3g
with e231t3d.dat.digi3G
Average:
16.777667237491
Stdev : 4.482458591461
Max : 30.248441696167

Min : 2.836808919907

SNAPAccuracy
../DCU/g15may.012.dat.1j
e231t3d.dat.digi1J
Comparing: ../DCU/g15may.012.dat.1j
with e231t3d.dat.digi1J
Average: 2.248739555297
Stdev : 1.087664365768
Max : 2.990999937057
Min : 0.001000000047

SNAPAccuracy
../DCU/g15may.012.dat.2j
e231t3d.dat.digi2J
Comparing: ../DCU/g15may.012.dat.2j
with e231t3d.dat.digi2J
Average: 16.185641761718
Stdev : 4.379088401794
Max : 29.267658233643
Min : 2.348482370377

SNAPAccuracy
../DCU/g15may.012.dat.3j
e231t3d.dat.digi3J
Comparing: ../DCU/g15may.012.dat.3j
with e231t3d.dat.digi3J
Average: 16.945570199470
Stdev : 4.497604846954
Max : 28.870948791504
Min : 2.947739839554

SNAPAccuracy
../DCU/g15may.012.dat.1g
e231t3d.dat.digi1G
Comparing: ../DCU/g15may.012.dat.1g
with e231t3d.dat.digi1G
Average: 1.464774771692
Stdev : 1.346540331841
Max : 3.213999986649
Min : 0.000000000000

SNAPAccuracy
../DCU/g15may.012.dat.2g
e231t3d.dat.digi2G
Comparing: ../DCU/g15may.012.dat.2g
with e231t3d.dat.digi2G
Average: 4.524287112554
Stdev : 1.233391523361
Max : 10.001490592957
Min : 0.784314990044

SNAPAccuracy
../DCU/g15may.012.dat.3g
e231t3d.dat.digi3G
Comparing: ../DCU/g15may.012.dat.3g
with e231t3d.dat.digi3G
Average: 7.327353690610
Stdev : 2.100413322449

Max : 10.083305358887
Min : 1.952453017235

2nd Max: 0.076819
Minimum: 0.012753
-- End Stats from
CircularBuffer --

SNAPPdus.pl
Average: 0.048304
Maximum: 0.082135
Minimum: 0.010752
Variance: 0.000106
Std Dev : 0.010272

SNAPTtimes.pl
Sel-J Tss avg.:
0.0013643001988001315
Sel-J Tns avg.:
0.00030619284300034992
Sel-J Tnr avg.:
0.001864111331832724
Sel-J Trs avg.:
0.00018457455256392358
Sel-J NIU avg.:
0.0021619721668518737
Sel-J Tgs avg.: 0
Sel-J Tgr avg.: 0

DCUAccuracy
j15may.013.dat.g
g15may.013.dat.ownship
Average: 0.786387872657
Stddev : 0.887728095055
Max : 4.858408451080
Min : 0.091292992234

DCUAccuracy
g15may.013.dat.j
j15may.013.dat.ownship
Average: 1.226194340683
Stddev : 1.018732547760
Max : 4.848147869110
Min : 0.067230947316

SNAPAccuracy
../DCU/j15may.013.dat.1j
e241t3d.dat.digi1J
Comparing:
../DCU/j15may.013.dat.1j
with e241t3d.dat.digi1J
Average: 4.743526920887
Stddev : 1.535892128944
Max : 10.304005622864
Min : 0.608571112156

SNAPAccuracy
../DCU/j15may.013.dat.2j
e241t3d.dat.digi2J

Comparing: ../DCU/j15may.013.dat.2j
with e241t3d.dat.digi2J
Average: 4.815393195730
Stddev : 1.679356575012
Max : 10.122037887573
Min : 1.009578585625

SNAPAccuracy
../DCU/j15may.013.dat.3j
e241t3d.dat.digi3J
Comparing: ../DCU/j15may.013.dat.3j
with e241t3d.dat.digi3J
Average: 8.138207824543
Stddev : 1.761752128601
Max : 10.053025245667
Min : 1.901496767998

SNAPAccuracy
../DCU/j15may.013.dat.1g
e241t3d.dat.digi1G
Comparing: ../DCU/j15may.013.dat.1g
with e241t3d.dat.digi1G
Average: 16.135937003101
Stddev : 4.224246025085
Max : 26.590293884277
Min : 2.223340988159

SNAPAccuracy
../DCU/j15may.013.dat.2g
e241t3d.dat.digi2G
Comparing: ../DCU/j15may.013.dat.2g
with e241t3d.dat.digi2G
Average: 16.464845210927
Stddev : 4.224516868591
Max : 29.413042068481
Min : 2.886884927750

SNAPAccuracy
../DCU/j15may.013.dat.3g
e241t3d.dat.digi3G
Comparing: ../DCU/j15may.013.dat.3g
with e241t3d.dat.digi3G
Average: 16.785519162814
Stddev : 4.444766521454
Max : 27.832967758179
Min : 2.837465524673

SNAPAccuracy
../DCU/g15may.013.dat.1j
e241t3d.dat.digi1J
Comparing: ../DCU/g15may.013.dat.1j
with e241t3d.dat.digi1J
Average: 16.077969776206
Stddev : 4.297261238098
Max : 28.515254974365
Min : 1.692706465721

7.3.13 Stats.013

/usr1/figd/DIS2.2/dis4.stats
Frames : 500
Average: 0.0022343
Maximum: 0.011483
2nd Max: 0.007119
Minimum: 0.000494
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
Frames : 500
Average: 0.0022603
Maximum: 0.011483
2nd Max: 0.006722
Minimum: 0.000495
RateErr: 0

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 1400
Count : 1246
Average: 2001.85
Maximum: 22727.3
2nd Max: 5235.6
Minimum: -9569.38

Frames : 383520
Average: 0.000208798
Maximum: 0.01089
2nd Max: 0.010198
Minimum: 8.8e-05

PDUs from Net1: 1387
PDUs from Net2: 1401

PDU Buffer 1
-- Stats from CircularBuffer --
NumPass: 1387
Average: 0.0449788
Variance: 0.000100545
Maximum: 0.078105
2nd Max: 0.0698
Minimum: 0.013842
-- End Stats from CircularBuffer --

PDU Buffer 2
-- Stats from CircularBuffer --
NumPass: 1401
Average: 0.0451932
Variance: 0.000106068
Maximum: 0.080392

SNAPAccuracy
 ../DCU/g15may.013.dat.2j
 e241t3d.dat.digi2J
 Comparing: ../DCU/g15may.013.dat.2j
 with e241t3d.dat.digi2J
 Average: 16.216703396987
 Stdev : 4.337128162384
 Max : 29.153429031372
 Min : 2.405225515366

SNAPAccuracy
 ../DCU/g15may.013.dat.3j
 e241t3d.dat.digi3J
 Comparing: ../DCU/g15may.013.dat.3j
 with e241t3d.dat.digi3J
 Average: 16.757218130220
 Stdev : 4.356190681458
 Max : 29.685075759888
 Min : 2.631009817123

SNAPAccuracy
 ../DCU/g15may.013.dat.1g
 e241t3d.dat.digi1G
 Comparing: ../DCU/g15may.013.dat.1g
 with e241t3d.dat.digi1G
 Average: 4.721996194425
 Stdev : 1.544313192368
 Max : 10.259262084961
 Min : 0.588289916515

SNAPAccuracy
 ../DCU/g15may.013.dat.2g
 e241t3d.dat.digi2G
 Comparing: ../DCU/g15may.013.dat.2g
 with e241t3d.dat.digi2G
 Average: 4.874011294529
 Stdev : 1.711018681526
 Max : 10.102996826172
 Min : 1.218243837357

SNAPAccuracy
 ../DCU/g15may.013.dat.3g
 e241t3d.dat.digi3G
 Comparing: ../DCU/g15may.013.dat.3g
 with e241t3d.dat.digi3G
 Average: 8.051314791766
 Stdev : 1.811978220940
 Max : 10.048890113831
 Min : 2.137738227844

7.3.14 Stats.014

/usr1/figd/DIS2.2/dis_lite3.stats
 Frames : 503

Average: 0.00122454
 Maximum: 0.006426
 2nd Max: 0.001977
 Minimum: 0.000593
 RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.
 stats
 Frames : 503
 Average: 0.00115535
 Maximum: 0.004053
 2nd Max: 0.001978
 Minimum: 0.000594
 RateErr: 0

/sg16/usr1/nets/DISNET/di
 snet7.stats
 PDUs : 35
 Count : 33
 Average: 1888.12
 Maximum: 3367
 2nd Max: 2538.07
 Minimum: -106.304

Frames : 348084
 Average: 0.000205432
 Maximum: 0.010198
 2nd Max: 0.010198
 Minimum: 8.8e-05

PDUs from Net1: 22
 PDUs from Net2: 35

PDU Buffer 1
 -- Stats from
 CircularBuffer --
 NumPass: 22
 Average: 0.0448942
 Variance: 8.23174e-05
 Maximum: 0.070392
 2nd Max: 0.055564
 Minimum: 0.028969

-- End Stats from
 CircularBuffer --

PDU Buffer 2
 -- Stats from
 CircularBuffer --
 NumPass: 35
 Average: 0.0503206
 Variance: 9.68028e-05
 Maximum: 0.067032
 2nd Max: 0.062103
 Minimum: 0.026594

-- End Stats from
 CircularBuffer --

SNAPPdus.pl
 Average: 0.068675

Maximum: 0.967685
 Minimum: 0.026789
 Variance: 0.015061
 Std Dev : 0.122721

SNAPTimes.pl
 Sel-J Tss avg.:
 0.0012861550696062019
 Sel-J Tns avg.:
 0.00040214512930619652
 Sel-J Tnr avg.:
 0.00071015904567164607
 Sel-J Trs avg.:
 0.0001843658052531819
 Sel-J NIU avg.:
 0.001148854870765533
 Sel-J Tgs avg.: 0
 Sel-J Tgr avg.: 0

DCUAccuracy j15may.013.dat.g
 g15may.013.dat.ownship
 Average: 0.786387872657
 Stdev : 0.887728095055
 Max : 4.858408451080
 Min : 0.091292992234

DCUAccuracy g15may.013.dat.j
 j15may.013.dat.ownship
 Average: 1.226194340683
 Stdev : 1.018732547760
 Max : 4.848147869110
 Min : 0.067230947316

SNAPAccuracy
 ../DCU/j15may.014.dat.1j
 e211t3dl.dat.digi1J
 Comparing: ../DCU/j15may.014.dat.1j
 with e211t3dl.dat.digi1J
 Average: 0.186631174597
 Stdev : 0.164391815662
 Max : 2.957400083542
 Min : 0.000000000000

SNAPAccuracy
 ../DCU/j15may.014.dat.2j
 e211t3dl.dat.digi2J
 Comparing: ../DCU/j15may.014.dat.2j
 with e211t3dl.dat.digi2J
 Average: 0.186631174597
 Stdev : 0.164391815662
 Max : 2.957400083542
 Min : 0.000000000000

SNAPAccuracy
 ../DCU/j15may.014.dat.3j
 e211t3dl.dat.digi3J
 Comparing: ../DCU/j15may.014.dat.3j
 with e211t3dl.dat.digi3J
 Average: 2.971230363327

Stdev : 2.827747821808
Max : 6.038000106812
Min : 0.000600000028

SNAPAccuracy

../DCU/j15may.014.dat.1g
e211t3dl.dat.digi1G
Comparing: ../DCU/j15may.014.dat.1g
with e211t3dl.dat.digi1G
Average: 17.820483917143
Stdev : 0.107686527073
Max : 18.027599334717
Min : 17.615999221802

SNAPAccuracy

../DCU/j15may.014.dat.2g
e211t3dl.dat.digi2G
Comparing: ../DCU/j15may.014.dat.2g
with e211t3dl.dat.digi2G
Average: 17.820848047129
Stdev : 0.107880033553
Max : 18.027599334717
Min : 17.615999221802

SNAPAccuracy

../DCU/j15may.014.dat.3g
e211t3dl.dat.digi3G
Comparing: ../DCU/j15may.014.dat.3g
with e211t3dl.dat.digi3G
Average: 23.825814712338
Stdev : 0.107175216079
Max : 24.020000457764
Min : 23.628999710083

SNAPAccuracy

../DCU/g15may.014.dat.1j
e211t3dl.dat.digi1J
Comparing: ../DCU/g15may.014.dat.1j
with e211t3dl.dat.digi1J
Average: 17.820136261760
Stdev : 0.106738992035
Max : 18.017700195312
Min : 17.598999023438

SNAPAccuracy

../DCU/g15may.014.dat.2j
e211t3dl.dat.digi2J
Comparing: ../DCU/g15may.014.dat.2j
with e211t3dl.dat.digi2J
Average: 17.819770685056
Stdev : 0.106538638473
Max : 18.017700195312
Min : 17.598999023438

SNAPAccuracy

../DCU/g15may.014.dat.3j
e211t3dl.dat.digi3J
Comparing: ../DCU/g15may.014.dat.3j
with e211t3dl.dat.digi3J

Average:
20.850561428264
Stdev : 3.020683765411
Max : 24.017700195312
Min : 12.000000000000

SNAPAccuracy

../DCU/g15may.014.dat.1g
e211t3dl.dat.digi1G
Comparing:
../DCU/g15may.014.dat.1g
with e211t3dl.dat.digi1G
Average: 0.167528282938
Stdev : 0.105441726744
Max : 0.377999991179
Min : 0.000000000000

SNAPAccuracy

../DCU/g15may.014.dat.2g
e211t3dl.dat.digi2G
Comparing:
../DCU/g15may.014.dat.2g
with e211t3dl.dat.digi2G
Average: 0.167528282938
Stdev : 0.105441726744
Max : 0.377999991179
Min : 0.000000000000

SNAPAccuracy

../DCU/g15may.014.dat.3g
e211t3dl.dat.digi3G
Comparing:
../DCU/g15may.014.dat.3g
with e211t3dl.dat.digi3G
Average: 2.959081825923
Stdev : 2.816118717194
Max : 6.005000114441
Min : 0.000000000000

7.3.15 Stats.015

/usr1/figd/DIS2.2/dis_lite3.
stats
Frames : 503
Average: 0.00147916
Maximum: 0.011483
2nd Max: 0.005537
Minimum: 0.000494
RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.
stats
Frames : 503
Average: 0.00141644
Maximum: 0.011286

2nd Max: 0.005438
Minimum: 0.000494
RateErr: 0

/sg16/usr1/nets/DISNET/disnet7.stats

PDU's : 500
Count : 488
Average: 1915.89
Maximum: 3424.66
2nd Max: 3389.83
Minimum: -710.227

Frames : 152492
Average: 0.000207904
Maximum: 0.010791
2nd Max: 0.010198
Minimum: 9.5e-05

PDU's from Net1: 484
PDU's from Net2: 500

PDU Buffer 1

-- Stats from CircularBuffer --
NumPass: 484
Average: 0.0456886
Variance: 0.000100697
Maximum: 0.077708
2nd Max: 0.073754
Minimum: 0.02096
-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --
NumPass: 500
Average: 0.0448286
Variance: 9.67233e-05
Maximum: 0.076424
2nd Max: 0.068134
Minimum: 0.005931
-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.080620
Maximum: 2.338966
Minimum: 0.000015
Variance: 0.016829
Std Dev : 0.129726

SNAPTtimes.pl

Sel-J Tss avg.:
0.0014034890655871845
Sel-J Tns avg.:
0.00039741749530456771
Sel-J Tnr avg.:
0.00098168588459013112
Sel-J Trs avg.:
0.00018536978140350701
Sel-J NIU avg.:
0.0014192007952486627

Sel-J Tgs avg.: 0
Sel-J Tgr avg.: 0

DCUAccuracy j15may.015.dat.g
g15may.015.dat.ownship
Average: 8.290723930585
Stdev : 16.061223983765
Max : 51.914707183838
Min : 0.034923259169

DCUAccuracy g15may.015.dat.j
j15may.015.dat.ownship
Average: 12.208181073679
Stdev : 17.726932525635
Max : 51.805953979492
Min : 0.077006496489

SNAPAccuracy
../DCU/j15may.015.dat.1j
e221t3dl.dat.digi1J
Comparing: ../DCU/j15may.015.dat.1j
with e221t3dl.dat.digi1J
Average: 2.567289578798
Stdev : 2.794900417328
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j15may.015.dat.2j
e221t3dl.dat.digi2J
Comparing: ../DCU/j15may.015.dat.2j
with e221t3dl.dat.digi2J
Average: 2.575697376778
Stdev : 2.787601470947
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j15may.015.dat.3j
e221t3dl.dat.digi3J
Comparing: ../DCU/j15may.015.dat.3j
with e221t3dl.dat.digi3J
Average: 8.256216615619
Stdev : 2.298949956894
Max : 33.360149383545
Min : 1.450623989105

SNAPAccuracy
../DCU/j15may.015.dat.1g
e221t3dl.dat.digi1G
Comparing: ../DCU/j15may.015.dat.1g
with e221t3dl.dat.digi1G
Average: 16.578358328760
Stdev : 4.566649913788
Max : 24.000000000000
Min : 0.063120000064

SNAPAccuracy
../DCU/j15may.015.dat.2g
e221t3dl.dat.digi2G
Comparing: ../DCU/j15may.015.dat.2g
with e221t3dl.dat.digi2G
Average: 19.137104672877
Stdev : 5.924844264984
Max : 30.000000000000
Min : 0.168200001121

SNAPAccuracy
../DCU/j15may.015.dat.3g
e221t3dl.dat.digi3G
Comparing: ../DCU/j15may.015.dat.3g
with e221t3dl.dat.digi3G
Average: 17.342467007240
Stdev : 6.297626972198
Max : 83.440536499023
Min : 2.758148193359

SNAPAccuracy
../DCU/g15may.015.dat.1j
e221t3dl.dat.digi1J
Comparing: ../DCU/g15may.015.dat.1j
with e221t3dl.dat.digi1J
Average: 19.141216889446
Stdev : 5.953764915466
Max : 30.000000000000
Min : 0.001000000047

SNAPAccuracy
../DCU/g15may.015.dat.2j
e221t3dl.dat.digi2J
Comparing: ../DCU/g15may.015.dat.2j
with e221t3dl.dat.digi2J
Average: 19.160668529388
Stdev : 5.904709815979
Max : 30.000000000000
Min : 0.238399997354

SNAPAccuracy
../DCU/g15may.015.dat.3j
e221t3dl.dat.digi3J
Comparing: ../DCU/g15may.015.dat.3j
with e221t3dl.dat.digi3J
Average: 17.408726387043
Stdev : 6.043975353241
Max : 67.480743408203
Min : 2.189434051514

SNAPAccuracy
../DCU/g15may.015.dat.1g
e221t3dl.dat.digi1G
Comparing: ../DCU/g15may.015.dat.1g
with e221t3dl.dat.digi1G
Average: 2.572141742592
Stdev : 2.822868108749
Max : 6.060999870300
Min : 0.000000000000

SNAPAccuracy
../DCU/g15may.015.dat.2g
e221t3dl.dat.digi2G
Comparing: ../DCU/g15may.015.dat.2g
with e221t3dl.dat.digi2G
Average: 2.589109940834
Stdev : 2.807713985443
Max : 6.060999870300
Min : 0.000000000000

SNAPAccuracy
../DCU/g15may.015.dat.3g
e221t3dl.dat.digi3G
Comparing: ../DCU/g15may.015.dat.3g
with e221t3dl.dat.digi3G
Average: 8.074942569742
Stdev : 2.032534837723
Max : 17.729412078857
Min : 1.528562664986

7.3.16 Stats.016

/usr1/figd/DIS2.2/dis_lite3.stats
Frames : 500
Average: 0.00173782
Maximum: 0.00613
2nd Max: 0.002077
Minimum: 0.000493
RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.stats
Frames : 501
Average: 0.0015623
Maximum: 0.006921
2nd Max: 0.001384
Minimum: 0.000493
RateErr: 0

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 956
Count : 842
Average: 2085.38
Maximum: 10526.3
2nd Max: 3378.38

Minimum: -3278.69

Frames : 220729

Average: 0.000216216

Maximum: 0.01089

2nd Max: 0.010198

Minimum: 8.9e-05

PDU's from Net1: 939

PDU's from Net2: 956

PDU Buffer 1

-- Stats from CircularBuffer --

NumPass: 939

Average: 0.0451529

Variance: 0.000104978

Maximum: 0.074941

2nd Max: 0.074447

Minimum: 0.019378

-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --

NumPass: 956

Average: 0.0453577

Variance: 9.93865e-05

Maximum: 0.079701

2nd Max: 0.07672

Minimum: 0.016807

-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.059805

Maximum: 2.283820

Minimum: 0.000015

Variance: 0.011689

Std Dev : 0.108118

SNAPTtimes.pl

Sel-J Tss avg.:

0.001325932405618247

Sel-J Tns avg.:

0.00037775745544021126

Sel-J Tnr avg.:

0.0012437693836639828

Sel-J Trs avg.:

0.00018638369788611994

Sel-J NIU avg.:

0.0016606540756516953

Sel-J Tgs avg.: 0

Sel-J Tgr avg.: 0

DCUAccuracy j15may.016.dat.g

g15may.016.dat.ownship

Average: 9.176562411335

Stdev : 16.534715652466

Max : 45.702510833740

Min : 0.032016180456

DCUAccuracy

g15may.016.dat.j

j15may.016.dat.ownship

Average:

11.968989633280

Stdev : 21.207309722900

Max : 54.727542877197

Min : 0.069028981030

SNAPAccuracy

../DCU/j15may.016.dat.1j

e231t3dl.dat.digi1J

Comparing:

../DCU/j15may.016.dat.1j

with e231t3dl.dat.digi1J

Average: 1.116094347793

Stdev : 2.115043163300

Max : 6.000000000000

Min : 0.000000000000

SNAPAccuracy

../DCU/j15may.016.dat.2j

e231t3dl.dat.digi2J

Comparing:

../DCU/j15may.016.dat.2j

with e231t3dl.dat.digi2J

Average: 5.787163657371

Stdev : 2.348792076111

Max : 23.056493759155

Min : 0.580304265022

SNAPAccuracy

../DCU/j15may.016.dat.3j

e231t3dl.dat.digi3J

Comparing:

../DCU/j15may.016.dat.3j

with e231t3dl.dat.digi3J

Average: 7.983751814052

Stdev : 2.078298807144

Max : 23.056474685669

Min : 0.580304265022

SNAPAccuracy

../DCU/j15may.016.dat.1g

e231t3dl.dat.digi1G

Comparing:

../DCU/j15may.016.dat.1g

with e231t3dl.dat.digi1G

Average: 8.006736522846

Stdev : 5.464716911316

Max : 12.027600288391

Min : 0.048000000417

SNAPAccuracy

../DCU/j15may.016.dat.2g

e231t3dl.dat.digi2G

Comparing:

../DCU/j15may.016.dat.2g

with e231t3dl.dat.digi2G

Average: 17.450192554002

Stdev : 6.099874019623

Max : 50.369430541992

Min : 3.206861495972

SNAPAccuracy

../DCU/j15may.016.dat.3g

e231t3dl.dat.digi3G

Comparing: ../DCU/j15may.016.dat.3g

with e231t3dl.dat.digi3G

Average: 17.838384454197

Stdev : 5.821475505829

Max : 50.270069122314

Min : 2.919278144836

SNAPAccuracy

../DCU/g15may.016.dat.1j

e231t3dl.dat.digi1J

Comparing: ../DCU/g15may.016.dat.1j

with e231t3dl.dat.digi1J

Average: 12.990788456796

Stdev : 9.217350959778

Max : 24.067998886108

Min : 0.001000000047

SNAPAccuracy

../DCU/g15may.016.dat.2j

e231t3dl.dat.digi2J

Comparing: ../DCU/g15may.016.dat.2j

with e231t3dl.dat.digi2J

Average: 17.569445929227

Stdev : 6.056021213531

Max : 54.404739379883

Min : 2.663224458694

SNAPAccuracy

../DCU/g15may.016.dat.3j

e231t3dl.dat.digi3J

Comparing: ../DCU/g15may.016.dat.3j

with e231t3dl.dat.digi3J

Average: 17.950461288011

Stdev : 6.109609127045

Max : 57.618061065674

Min : 2.990887641907

SNAPAccuracy

../DCU/g15may.016.dat.1g

e231t3dl.dat.digi1G

Comparing: ../DCU/g15may.016.dat.1g

with e231t3dl.dat.digi1G

Average: 1.101618182042

Stdev : 2.126287698746

Max : 6.035000324249

Min : 0.000000000000

SNAPAccuracy

../DCU/g15may.016.dat.2g

e231t3dl.dat.digi2G

Comparing: ../DCU/g15may.016.dat.2g
with e231t3dl.dat.digi2G
Average: 5.723006671125
Stdev : 2.321354389191
Max : 23.056474685669
Min : 0.580304265022

SNAPAccuracy
../DCU/g15may.016.dat.3g
e231t3dl.dat.digi3G
Comparing: ../DCU/g15may.016.dat.3g
with e231t3dl.dat.digi3G
Average: 8.026803563580
Stdev : 2.044434070587
Max : 23.056474685669
Min : 0.580304265022

7.3.17 Stats.017

/usr1/figd/DIS2.2/dis_lite3.stats
Frames : 503
Average: 0.00193604
Maximum: 0.006723
2nd Max: 0.001681
Minimum: 0.000494
RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.stats
Frames : 503
Average: 0.00180773
Maximum: 0.00613
2nd Max: 0.001681
Minimum: 0.000495
RateErr: 0

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 1426
Count : 1136
Average: 2087.03
Maximum: 5076.14
2nd Max: 3378.38
Minimum: -1976.28

Frames : 491069
Average: 0.000208019
Maximum: 0.012372
2nd Max: 0.010297
Minimum: 8e-06

PDUs from Net1: 1409
PDUs from Net2: 1426

PDU Buffer 1

-- Stats from
CircularBuffer --
NumPass: 1409
Average: 0.0450976
Variance: 9.45652e-05
Maximum: 0.07504
2nd Max: 0.07326
Minimum: 0.017796

-- End Stats from
CircularBuffer --

PDU Buffer 2
-- Stats from
CircularBuffer --
NumPass: 1426
Average: 0.0455693
Variance: 0.000108041
Maximum: 0.078005
2nd Max: 0.073259
Minimum: 0.016808
-- End Stats from
CircularBuffer --

SNAPPdus.pl
Average: 0.055153
Maximum: 2.319250
Minimum: 0.000016
Variance: 0.006671
Std Dev : 0.081674

SNAPTimes.pl
Sel-J Tss avg.:
0.0013353697812461497
Sel-J Tns avg.:
0.00038942942359007036
Sel-J Tnr avg.:
0.0014379662026901855
Sel-J Trs avg.:
0.0004029502982176955
Sel-J NIU avg.:
0.001863159045719849
Sel-J Tgs avg.: 0
Sel-J Tgr avg.: 0

DCUAccuracy
j15may.017.dat.g
g15may.017.dat.ownship
Average: 8.146849438337
Stdev : 18.501296997070
Max : 89.735832214355
Min : 0.039458338171

DCUAccuracy
g15may.017.dat.j
j15may.017.dat.ownship
Average:
11.849045771496
Stdev : 18.365348815918
Max : 55.991348266602

Min : 0.068600289524

SNAPAccuracy
../DCU/j15may.017.dat.1j
e241t3dl.dat.digi1J
Comparing: ../DCU/j15may.017.dat.1j
with e241t3dl.dat.digi1J
Average: 5.711596907507
Stdev : 2.265382766724
Max : 17.268442153931
Min : 0.580298841000

SNAPAccuracy
../DCU/j15may.017.dat.2j
e241t3dl.dat.digi2J
Comparing: ../DCU/j15may.017.dat.2j
with e241t3dl.dat.digi2J
Average: 5.859884720416
Stdev : 2.295848131180
Max : 18.325374603271
Min : 0.580304265022

SNAPAccuracy
../DCU/j15may.017.dat.3j
e241t3dl.dat.digi3J
Comparing: ../DCU/j15may.017.dat.3j
with e241t3dl.dat.digi3J
Average: 8.176962140347
Stdev : 1.926513075829
Max : 20.607931137085
Min : 0.580304265022

SNAPAccuracy
../DCU/j15may.017.dat.1g
e241t3dl.dat.digi1G
Comparing: ../DCU/j15may.017.dat.1g
with e241t3dl.dat.digi1G
Average: 17.133226162509
Stdev : 5.852202415466
Max : 50.333087921143
Min : 2.645166397095

SNAPAccuracy
../DCU/j15may.017.dat.2g
e241t3dl.dat.digi2G
Comparing: ../DCU/j15may.017.dat.2g
with e241t3dl.dat.digi2G
Average: 17.816896749075
Stdev : 7.429250717163
Max : 67.025848388672
Min : 3.386588335037

SNAPAccuracy
../DCU/j15may.017.dat.3g
e241t3dl.dat.digi3G
Comparing: ../DCU/j15may.017.dat.3g
with e241t3dl.dat.digi3G
Average: 17.853122664272
Stdev : 5.696682453156

Max : 50.274219512939
Min : 3.352034091949

SNAPAccuracy

../DCU/g15may.017.dat.1j
e241t3dl.dat.digi1J
Comparing: ../DCU/g15may.017.dat.1j
with e241t3dl.dat.digi1J
Average: 17.487487016419
Stdev : 7.079207420349
Max : 66.963478088379
Min : 2.637715578079

SNAPAccuracy

../DCU/g15may.017.dat.2j
e241t3dl.dat.digi2J
Comparing: ../DCU/g15may.017.dat.2j
with e241t3dl.dat.digi2J
Average: 17.261907044210
Stdev : 5.830834865570
Max : 50.280200958252
Min : 2.313444375992

SNAPAccuracy

../DCU/g15may.017.dat.3j
e241t3dl.dat.digi3J
Comparing: ../DCU/g15may.017.dat.3j
with e241t3dl.dat.digi3J
Average: 17.908593215440
Stdev : 6.049585342407
Max : 50.369430541992
Min : 3.922591686249

SNAPAccuracy

../DCU/g15may.017.dat.1g
e241t3dl.dat.digi1G
Comparing: ../DCU/g15may.017.dat.1g
with e241t3dl.dat.digi1G
Average: 5.682184065542
Stdev : 2.354080438614
Max : 18.836788177490
Min : 0.580318868160

SNAPAccuracy

../DCU/g15may.017.dat.2g
e241t3dl.dat.digi2G
Comparing: ../DCU/g15may.017.dat.2g
with e241t3dl.dat.digi2G
Average: 5.868035463316
Stdev : 2.384321451187
Max : 19.793291091919
Min : 0.580304265022

SNAPAccuracy

../DCU/g15may.017.dat.3g
e241t3dl.dat.digi3G
Comparing: ../DCU/g15may.017.dat.3g
with e241t3dl.dat.digi3G
Average: 8.220181719190

Stdev : 1.972406625748
Max : 20.700769424438
Min : 0.580304265022

7.3.18 Stats.018

/usr1/figd/DIS2.2/dis4.stats
Frames : 502
Average: 0.00252053
Maximum: 0.012373
2nd Max: 0.009096
Minimum: 0.001285
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
Frames : 502
Average: 0.0025403
Maximum: 0.012373
2nd Max: 0.012373
Minimum: 0.001482
RateErr: 0

/sg16/usr1/nets/GATEWA
Y/gateway1.stats
Frames : 502
Average: 0.00182069
Maximum: 0.011582
2nd Max: 0.011568
Minimum: 0.000396

/sg16/usr1/nets/GATEWA
Y/gateway2.stats
Frames : 502
Average: 0.00182886
Maximum: 0.011681
2nd Max: 0.009195
Minimum: 0.000396

/sg16/usr1/nets/DISNET/di
snet7.stats
PDUs : 29
Count : 25
Average: 1592.3
Maximum: 2531.65
2nd Max: 2525.25
Minimum: 1011.12

Frames : 611614
Average: 0.000231277
Maximum: 0.010298
2nd Max: 0.010297
Minimum: 8.9e-05

PDUs from Net1: 19
PDUs from Net2: 29

PDU Buffer 1

-- Stats from CircularBuffer --
NumPass: 19
Average: 0.0500942
Variance: 0.000112852
Maximum: 0.063967
2nd Max: 0.060506
Minimum: 0.032626
-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --
NumPass: 29
Average: 0.043072
Variance: 9.08956e-05
Maximum: 0.063472
2nd Max: 0.057343
Minimum: 0.026002
-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.203521
Maximum: 2.807503
Minimum: 0.000236
Variance: 0.228151
Std Dev : 0.477651

SNAPTtimes.pl e212t0.dat
Sel-J Tss avg.:
0.0013506918488636014
Sel-J Tns avg.:
0.00093208151083383115
Sel-J Tnr avg.:
0.0014492326044061158
Sel-J Trs avg.:
0.000404530815260807
Sel-J NIU avg.:
0.0024139542742841785
Sel-J Nius avg.:
0.00093208151083383115
Sel-J Niur avg.:
0.0014492326044061158
Sel-J Tgs avg.:
0.00079494632211956793
Sel-J Tgr avg.:
0.00040866799196520001

DCUAccuracy j15may.018.dat.g
g15may.018.dat.ownship
Average: 14.413228370641
Stdev : 1.715261578560
Max : 16.288682937622
Min : 0.434768944979

DCUAccuracy g15may.018.dat.j
j15may.018.dat.ownship

Average: 13.442909880626
Stdev : 1.381719708443
Max : 14.216148376465
Min : 0.161987662315

SNAPAccuracy

../DCU/j15may.018.dat.1j
e212t0.dat.digi1J
Comparing: ../DCU/j15may.018.dat.1j
with e212t0.dat.digi1J
Average: 5.925595225942
Stdev : 0.055818248540
Max : 6.120999813080
Min : 4.770200252533

SNAPAccuracy

../DCU/j15may.018.dat.2j
e212t0.dat.digi2J
Comparing: ../DCU/j15may.018.dat.2j
with e212t0.dat.digi2J
Average: 6.233124860576
Stdev : 0.055882938206
Max : 6.326000213623
Min : 5.066899776459

SNAPAccuracy

../DCU/j15may.018.dat.3j
e212t0.dat.digi3J
Comparing: ../DCU/j15may.018.dat.3j
with e212t0.dat.digi3J
Average: 6.575743073549
Stdev : 0.274435847998
Max : 6.660999774933
Min : 0.611000001431

SNAPAccuracy

../DCU/j15may.018.dat.1g
e212t0.dat.digi1G
Comparing: ../DCU/j15may.018.dat.1g
with e212t0.dat.digi1G
Average: 5.686065252870
Stdev : 0.719209134579
Max : 5.945459842682
Min : 0.143999993801

SNAPAccuracy

../DCU/j15may.018.dat.2g
e212t0.dat.digi2G
Comparing: ../DCU/j15may.018.dat.2g
with e212t0.dat.digi2G
Average: 6.066217415645
Stdev : 0.759656786919
Max : 6.323999881744
Min : 0.208000004292

SNAPAccuracy

../DCU/j15may.018.dat.3g
e212t0.dat.digi3G

Comparing:

../DCU/j15may.018.dat.3g
with e212t0.dat.digi3G
Average: 6.389728249210
Stdev : 0.602514863014
Max : 6.636719703674
Min : 0.534000039101

SNAPAccuracy

../DCU/g15may.018.dat.1j
e212t0.dat.digi1J
Comparing: ../DCU/g15may.018.dat.1j
with e212t0.dat.digi1J
Average: 5.792982732968
Stdev : 0.526440978050
Max : 6.030519962311
Min : 0.076000005007

SNAPAccuracy

../DCU/g15may.018.dat.2j
e212t0.dat.digi2J
Comparing: ../DCU/g15may.018.dat.2j
with e212t0.dat.digi2J
Average: 6.075610982724
Stdev : 0.600940704346
Max : 6.323999881744
Min : 0.229000002146

SNAPAccuracy

../DCU/g15may.018.dat.3j
e212t0.dat.digi3J
Comparing: ../DCU/g15may.018.dat.3j
with e212t0.dat.digi3J
Average: 6.439338941157
Stdev : 0.598833024502
Max : 6.712969779968
Min : 0.6150000009537

SNAPAccuracy

../DCU/g15may.018.dat.1g
e212t0.dat.digi1G
Comparing: ../DCU/g15may.018.dat.1g
with e212t0.dat.digi1G
Average: 6.000208041078
Stdev : 0.018390018493
Max : 6.059000015259
Min : 5.940000057220

SNAPAccuracy

../DCU/g15may.018.dat.2g
e212t0.dat.digi2G
Comparing: ../DCU/g15may.018.dat.2g
with e212t0.dat.digi2G
Average: 6.368078222217

Stdev : 0.024491876364
Max : 6.453000068665
Min : 6.175000190735

SNAPAccuracy

../DCU/g15may.018.dat.3g
e212t0.dat.digi3G
Comparing: ../DCU/g15may.018.dat.3g
with e212t0.dat.digi3G
Average: 6.663376883842
Stdev : 0.270296812057
Max : 6.750000000000
Min : 0.670000016689

7.3.19 Stats.019

/usr1/figd/DIS2.2/dis4.stats
Frames : 503
Average: 0.0026298
Maximum: 0.012951
2nd Max: 0.012357
Minimum: 0.001186
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
Frames : 503
Average: 0.00269919
Maximum: 0.012769
2nd Max: 0.012557
Minimum: 0.001087
RateErr: 0

/sg16/usr1/nets/GATEWAY/gateway1.s
tats
Frames : 503
Average: 0.00297485
Maximum: 0.011469
2nd Max: 0.011271
Minimum: 0.000297

/sg16/usr1/nets/GATEWAY/gateway2.s
tats
Frames : 503
Average: 0.00308848
Maximum: 0.013841
2nd Max: 0.013461
Minimum: 0.000297

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 489
Count : 456
Average: 1531.02
Maximum: 3378.38
2nd Max: 2525.25

Minimum: -753.239

Frames : 216743

Average: 0.000229794

Maximum: 0.010875

2nd Max: 0.010199

Minimum: 9.5e-05

PDUs from Net1: 478

PDUs from Net2: 489

PDU Buffer 1

-- Stats from CircularBuffer --

NumPass: 478

Average: 0.0452677

Variance: 9.98683e-05

Maximum: 0.074743

2nd Max: 0.064856

Minimum: 0.011864

-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --

NumPass: 489

Average: 0.0452338

Variance: 9.47299e-05

Maximum: 0.078005

2nd Max: 0.068627

Minimum: 0.016709

-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.131496

Maximum: 1.604789

Minimum: 0.000017

Variance: 0.012100

Std Dev : 0.109999

SNAPTtimes.pl e222t0.dat

Sel-J Tss avg.:

0.0013648687872158966

Sel-J Tns avg.:

0.00089018886677909705

Sel-J Tnr avg.:

0.0016814373756827608

Sel-J Trs avg.:

0.00040373558636336304

Sel-J NIU avg.:

0.0026010994034924378

Sel-J Nius avg.:

0.00089018886677909705

Sel-J Niur avg.:

0.0016814373756827608

Sel-J Tgs avg.:

0.0013023797218920663

Sel-J Tgr avg.:

0.00098884095415027696

DCUAccuracy

j15may.019.dat.g

g15may.019.dat.ownship

Average:

14.568547780809

Stdev : 0.982152581215

Max : 17.624677658081

Min : 12.853074073792

DCUAccuracy

g15may.019.dat.j

j15may.019.dat.ownship

Average:

13.585760418348

Stdev : 0.441052019596

Max : 20.118774414062

Min : 13.033267021179

SNAPAccuracy

../DCU/j15may.019.dat.1j

e222t0.dat.digi1J

Comparing:

../DCU/j15may.019.dat.1j

with e222t0.dat.digi1J

Average: 5.924653525795

Stdev : 0.147156968713

Max : 5.970499992371

Min : 2.677839994431

SNAPAccuracy

../DCU/j15may.019.dat.2j

e222t0.dat.digi2J

Comparing:

../DCU/j15may.019.dat.2j

with e222t0.dat.digi2J

Average: 6.230793860651

Stdev : 0.147722050548

Max : 6.326000213623

Min : 3.004230022430

SNAPAccuracy

../DCU/j15may.019.dat.3j

e222t0.dat.digi3J

Comparing:

../DCU/j15may.019.dat.3j

with e222t0.dat.digi3J

Average:

15.619847326509

Stdev : 2.685892820358

Max : 19.073703765869

Min : 9.431358337402

SNAPAccuracy

../DCU/j15may.019.dat.1g

e222t0.dat.digi1G

Comparing:

../DCU/j15may.019.dat.1g

with e222t0.dat.digi1G

Average: 5.751894753154

Stdev : 0.107644744217

Max : 5.965070247650

Min : 5.541999816895

SNAPAccuracy

../DCU/j15may.019.dat.2g

e222t0.dat.digi2G

Comparing: ../DCU/j15may.019.dat.2g

with e222t0.dat.digi2G

Average: 6.092878953228

Stdev : 0.106974430382

Max : 6.291470050812

Min : 5.897999763489

SNAPAccuracy

../DCU/j15may.019.dat.3g

e222t0.dat.digi3G

Comparing: ../DCU/j15may.019.dat.3g

with e222t0.dat.digi3G

Average: 27.296760454410

Stdev : 3.759417295456

Max : 40.467304229736

Min : 18.657518386841

SNAPAccuracy

../DCU/g15may.019.dat.1j

e222t0.dat.digi1J

Comparing: ../DCU/g15may.019.dat.1j

with e222t0.dat.digi1J

Average: 5.655848324178

Stdev : 0.213090568781

Max : 6.036220073700

Min : 5.274000167847

SNAPAccuracy

../DCU/g15may.019.dat.2j

e222t0.dat.digi2J

Comparing: ../DCU/g15may.019.dat.2j

with e222t0.dat.digi2J

Average: 6.110691388448

Stdev : 0.106045044959

Max : 6.323999881744

Min : 5.916000366211

SNAPAccuracy

../DCU/g15may.019.dat.3j

e222t0.dat.digi3J

Comparing: ../DCU/g15may.019.dat.3j

with e222t0.dat.digi3J

Average: 27.575976426709

Stdev : 3.756741762161

Max : 41.806755065918

Min : 19.042139053345

SNAPAccuracy

../DCU/g15may.019.dat.1g

e222t0.dat.digi1G

Comparing: ../DCU/g15may.019.dat.1g

with e222t0.dat.digi1G

Average: 6.012122171506
Stdev : 0.288724958897
Max : 12.038689613342
Min : 3.804739952087

SNAPAccuracy

../DCU/g15may.019.dat.2g
e222t0.dat.digi2G
Comparing: ../DCU/g15may.019.dat.2g
with e222t0.dat.digi2G
Average: 6.375283258542
Stdev : 0.287456035614
Max : 12.365089416504
Min : 4.160809993744

SNAPAccuracy

../DCU/g15may.019.dat.3g
e222t0.dat.digi3G
Comparing: ../DCU/g15may.019.dat.3g
with e222t0.dat.digi3G
Average: 15.821291388161
Stdev : 2.802652120590
Max : 35.308498382568
Min : 10.345519065857

7.3.20 Stats.020

/usr1/figd/DIS2.2/dis4.stats
Frames : 503
Average: 0.00280845
Maximum: 0.012966
2nd Max: 0.008403
Minimum: 0.001285
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
Frames : 503
Average: 0.00275886
Maximum: 0.01267
2nd Max: 0.008601
Minimum: 0.001482
RateErr: 0

/sg16/usr1/nets/GATEWAY/gateway1.s
tats
Frames : 503
Average: 0.00413939
Maximum: 0.015126
2nd Max: 0.014336
Minimum: 0.000394

/sg16/usr1/nets/GATEWAY/gateway2.s
tats
Frames : 503
Average: 0.00391853
Maximum: 0.016511

2nd Max: 0.015028
Minimum: 0.000295

/sg16/usr1/nets/DISNET/di
snet7.stats
PDUs : 943
Count : 750
Average: 1643.02
Maximum: 3378.38
2nd Max: 2531.65
Minimum: -900.901

Frames : 146074
Average: 0.000236868
Maximum: 0.018686
2nd Max: 0.012557
Minimum: 9.5e-05

PDUs from Net1: 934
PDUs from Net2: 943

PDU Buffer 1
-- Stats from
CircularBuffer --
NumPass: 934
Average: 0.0447339
Variance: 0.000102625
Maximum: 0.072765
2nd Max: 0.070888
Minimum: 0.016115

-- End Stats from
CircularBuffer --

PDU Buffer 2
-- Stats from
CircularBuffer --
NumPass: 943
Average: 0.045138
Variance: 0.000101338
Maximum: 0.077018
2nd Max: 0.074347
Minimum: 0.017302

-- End Stats from
CircularBuffer --

SNAPPdus.pl
Average: 0.091841
Maximum: 1.196384
Minimum: 0.000019
Variance: 0.002951
Std Dev : 0.054324

SNAPTimes.pl e232t0.dat
Sel-J Tss avg.:
0.0013297037774348394
Sel-J Tns avg.:
0.00092124453291056723
Sel-J Tnr avg.:
0.0017155785290105454

Sel-J Trs avg.:
0.0005497495028390281
Sel-J NIU avg.:
0.0026747455269638238
Sel-J Nius avg.:
0.00092124453291056723
Sel-J Niur avg.:
0.0017155785290105454
Sel-J Tgs avg.:
0.0019236719683184155
Sel-J Tgr avg.:
0.0014786660038471726

DCUAccuracy j15may.020.dat.g
g15may.020.dat.ownership
Average: 14.523556964118
Stdev : 0.958902180195
Max : 16.155984878540
Min : 12.762355804443

DCUAccuracy g15may.020.dat.j
j15may.020.dat.ownership
Average: 13.577004774379
Stdev : 0.305462718010
Max : 14.164163589478
Min : 13.056470870972

SNAPAccuracy
../DCU/j15may.020.dat.1j
e232t0.dat.digi1J
Comparing: ../DCU/j15may.020.dat.1j
with e232t0.dat.digi1J
Average: 5.929741548580
Stdev : 0.022084238008
Max : 6.151000022888
Min : 5.880700111389

SNAPAccuracy
../DCU/j15may.020.dat.2j
e232t0.dat.digi2J
Comparing: ../DCU/j15may.020.dat.2j
with e232t0.dat.digi2J
Average: 14.504122893335
Stdev : 2.703833103180
Max : 18.256290435791
Min : 9.574209213257

SNAPAccuracy
../DCU/j15may.020.dat.3j
e232t0.dat.digi3J
Comparing: ../DCU/j15may.020.dat.3j
with e232t0.dat.digi3J
Average: 15.817062406713
Stdev : 2.721836566925
Max : 19.281951904297
Min : 10.141779899597

SNAPAccuracy
 ../DCU/j15may.020.dat.1g
 e232t0.dat.digi1G
 Comparing: ../DCU/j15may.020.dat.1g
 with e232t0.dat.digi1G
 Average: 5.574042799019
 Stdev : 0.212058588862
 Max : 5.966149806976
 Min : 5.184999942780

SNAPAccuracy
 ../DCU/j15may.020.dat.2g
 e232t0.dat.digi2G
 Comparing: ../DCU/j15may.020.dat.2g
 with e232t0.dat.digi2G
 Average: 26.144706594799
 Stdev : 4.138270378113
 Max : 38.013381958008
 Min : 17.030647277832

SNAPAccuracy
 ../DCU/j15may.020.dat.3g
 e232t0.dat.digi3G
 Comparing: ../DCU/j15may.020.dat.3g
 with e232t0.dat.digi3G
 Average: 27.852497870049
 Stdev : 4.059389114380
 Max : 38.167846679688
 Min : 17.971961975098

SNAPAccuracy
 ../DCU/g15may.020.dat.1j
 e232t0.dat.digi1J
 Comparing: ../DCU/g15may.020.dat.1j
 with e232t0.dat.digi1J
 Average: 5.814852819210
 Stdev : 0.106720983982
 Max : 6.037300109863
 Min : 5.605000019073

SNAPAccuracy
 ../DCU/g15may.020.dat.2j
 e232t0.dat.digi2J
 Comparing: ../DCU/g15may.020.dat.2j
 with e232t0.dat.digi2J
 Average: 26.126119210468
 Stdev : 4.164890766144
 Max : 41.913150787354
 Min : 16.171922683716

SNAPAccuracy
 ../DCU/g15may.020.dat.3j
 e232t0.dat.digi3J
 Comparing: ../DCU/g15may.020.dat.3j
 with e232t0.dat.digi3J
 Average: 27.929720285462
 Stdev : 4.121520042419
 Max : 42.266094207764
 Min : 18.982746124268

SNAPAccuracy
 ../DCU/g15may.020.dat.1g
 e232t0.dat.digi1G
 Comparing: ../DCU/g15may.020.dat.1g
 with e232t0.dat.digi1G
 Average: 6.002285615779
 Stdev : 0.022540187463
 Max : 6.23999771118
 Min : 5.940000057220

SNAPAccuracy
 ../DCU/g15may.020.dat.2g
 e232t0.dat.digi2G
 Comparing: ../DCU/g15may.020.dat.2g
 with e232t0.dat.digi2G
 Average: 14.648600206049
 Stdev : 2.745327711105
 Max : 18.410047531128
 Min : 9.700459480286

SNAPAccuracy
 ../DCU/g15may.020.dat.3g
 e232t0.dat.digi3G
 Comparing: ../DCU/g15may.020.dat.3g
 with e232t0.dat.digi3G
 Average: 15.946655501782
 Stdev : 2.771196842194
 Max : 19.437074661255
 Min : 10.268972396851

7.3.21 Stats.021

/usr1/figd/DIS2.2/dis4.stats
 Frames : 500
 Average: 0.00278255
 Maximum: 0.012966
 2nd Max: 0.00702
 Minimum: 0.001385
 RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
 Frames : 500
 Average: 0.00280073
 Maximum: 0.012472
 2nd Max: 0.010183
 Minimum: 0.001186
 RateErr: 0

/sg16/usr1/nets/GATEWAY/gateway1.s
 tats
 Frames : 500
 Average: 0.00524231
 Maximum: 0.017599
 2nd Max: 0.011568
 Minimum: 0.000395

/sg16/usr1/nets/GATEWAY/gateway2.s
 tats
 Frames : 500
 Average: 0.00509046
 Maximum: 0.01394
 2nd Max: 0.008206
 Minimum: 0.000297

/sg16/usr1/nets/DISNET/disnet7.stats
 PDUs : 1395
 Count : 886
 Average: 1604.24
 Maximum: 3378.38
 2nd Max: 3378.38
 Minimum: -853

Frames : 396294
 Average: 0.000395767
 Maximum: 60.0002
 2nd Max: 0.010297
 Minimum: 9e-05

PDUs from Net1: 1392
 PDUs from Net2: 1395

PDU Buffer 1
 -- Stats from CircularBuffer --
 NumPass: 1392
 Average: 0.0454465
 Variance: 9.44701e-05
 Maximum: 0.082059
 2nd Max: 0.074842
 Minimum: 0.014632
 -- End Stats from CircularBuffer --

PDU Buffer 2
 -- Stats from CircularBuffer --
 NumPass: 1395
 Average: 0.0462739
 Variance: 0.000106229
 Maximum: 0.079686
 2nd Max: 0.072766
 Minimum: 0.012457
 -- End Stats from CircularBuffer --

SNAPPdus.pl
 Average: 0.074827
 Maximum: 1.580124
 Minimum: 0.000019
 Variance: 0.006831
 Std Dev : 0.082653

SNAPTimes.pl e242t0.dat
 Sel-J Tss avg.:
 0.001360721669962239
 Sel-J Tns avg.:
 0.0010366163021367817
 Sel-J Tnr avg.:
 0.0016636540755824182
 Sel-J Trs avg.:
 0.0004035009939688032
 Sel-J NIU avg.:
 0.0026956898608755516
 Sel-J Nius avg.:
 0.0010366163021367817
 Sel-J Niur avg.:
 0.0016636540755824182
 Sel-J Tgs avg.:
 0.0024827335984509754
 Sel-J Tgr avg.:
 0.0019805248507988689

DCUAccuracy j15may.021.dat.g
 g15may.021.dat.ownship
 Average: 14.522386799940
 Stdev : 0.964062273502
 Max : 16.237604141235
 Min : 12.817463874817

DCUAccuracy g15may.021.dat.j
 j15may.021.dat.ownship
 Average: 13.592695958219
 Stdev : 0.318473726511
 Max : 14.198465347290
 Min : 13.073492050171

SNAPAccuracy
 ../DCU/j15may.021.dat.1j
 e242t0.dat.digi1J
 Comparing: ../DCU/j15may.021.dat.1j
 with e242t0.dat.digi1J
 Average: 13.313380922590
 Stdev : 2.603532552719
 Max : 17.188470840454
 Min : 9.048884391785

SNAPAccuracy
 ../DCU/j15may.021.dat.2j
 e242t0.dat.digi2J
 Comparing: ../DCU/j15may.021.dat.2j
 with e242t0.dat.digi2J
 Average: 14.340358853100
 Stdev : 2.741908311844
 Max : 18.266439437866
 Min : 9.628337860107

SNAPAccuracy
 ../DCU/j15may.021.dat.3j
 e242t0.dat.digi3J

Comparing:
 ../DCU/j15may.021.dat.3j
 with e242t0.dat.digi3J
 Average:
 15.831007483500
 Stdev : 2.779477596283
 Max : 19.395149230957
 Min : 10.090507507324

SNAPAccuracy
 ../DCU/j15may.021.dat.1g
 e242t0.dat.digi1G
 Comparing:
 ../DCU/j15may.021.dat.1g
 with e242t0.dat.digi1G
 Average:
 24.226825752879
 Stdev : 3.549357652664
 Max : 33.757812500000
 Min : 16.315990447998

SNAPAccuracy
 ../DCU/j15may.021.dat.2g
 e242t0.dat.digi2G
 Comparing:
 ../DCU/j15may.021.dat.2g
 with e242t0.dat.digi2G
 Average:
 25.165426799782
 Stdev : 3.771032810211
 Max : 40.345554351807
 Min : 16.734685897827

SNAPAccuracy
 ../DCU/j15may.021.dat.3g
 e242t0.dat.digi3G
 Comparing:
 ../DCU/j15may.021.dat.3g
 with e242t0.dat.digi3G
 Average:
 27.613613318622
 Stdev : 4.115356445312
 Max : 40.656246185303
 Min : 17.089523315430

SNAPAccuracy
 ../DCU/g15may.021.dat.1j
 e242t0.dat.digi1J
 Comparing:
 ../DCU/g15may.021.dat.1j
 with e242t0.dat.digi1J
 Average:
 24.063446660071
 Stdev : 3.408329010010
 Max : 33.819667816162
 Min : 16.851316452026

SNAPAccuracy
 ../DCU/g15may.021.dat.2j
 e242t0.dat.digi2J
 Comparing: ../DCU/g15may.021.dat.2j
 with e242t0.dat.digi2J
 Average: 25.138127160513
 Stdev : 3.583865880966
 Max : 38.125892639160
 Min : 16.949481964111

SNAPAccuracy
 ../DCU/g15may.021.dat.3j
 e242t0.dat.digi3J
 Comparing: ../DCU/g15may.021.dat.3j
 with e242t0.dat.digi3J
 Average: 27.312400233673
 Stdev : 3.853420734406
 Max : 38.150466918945
 Min : 18.941118240356

SNAPAccuracy
 ../DCU/g15may.021.dat.1g
 e242t0.dat.digi1G
 Comparing: ../DCU/g15may.021.dat.1g
 with e242t0.dat.digi1G
 Average: 13.467054566627
 Stdev : 2.642156362534
 Max : 17.410043716431
 Min : 9.141060829163

SNAPAccuracy
 ../DCU/g15may.021.dat.2g
 e242t0.dat.digi2G
 Comparing: ../DCU/g15may.021.dat.2g
 with e242t0.dat.digi2G
 Average: 14.517063363457
 Stdev : 2.774024724960
 Max : 18.511789321899
 Min : 9.754666328430

SNAPAccuracy
 ../DCU/g15may.021.dat.3g
 e242t0.dat.digi3G
 Comparing: ../DCU/g15may.021.dat.3g
 with e242t0.dat.digi3G
 Average: 16.011156947560
 Stdev : 2.820307731628
 Max : 19.519573211670
 Min : 10.300285339355

7.3.22 Stats.022

/usr1/figd/DIS2.2/dis_lite3.stats
 Frames : 503
 Average: 0.00257029

Maximum: 0.012669
2nd Max: 0.008602
Minimum: 0.00168
RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.stats

Frames : 503
Average: 0.00271991
Maximum: 0.010183
2nd Max: 0.00168
Minimum: 0.00168
RateErr: 0

/sg16/usr1/nets/GATEWAY/gateway_lit
e2.stats

Frames : 503
Average: 0.00249027
Maximum: 0.013262
2nd Max: 0.010875
Minimum: 0.000296

/sg16/usr1/nets/GATEWAY/gateway_lit
e1.stats

Frames : 503
Average: 0.00267815
Maximum: 0.014731
2nd Max: 0.000296
Minimum: 0.000296

/sg16/usr1/nets/DISNET/disnet7.stats

PDUs : 54
Count : 48
Average: 1549.73
Maximum: 2531.65
2nd Max: 2247.19
Minimum: 1011.12

Frames : 242146
Average: 0.000230465
Maximum: 0.010791
2nd Max: 0.010298
Minimum: 8e-06

PDUs from Net1: 168
PDUs from Net2: 54

PDU Buffer 1

-- Stats from CircularBuffer --
NumPass: 168
Average: 0.046705
Variance: 0.00010538
Maximum: 0.069503
2nd Max: 0.06891
Minimum: 0.02086
-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --
NumPass: 54

Average: 0.0440963
Variance: 0.000101687
Maximum: 0.064758
2nd Max: 0.061198
Minimum: 0.022146

-- End Stats from
CircularBuffer --

SNAPPdus.pl

Average: 0.126371
Maximum: 1.206465
Minimum: 0.000006
Variance: 0.028565
Std Dev : 0.169012

SNAPTtimes.pl e212t0l.dat

Sel-J Tss avg.:
0.0013412783300302965
Sel-J Tns avg.:
0.0012845884691121911
Sel-J Tnr avg.:
0.0011746441352594955
Sel-J Trs avg.:
0.00039940556673813058
Sel-J NIU avg.:
0.0024936381710041035
Sel-J Nius avg.:
0.0012845884691121911
Sel-J Niur avg.:
0.0011746441352594955
Sel-J Tgs avg.:
0.0013371888666836569
Sel-J Tgr avg.:
0.00071167594437403182

DCUAccuracy

j15may.022.dat.g
g15may.022.dat.ownship
Average:
29.004884789347
Stdev : 29.022920608521
Max : 91.725677490234
Min : 12.986244201660

DCUAccuracy

g15may.022.dat.j
j15may.022.dat.ownship
Average:
32.757679418031
Stdev : 30.372009277344
Max : 82.593605041504
Min : 13.145195007324

SNAPAccuracy

../DCU/j15may.022.dat.1j
e212t0l.dat.digi1J
Comparing:
../DCU/j15may.022.dat.1j
with e212t0l.dat.digi1J

Average: 5.941145612533
Stdev : 0.272501409054
Max : 12.000000000000
Min : 5.880800247192

SNAPAccuracy

../DCU/j15may.022.dat.2j
e212t0l.dat.digi2J
Comparing: ../DCU/j15may.022.dat.2j
with e212t0l.dat.digi2J
Average: 6.307448504919
Stdev : 0.259233325720
Max : 12.000000000000
Min : 6.000000000000

SNAPAccuracy

../DCU/j15may.022.dat.3j
e212t0l.dat.digi3J
Comparing: ../DCU/j15may.022.dat.3j
with e212t0l.dat.digi3J
Average: 6.617476956465
Stdev : 0.248189613223
Max : 12.000000000000
Min : 6.000000000000

SNAPAccuracy

../DCU/j15may.022.dat.1g
e212t0l.dat.digi1G
Comparing: ../DCU/j15may.022.dat.1g
with e212t0l.dat.digi1G
Average: 23.827763626933
Stdev : 0.297965914011
Max : 30.000000000000
Min : 23.614000320435

SNAPAccuracy

../DCU/j15may.022.dat.2g
e212t0l.dat.digi2G
Comparing: ../DCU/j15may.022.dat.2g
with e212t0l.dat.digi2G
Average: 32.864441776856
Stdev : 3.011962175369
Max : 36.026100158691
Min : 29.606000900269

SNAPAccuracy

../DCU/j15may.022.dat.3g
e212t0l.dat.digi3G
Comparing: ../DCU/j15may.022.dat.3g
with e212t0l.dat.digi3G
Average: 32.864441776856
Stdev : 3.011962175369
Max : 36.026100158691
Min : 29.606000900269

SNAPAccuracy

../DCU/g15may.022.dat.1j
e212t0l.dat.digi1J

Comparing: ../DCU/g15may.022.dat.1j
with e212t0l.dat.digi1J
Average: 32.878112212640
Stdev : 3.013133049011
Max : 36.057598114014
Min : 29.621999740601

SNAPAccuracy

../DCU/g15may.022.dat.2j
e212t0l.dat.digi2J
Comparing: ../DCU/g15may.022.dat.2j
with e212t0l.dat.digi2J
Average: 29.640288854900
Stdev : 0.192024677992
Max : 30.006599426270
Min : 29.277000427246

SNAPAccuracy

../DCU/g15may.022.dat.3j
e212t0l.dat.digi3J
Comparing: ../DCU/g15may.022.dat.3j
with e212t0l.dat.digi3J
Average: 29.640288854900
Stdev : 0.192024677992
Max : 30.006599426270
Min : 29.277000427246

SNAPAccuracy

../DCU/g15may.022.dat.1g
e212t0l.dat.digi1G
Comparing: ../DCU/g15may.022.dat.1g
with e212t0l.dat.digi1G
Average: 6.002946601814
Stdev : 0.036075793207
Max : 6.682229995728
Min : 5.940000057220

SNAPAccuracy

../DCU/g15may.022.dat.2g
e212t0l.dat.digi2G
Comparing: ../DCU/g15may.022.dat.2g
with e212t0l.dat.digi2G
Average: 6.378303118978
Stdev : 0.254752755165
Max : 12.000000000000
Min : 6.000000000000

SNAPAccuracy

../DCU/g15may.022.dat.3g
e212t0l.dat.digi3G
Comparing: ../DCU/g15may.022.dat.3g
with e212t0l.dat.digi3G
Average: 6.691670557581
Stdev : 0.244984656572
Max : 12.000000000000
Min : 6.000000000000

7.3.23 Stats.023

/usr1/figd/DIS2.2/dis_lite3.
stats

Frames : 502
Average: 0.00274016
Maximum: 0.012669
2nd Max: 0.008304
Minimum: 0.001474
RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.
stats

Frames : 503
Average: 0.00285402
Maximum: 0.013362
2nd Max: 0.008107
Minimum: 0.001779
RateErr: 0

/sg16/usr1/nets/GATEWA
Y/gateway_lite2.stats

Frames : 503
Average: 0.00371608
Maximum: 0.013955
2nd Max: 0.011469
Minimum: 0.000395

/sg16/usr1/nets/GATEWA
Y/gateway_lite1.stats

Frames : 503
Average: 0.00406218
Maximum: 0.013955
2nd Max: 0.013445
Minimum: 0.000396

/sg16/usr1/nets/DISNET/di
snet7.stats

PDUUs : 517
Count : 500
Average: 1525.03
Maximum: 5319.15
2nd Max: 3424.66
Minimum: -4784.69

Frames : 636632
Average: 0.000233305
Maximum: 0.01089
2nd Max: 0.010297
Minimum: 9.2e-05

PDUUs from Net1: 653
PDUUs from Net2: 517

PDU Buffer 1

-- Stats from CircularBuffer --

NumPass: 653
Average: 0.0450133
Variance: 9.67619e-05
Maximum: 0.073161
2nd Max: 0.071678
Minimum: 0.019081

-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --

NumPass: 517
Average: 0.0460071
Variance: 9.63867e-05
Maximum: 0.074446
2nd Max: 0.070408
Minimum: 0.018785

-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.091868
Maximum: 1.596006
Minimum: 0.000008
Variance: 0.010033
Std Dev : 0.100163

SNAPTimes.pl e222t0l.dat

Sel-J Tss avg.:
0.0013411033797451845
Sel-J Tns avg.:
0.0012895924453581932
Sel-J Tnr avg.:
0.0013421590458172388
Sel-J Trs avg.:
0.00040313916509530359
Sel-J NIU avg.:
0.0026696640159581809
Sel-J Nius avg.:
0.0012895924453581932
Sel-J Niur avg.:
0.0013421590458172388
Sel-J Tgs avg.:
0.0020938727634502519
Sel-J Tgr avg.:
0.0013351769382819148

DCUAccuracy j15may.023.dat.g

g15may.023.dat.ownship
Average: 26.269625969518
Stdev : 26.564994812012
Max : 90.955024719238
Min : 0.522945344448

DCUAccuracy g15may.023.dat.j

j15may.023.dat.ownship
Average: 32.619275143272
Stdev : 27.729703903198
Max : 82.391418457031
Min : 13.203137397766

SNAPAccuracy
../DCU/j15may.023.dat.1j
e222t0l.dat.digi1J
Comparing: ../DCU/j15may.023.dat.1j
with e222t0l.dat.digi1J
Average: 5.942021977471
Stdev : 0.287686169147
Max : 11.939999580383
Min : 3.746000051498

SNAPAccuracy
../DCU/j15may.023.dat.2j
e222t0l.dat.digi2J
Comparing: ../DCU/j15may.023.dat.2j
with e222t0l.dat.digi2J
Average: 6.352969690499
Stdev : 0.384499877691
Max : 12.355000495911
Min : 4.131000041962

SNAPAccuracy
../DCU/j15may.023.dat.3j
e222t0l.dat.digi3J
Comparing: ../DCU/j15may.023.dat.3j
with e222t0l.dat.digi3J
Average: 15.069148407136
Stdev : 3.103371858597
Max : 33.360149383545
Min : 8.742362022400

SNAPAccuracy
../DCU/j15may.023.dat.1g
e222t0l.dat.digi1G
Comparing: ../DCU/j15may.023.dat.1g
with e222t0l.dat.digi1G
Average: 29.962720263560
Stdev : 8.323145866394
Max : 36.013801574707
Min : 5.822000026703

SNAPAccuracy
../DCU/j15may.023.dat.2g
e222t0l.dat.digi2G
Comparing: ../DCU/j15may.023.dat.2g
with e222t0l.dat.digi2G
Average: 24.629258555439
Stdev : 6.569330692291
Max : 30.022500991821
Min : 6.208000183105

SNAPAccuracy
../DCU/j15may.023.dat.3g
e222t0l.dat.digi3G
Comparing: ../DCU/j15may.023.dat.3g
with e222t0l.dat.digi3G
Average: 26.417463514105
Stdev : 4.544729232788
Max : 83.440536499023

Min : 18.998716354370

SNAPAccuracy
../DCU/g15may.023.dat.1j
e222t0l.dat.digi1J
Comparing: ../DCU/g15may.023.dat.1j
with e222t0l.dat.digi1J
Average:
24.663765439138
Stdev : 6.557603359222
Max : 36.000000000000
Min : 5.912000179291

SNAPAccuracy
../DCU/g15may.023.dat.2j
e222t0l.dat.digi2J
Comparing: ../DCU/g15may.023.dat.2j
with e222t0l.dat.digi2J
Average:
27.601874741465
Stdev : 6.854535102844
Max : 36.000000000000
Min : 6.296999931335

SNAPAccuracy
../DCU/g15may.023.dat.3j
e222t0l.dat.digi3J
Comparing: ../DCU/g15may.023.dat.3j
with e222t0l.dat.digi3J
Average:
26.200210324183
Stdev : 6.509726524353
Max : 67.069793701172
Min : 16.500768661499

SNAPAccuracy
../DCU/g15may.023.dat.1g
e222t0l.dat.digi1G
Comparing: ../DCU/g15may.023.dat.1g
with e222t0l.dat.digi1G
Average: 6.009597887695
Stdev : 0.027476709336
Max : 6.445079803467
Min : 5.940000057220

SNAPAccuracy
../DCU/g15may.023.dat.2g
e222t0l.dat.digi2G
Comparing: ../DCU/g15may.023.dat.2g
with e222t0l.dat.digi2G
Average: 6.423980083504
Stdev : 0.252870112658
Max : 12.000000000000
Min : 6.000000000000

SNAPAccuracy
../DCU/g15may.023.dat.3g
e222t0l.dat.digi3G
Comparing: ../DCU/g15may.023.dat.3g
with e222t0l.dat.digi3G
Average: 15.743764470521
Stdev : 2.994722604752
Max : 33.360149383545
Min : 9.785840034485

7.3.24 Stats.024

/usr1/figd/DIS2.2/dis_lite3.stats
Frames : 503
Average: 0.00282959
Maximum: 0.009196
2nd Max: 0.001482
Minimum: 0.001482
RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.stats
Frames : 503
Average: 0.00296364
Maximum: 0.010084
2nd Max: 0.001878
Minimum: 0.001681
RateErr: 0

/sg16/usr1/nets/GATEWAY/gateway_lit
e2.stats
Frames : 503
Average: 0.00522954
Maximum: 0.019279
2nd Max: 0.013545
Minimum: 0.000395

/sg16/usr1/nets/GATEWAY/gateway_lit
e1.stats
Frames : 503
Average: 0.00524894
Maximum: 0.016511
2nd Max: 0.016313
Minimum: 0.000296

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 993
Count : 809
Average: 1577.69
Maximum: 11236
2nd Max: 4123.71
Minimum: -2190.58

Frames : 191961
Average: 0.000232647

Maximum: 0.011369
2nd Max: 0.01089
Minimum: 8.7e-05

PDU's from Net1: 1111
PDU's from Net2: 993

PDU Buffer 1

-- Stats from CircularBuffer --
NumPass: 1111
Average: 0.0454914
Variance: 9.77327e-05
Maximum: 0.072468
2nd Max: 0.071876
Minimum: 0.006822
-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --
NumPass: 993
Average: 0.045871
Variance: 0.000108948
Maximum: 0.084234
2nd Max: 0.08326
Minimum: 0.017104
-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.073240
Maximum: 1.278524
Minimum: 0.000004
Variance: 0.008261
Std Dev : 0.090887

SNAPTtimes.pl e232t0l.dat

Sel-J Tss avg.:
0.0013592445326902603
Sel-J Tns avg.:
0.0012503101390599696
Sel-J Tnr avg.:
0.0014747276341646287
Sel-J Trs avg.:
0.00040390457250406988
Sel-J NIU avg.:
0.0027649065605309196
Sel-J Nius avg.:
0.0012503101390599696
Sel-J Niur avg.:
0.0014747276341646287
Sel-J Tgs avg.:
0.002488536779377281
Sel-J Tgr avg.:
0.0010931411528706211

DCUAccuracy j15may.024.dat.g
j15may.024.dat.ownship
Average: 25.782959569540
Stddev : 23.362588882446
Max : 88.464294433594

Min : 0.114157825708

DCUAccuracy
g15may.024.dat.j
j15may.024.dat.ownship
Average:
32.575725948817
Stddev : 30.739475250244
Max : 82.592605590820
Min : 0.146003425121

SNAPAccuracy
../DCU/j15may.024.dat.1j
e232t0l.dat.digi1J
Comparing:
../DCU/j15may.024.dat.1j
with e232t0l.dat.digi1J
Average: 5.927858049219
Stddev : 0.190764158964
Max : 8.881000518799
Min : 2.940000057220

SNAPAccuracy
../DCU/j15may.024.dat.2j
e232t0l.dat.digi2J
Comparing:
../DCU/j15may.024.dat.2j
with e232t0l.dat.digi2J
Average:
14.767419902724
Stddev : 2.967087745667
Max : 33.360149383545
Min : 7.593964099884

SNAPAccuracy
../DCU/j15may.024.dat.3j
e232t0l.dat.digi3J
Comparing:
../DCU/j15may.024.dat.3j
with e232t0l.dat.digi3J
Average:
15.789937834306
Stddev : 3.025973796844
Max : 33.360149383545
Min : 7.556231975555

SNAPAccuracy
../DCU/j15may.024.dat.1g
e232t0l.dat.digi1G
Comparing:
../DCU/j15may.024.dat.1g
with e232t0l.dat.digi1G
Average:
28.040101216773
Stddev : 6.475198745728
Max : 36.000000000000
Min : 0.072999998927

SNAPAccuracy
../DCU/j15may.024.dat.2g
e232t0l.dat.digi2G
Comparing: ../DCU/j15may.024.dat.2g
with e232t0l.dat.digi2G
Average: 26.327811196477
Stddev : 7.835760116577
Max : 83.706710815430
Min : 11.625036239624

SNAPAccuracy
../DCU/j15may.024.dat.3g
e232t0l.dat.digi3G
Comparing: ../DCU/j15may.024.dat.3g
with e232t0l.dat.digi3G
Average: 27.469885822226
Stddev : 8.001935958862
Max : 83.777473449707
Min : 14.796922683716

SNAPAccuracy
../DCU/g15may.024.dat.1j
e232t0l.dat.digi1J
Comparing: ../DCU/g15may.024.dat.1j
with e232t0l.dat.digi1J
Average: 27.787329045008
Stddev : 6.495084762573
Max : 30.008699417114
Min : 0.004000000190

SNAPAccuracy
../DCU/g15may.024.dat.2j
e232t0l.dat.digi2J
Comparing: ../DCU/g15may.024.dat.2j
with e232t0l.dat.digi2J
Average: 25.927634056704
Stddev : 5.633468627930
Max : 67.599845886230
Min : 14.851088523865

SNAPAccuracy
../DCU/g15may.024.dat.3j
e232t0l.dat.digi3J
Comparing: ../DCU/g15may.024.dat.3j
with e232t0l.dat.digi3J
Average: 27.502872827576
Stddev : 8.415226936340
Max : 83.626029968262
Min : 13.836530685425

SNAPAccuracy
../DCU/g15may.024.dat.1g
e232t0l.dat.digi1G
Comparing: ../DCU/g15may.024.dat.1g
with e232t0l.dat.digi1G
Average: 5.996223245417
Stddev : 0.403162807226
Max : 12.000000000000
Min : 3.000000000000

SNAPAccuracy
 ../DCU/g15may.024.dat.2g
 e232t0l.dat.digi2G
 Comparing: ../DCU/g15may.024.dat.2g
 with e232t0l.dat.digi2G
 Average: 14.878764538034
 Stdev : 3.085600614548
 Max : 33.360149383545
 Min : 6.190832138062

SNAPAccuracy
 ../DCU/g15may.024.dat.3g
 e232t0l.dat.digi3G
 Comparing: ../DCU/g15may.024.dat.3g
 with e232t0l.dat.digi3G
 Average: 15.917836000842
 Stdev : 3.110176324844
 Max : 33.360149383545
 Min : 6.702499389648

7.3.25 Stats.025

/usr1/figd/DIS2.2/dis_lite3.stats
 Frames : 503
 Average: 0.00301048
 Maximum: 0.012768
 2nd Max: 0.0088
 Minimum: 0.001276
 RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.stats
 Frames : 503
 Average: 0.00313994
 Maximum: 0.007811
 2nd Max: 0.007711
 Minimum: 0.001383
 RateErr: 0

/sg16/usr1/nets/GATEWAY/gateway_lit
 e2.stats
 Frames : 503
 Average: 0.00614105
 Maximum: 0.022345
 2nd Max: 0.012457
 Minimum: 0.000296

/sg16/usr1/nets/GATEWAY/gateway_lit
 e1.stats
 Frames : 502
 Average: 0.00658546
 Maximum: 0.025804
 2nd Max: 0.014137
 Minimum: 0.000297

/sg16/usr1/nets/DISNET/di
 snet7.stats
 PDUs : 1437
 Count : 1062
 Average: 1593.5
 Maximum: 3367
 2nd Max: 2531.65
 Minimum: -1043.66

Frames : 205646
 Average: 0.000237572
 Maximum: 0.012556
 2nd Max: 0.010594
 Minimum: 8.8e-05

PDUs from Net1: 1577
 PDUs from Net2: 1437

PDU Buffer 1
 - Stats from
 CircularBuffer --
 NumPass: 1577
 Average: 0.0466132
 Variance: 0.000103823
 Maximum: 0.077412
 2nd Max: 0.072864
 Minimum: 0.015225

- End Stats from
 CircularBuffer --

PDU Buffer 2
 - Stats from
 CircularBuffer --
 NumPass: 1437
 Average: 0.0453395
 Variance: 9.4859e-05
 Maximum: 0.080576
 2nd Max: 0.077313
 Minimum: 0.006921

- End Stats from
 CircularBuffer --

SNAPPdus.pl
 Average: 0.063386
 Maximum: 1.670919
 Minimum: 0.000002
 Variance: 0.004584
 Std Dev : 0.067703

SNAPTtimes.pl e242t0l.dat
 Sel-J Tss avg.:
 0.0013997157056983487
 Sel-J Tns avg.:
 0.0013481888670805716
 Sel-J Tnr avg.:
 0.0014989025842282221
 Sel-J Trs avg.:
 0.00040274552681999906

Sel-J NIU avg.:
 0.0029025467196384549
 Sel-J Nius avg.:
 0.0013481888670805716
 Sel-J Niur avg.:
 0.0014989025842282221
 Sel-J Tgs avg.:
 0.0032540834990235613
 Sel-J Tgr avg.:
 0.0017998210735624622

DCUAccuracy j15may.025.dat.g
 g15may.025.dat.ownship
 Average: 25.495149957989
 Stdev : 23.108667373657
 Max : 90.458625793457
 Min : 8.829957962036

DCUAccuracy g15may.025.dat.j
 j15may.025.dat.ownship
 Average: 22.743061027275
 Stdev : 22.691104888916
 Max : 98.103210449219
 Min : 0.070710673928

SNAPAccuracy
 ../DCU/j15may.025.dat.1j
 e242t0l.dat.digi1J
 Comparing: ../DCU/j15may.025.dat.1j
 with e242t0l.dat.digi1J
 Average: 14.166235528318
 Stdev : 3.118561983109
 Max : 33.360149383545
 Min : 6.261749744415

SNAPAccuracy
 ../DCU/j15may.025.dat.2j
 e242t0l.dat.digi2J
 Comparing: ../DCU/j15may.025.dat.2j
 with e242t0l.dat.digi2J
 Average: 15.134935549807
 Stdev : 3.209442377090
 Max : 33.360149383545
 Min : 6.720460414886

SNAPAccuracy
 ../DCU/j15may.025.dat.3j
 e242t0l.dat.digi3J
 Comparing: ../DCU/j15may.025.dat.3j
 with e242t0l.dat.digi3J
 Average: 16.714406441395
 Stdev : 3.308155059814
 Max : 33.360149383545
 Min : 7.482083320618

SNAPAccuracy
 ../DCU/j15may.025.dat.1g
 e242t0l.dat.digi1G

Comparing: ../DCU/j15may.025.dat.1g
with e242t0l.dat.digi1G
Average: 25.327481279628
Stdev : 5.247653961182
Max : 83.440536499023
Min : 16.061332702637

SNAPAccuracy
../DCU/j15may.025.dat.2g
e242t0l.dat.digi2G
Comparing: ../DCU/j15may.025.dat.2g
with e242t0l.dat.digi2G
Average: 26.593122861448
Stdev : 8.162410736084
Max : 83.694519042969
Min : 16.282678604126

SNAPAccuracy
../DCU/j15may.025.dat.3g
e242t0l.dat.digi3G
Comparing: ../DCU/j15may.025.dat.3g
with e242t0l.dat.digi3G
Average: 27.833573057008
Stdev : 8.310226440430
Max : 83.694519042969
Min : 16.728443145752

SNAPAccuracy
../DCU/g15may.025.dat.1j
e242t0l.dat.digi1J
Comparing: ../DCU/g15may.025.dat.1j
with e242t0l.dat.digi1J
Average: 26.361304571372
Stdev : 8.339023590088
Max : 83.787994384766
Min : 16.358552932739

SNAPAccuracy
../DCU/g15may.025.dat.2j
e242t0l.dat.digi2J
Comparing: ../DCU/g15may.025.dat.2j
with e242t0l.dat.digi2J
Average: 26.057404409979
Stdev : 3.809656381607
Max : 37.714355468750
Min : 16.571067810059

SNAPAccuracy
../DCU/g15may.025.dat.3j
e242t0l.dat.digi3J
Comparing: ../DCU/g15may.025.dat.3j
with e242t0l.dat.digi3J
Average: 27.511665607728
Stdev : 4.591144084930
Max : 80.026969909668
Min : 16.767969131470

SNAPAccuracy
../DCU/g15may.025.dat.1g
e242t0l.dat.digi1G
Comparing:
../DCU/g15may.025.dat.1g
with e242t0l.dat.digi1G
Average:
14.055030985857
Stdev : 2.872640848160
Max : 33.360149383545
Min : 9.346370697021

SNAPAccuracy
../DCU/g15may.025.dat.2g
e242t0l.dat.digi2G
Comparing:
../DCU/g15may.025.dat.2g
with e242t0l.dat.digi2G
Average:
14.994498452430
Stdev : 2.992377042770
Max : 33.360149383545
Min : 9.849648475647

SNAPAccuracy
../DCU/g15may.025.dat.3g
e242t0l.dat.digi3G
Comparing:
../DCU/g15may.025.dat.3g
with e242t0l.dat.digi3G
Average:
16.639581012534
Stdev : 3.140893936157
Max : 33.360149383545
Min : 10.692438125610

7.3.26 Stats.026

/usr1/figd/DIS2.2/dis4.stats
Frames : 503
Average: 0.00240744
Maximum: 0.009294
2nd Max: 0.008602
Minimum: 0.001176
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
Frames : 503
Average: 0.00265347
Maximum: 0.018686
2nd Max: 0.012952
Minimum: 0.001284
RateErr: 0

/sg16/usr1/nets/GATEWAY/gateway1.s
tats
Frames : 503
Average: 0.00174559
Maximum: 0.011963
2nd Max: 0.000296
Minimum: 0.000296

/sg16/usr1/nets/GATEWAY/gateway2.s
tats
Frames : 503
Average: 0.00181285
Maximum: 0.009492
2nd Max: 0.000395
Minimum: 0.000395

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 24
Count : 21
Average: 1625.78
Maximum: 2525.25
2nd Max: 1264.22
Minimum: 1124.86

Frames : 158491
Average: 0.000236592
Maximum: 0.010395
2nd Max: 0.010198
Minimum: 9.5e-05

PDUs from Net1: 16
PDUs from Net2: 24

PDU Buffer 1
-- Stats from CircularBuffer --
NumPass: 16
Average: 0.0453551
Variance: 5.35746e-05
Maximum: 0.058431
2nd Max: 0.049532
Minimum: 0.033614
-- End Stats from CircularBuffer --

PDU Buffer 2
-- Stats from CircularBuffer --
NumPass: 24
Average: 0.0469614
Variance: 0.00011968
Maximum: 0.069503
2nd Max: 0.065449
Minimum: 0.028078
-- End Stats from CircularBuffer --

SNAPPdus.pl
Average: 0.535947
Maximum: 2.432122
Minimum: 0.007136
Variance: 0.548078
Std Dev : 0.740323

SNAPTimes.pl e212t0d.dat
 Sel-J Tss avg.:
 0.0013429742065786813
 Sel-J Tns avg.:
 0.00097138492076607823
 Sel-J Tnr avg.:
 0.0015104464286744745
 Sel-J Trs avg.:
 0.00050006349241783256
 Sel-J NIU avg.:
 0.0025130496034098397
 Sel-J Nius avg.:
 0.00097138492076607823
 Sel-J Niur avg.:
 0.0015104464286744745
 Sel-J Tgs avg.:
 0.0007149900792726493
 Sel-J Tgr avg.:
 0.00041780753951844952

DCUAccuracy j15may.026.dat.g
 g15may.026.dat.ownship
 Average: 1.178161136444
 Stdev : 1.921193599701
 Max : 16.480171203613
 Min : 0.125293269753

DCUAccuracy g15may.026.dat.j
 j15may.026.dat.ownship
 Average: 1.349260364595
 Stdev : 1.811932682991
 Max : 14.103673934937
 Min : 0.059093147516

SNAPAccuracy
 ../DCU/j15may.026.dat.1j
 e212t0d.dat.digi1J fix
 Comparing: ../DCU/j15may.026.dat.1j
 with e212t0d.dat.digi1J
 Average: 0.080321767356
 Stdev : 0.264400243759
 Max : 5.911000251770
 Min : 0.029699999839

SNAPAccuracy
 ../DCU/j15may.026.dat.2j
 e212t0d.dat.digi2J fix
 Comparing: ../DCU/j15may.026.dat.2j
 with e212t0d.dat.digi2J
 Average: 0.304461191068
 Stdev : 0.328301072121
 Max : 6.296999931335
 Min : 0.236619994044

SNAPAccuracy
 ../DCU/j15may.026.dat.3j
 e212t0d.dat.digi3J fix

Comparing:
 ../DCU/j15may.026.dat.3j
 with e212t0d.dat.digi3J
 Average: 0.624930453169
 Stdev : 0.416044682264
 Max : 6.572000026703
 Min : 0.199000000954

SNAPAccuracy
 ../DCU/j15may.026.dat.1g
 e212t0d.dat.digi1G fix
 Comparing:
 ../DCU/j15may.026.dat.1g
 with e212t0d.dat.digi1G
 Average: 0.285608826160
 Stdev : 0.669333815575
 Max : 6.342999935150
 Min : 0.035550002009

SNAPAccuracy
 ../DCU/j15may.026.dat.2g
 e212t0d.dat.digi2G fix
 Comparing:
 ../DCU/j15may.026.dat.2g
 with e212t0d.dat.digi2G
 Average: 0.265790772206
 Stdev : 0.593998730183
 Max : 6.111000061035
 Min : 0.000000000000

SNAPAccuracy
 ../DCU/j15may.026.dat.3g
 e212t0d.dat.digi3G fix
 Comparing:
 ../DCU/j15may.026.dat.3g
 with e212t0d.dat.digi3G
 Average: 0.600121862764
 Stdev : 0.610944747925
 Max : 6.328999996185
 Min : 0.208000004292

SNAPAccuracy
 ../DCU/g15may.026.dat.1j
 e212t0d.dat.digi1J fix
 Comparing:
 ../DCU/g15may.026.dat.1j
 with e212t0d.dat.digi1J
 Average: 0.188683866770
 Stdev : 0.557477295399
 Max : 6.275000095367
 Min : 0.000699999975

SNAPAccuracy
 ../DCU/g15may.026.dat.2j
 e212t0d.dat.digi2J fix
 Comparing:
 ../DCU/g15may.026.dat.2j
 with e212t0d.dat.digi2J
 Average: 0.325228481587

Stdev : 0.518084228039
 Max : 5.947999954224
 Min : 0.057000000030

SNAPAccuracy
 ../DCU/g15may.026.dat.3j
 e212t0d.dat.digi3J fix
 Comparing: ../DCU/g15may.026.dat.3j
 with e212t0d.dat.digi3J
 Average: 0.648696052702
 Stdev : 0.489933729172
 Max : 5.730000019073
 Min : 0.275000005960

SNAPAccuracy
 ../DCU/g15may.026.dat.1g
 e212t0d.dat.digi1G fix
 Comparing: ../DCU/g15may.026.dat.1g
 with e212t0d.dat.digi1G
 Average: 0.011300220754
 Stdev : 0.016217470169
 Max : 0.060300000012
 Min : 0.000000000000

SNAPAccuracy
 ../DCU/g15may.026.dat.2g
 e212t0d.dat.digi2G fix
 Comparing: ../DCU/g15may.026.dat.2g
 with e212t0d.dat.digi2G
 Average: 0.364775446165
 Stdev : 0.187713950872
 Max : 3.296999931335
 Min : 0.295800000429

SNAPAccuracy
 ../DCU/g15may.026.dat.3g
 e212t0d.dat.digi3G fix
 Comparing: ../DCU/g15may.026.dat.3g
 with e212t0d.dat.digi3G
 Average: 0.683940783921
 Stdev : 0.328870028257
 Max : 5.330999851227
 Min : 0.571999967098

7.3.27 Stats.027

/usr1/figd/DIS2.2/dis4.stats
 Frames : 501
 Average: 0.00255595
 Maximum: 0.009788
 2nd Max: 0.00791
 Minimum: 0.001483
 RateErr: 0

/usr1/figd/DIS2.2/dis3.stats

Frames : 500
Average: 0.00260503
Maximum: 0.012867
2nd Max: 0.009195
Minimum: 0.001581
RateErr: 0

/sg16/usr1/nets/GATEWAY/gateway1.s
tats

Frames : 500
Average: 0.00305648
Maximum: 0.014844
2nd Max: 0.013545
Minimum: 0.000395

/sg16/usr1/nets/GATEWAY/gateway2.s
tats

Frames : 501
Average: 0.00293568
Maximum: 0.011977
2nd Max: 0.01048
Minimum: 0.000297

/sg16/usr1/nets/DISNET/disnet7.stats

PDUs : 487
Count : 479
Average: 1535.6
Maximum: 2531.65
2nd Max: 2531.65
Minimum: -110.963

Frames : 188711
Average: 0.000231192
Maximum: 0.010297
2nd Max: 0.010198
Minimum: 9.5e-05

PDUs from Net1: 476
PDUs from Net2: 488

PDU Buffer 1

-- Stats from CircularBuffer --
NumPass: 476
Average: 0.0444422
Variance: 8.96886e-05
Maximum: 0.07237
2nd Max: 0.064363
Minimum: 0.018488
-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --
NumPass: 488
Average: 0.0447932
Variance: 9.35956e-05
Maximum: 0.07367
2nd Max: 0.072371
Minimum: 0.019378
-- End Stats from CircularBuffer --

SNAPPdus.pl
Average: 0.123918
Maximum: 1.171241
Minimum: 0.000021
Variance: 0.011035
Std Dev : 0.105049

SNAPTtimes.pl e222t0d.dat

Sel-J Tss avg.:
0.0012776918486978074
Sel-J Tns avg.:
0.00085180318103381103
Sel-J Tnr avg.:
0.0015335029821864203
Sel-J Trs avg.:
0.00062563021842734681
Sel-J NIU avg.:
0.0024368210737517096
Sel-J Nius avg.:
0.00085180318103381103
Sel-J Niur avg.:
0.0015335029821864203
Sel-J Tgs avg.:
0.0013124194836267595
Sel-J Tgr avg.:
0.001037596420899439

DCUAccuracy

j15may.027.dat.g
g15may.027.dat.ownship
Average: 0.983124183291
Stddev : 0.948954939842
Max : 5.824259757996
Min : 0.119576081634

DCUAccuracy

g15may.027.dat.j
j15may.027.dat.ownship
Average: 1.296171885248
Stddev : 1.086813330650
Max : 5.329166412354
Min : 0.027658633888

SNAPAccuracy

../DCU/j15may.027.dat.1j
e222t0d.dat.digi1J

Comparing:

../DCU/j15may.027.dat.1j
with e222t0d.dat.digi1J
Average: 0.071335361249
Stddev : 0.018903097138
Max : 0.119300000370
Min : 0.008600000292

SNAPAccuracy

../DCU/j15may.027.dat.2j
e222t0d.dat.digi2J

Comparing: ../DCU/j15may.027.dat.2j
with e222t0d.dat.digi2J
Average: 0.271567094757
Stddev : 0.020990483463
Max : 0.335000008345
Min : 0.177699998021

SNAPAccuracy

../DCU/j15may.027.dat.3j
e222t0d.dat.digi3J
Comparing: ../DCU/j15may.027.dat.3j
with e222t0d.dat.digi3J
Average: 8.014437972063
Stddev : 1.938682913780
Max : 10.069342613220
Min : 1.746380567551

SNAPAccuracy

../DCU/j15may.027.dat.1g
e222t0d.dat.digi1G
Comparing: ../DCU/j15may.027.dat.1g
with e222t0d.dat.digi1G
Average: 0.257451012761
Stddev : 0.106628738344
Max : 0.460000008345
Min : 0.054749999195

SNAPAccuracy

../DCU/j15may.027.dat.2g
e222t0d.dat.digi2G
Comparing: ../DCU/j15may.027.dat.2g
with e222t0d.dat.digi2G
Average: 0.112432653151
Stddev : 0.078264027834
Max : 0.289000004530
Min : 0.000000000000

SNAPAccuracy

../DCU/j15may.027.dat.3g
e222t0d.dat.digi3G
Comparing: ../DCU/j15may.027.dat.3g
with e222t0d.dat.digi3G
Average: 24.829984832872
Stddev : 6.066266536713
Max : 37.067764282227
Min : 3.194967508316

SNAPAccuracy

../DCU/g15may.027.dat.1j
e222t0d.dat.digi1J
Comparing: ../DCU/g15may.027.dat.1j
with e222t0d.dat.digi1J
Average: 0.195139344772
Stddev : 0.106305643916
Max : 0.409999996424
Min : 0.004000000190

SNAPAccuracy
 ../DCU/g15may.027.dat.2j
 e222t0d.dat.digi2J
 Comparing: ../DCU/g15may.027.dat.2j
 with e222t0d.dat.digi2J
 Average: 0.163307377273
 Stdev : 0.102758429945
 Max : 0.373999983072
 Min : 0.001000000047

SNAPAccuracy
 ../DCU/g15may.027.dat.3j
 e222t0d.dat.digi3J
 Comparing: ../DCU/g15may.027.dat.3j
 with e222t0d.dat.digi3J
 Average: 25.107179210019
 Stdev : 5.501130580902
 Max : 38.580738067627
 Min : 5.095469951630

SNAPAccuracy
 ../DCU/g15may.027.dat.1g
 e222t0d.dat.digi1G
 Comparing: ../DCU/g15may.027.dat.1g
 with e222t0d.dat.digi1G
 Average: 0.012897610375
 Stdev : 0.016522066668
 Max : 0.067999996245
 Min : 0.000000000000

SNAPAccuracy
 ../DCU/g15may.027.dat.2g
 e222t0d.dat.digi2G
 Comparing: ../DCU/g15may.027.dat.2g
 with e222t0d.dat.digi2G
 Average: 0.348901890488
 Stdev : 0.023379869759
 Max : 0.444600015879
 Min : 0.275600016117

SNAPAccuracy
 ../DCU/g15may.027.dat.3g
 e222t0d.dat.digi3G
 Comparing: ../DCU/g15may.027.dat.3g
 with e222t0d.dat.digi3G
 Average: 7.966758637064
 Stdev : 1.959855079651
 Max : 10.059631347656
 Min : 1.903706192970

7.3.28 Stats.028

/usr1/figd/DIS2.2/dis4.stats

Frames : 503
 Average: 0.00285645
 Maximum: 0.009294
 2nd Max: 0.008305
 Minimum: 0.001482
 RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
 Frames : 503
 Average: 0.00263772
 Maximum: 0.00702
 2nd Max: 0.001383
 Minimum: 0.001383
 RateErr: 0

/sg16/usr1/nets/GATEWA
 Y/gateway1.stats
 Frames : 503
 Average: 0.00416128
 Maximum: 0.015833
 2nd Max: 0.013644
 Minimum: 0.000395

/sg16/usr1/nets/GATEWA
 Y/gateway2.stats
 Frames : 503
 Average: 0.00393224
 Maximum: 0.021355
 2nd Max: 0.011666
 Minimum: 0.000296

/sg16/usr1/nets/DISNET/di
 snet7.stats
 PDUs : 954
 Count : 722
 Average: 1473.09
 Maximum: 3367
 2nd Max: 2531.65
 Minimum: -9259.26

Frames : 239784
 Average: 0.000232187
 Maximum: 0.013941
 2nd Max: 0.011667
 Minimum: 9.5e-05

PDUs from Net1: 942
 PDUs from Net2: 955

PDU Buffer 1
 -- Stats from
 CircularBuffer --
 NumPass: 942
 Average: 0.0457394
 Variance: 9.26617e-05
 Maximum: 0.072963
 2nd Max: 0.06802
 Minimum: 0.016213

-- End Stats from CircularBuffer --

PDU Buffer 2
 -- Stats from CircularBuffer --
 NumPass: 955
 Average: 0.044874
 Variance: 9.34286e-05
 Maximum: 0.075138
 2nd Max: 0.068515
 Minimum: 0.011073
 -- End Stats from CircularBuffer --

SNAPPdus.pl
 Average: 0.091618
 Maximum: 1.104167
 Minimum: 0.000018
 Variance: 0.003843
 Std Dev : 0.061989

SNAPTimes.pl e232t0d.dat
 Sel-J Tss avg.:
 0.0013450457256590062
 Sel-J Tns avg.:
 0.00089906163049734958
 Sel-J Tnr avg.:
 0.0016345069581972782
 Sel-J Trs avg.:
 0.00047962027844333202
 Sel-J NIU avg.:
 0.0025699065607811822
 Sel-J Nius avg.:
 0.00089906163049734958
 Sel-J Niur avg.:
 0.0016345069581972782
 Sel-J Tgs avg.:
 0.0019798528828144824
 Sel-J Tgr avg.:
 0.0014879642147073249

DCUAccuracy j15may.028.dat.g
 g15may.028.dat.ownship
 Average: 1.163827487558
 Stdev : 2.119851589203
 Max : 14.410882949829
 Min : 0.047598876059

DCUAccuracy g15may.028.dat.j
 j15may.028.dat.ownship
 Average: 1.564423444213
 Stdev : 2.207443475723
 Max : 13.485103607178
 Min : 0.028635641560

SNAPAccuracy
 ../DCU/j15may.028.dat.1j
 e232t0d.dat.digi1J
 Comparing: ../DCU/j15may.028.dat.1j
 with e232t0d.dat.digi1J
 Average: 0.107510744594

Stdev : 0.317564964294
Max : 3.101000070572
Min : 0.000399999999

SNAPAccuracy

../DCU/j15may.028.dat.2j
e232t0d.dat.digi2J
Comparing: ../DCU/j15may.028.dat.2j
with e232t0d.dat.digi2J
Average: 5.568721788750
Stdev : 2.475700855255
Max : 18.999366760254
Min : 0.923450052738

SNAPAccuracy

../DCU/j15may.028.dat.3j
e232t0d.dat.digi3J
Comparing: ../DCU/j15may.028.dat.3j
with e232t0d.dat.digi3J
Average: 7.916027635876
Stdev : 2.109972238541
Max : 18.244255065918
Min : 1.891004204750

SNAPAccuracy

../DCU/j15may.028.dat.1g
e232t0d.dat.digi1G
Comparing: ../DCU/j15may.028.dat.1g
with e232t0d.dat.digi1G
Average: 0.342513477952
Stdev : 0.858523786068
Max : 6.310800075531
Min : 0.039299998432

SNAPAccuracy

../DCU/j15may.028.dat.2g
e232t0d.dat.digi2G
Comparing: ../DCU/j15may.028.dat.2g
with e232t0d.dat.digi2G
Average: 23.290835797302
Stdev : 5.946616649628
Max : 38.462871551514
Min : 3.450977325439

SNAPAccuracy

../DCU/j15may.028.dat.3g
e232t0d.dat.digi3G
Comparing: ../DCU/j15may.028.dat.3g
with e232t0d.dat.digi3G
Average: 25.362099776423
Stdev : 6.223466396332
Max : 42.151412963867
Min : 3.845486164093

SNAPAccuracy

../DCU/g15may.028.dat.1j
e232t0d.dat.digi1J
Comparing: ../DCU/g15may.028.dat.1j
with e232t0d.dat.digi1J

Average: 0.287611969658
Stdev : 0.881554543972
Max : 6.221800327301
Min : 0.001099999994

SNAPAccuracy

../DCU/g15may.028.dat.2j
e232t0d.dat.digi2J
Comparing: ../DCU/g15may.028.dat.2j
with e232t0d.dat.digi2J
Average: 23.412750293469
Stdev : 6.160529613495
Max : 38.697311401367
Min : 2.917128086090

SNAPAccuracy

../DCU/g15may.028.dat.3j
e232t0d.dat.digi3J
Comparing: ../DCU/g15may.028.dat.3j
with e232t0d.dat.digi3J
Average: 25.400375650572
Stdev : 6.411759376526
Max : 42.289909362793
Min : 3.473199367523

SNAPAccuracy

../DCU/g15may.028.dat.1g
e232t0d.dat.digi1G
Comparing: ../DCU/g15may.028.dat.1g
with e232t0d.dat.digi1G
Average: 0.041358571048
Stdev : 0.297161370516
Max : 3.042000055313
Min : 0.000000000000

SNAPAccuracy

../DCU/g15may.028.dat.2g
e232t0d.dat.digi2G
Comparing: ../DCU/g15may.028.dat.2g
with e232t0d.dat.digi2G
Average: 5.632222447837
Stdev : 2.502779722214
Max : 18.860361099243
Min : 1.129910588264

SNAPAccuracy

../DCU/g15may.028.dat.3g
e232t0d.dat.digi3G
Comparing: ../DCU/g15may.028.dat.3g
with e232t0d.dat.digi3G
Average: 7.946238104726
Stdev : 2.103248119354

Max : 18.057571411133
Min : 2.127623319626

7.3.29 Stats.029

/usr1/figd/DIS2.2/dis4.stats
Frames : 503
Average: 0.00283001
Maximum: 0.012274
2nd Max: 0.009887
Minimum: 0.001285
RateErr: 0

/usr1/figd/DIS2.2/dis3.stats
Frames : 503
Average: 0.00301181
Maximum: 0.012571
2nd Max: 0.011468
Minimum: 0.001384
RateErr: 0

/sg16/usr1/nets/GATEWAY/gateway1.s
tats
Frames : 503
Average: 0.00505439
Maximum: 0.014928
2nd Max: 0.013445
Minimum: 0.000395

/sg16/usr1/nets/GATEWAY/gateway2.s
tats
Frames : 503
Average: 0.00507717
Maximum: 0.015126
2nd Max: 0.014533
Minimum: 0.000297

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 1406
Count : 887
Average: 1626.1
Maximum: 3367
2nd Max: 2538.07
Minimum: -623.247

Frames : 211583
Average: 0.000239094
Maximum: 0.016312
2nd Max: 0.013347
Minimum: 9.5e-05

PDUs from Net1: 1395
PDUs from Net2: 1407

PDU Buffer 1

-- Stats from CircularBuffer --
 NumPass: 1395
 Average: 0.0460945
 Variance: 9.3892e-05
 Maximum: 0.08148
 2nd Max: 0.068316
 Minimum: 0.015126
 -- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --
 NumPass: 1407
 Average: 0.0461566
 Variance: 0.000100004
 Maximum: 0.079884
 2nd Max: 0.067032
 Minimum: 0.013445
 -- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.075630
 Maximum: 2.041934
 Minimum: 0.000017
 Variance: 0.011362
 Std Dev : 0.106594

SNAPTimes.pl e242t0d.dat

Sel-J Tss avg.:
 0.0013245924456493103
 Sel-J Tns avg.:
 0.0010168628234700457
 Sel-J Tnr avg.:
 0.0018626660039770151
 Sel-J Trs avg.:
 0.00040528429430843727
 Sel-J NIU avg.:
 0.002938129225140345
 Sel-J Nius avg.:
 0.0010168628234700457
 Sel-J Niur avg.:
 0.0018626660039770151
 Sel-J Tgs avg.:
 0.0024347395623296269
 Sel-J Tgr avg.:
 0.0019555487076644961

DCUAccuracy j15may.029.dat.g

g15may.029.dat.ownship
 Average: 0.941233519661
 Stdev : 1.105089426041
 Max : 15.980352401733
 Min : 0.053143322468

DCUAccuracy g15may.029.dat.j

j15may.029.dat.ownship
 Average: 1.343451496184
 Stdev : 1.260017752647
 Max : 13.809101104736
 Min : 0.043320205063

SNAPAccuracy

../DCU/j15may.029.dat.1j
 e242t0d.dat.digi1J
 Comparing:
 ../DCU/j15may.029.dat.1j
 with e242t0d.dat.digi1J
 Average: 4.356715006283
 Stdev : 1.312168717384
 Max : 10.251714706421
 Min : 0.561636209488

SNAPAccuracy

../DCU/j15may.029.dat.2j
 e242t0d.dat.digi2J
 Comparing:
 ../DCU/j15may.029.dat.2j
 with e242t0d.dat.digi2J
 Average: 4.733193406140
 Stdev : 1.844073414803
 Max : 10.130471229553
 Min : 1.057794809341

SNAPAccuracy

../DCU/j15may.029.dat.3j
 e242t0d.dat.digi3J
 Comparing:
 ../DCU/j15may.029.dat.3j
 with e242t0d.dat.digi3J
 Average: 7.640180176042
 Stdev : 2.184703350067
 Max : 10.062777519226
 Min : 1.904669523239

SNAPAccuracy

../DCU/j15may.029.dat.1g
 e242t0d.dat.digi1G
 Comparing:
 ../DCU/j15may.029.dat.1g
 with e242t0d.dat.digi1G
 Average:
 22.619628911136
 Stdev : 5.193712234497
 Max : 38.775722503662
 Min : 3.398098945618

SNAPAccuracy

../DCU/j15may.029.dat.2g
 e242t0d.dat.digi2G
 Comparing:
 ../DCU/j15may.029.dat.2g
 with e242t0d.dat.digi2G
 Average:
 23.002721569799
 Stdev : 5.866126537323
 Max : 40.007953643799
 Min : 2.887112855911

SNAPAccuracy

../DCU/j15may.029.dat.3g
 e242t0d.dat.digi3G
 Comparing: ../DCU/j15may.029.dat.3g
 with e242t0d.dat.digi3G
 Average: 25.760248593342
 Stdev : 5.775040626526
 Max : 41.328365325928
 Min : 5.095469951630

SNAPAccuracy

../DCU/g15may.029.dat.1j
 e242t0d.dat.digi1J
 Comparing: ../DCU/g15may.029.dat.1j
 with e242t0d.dat.digi1J
 Average: 22.247332044941
 Stdev : 5.523328781128
 Max : 34.320606231689
 Min : 2.750246047974

SNAPAccuracy

../DCU/g15may.029.dat.2j
 e242t0d.dat.digi2J
 Comparing: ../DCU/g15may.029.dat.2j
 with e242t0d.dat.digi2J
 Average: 22.648491867158
 Stdev : 5.747748851776
 Max : 35.736854553223
 Min : 2.938859701157

SNAPAccuracy

../DCU/g15may.029.dat.3j
 e242t0d.dat.digi3J
 Comparing: ../DCU/g15may.029.dat.3j
 with e242t0d.dat.digi3J
 Average: 25.103067578574
 Stdev : 6.261007308960
 Max : 38.824218750000
 Min : 3.473199367523

SNAPAccuracy

../DCU/g15may.029.dat.1g
 e242t0d.dat.digi1G
 Comparing: ../DCU/g15may.029.dat.1g
 with e242t0d.dat.digi1G
 Average: 4.326428152351
 Stdev : 1.308157682419
 Max : 12.043653488159
 Min : 0.500287950039

SNAPAccuracy

../DCU/g15may.029.dat.2g
 e242t0d.dat.digi2G
 Comparing: ../DCU/g15may.029.dat.2g
 with e242t0d.dat.digi2G
 Average: 4.854277766134
 Stdev : 1.960909962654
 Max : 12.582414627075
 Min : 1.129910588264

SNAPAccuracy
 ../DCU/g15may.029.dat.3g
 e242t0d.dat.digi3G
 Comparing: ../DCU/g15may.029.dat.3g
 with e242t0d.dat.digi3G
 Average: 7.772070040186
 Stdev : 2.125646829605
 Max : 15.430429458618
 Min : 2.061659812927

7.3.30 Stats.030

/usr1/figd/DIS2.2/dis4.stats
 /usr1/figd/DIS2.2/dis3.stats
 /usr1/figd/DIS2.2/dis_lite3.stats
 Frames : 500
 Average: 0.00267747
 Maximum: 0.008898
 2nd Max: 0.004251
 Minimum: 0.001483
 RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.stats
 Frames : 501
 Average: 0.00270793
 Maximum: 0.012472
 2nd Max: 0.0088
 Minimum: 0.001582
 RateErr: 0

/sg16/usr1/nets/GATEWAY/gateway_lit
 e2.stats
 Frames : 501
 Average: 0.00250522
 Maximum: 0.014335
 2nd Max: 0.00959
 Minimum: 0.000198

/sg16/usr1/nets/GATEWAY/gateway_lit
 e1.stats
 Frames : 500
 Average: 0.00263716
 Maximum: 0.013941
 2nd Max: 0.012358
 Minimum: 0.000296

/sg16/usr1/nets/GATEWAY/gateway1.s
 tats
 Frames : 2
 Average: 0.0036085
 Maximum: 0.006822
 2nd Max: 0.000395
 Minimum: 0.000395

/sg16/usr1/nets/GATEWA
 Y/gateway2.stats
 Frames : 2
 Average: 0.002619
 Maximum: 0.004843
 2nd Max: 0.000395
 Minimum: 0.000395

/sg16/usr1/nets/DISNET/di
 snet7.stats
 PDUs : 55
 Count : 49
 Average: 1300.23
 Maximum: 2525.25
 2nd Max: 2024.29
 Minimum: -4784.69

Frames : 218245
 Average: 0.000228225
 Maximum: 0.010298
 2nd Max: 0.010198
 Minimum: 5.9e-05
 PDUs from Net1: 185
 PDUs from Net2: 55

PDU Buffer 1
 -- Stats from
 CircularBuffer --
 NumPass: 185
 Average: 0.0448073
 Variance: 0.000102113
 Maximum: 0.068415
 2nd Max: 0.065548
 Minimum: 0.020071
 -- End Stats from
 CircularBuffer --

PDU Buffer 2
 -- Stats from
 CircularBuffer --
 NumPass: 55
 Average: 0.0456328
 Variance: 0.000130553
 Maximum: 0.07504
 2nd Max: 0.04795
 Minimum: 0.014039
 -- End Stats from
 CircularBuffer --

SNAPPdus.pl
 Average: 0.174453
 Maximum: 2.188749
 Minimum: 0.000166
 Variance: 0.080478
 Std Dev : 0.283687

SNAPTtimes.pl
 e212t0dl.dat

Sel-J Tss avg.:
 0.0014208588474275078
 Sel-J Tns avg.:
 0.0013248270380872655
 Sel-J Tnr avg.:
 0.0012092882702863085
 Sel-J Trs avg.:
 0.00062405169004954911
 Sel-J NIU avg.:
 0.0026123876742778851
 Sel-J Nius avg.:
 0.0013248270380872655
 Sel-J Niur avg.:
 0.0012092882702863085
 Sel-J Tgs avg.:
 0.0012624433397099739
 Sel-J Tgr avg.:
 0.00067703379694211327

DCUAccuracy j15may.030.dat.g
 g15may.030.dat.ownship
 Average: 14.258544315879
 Stdev : 28.734155654907
 Max : 91.483634948730
 Min : 0.041115082800

DCUAccuracy g15may.030.dat.j
 j15may.030.dat.ownship
 Average: 19.832881525008
 Stdev : 29.933147430420
 Max : 94.990180969238
 Min : 0.055803224444

SNAPAccuracy
 ../DCU/j15may.030.dat.1j
 e212t0dl.dat.digi1J
 Comparing: ../DCU/j15may.030.dat.1j
 with e212t0dl.dat.digi1J
 Average: 0.104289094470
 Stdev : 0.596920311451
 Max : 12.000000000000
 Min : 0.000000000000

SNAPAccuracy
 ../DCU/j15may.030.dat.2j
 e212t0dl.dat.digi2J
 Comparing: ../DCU/j15may.030.dat.2j
 with e212t0dl.dat.digi2J
 Average: 0.346112820554
 Stdev : 0.582596778870
 Max : 12.000000000000
 Min : 0.000000000000

SNAPAccuracy
 ../DCU/j15may.030.dat.3j
 e212t0dl.dat.digi3J
 Comparing: ../DCU/j15may.030.dat.3j
 with e212t0dl.dat.digi3J
 Average: 0.668180225661

Stdev : 0.564020037651
Max : 12.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j15may.030.dat.1g
e212t0dl.dat.digi1G
Comparing: ../DCU/j15may.030.dat.1g
with e212t0dl.dat.digi1G
Average: 23.631593549782
Stdev : 0.215781807899
Max : 24.024599075317
Min : 23.250000000000

SNAPAccuracy
../DCU/j15may.030.dat.2g
e212t0dl.dat.digi2G
Comparing: ../DCU/j15may.030.dat.2g
with e212t0dl.dat.digi2G
Average: 20.930201812312
Stdev : 3.117240428925
Max : 36.000000000000
Min : 17.633998870850

SNAPAccuracy
../DCU/j15may.030.dat.3g
e212t0dl.dat.digi3G
Comparing: ../DCU/j15may.030.dat.3g
with e212t0dl.dat.digi3G
Average: 20.930201812312
Stdev : 3.117240428925
Max : 36.000000000000
Min : 17.633998870850

SNAPAccuracy
../DCU/g15may.030.dat.1j
e212t0dl.dat.digi1J
Comparing: ../DCU/g15may.030.dat.1j
with e212t0dl.dat.digi1J
Average: 20.921926861350
Stdev : 3.131692409515
Max : 36.000000000000
Min : 17.604000091553

SNAPAccuracy
../DCU/g15may.030.dat.2j
e212t0dl.dat.digi2J
Comparing: ../DCU/g15may.030.dat.2j
with e212t0dl.dat.digi2J
Average: 20.921926861350
Stdev : 3.131692409515
Max : 36.000000000000
Min : 17.604000091553

SNAPAccuracy
../DCU/g15may.030.dat.3j
e212t0dl.dat.digi3J
Comparing: ../DCU/g15may.030.dat.3j
with e212t0dl.dat.digi3J

Average:
26.641098929803
Stdev : 2.881231546402
Max : 36.000000000000
Min : 18.000000000000

SNAPAccuracy
../DCU/g15may.030.dat.1g
e212t0dl.dat.digi1G
Comparing:
../DCU/g15may.030.dat.1g
with e212t0dl.dat.digi1G
Average: 0.046913299693
Stdev : 0.600295066833
Max : 12.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/g15may.030.dat.2g
e212t0dl.dat.digi2G
Comparing:
../DCU/g15may.030.dat.2g
with e212t0dl.dat.digi2G
Average: 0.424860317103
Stdev : 0.577952325344
Max : 12.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/g15may.030.dat.3g
e212t0dl.dat.digi3G
Comparing:
../DCU/g15may.030.dat.3g
with e212t0dl.dat.digi3G
Average: 0.749140708859
Stdev : 0.559327840805
Max : 12.000000000000
Min : 0.000000000000

7.3.31 Stats.031

/usr1/figd/DIS2.2/dis_lite3.
stats
Frames : 501
Average: 0.0028075
Maximum: 0.006822
2nd Max: 0.006525
Minimum: 0.001581
RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.
stats
Frames : 501
Average: 0.00275726
Maximum: 0.012966

2nd Max: 0.007316
Minimum: 0.001582
RateErr: 0

/sg16/usr1/nets/GATEWAY/gateway_lit
e2.stats
Frames : 501
Average: 0.00368969
Maximum: 0.017994
2nd Max: 0.011666
Minimum: 0.000197

/sg16/usr1/nets/GATEWAY/gateway_lit
e1.stats
Frames : 501
Average: 0.00402909
Maximum: 0.012753
2nd Max: 0.003954
Minimum: 0.000296

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 524
Count : 488
Average: 1544.12
Maximum: 3367
2nd Max: 2531.65
Minimum: -560.774

Frames : 219547
Average: 0.000228581
Maximum: 0.01089
2nd Max: 0.010198
Minimum: 9.5e-05

PDUs from Net1: 652
PDUs from Net2: 524

PDU Buffer 1
-- Stats from CircularBuffer --
NumPass: 652
Average: 0.045473
Variance: 9.64523e-05
Maximum: 0.076537
2nd Max: 0.075435
Minimum: 0.012655
-- End Stats from CircularBuffer --

PDU Buffer 2
-- Stats from CircularBuffer --
NumPass: 524
Average: 0.0444363
Variance: 9.16066e-05
Maximum: 0.069602
2nd Max: 0.06843
Minimum: 0.018587
-- End Stats from CircularBuffer --

SNAPPdus.pl
Average: 0.081099

Maximum: 1.830305
Minimum: 0.000005
Variance: 0.010439
Std Dev : 0.102172

SNAPTimes.pl e222t0dl.dat
Sel-J Tss avg.:
0.0013857693834659398
Sel-J Tns avg.:
0.0013552723660399475
Sel-J Tnr avg.:
0.0013364194831593337
Sel-J Trs avg.:
0.00040231610344682131
Sel-J NIU avg.:
0.0027306660041261639
Sel-J Nius avg.:
0.0013552723660399475
Sel-J Niur avg.:
0.0013364194831593337
Sel-J Tgs avg.:
0.0018727236578266913
Sel-J Tgr avg.:
0.0012724552686936288

DCUAccuracy j15may.031.dat.g
g15may.031.dat.ownship
Average: 15.003149708839
Stdev : 27.992132186890
Max : 89.670639038086
Min : 0.039813823998

DCUAccuracy g15may.031.dat.j
j15may.031.dat.ownship
Average: 13.642307178379
Stdev : 22.098327636719
Max : 94.018974304199
Min : 0.131244048476

SNAPAccuracy
../DCU/j15may.031.dat.1j
e222t0dl.dat.digi1J
Comparing: ../DCU/j15may.031.dat.1j
with e222t0dl.dat.digi1J
Average: 0.190784277944
Stdev : 0.775004029274
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j15may.031.dat.2j
e222t0dl.dat.digi2J
Comparing: ../DCU/j15may.031.dat.2j
with e222t0dl.dat.digi2J
Average: 0.441427730728
Stdev : 0.888626039028
Max : 12.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j15may.031.dat.3j
e222t0dl.dat.digi3J
Comparing:
../DCU/j15may.031.dat.3j
with e222t0dl.dat.digi3J
Average: 4.770097684812
Stdev : 2.344663619995
Max : 33.360149383545
Min : 1.862884044647

SNAPAccuracy
../DCU/j15may.031.dat.1g
e222t0dl.dat.digi1G
Comparing:
../DCU/j15may.031.dat.1g
with e222t0dl.dat.digi1G
Average:
23.873933703130
Stdev : 0.713566124439
Max : 29.976900100708
Min : 21.487998962402

SNAPAccuracy
../DCU/j15may.031.dat.2g
e222t0dl.dat.digi2G
Comparing:
../DCU/j15may.031.dat.2g
with e222t0dl.dat.digi2G
Average:
26.916530632344
Stdev : 3.094236612320
Max : 35.976898193359
Min : 21.549999237061

SNAPAccuracy
../DCU/j15may.031.dat.3g
e222t0dl.dat.digi3G
Comparing:
../DCU/j15may.031.dat.3g
with e222t0dl.dat.digi3G
Average:
23.885841236153
Stdev : 9.233423233032
Max : 83.730163574219
Min : 4.270264625549

SNAPAccuracy
../DCU/g15may.031.dat.1j
e222t0dl.dat.digi1J
Comparing:
../DCU/g15may.031.dat.1j
with e222t0dl.dat.digi1J
Average:
23.834083019357
Stdev : 0.416068643332
Max : 29.875999450684
Min : 21.572000503540

SNAPAccuracy
../DCU/g15may.031.dat.2j
e222t0dl.dat.digi2J
Comparing: ../DCU/g15may.031.dat.2j
with e222t0dl.dat.digi2J
Average: 29.644941581432
Stdev : 0.456480085850
Max : 35.630001068115
Min : 27.344999313354

SNAPAccuracy
../DCU/g15may.031.dat.3j
e222t0dl.dat.digi3J
Comparing: ../DCU/g15may.031.dat.3j
with e222t0dl.dat.digi3J
Average: 23.332757564877
Stdev : 9.358803749084
Max : 83.815643310547
Min : 4.872584819794

SNAPAccuracy
../DCU/g15may.031.dat.1g
e222t0dl.dat.digi1G
Comparing: ../DCU/g15may.031.dat.1g
with e222t0dl.dat.digi1G
Average: 0.080110765321
Stdev : 0.720819532871
Max : 12.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/g15may.031.dat.2g
e222t0dl.dat.digi2G
Comparing: ../DCU/g15may.031.dat.2g
with e222t0dl.dat.digi2G
Average: 0.459770618730
Stdev : 0.695485174656
Max : 12.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/g15may.031.dat.3g
e222t0dl.dat.digi3G
Comparing: ../DCU/g15may.031.dat.3g
with e222t0dl.dat.digi3G
Average: 5.704382898822
Stdev : 2.544368028641
Max : 33.360149383545
Min : 2.094376564026

7.3.32 Stats.032

/usr1/figd/DIS2.2/dis_lite3.stats
Frames : 503
Average: 0.0027608

Maximum: 0.009689
2nd Max: 0.001681
Minimum: 0.001681
RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.stats
Frames : 503

Average: 0.00309096
Maximum: 0.009392
2nd Max: 0.001681
Minimum: 0.001681
RateErr: 0

/sg16/usr1/nets/GATEWAY/gateway_lit
e2.stats

Frames : 503
Average: 0.00484213
Maximum: 0.017414
2nd Max: 0.015028
Minimum: 0.000297

/sg16/usr1/nets/GATEWAY/gateway_lit
e1.stats

Frames : 503
Average: 0.0087976
Maximum: 0.027401
2nd Max: 0.019872
Minimum: 0.000297

/sg16/usr1/nets/DISNET/disnet7.stats

PDUs : 997
Count : 836
Average: 1597.19
Maximum: 3378.38
2nd Max: 3367
Minimum: -232.126

Frames : 174504
Average: 0.000237637
Maximum: 0.011977
2nd Max: 0.010989
Minimum: 9.5e-05

PDUs from Net1: 1111
PDUs from Net2: 997

PDU Buffer 1

-- Stats from CircularBuffer --
NumPass: 1111
Average: 0.0451918
Variance: 0.000104629
Maximum: 0.091353
2nd Max: 0.072469
Minimum: 0.011666
-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --
NumPass: 997

Average: 0.0454681
Variance: 0.000112936
Maximum: 0.079786
2nd Max: 0.075633
Minimum: 0.013545

-- End Stats from
CircularBuffer --

SNAPPdus.pl

Average: 0.065479
Maximum: 1.298247
Minimum: 0.000013
Variance: 0.002783
Std Dev : 0.052755

SNAPTtimes.pl

e232t0dl.dat
Sel-J Tss avg.:
0.0013296858846255305
Sel-J Tns avg.:
0.0012630616302500622
Sel-J Tnr avg.:
0.0013970894637544478
Sel-J Trs avg.:
0.00062428230611157509
Sel-J NIU avg.:
0.0026988886684935196
Sel-J Nius avg.:
0.0012630616302500622
Sel-J Niur avg.:
0.0013970894637544478
Sel-J Tgs avg.:
0.0048796322067866703
Sel-J Tgr avg.: -
0.00013930019906932157

DCUAccuracy

j15may.032.dat.g
g15may.032.dat.ownship
Average: 4.004088411225
Stdev : 11.982272148132
Max : 73.621421813965
Min : 0.032005563378

DCUAccuracy

g15may.032.dat.j
j15may.032.dat.ownship
Average: 3.851970902482
Stdev : 12.119730949402
Max : 64.973213195801
Min : 0.052773099393

SNAPAccuracy

../DCU/j15may.032.dat.1j
e232t0dl.dat.digi1J
Comparing:
../DCU/j15may.032.dat.1j
with e232t0dl.dat.digi1J
Average: 0.137059110821

Stdev : 0.702714383602
Max : 12.000000000000
Min : 0.000000000000

SNAPAccuracy

../DCU/j15may.032.dat.2j
e232t0dl.dat.digi2J
Comparing: ../DCU/j15may.032.dat.2j
with e232t0dl.dat.digi2J
Average: 4.760306677192
Stdev : 2.270246744156
Max : 33.360149383545
Min : 1.054468631744

SNAPAccuracy

../DCU/j15may.032.dat.3j
e232t0dl.dat.digi3J
Comparing: ../DCU/j15may.032.dat.3j
with e232t0dl.dat.digi3J
Average: 6.558944405931
Stdev : 2.953243017197
Max : 33.360149383545
Min : 1.816126942635

SNAPAccuracy

../DCU/j15may.032.dat.1g
e232t0dl.dat.digi1G
Comparing: ../DCU/j15may.032.dat.1g
with e232t0dl.dat.digi1G
Average: 20.166558362665
Stdev : 4.739023208618
Max : 36.000000000000
Min : 0.057999998331

SNAPAccuracy

../DCU/j15may.032.dat.2g
e232t0dl.dat.digi2G
Comparing: ../DCU/j15may.032.dat.2g
with e232t0dl.dat.digi2G
Average: 22.966395788076
Stdev : 9.237516403198
Max : 94.343276977539
Min : 3.297692775726

SNAPAccuracy

../DCU/j15may.032.dat.3g
e232t0dl.dat.digi3G
Comparing: ../DCU/j15may.032.dat.3g
with e232t0dl.dat.digi3G
Average: 23.831720291114
Stdev : 8.493778228760
Max : 81.232055664062
Min : 4.145637512207

SNAPAccuracy

../DCU/g15may.032.dat.1j
e232t0dl.dat.digi1J
Comparing: ../DCU/g15may.032.dat.1j
with e232t0dl.dat.digi1J

Average: 22.795016791822
Stddev : 4.530866146088
Max : 36.000000000000
Min : 0.004000000190

SNAPAccuracy
../DCU/g15may.032.dat.2j
e232t0dl.dat.digi2J
Comparing: ../DCU/g15may.032.dat.2j
with e232t0dl.dat.digi2J
Average: 23.576828778759
Stddev : 9.364469528198
Max : 83.565254211426
Min : 3.366096258163

SNAPAccuracy
../DCU/g15may.032.dat.3j
e232t0dl.dat.digi3J
Comparing: ../DCU/g15may.032.dat.3j
with e232t0dl.dat.digi3J
Average: 24.530070671221
Stddev : 9.879047393799
Max : 93.822662353516
Min : 4.241505622864

SNAPAccuracy
../DCU/g15may.032.dat.1g
e232t0dl.dat.digi1G
Comparing: ../DCU/g15may.032.dat.1g
with e232t0dl.dat.digi1G
Average: 0.049889717600
Stddev : 0.423207312822
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/g15may.032.dat.2g
e232t0dl.dat.digi2G
Comparing: ../DCU/g15may.032.dat.2g
with e232t0dl.dat.digi2G
Average: 4.611722651509
Stddev : 2.068583250046
Max : 33.360149383545
Min : 1.186587095261

SNAPAccuracy
../DCU/g15may.032.dat.3g
e232t0dl.dat.digi3G
Comparing: ../DCU/g15may.032.dat.3g
with e232t0dl.dat.digi3G
Average: 7.437493115664
Stddev : 2.892679452896
Max : 33.360149383545
Min : 1.979132175446

7.3.33 Stats.033

/usr1/figd/DIS2.2/dis_lite3.
stats
Frames : 501
Average: 0.00289479
Maximum: 0.0088
2nd Max: 0.004053
Minimum: 0.001483
RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.
stats
Frames : 501
Average: 0.00322275
Maximum: 0.009096
2nd Max: 0.008798
Minimum: 0.001581
RateErr: 0

/sg16/usr1/nets/GATEWA
Y/gateway_lite2.stats
Frames : 502
Average: 0.0060818
Maximum: 0.020366
2nd Max: 0.011667
Minimum: 0.000282

/sg16/usr1/nets/GATEWA
Y/gateway_lite1.stats
Frames : 501
Average: 0.00660095
Maximum: 0.025211
2nd Max: 0.013645
Minimum: 0.000394

/sg16/usr1/nets/DISNET/di
snet7.stats
PDUs : 1455
Count : 1148
Average: 1627.01
Maximum: 3378.38
2nd Max: 3367
Minimum: -2457

Frames : 586412
Average: 0.000233547
Maximum: 0.016807
2nd Max: 0.011468
Minimum: 8.9e-05

PDUs from Net1: 1580
PDUs from Net2: 1455

PDU Buffer 1
-- Stats from
CircularBuffer --
NumPass: 1580

Average: 0.0456345
Variance: 0.000102354
Maximum: 0.079192
2nd Max: 0.0785
Minimum: 0.009887
-- End Stats from CircularBuffer --

PDU Buffer 2
-- Stats from CircularBuffer --
NumPass: 1455
Average: 0.0455142
Variance: 9.90863e-05
Maximum: 0.074546
2nd Max: 0.073655
Minimum: 0.013939
-- End Stats from CircularBuffer --

SNAPPdus.pl
Average: 0.062960
Maximum: 1.531239
Minimum: 0.000013
Variance: 0.006593
Std Dev : 0.081200

SNAPTimes.pl e242t0dl.dat
Sel-J Tss avg.:
0.0013199343936120681
Sel-J Tns avg.:
0.0012407316103606313
Sel-J Tnr avg.:
0.0015005308150630406
Sel-J Trs avg.:
0.00062031212738885449
Sel-J NIU avg.:
0.0027575586479776084
Sel-J Nius avg.:
0.0012407316103606313
Sel-J Niur avg.:
0.0015005308150630406
Sel-J Tgs avg.:
0.0031291908550628868
Sel-J Tgr avg.:
0.0018633558647707105

DCUAccuracy j15may.033.dat.g
g15may.033.dat.ownship
Average: 17.375934602249
Stddev : 27.580282211304
Max : 99.118240356445
Min : 0.040163110942

DCUAccuracy g15may.033.dat.j
j15may.033.dat.ownship
Average: 8.600018115661
Stddev : 18.107067108154
Max : 83.987037658691
Min : 0.046957429498

SNAPAccuracy
 ../DCU/j15may.033.dat.1j
 e242t0dl.dat.digi1J
 Comparing: ../DCU/j15may.033.dat.1j
 with e242t0dl.dat.digi1J
 Average: 4.742873826617
 Stdev : 2.412235498428
 Max : 33.360149383545
 Min : 0.631610274315

SNAPAccuracy
 ../DCU/j15may.033.dat.2j
 e242t0dl.dat.digi2J
 Comparing: ../DCU/j15may.033.dat.2j
 with e242t0dl.dat.digi2J
 Average: 5.459455325330
 Stdev : 2.735097646713
 Max : 33.360149383545
 Min : 1.307728171349

SNAPAccuracy
 ../DCU/j15may.033.dat.3j
 e242t0dl.dat.digi3J
 Comparing: ../DCU/j15may.033.dat.3j
 with e242t0dl.dat.digi3J
 Average: 7.387491197893
 Stdev : 2.685887098312
 Max : 33.360149383545
 Min : 2.944225549698

SNAPAccuracy
 ../DCU/j15may.033.dat.1g
 e242t0dl.dat.digi1G
 Comparing: ../DCU/j15may.033.dat.1g
 with e242t0dl.dat.digi1G
 Average: 21.725006400934
 Stdev : 6.631310462952
 Max : 66.838798522949
 Min : 2.438243150711

SNAPAccuracy
 ../DCU/j15may.033.dat.2g
 e242t0dl.dat.digi2G
 Comparing: ../DCU/j15may.033.dat.2g
 with e242t0dl.dat.digi2G
 Average: 23.032971858011
 Stdev : 7.479759216309
 Max : 66.970787048340
 Min : 3.450212955475

SNAPAccuracy
 ../DCU/j15may.033.dat.3g
 e242t0dl.dat.digi3G
 Comparing: ../DCU/j15may.033.dat.3g
 with e242t0dl.dat.digi3G
 Average: 24.348889365399
 Stdev : 7.717843055725
 Max : 67.045822143555
 Min : 4.824683189392

SNAPAccuracy
 ../DCU/g15may.033.dat.1j
 e242t0dl.dat.digi1J
 Comparing:
 ../DCU/g15may.033.dat.1j
 with e242t0dl.dat.digi1J
 Average:
 21.794933132419
 Stdev : 6.870101451874
 Max : 83.451171875000
 Min : 4.103374958038

SNAPAccuracy
 ../DCU/g15may.033.dat.2j
 e242t0dl.dat.digi2J
 Comparing:
 ../DCU/g15may.033.dat.2j
 with e242t0dl.dat.digi2J
 Average:
 23.461365024168
 Stdev : 8.855196952820
 Max : 83.648208618164
 Min : 3.541624784470

SNAPAccuracy
 ../DCU/g15may.033.dat.3j
 e242t0dl.dat.digi3J
 Comparing:
 ../DCU/g15may.033.dat.3j
 with e242t0dl.dat.digi3J
 Average:
 23.924715966772
 Stdev : 8.558182716370
 Max : 83.648208618164
 Min : 4.507001876831

SNAPAccuracy
 ../DCU/g15may.033.dat.1g
 e242t0dl.dat.digi1G
 Comparing:
 ../DCU/g15may.033.dat.1g
 with e242t0dl.dat.digi1G
 Average: 4.501001972428
 Stdev : 2.169620513916
 Max : 33.360149383545
 Min : 0.763353109360

SNAPAccuracy
 ../DCU/g15may.033.dat.2g
 e242t0dl.dat.digi2G
 Comparing:
 ../DCU/g15may.033.dat.2g
 with e242t0dl.dat.digi2G
 Average: 5.041297465023
 Stdev : 2.424380064011
 Max : 33.360149383545
 Min : 1.528330087662

SNAPAccuracy
 ../DCU/g15may.033.dat.3g
 e242t0dl.dat.digi3G
 Comparing: ../DCU/g15may.033.dat.3g
 with e242t0dl.dat.digi3G
 Average: 7.882511926609
 Stdev : 2.511408567429
 Max : 33.360149383545
 Min : 3.187976837158

7.3.34 Stats.034

/sg16/usr1/nets/GATEWAY/gateway1.s
 tats
 Frames : 499
 Average: 0.00132236
 Maximum: 0.015127
 2nd Max: 0.004251
 Minimum: 0.001087

/sg16/usr1/nets/GATEWAY/gateway2.s
 tats
 Frames : 499
 Average: 0.00130133
 Maximum: 0.015324
 2nd Max: 0.003065
 Minimum: 0.001087

/sg16/usr1/nets/DISNET/disnet7.stats
 PDUs : 29
 Count : 25
 Average: 1668.89
 Maximum: 2525.25
 2nd Max: 2022.24
 Minimum: -136.836

Frames : 281413
 Average: 0.000204016
 Maximum: 0.010198
 2nd Max: 0.010098
 Minimum: 8.8e-05

PDUs from Net1: 24
 PDUs from Net2: 29

PDU Buffer 1
 -- Stats from CircularBuffer --
 NumPass: 24
 Average: 0.0456022
 Variance: 7.87026e-05
 Maximum: 0.065845
 2nd Max: 0.057738
 Minimum: 0.020861
 -- End Stats from CircularBuffer --

PDU Buffer 2
 -- Stats from CircularBuffer --
 NumPass: 29
 Average: 0.0456726
 Variance: 6.5709e-05
 Maximum: 0.06624
 2nd Max: 0.055167
 Minimum: 0.028771
 -- End Stats from CircularBuffer --

SNAPPdus.pl
 Average: 0.048946
 Maximum: 0.070249
 Minimum: 0.023280
 Variance: 0.000070
 Std Dev : 0.008350

SNAPTimes.pl e213t3.dat
 Sel-J Tss avg.:
 0.0013003876737932717
 Sel-J Tns avg.:
 0.00078785486935237963
 Sel-J Tnr avg.:
 0.0029542067594581817
 Sel-J Trs avg.:
 0.00042900397647917455
 Sel-J NIU avg.:
 0.0037420616288105614
 Sel-J Nius avg.:
 0.00078785486935237963
 Sel-J Niur avg.:
 0.0029542067594581817
 Sel-J Tgs avg.:
 0.00026751093423039383
 Sel-J Tgr avg.:
 0.00045639562642036996

DCUAccuracy j15may.034.dat.g
 g15may.034.dat.ownship
 Average: 14.554429029062
 Stdev : 1.025653004646
 Max : 19.867740631104
 Min : 12.744205474854

DCUAccuracy g15may.034.dat.j
 j15may.034.dat.ownship
 Average: 13.712765691726
 Stdev : 0.340674847364
 Max : 15.732733726501
 Min : 13.092820167542

SNAPAccuracy
 ../DCU/j15may.034.dat.1j
 e213t3.dat.digi1J
 Comparing: ../DCU/j15may.034.dat.1j
 with e213t3.dat.digi1J
 Average: 0.048387096774
 Stdev : 0.536638855934
 Max : 6.000000000000
 Min : 0.000000000000

Min : 0.000000000000
 SNAPAccuracy
 ../DCU/j15may.034.dat.2j
 e213t3.dat.digi2J
 Comparing:
 ../DCU/j15may.034.dat.2j
 with e213t3.dat.digi2J
 Average: 0.072580645161
 Stdev : 0.655908465385
 Max : 6.000000000000
 Min : 0.000000000000

SNAPAccuracy
 ../DCU/j15may.034.dat.3j
 e213t3.dat.digi3J
 Comparing:
 ../DCU/j15may.034.dat.3j
 with e213t3.dat.digi3J
 Average: 0.096774193548
 Stdev : 0.755830645561
 Max : 6.000000000000
 Min : 0.000000000000

SNAPAccuracy
 ../DCU/j15may.034.dat.1g
 e213t3.dat.digi1G
 Comparing:
 ../DCU/j15may.034.dat.1g
 with e213t3.dat.digi1G
 Average: 7.387847940127
 Stdev : 1.632933378220
 Max : 9.197540283203
 Min : 5.514999866486

SNAPAccuracy
 ../DCU/j15may.034.dat.2g
 e213t3.dat.digi2G
 Comparing:
 ../DCU/j15may.034.dat.2g
 with e213t3.dat.digi2G
 Average:
 12.126450250788
 Stdev : 6.267703056335
 Max : 18.462999343872
 Min : 5.514999866486

SNAPAccuracy
 ../DCU/j15may.034.dat.3g
 e213t3.dat.digi3G
 Comparing:
 ../DCU/j15may.034.dat.3g
 with e213t3.dat.digi3G
 Average: 7.393734118803
 Stdev : 1.632775425911
 Max : 9.197540283203
 Min : 5.514999866486

SNAPAccuracy
 ../DCU/g15may.034.dat.1j
 e213t3.dat.digi1J
 Comparing: ../DCU/g15may.034.dat.1j
 with e213t3.dat.digi1J
 Average: 5.892537232337
 Stdev : 0.106814458966
 Max : 6.093999862671
 Min : 5.691999912262

SNAPAccuracy
 ../DCU/g15may.034.dat.2j
 e213t3.dat.digi2J
 Comparing: ../DCU/g15may.034.dat.2j
 with e213t3.dat.digi2J
 Average: 5.892537232337
 Stdev : 0.106814458966
 Max : 6.093999862671
 Min : 5.691999912262

SNAPAccuracy
 ../DCU/g15may.034.dat.3j
 e213t3.dat.digi3J
 Comparing: ../DCU/g15may.034.dat.3j
 with e213t3.dat.digi3J
 Average: 7.637298348473
 Stdev : 1.707251667976
 Max : 9.501520156860
 Min : 5.692999839783

SNAPAccuracy
 ../DCU/g15may.034.dat.1g
 e213t3.dat.digi1G
 Comparing: ../DCU/g15may.034.dat.1g
 with e213t3.dat.digi1G
 Average: 0.048387096774
 Stdev : 0.536638855934
 Max : 6.000000000000
 Min : 0.000000000000

SNAPAccuracy
 ../DCU/g15may.034.dat.2g
 e213t3.dat.digi2G
 Comparing: ../DCU/g15may.034.dat.2g
 with e213t3.dat.digi2G
 Average: 0.048387096774
 Stdev : 0.536638855934
 Max : 6.000000000000
 Min : 0.000000000000

SNAPAccuracy
 ../DCU/g15may.034.dat.3g
 e213t3.dat.digi3G
 Comparing: ../DCU/g15may.034.dat.3g
 with e213t3.dat.digi3G
 Average: 0.048387096774
 Stdev : 0.536638855934
 Max : 6.000000000000
 Min : 0.000000000000

7.3.35 Stats.035

/sg16/usr1/nets/GATEWAY/gateway1.s
tats

Frames : 488
Average: 0.0021822
Maximum: 0.012372
2nd Max: 0.006229
Minimum: 0.001087

/sg16/usr1/nets/GATEWAY/gateway2.s
tats

Frames : 488
Average: 0.00203261
Maximum: 0.010776
2nd Max: 0.004746
Minimum: 0.00089

/sg16/usr1/nets/DISNET/disnet7.stats

PDUs : 475
Count : 462
Average: 1737.45
Maximum: 3378.38
2nd Max: 3378.38
Minimum: -226.937

Frames : 315378
Average: 0.000205611
Maximum: 0.010692
2nd Max: 0.010692
Minimum: 1.8e-05

PDUs from Net1: 466
PDUs from Net2: 475

PDU Buffer 1

-- Stats from CircularBuffer --
NumPass: 466
Average: 0.0448974
Variance: 0.000107233
Maximum: 0.072172
2nd Max: 0.070492
Minimum: 0.011765
-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --
NumPass: 475
Average: 0.0451891
Variance: 9.74268e-05
Maximum: 0.073953
2nd Max: 0.072074
Minimum: 0.017696
-- End Stats from CircularBuffer --

SNAPPdus.pl
Average: 0.047570
Maximum: 0.082348
Minimum: 0.009206
Variance: 0.000133
Std Dev : 0.011541

SNAPTimes.pl e223t3.dat
Sel-J Tss avg.:
0.0013337932404343161
Sel-J Tns avg.:
0.00078785486935237963
Sel-J Tnr avg.:
0.0029542067594581817
Sel-J Trs avg.:
0.0006097216703514726
Sel-J NIU avg.:
0.0037420616288105614
Sel-J Nius avg.:
0.00078785486935237963
Sel-J Niur avg.:
0.0029542067594581817
Sel-J Tgs avg.:
0.00071645924457206314
Sel-J Tgr avg.:
0.0010486679918247979

DCUAccuracy
j15may.035.dat.g
g15may.035.dat.ownship
Average:
14.635708491668
Stdev : 0.936201453209
Max : 16.416971206665
Min : 13.012741088867

DCUAccuracy
g15may.035.dat.j
j15may.035.dat.ownship
Average:
13.741992242619
Stdev : 0.417775481939
Max : 16.125265121460
Min : 13.090836524963

SNAPAccuracy
../DCU/j15may.035.dat.1j
e223t3.dat.digi1J
Comparing:
../DCU/j15may.035.dat.1j
with e223t3.dat.digi1J
Average: 0.348000000000
Stdev : 1.995719432831
Max : 12.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j15may.035.dat.2j
e223t3.dat.digi2J
Comparing: ../DCU/j15may.035.dat.2j
with e223t3.dat.digi2J
Average: 0.348000000000
Stdev : 1.995719432831
Max : 12.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j15may.035.dat.3j
e223t3.dat.digi3J
Comparing: ../DCU/j15may.035.dat.3j
with e223t3.dat.digi3J
Average: 0.001127422707
Stdev : 0.001556698466
Max : 0.004999999888
Min : 0.000000000000

SNAPAccuracy
../DCU/j15may.035.dat.1g
e223t3.dat.digi1G
Comparing: ../DCU/j15may.035.dat.1g
with e223t3.dat.digi1G
Average: 6.283305259166
Stdev : 3.293175697327
Max : 78.059799194336
Min : 5.567999839783

SNAPAccuracy
../DCU/j15may.035.dat.2g
e223t3.dat.digi2G
Comparing: ../DCU/j15may.035.dat.2g
with e223t3.dat.digi2G
Average: 6.283305259166
Stdev : 3.293175697327
Max : 78.059799194336
Min : 5.567999839783

SNAPAccuracy
../DCU/j15may.035.dat.3g
e223t3.dat.digi3G
Comparing: ../DCU/j15may.035.dat.3g
with e223t3.dat.digi3G
Average: 20.050180161274
Stdev : 2.688156843185
Max : 28.966890335083
Min : 13.247109413147

SNAPAccuracy
../DCU/g15may.035.dat.1j
e223t3.dat.digi1J
Comparing: ../DCU/g15may.035.dat.1j
with e223t3.dat.digi1J
Average: 6.117830359762
Stdev : 0.227962449193
Max : 6.514450073242
Min : 5.717000007629

SNAPAccuracy
 ../DCU/g15may.035.dat.2j
 e223t3.dat.digi2J
 Comparing: ../DCU/g15may.035.dat.2j
 with e223t3.dat.digi2J
 Average: 6.117830359762
 Stdev : 0.227962449193
 Max : 6.514450073242
 Min : 5.717000007629

SNAPAccuracy
 ../DCU/g15may.035.dat.3j
 e223t3.dat.digi3J
 Comparing: ../DCU/g15may.035.dat.3j
 with e223t3.dat.digi3J
 Average: 20.137851498975
 Stdev : 2.720696449280
 Max : 29.811691284180
 Min : 13.394820213318

SNAPAccuracy
 ../DCU/g15may.035.dat.1g
 e223t3.dat.digi1G
 Comparing: ../DCU/g15may.035.dat.1g
 with e223t3.dat.digi1G
 Average: 0.516000000000
 Stdev : 2.979554176331
 Max : 18.000000000000
 Min : 0.000000000000

SNAPAccuracy
 ../DCU/g15may.035.dat.2g
 e223t3.dat.digi2G
 Comparing: ../DCU/g15may.035.dat.2g
 with e223t3.dat.digi2G
 Average: 0.348000000000
 Stdev : 1.995719432831
 Max : 12.000000000000
 Min : 0.000000000000

SNAPAccuracy
 ../DCU/g15may.035.dat.3g
 e223t3.dat.digi3G
 Comparing: ../DCU/g15may.035.dat.3g
 with e223t3.dat.digi3G
 Average: 0.001111340233
 Stdev : 0.001567707397
 Max : 0.004999999888
 Min : 0.000000000000

Frames : 493
 Average: 0.00313931
 Maximum: 0.015522
 2nd Max: 0.004548
 Minimum: 0.001185

/sg16/usr1/nets/GATEWAY
 Y/gateway2.stats
 Frames : 492
 Average: 0.00287035
 Maximum: 0.013742
 2nd Max: 0.00435
 Minimum: 0.001088

/sg16/usr1/nets/DISNET/di
 snet7.stats
 PDUs : 937
 Count : 818
 Average: 1901.65
 Maximum: 3378.38
 2nd Max: 3367
 Minimum: -2463.05

Frames : 223375
 Average: 0.000210562
 Maximum: 0.010593
 2nd Max: 0.010198
 Minimum: 8.9e-05

PDUs from Net1: 925
 PDUs from Net2: 937

PDU Buffer 1
 -- Stats from
 CircularBuffer --
 NumPass: 925
 Average: 0.0454979
 Variance: 0.00010433
 Maximum: 0.078797
 2nd Max: 0.078119
 Minimum: 0.00524

-- End Stats from
 CircularBuffer --

PDU Buffer 2
 -- Stats from
 CircularBuffer --
 NumPass: 937
 Average: 0.0455085
 Variance: 9.70667e-05
 Maximum: 0.07504
 2nd Max: 0.073952
 Minimum: 0.012755
 -- End Stats from
 CircularBuffer --

SNAPPdus.pl
 Average: 0.048260
 Maximum: 0.081675

Minimum: 0.008293
 Variance: 0.000101
 Std Dev : 0.010033

SNAPTimes.pl e233t3.dat
 Sel-J Tss avg.:
 0.0013011491052745277
 Sel-J Tns avg.:
 0.00078785486935237963
 Sel-J Tnr avg.:
 0.0029542067594581817
 Sel-J Trs avg.:
 0.0005440954274611796
 Sel-J NIU avg.:
 0.0037420616288105614
 Sel-J Nius avg.:
 0.00078785486935237963
 Sel-J Niur avg.:
 0.0029542067594581817
 Sel-J Tgs avg.:
 0.0011225805171648741
 Sel-J Tgr avg.:
 0.0013998747506967207

DCUAccuracy j15may.036.dat.g
 j15may.036.dat.ownship
 Average: 14.545128552086
 Stdev : 0.967542588711
 Max : 16.136028289795
 Min : 12.817781448364

DCUAccuracy g15may.036.dat.j
 j15may.036.dat.ownship
 Average: 13.692786222611
 Stdev : 0.391305893660
 Max : 17.085613250732
 Min : 13.083166122437

SNAPAccuracy
 ../DCU/j15may.036.dat.1j
 e233t3.dat.digi1J
 Comparing: ../DCU/j15may.036.dat.1j
 with e233t3.dat.digi1J
 Average: 0.228000000000
 Stdev : 1.616173267365
 Max : 12.000000000000
 Min : 0.000000000000

SNAPAccuracy
 ../DCU/j15may.036.dat.2j
 e233t3.dat.digi2J
 Comparing: ../DCU/j15may.036.dat.2j
 with e233t3.dat.digi2J
 Average: 0.001122024515
 Stdev : 0.001555802883
 Max : 0.004999999888
 Min : 0.000000000000

7.3.36 Stats.036

/sg16/usr1/nets/GATEWAY/gateway1.s
 tats

SNAPAccuracy
 ../DCU/j15may.036.dat.3j
 e233t3.dat.digi3J
 Comparing: ../DCU/j15may.036.dat.3j
 with e233t3.dat.digi3J
 Average: 11.615595905834
 Stdev : 5.175945758820
 Max : 16.838010787964
 Min : 0.000000000000

SNAPAccuracy
 ../DCU/j15may.036.dat.1g
 e233t3.dat.digi1G
 Comparing: ../DCU/j15may.036.dat.1g
 with e233t3.dat.digi1G
 Average: 27.575119636387
 Stdev : 21.251142501831
 Max : 48.465999603271
 Min : 5.560999870300

SNAPAccuracy
 ../DCU/j15may.036.dat.2g
 e233t3.dat.digi2G
 Comparing: ../DCU/j15may.036.dat.2g
 with e233t3.dat.digi2G
 Average: 19.716410787688
 Stdev : 2.680716991425
 Max : 30.099052429199
 Min : 13.212736129761

SNAPAccuracy
 ../DCU/j15may.036.dat.3g
 e233t3.dat.digi3G
 Comparing: ../DCU/j15may.036.dat.3g
 with e233t3.dat.digi3G
 Average: 19.936252940607
 Stdev : 2.681409835815
 Max : 34.244609832764
 Min : 13.212736129761

SNAPAccuracy
 ../DCU/g15may.036.dat.1j
 e233t3.dat.digi1J
 Comparing: ../DCU/g15may.036.dat.1j
 with e233t3.dat.digi1J
 Average: 6.926153031529
 Stdev : 2.066865205765
 Max : 47.904598236084
 Min : 5.632999897003

SNAPAccuracy
 ../DCU/g15may.036.dat.2j
 e233t3.dat.digi2J
 Comparing: ../DCU/g15may.036.dat.2j
 with e233t3.dat.digi2J
 Average: 19.953584741518
 Stdev : 2.642477989197
 Max : 29.900144577026
 Min : 13.153573989868

SNAPAccuracy
 ../DCU/g15may.036.dat.3j
 e233t3.dat.digi3J
 Comparing:
 ../DCU/g15may.036.dat.3j
 with e233t3.dat.digi3J
 Average:
 20.305129916761
 Stdev : 2.692066907883
 Max : 29.771770477295
 Min : 13.153493881226

SNAPAccuracy
 ../DCU/g15may.036.dat.1g
 e233t3.dat.digi1G
 Comparing:
 ../DCU/g15may.036.dat.1g
 with e233t3.dat.digi1G
 Average: 0.228000000000
 Stdev : 1.616173267365
 Max : 12.000000000000
 Min : 0.000000000000

SNAPAccuracy
 ../DCU/g15may.036.dat.2g
 e233t3.dat.digi2G
 Comparing:
 ../DCU/g15may.036.dat.2g
 with e233t3.dat.digi2G
 Average: 0.001100000026
 Stdev : 0.001564986771
 Max : 0.004999999888
 Min : 0.000000000000

SNAPAccuracy
 ../DCU/g15may.036.dat.3g
 e233t3.dat.digi3G
 Comparing:
 ../DCU/g15may.036.dat.3g
 with e233t3.dat.digi3G
 Average:
 13.332147815783
 Stdev : 2.899268627167
 Max : 16.838010787964
 Min : 0.000000000000

7.3.37 Stats.037

/sg16/usr1/nets/GATEWA
 Y/gateway1.stats
 Frames : 501
 Average: 0.00378139

Maximum: 0.016114
 2nd Max: 0.004252
 Minimum: 0.00089

/sg16/usr1/nets/GATEWAY/gateway2.s
 tats
 Frames : 501
 Average: 0.00358905
 Maximum: 0.015917
 2nd Max: 0.004251
 Minimum: 0.00089

/sg16/usr1/nets/DISNET/disnet7.stats
 PDUs : 1410
 Count : 825
 Average: 1926.89
 Maximum: 5154.64
 2nd Max: 2890.17
 Minimum: -9259.26

Frames : 184342
 Average: 0.000216394
 Maximum: 0.010594
 2nd Max: 0.010198
 Minimum: 8.8e-05

PDUs from Net1: 1398
 PDUs from Net2: 1410

PDU Buffer 1
 -- Stats from CircularBuffer --
 NumPass: 1398
 Average: 0.0458124
 Variance: 9.88642e-05
 Maximum: 0.074446
 2nd Max: 0.07237
 Minimum: 0.017499
 -- End Stats from CircularBuffer --

PDU Buffer 2
 -- Stats from CircularBuffer --
 NumPass: 1410
 Average: 0.0452543
 Variance: 9.28673e-05
 Maximum: 0.076325
 2nd Max: 0.075138
 Minimum: 0.012259
 -- End Stats from CircularBuffer --

SNAPPdus.pl
 Average: 0.050307
 Maximum: 0.083470
 Minimum: 0.014700
 Variance: 0.000104
 Std Dev : 0.010220

SNAPTimes.pl e243t3.dat
 Sel-J Tss avg.:
 0.0013304652086557232

Sel-J Tns avg.:
0.00078785486935237963
Sel-J Tnr avg.:
0.0029542067594581817
Sel-J Trs avg.:
0.00040496421480740218
Sel-J NIU avg.:
0.0037420616288105614
Sel-J Nius avg.:
0.00078785486935237963
Sel-J Niur avg.:
0.0029542067594581817
Sel-J Tgs avg.:
0.0017151809145328932
Sel-J Tgr avg.:
0.0013943339962323399

DCUAccuracy j15may.037.dat.g
g15may.037.dat.ownship
Average: 14.537564898601
Stdev : 0.985204100609
Max : 16.377378463745
Min : 12.767276763916

DCUAccuracy g15may.037.dat.j
j15may.037.dat.ownship
Average: 13.720685345648
Stdev : 0.354263067245
Max : 15.596238136292
Min : 13.109342575073

SNAPAccuracy
../DCU/j15may.037.dat.1j
e243t3.dat.digi1J
Comparing: ../DCU/j15may.037.dat.1j
with e243t3.dat.digi1J
Average: 0.000078418512
Stdev : 0.000345211680
Max : 0.004000000190
Min : 0.000000000000

SNAPAccuracy
../DCU/j15may.037.dat.2j
e243t3.dat.digi2J
Comparing: ../DCU/j15may.037.dat.2j
with e243t3.dat.digi2J
Average: 0.001107428596
Stdev : 0.001549632405
Max : 0.004999999888
Min : 0.000000000000

SNAPAccuracy
../DCU/j15may.037.dat.3j
e243t3.dat.digi3J
Comparing: ../DCU/j15may.037.dat.3j
with e243t3.dat.digi3J
Average: 13.389977340007
Stdev : 2.673674583435
Max : 16.838010787964

Min : 9.170519828796
SNAPAccuracy
../DCU/j15may.037.dat.1g
e243t3.dat.digi1G
Comparing: ../DCU/j15may.037.dat.1g
with e243t3.dat.digi1G
Average:
20.219264049801
Stdev : 2.643971681595
Max : 30.476045608521
Min : 13.277921676636

SNAPAccuracy
../DCU/j15may.037.dat.2g
e243t3.dat.digi2G
Comparing: ../DCU/j15may.037.dat.2g
with e243t3.dat.digi2G
Average:
20.319167808393
Stdev : 2.634943962097
Max : 30.476043701172
Min : 13.851448059082

SNAPAccuracy
../DCU/j15may.037.dat.3g
e243t3.dat.digi3G
Comparing: ../DCU/j15may.037.dat.3g
with e243t3.dat.digi3G
Average:
20.360253084504
Stdev : 2.629372835159
Max : 30.476043701172
Min : 13.851448059082

SNAPAccuracy
../DCU/g15may.037.dat.1j
e243t3.dat.digi1J
Comparing: ../DCU/g15may.037.dat.1j
with e243t3.dat.digi1J
Average:
20.566974446450
Stdev : 2.640756845474
Max : 29.928142547607
Min : 13.539631843567

SNAPAccuracy
../DCU/g15may.037.dat.2j
e243t3.dat.digi2J
Comparing: ../DCU/g15may.037.dat.2j
with e243t3.dat.digi2J
Average:
20.731308366416
Stdev : 2.634149074554

Max : 29.928461074829
Min : 13.539557456970

SNAPAccuracy
../DCU/g15may.037.dat.3j
e243t3.dat.digi3J
Comparing: ../DCU/g15may.037.dat.3j
with e243t3.dat.digi3J
Average: 20.753300196742
Stdev : 2.698128461838
Max : 29.928554534912
Min : 13.539482116699

SNAPAccuracy
../DCU/g15may.037.dat.1g
e243t3.dat.digi1G
Comparing: ../DCU/g15may.037.dat.1g
with e243t3.dat.digi1G
Average: 0.001051106664
Stdev : 0.001544576953
Max : 0.004999999888
Min : 0.000000000000

SNAPAccuracy
../DCU/g15may.037.dat.2g
e243t3.dat.digi2G
Comparing: ../DCU/g15may.037.dat.2g
with e243t3.dat.digi2G
Average: 0.001084507068
Stdev : 0.001559323748
Max : 0.004999999888
Min : 0.000000000000

SNAPAccuracy
../DCU/g15may.037.dat.3g
e243t3.dat.digi3G
Comparing: ../DCU/g15may.037.dat.3g
with e243t3.dat.digi3G
Average: 13.389975377012
Stdev : 2.673676967621
Max : 16.838010787964
Min : 9.170610427856

7.3.38 Stats.038

/sg16/usr1/nets/GATEWAY/gateway_lit
e2.stats
Frames : 496
Average: 0.00146807
Maximum: 0.011567
2nd Max: 0.004153
Minimum: 0.001185

/sg16/usr1/nets/GATEWAY/gateway_lit
e1.stats
Frames : 495
Average: 0.00161111
Maximum: 0.011483
2nd Max: 0.011384
Minimum: 0.001285

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 41
Count : 28
Average: -2161.47
Maximum: 3378.38
2nd Max: 1863.19
Minimum: -111111

Frames : 190116
Average: 0.000201226
Maximum: 0.010198
2nd Max: 0.010198
Minimum: 8e-06

PDUs from Net1: 25
PDUs from Net2: 41

PDU Buffer 1

-- Stats from CircularBuffer --
NumPass: 25
Average: 0.0422909
Variance: 5.02897e-05
Maximum: 0.052399
2nd Max: 0.051806
Minimum: 0.027584
-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --
NumPass: 41
Average: 0.0468725
Variance: 0.000119309
Maximum: 0.066537
2nd Max: 0.052498
Minimum: 0.029076
-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.498252
Maximum: 2.353907
Minimum: 0.000039
Variance: 0.367558
Std Dev : 0.606266

SNAPTimes.pl e213t3l.dat

Sel-J Tss avg.:
0.0013730019882041776
Sel-J Tns avg.:
0.00078785486935237963
Sel-J Tnr avg.:
0.0029542067594581817

Sel-J Trs avg.:
0.00040034194824412636
Sel-J NIU avg.:
0.0037420616288105614
Sel-J Nius avg.:
0.00078785486935237963
Sel-J Niur avg.:
0.0029542067594581817
Sel-J Tgs avg.:
0.00045966799171325782
Sel-J Tgr avg.:
0.00052838966246485108

DCUAccuracy
j15may.038.dat.g
g15may.038.dat.ownship
Average:
22.529305617663
Stddev : 11.672454833984
Max : 63.043933868408
Min : 12.872275352478

DCUAccuracy
g15may.038.dat.j
j15may.038.dat.ownship
Average:
21.898318672180
Stddev : 12.761020660400
Max : 57.871875762939
Min : 13.050671577454

SNAPAccuracy
../DCU/j15may.038.dat.1j
e213t3l.dat.digi1J
Comparing:
../DCU/j15may.038.dat.1j
with e213t3l.dat.digi1J
Average: 0.012121212121
Stddev : 0.269407421350
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j15may.038.dat.2j
e213t3l.dat.digi2J
Comparing:
../DCU/j15may.038.dat.2j
with e213t3l.dat.digi2J
Average: 0.000000000000
Stddev : 0.000000000000
Max : 0.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j15may.038.dat.3j
e213t3l.dat.digi3J
Comparing:
../DCU/j15may.038.dat.3j
with e213t3l.dat.digi3J

Average: 0.012121212121
Stddev : 0.269407421350
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j15may.038.dat.1g
e213t3l.dat.digi1G
Comparing: ../DCU/j15may.038.dat.1g
with e213t3l.dat.digi1G
Average: 14.857947237638
Stddev : 9.039339065552
Max : 24.017000198364
Min : 5.310999870300

SNAPAccuracy
../DCU/j15may.038.dat.2g
e213t3l.dat.digi2G
Comparing: ../DCU/j15may.038.dat.2g
with e213t3l.dat.digi2G
Average: 14.857947237638
Stddev : 9.039339065552
Max : 24.017000198364
Min : 5.310999870300

SNAPAccuracy
../DCU/j15may.038.dat.3g
e213t3l.dat.digi3G
Comparing: ../DCU/j15may.038.dat.3g
with e213t3l.dat.digi3G
Average: 14.857947237638
Stddev : 9.039339065552
Max : 24.017000198364
Min : 5.310999870300

SNAPAccuracy
../DCU/g15may.038.dat.1j
e213t3l.dat.digi1J
Comparing: ../DCU/g15may.038.dat.1j
with e213t3l.dat.digi1J
Average: 14.905931484456
Stddev : 8.980231285095
Max : 24.018999099731
Min : 5.660999774933

SNAPAccuracy
../DCU/g15may.038.dat.2j
e213t3l.dat.digi2J
Comparing: ../DCU/g15may.038.dat.2j
with e213t3l.dat.digi2J
Average: 14.905931484456
Stddev : 8.980231285095
Max : 24.018999099731
Min : 5.660999774933

SNAPAccuracy
../DCU/g15may.038.dat.3j
e213t3l.dat.digi3J

Comparing: ../DCU/g15may.038.dat.3j
with e213t3l.dat.digi3J
Average: 11.886426764118
Stdev : 5.984049797058
Max : 18.027999877930
Min : 5.660999774933

SNAPAccuracy
../DCU/g15may.038.dat.1g
e213t3l.dat.digi1G
Comparing: ../DCU/g15may.038.dat.1g
with e213t3l.dat.digi1G
Average: 0.012121212121
Stdev : 0.269407421350
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/g15may.038.dat.2g
e213t3l.dat.digi2G
Comparing: ../DCU/g15may.038.dat.2g
with e213t3l.dat.digi2G
Average: 0.012121212121
Stdev : 0.269407421350
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/g15may.038.dat.3g
e213t3l.dat.digi3G
Comparing: ../DCU/g15may.038.dat.3g
with e213t3l.dat.digi3G
Average: 0.012121212121
Stdev : 0.269407421350
Max : 6.000000000000
Min : 0.000000000000

7.3.39 Stats.039

/sg16/usr1/nets/GATEWAY/gateway_lit
e2.stats
Frames : 498
Average: 0.00219
Maximum: 0.012175
2nd Max: 0.007416
Minimum: 0.001087

/sg16/usr1/nets/GATEWAY/gateway_lit
e1.stats
Frames : 500
Average: 0.00222292
Maximum: 0.012373
2nd Max: 0.007611
Minimum: 0.001285

/sg16/usr1/nets/DISNET/di
snet7.stats
PDUUs : 497
Count : 479
Average: 1767.06
Maximum: 3378.38
2nd Max: 3378.38
Minimum: -108.589

Frames : 208201
Average: 0.000205431
Maximum: 0.010989
2nd Max: 0.010593
Minimum: 9e-05

PDUUs from Net1: 487
PDUUs from Net2: 497

PDU Buffer 1
-- Stats from
CircularBuffer --
NumPass: 487
Average: 0.0449599
Variance: 9.77403e-05
Maximum: 0.071579
2nd Max: 0.070195
Minimum: 0.01483

-- End Stats from
CircularBuffer --

PDU Buffer 2
-- Stats from
CircularBuffer --
NumPass: 497
Average: 0.045451
Variance: 0.00010471
Maximum: 0.07148
2nd Max: 0.069108
Minimum: 0.012162
-- End Stats from
CircularBuffer --

SNAPPdus.pl
Average: 0.061780
Maximum: 0.327981
Minimum: 0.000011
Variance: 0.002221
Std Dev : 0.047124

SNAPTtimes.pl e223t3l.dat
Sel-J Tss avg.:
0.0013115467199262799
Sel-J Tns avg.:
0.00078785486935237963
Sel-J Tnr avg.:
0.0029542067594581817
Sel-J Trs avg.:
0.00055406162978513778

Sel-J NIU avg.:
0.0037420616288105614
Sel-J Nius avg.:
0.00078785486935237963
Sel-J Niur avg.:
0.0029542067594581817
Sel-J Tgs avg.:
0.00092436580542173182

DCUAccuracy j15may.039.dat.g
g15may.039.dat.ownship
Average: 22.790337522102
Stdev : 11.819415092468
Max : 63.044075012207
Min : 12.796799659729

DCUAccuracy g15may.039.dat.j
j15may.039.dat.ownship
Average: 21.795738718202
Stdev : 12.759063720703
Max : 57.890727996826
Min : 13.179029464722

SNAPAccuracy
../DCU/j15may.039.dat.1j
e223t3l.dat.digi1J
Comparing: ../DCU/j15may.039.dat.1j
with e223t3l.dat.digi1J
Average: 0.012024048096
Stdev : 0.268327623606
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j15may.039.dat.2j
e223t3l.dat.digi2J
Comparing: ../DCU/j15may.039.dat.2j
with e223t3l.dat.digi2J
Average: 0.012024048096
Stdev : 0.268327623606
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j15may.039.dat.3j
e223t3l.dat.digi3J
Comparing: ../DCU/j15may.039.dat.3j
with e223t3l.dat.digi3J
Average: 0.001098654644
Stdev : 0.001546271844
Max : 0.004999999888
Min : 0.000000000000

SNAPAccuracy
../DCU/j15may.039.dat.1g
e223t3l.dat.digi1G
Comparing: ../DCU/j15may.039.dat.1g
with e223t3l.dat.digi1G
Average: 14.758996845977

Stdev : 9.044953346252
Max : 24.024000167847
Min : 5.536000251770

SNAPAccuracy

../DCU/j15may.039.dat.2g
e223t3l.dat.digi2G
Comparing: ../DCU/j15may.039.dat.2g
with e223t3l.dat.digi2G
Average: 14.758996845977
Stdev : 9.044953346252
Max : 24.024000167847
Min : 5.536000251770

SNAPAccuracy

../DCU/j15may.039.dat.3g
e223t3l.dat.digi3G
Comparing: ../DCU/j15may.039.dat.3g
with e223t3l.dat.digi3G
Average: 19.941473427204
Stdev : 3.124156236649
Max : 53.669384002686
Min : 13.091437339783

SNAPAccuracy

../DCU/g15may.039.dat.1j
e223t3l.dat.digi1J
Comparing: ../DCU/g15may.039.dat.1j
with e223t3l.dat.digi1J
Average: 14.863663658922
Stdev : 8.881689071655
Max : 24.000000000000
Min : 5.823999881744

SNAPAccuracy

../DCU/g15may.039.dat.2j
e223t3l.dat.digi2J
Comparing: ../DCU/g15may.039.dat.2j
with e223t3l.dat.digi2J
Average: 17.827677838715
Stdev : 11.906262397766
Max : 30.017000198364
Min : 5.823999881744

SNAPAccuracy

../DCU/g15may.039.dat.3j
e223t3l.dat.digi3J
Comparing: ../DCU/g15may.039.dat.3j
with e223t3l.dat.digi3J
Average: 19.985418543642
Stdev : 2.792095422745
Max : 30.211503982544
Min : 13.170028686523

SNAPAccuracy

../DCU/g15may.039.dat.1g
e223t3l.dat.digi1G
Comparing: ../DCU/g15may.039.dat.1g
with e223t3l.dat.digi1G

Average: 0.012024048096
Stdev : 0.268327623606
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy

../DCU/g15may.039.dat.2g
e223t3l.dat.digi2G
Comparing:
../DCU/g15may.039.dat.2g
with e223t3l.dat.digi2G
Average: 0.012024048096
Stdev : 0.268327623606
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy

../DCU/g15may.039.dat.3g
e223t3l.dat.digi3G
Comparing:
../DCU/g15may.039.dat.3g
with e223t3l.dat.digi3G
Average: 0.001082329343
Stdev : 0.001557224779
Max : 0.004999999888
Min : 0.000000000000

7.3.40 Stats.040

/sg16/usr1/nets/GATEWA
Y/gateway_lite2.stats
Frames : 488
Average: 0.00273261
Maximum: 0.006525
2nd Max: 0.003757
Minimum: 0.001088

/sg16/usr1/nets/GATEWA
Y/gateway_lite1.stats
Frames : 488
Average: 0.00317113
Maximum: 0.014251
2nd Max: 0.00959
Minimum: 0.001482

/sg16/usr1/nets/DISNET/di
snet7.stats
PDUs : 929
Count : 790
Average: 1893.86
Maximum: 3378.38
2nd Max: 3378.38
Minimum: -4830.92

Frames : 205639

Average: 0.00020831
Maximum: 0.010989
2nd Max: 0.010593
Minimum: 1.8e-05

PDUs from Net1: 923

PDUs from Net2: 929

PDU Buffer 1

-- Stats from CircularBuffer --
NumPass: 923
Average: 0.0454607
Variance: 9.65247e-05
Maximum: 0.071593
2nd Max: 0.07059
Minimum: 0.015819
-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --
NumPass: 929
Average: 0.0451016
Variance: 9.57175e-05
Maximum: 0.07761
2nd Max: 0.07504
Minimum: 0.017203
-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.054626
Maximum: 0.211019
Minimum: 0.000014
Variance: 0.001614
Std Dev : 0.040172

SNAPTtimes.pl e23t3l.dat

Sel-J Tss avg.:
0.0013226043737817937
Sel-J Tns avg.:
0.00078785486935237963
Sel-J Tnr avg.:
0.0029542067594581817
Sel-J Trs avg.:
0.00053934194795624403
Sel-J NIU avg.:
0.0037420616288105614
Sel-J Nius avg.:
0.00078785486935237963
Sel-J Niur avg.:
0.0029542067594581817
Sel-J Tgs avg.:
0.0014723856863056572
Sel-J Tgr avg.:
0.0010695825048553838

DCUAccuracy j15may.040.dat.g
g15may.040.dat.ownship
Average: 22.221412471327
Stdev : 11.990793228149

Max : 63.014205932617
Min : 6.639164447784

DCUAccuracy g15may.040.dat.j
j15may.040.dat.ownship
Average: 21.338990138207
Stdev : 13.912253379822
Max : 91.025497436523
Min : 2.300557613373

SNAPAccuracy
../DCU/j15may.040.dat.1j
e233t3l.dat.digi1J
Comparing: ../DCU/j15may.040.dat.1j
with e233t3l.dat.digi1J
Average: 0.012422360248
Stdev : 0.272726684809
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j15may.040.dat.2j
e233t3l.dat.digi2J
Comparing: ../DCU/j15may.040.dat.2j
with e233t3l.dat.digi2J
Average: 0.001134215793
Stdev : 0.001563231228
Max : 0.004999999888
Min : 0.000000000000

SNAPAccuracy
../DCU/j15may.040.dat.3j
e233t3l.dat.digi3J
Comparing: ../DCU/j15may.040.dat.3j
with e233t3l.dat.digi3J
Average: 12.585419189864
Stdev : 4.466804981232
Max : 16.838010787964
Min : 0.000000000000

SNAPAccuracy
../DCU/j15may.040.dat.1g
e233t3l.dat.digi1G
Comparing: ../DCU/j15may.040.dat.1g
with e233t3l.dat.digi1G
Average: 15.131419900626
Stdev : 9.057382583618
Max : 24.008998870850
Min : 0.229300007224

SNAPAccuracy
../DCU/j15may.040.dat.2g
e233t3l.dat.digi2G
Comparing: ../DCU/j15may.040.dat.2g
with e233t3l.dat.digi2G
Average: 19.824401728047
Stdev : 4.496970176697
Max : 83.410537719727

Min : 13.229293823242

SNAPAccuracy
../DCU/j15may.040.dat.3g
e233t3l.dat.digi3G
Comparing: ../DCU/j15may.040.dat.3g
with e233t3l.dat.digi3G
Average:
20.084346478568
Stdev : 4.539556026459
Max : 83.410537719727
Min : 13.229293823242

SNAPAccuracy
../DCU/g15may.040.dat.1j
e233t3l.dat.digi1J
Comparing: ../DCU/g15may.040.dat.1j
with e233t3l.dat.digi1J
Average:
19.234500276546
Stdev : 11.993008613586
Max : 96.000000000000
Min : 5.888999938965

SNAPAccuracy
../DCU/g15may.040.dat.2j
e233t3l.dat.digi2J
Comparing: ../DCU/g15may.040.dat.2j
with e233t3l.dat.digi2J
Average:
20.457723623514
Stdev : 4.029619693756
Max : 66.720298767090
Min : 11.800827980042

SNAPAccuracy
../DCU/g15may.040.dat.3j
e233t3l.dat.digi3J
Comparing: ../DCU/g15may.040.dat.3j
with e233t3l.dat.digi3J
Average:
20.489006932444
Stdev : 3.482487440109
Max : 65.525703430176
Min : 11.800827980042

SNAPAccuracy
../DCU/g15may.040.dat.1g
e233t3l.dat.digi1G
Comparing: ../DCU/g15may.040.dat.1g
with e233t3l.dat.digi1G
Average: 0.012396694215
Stdev : 0.272445380688
Max : 6.000000000000

Min : 0.000000000000

SNAPAccuracy
../DCU/g15may.040.dat.2g
e233t3l.dat.digi2G
Comparing: ../DCU/g15may.040.dat.2g
with e233t3l.dat.digi2G
Average: 0.001111801269
Stdev : 0.001570933382
Max : 0.004999999888
Min : 0.000000000000

SNAPAccuracy
../DCU/g15may.040.dat.3g
e233t3l.dat.digi3G
Comparing: ../DCU/g15may.040.dat.3g
with e233t3l.dat.digi3G
Average: 13.209276455377
Stdev : 3.175176620483
Max : 16.838010787964
Min : 0.000000000000

7.3.41 Stats.041

/sg16/usr1/nets/GATEWAY/gateway_lit
e2.stats
Frames : 494
Average: 0.00340407
Maximum: 0.008206
2nd Max: 0.004943
Minimum: 0.001383

/sg16/usr1/nets/GATEWAY/gateway_lit
e1.stats
Frames : 495
Average: 0.00353728
Maximum: 0.006228
2nd Max: 0.004746
Minimum: 0.000988

/sg16/usr1/nets/DISNET/disnet7.stats
PDUs : 1393
Count : 844
Average: 2021.95
Maximum: 3378.38
2nd Max: 3367
Minimum: -807.537

Frames : 635304
Average: 0.000205788
Maximum: 0.01089
2nd Max: 0.010593
Minimum: 8e-06

PDUs from Net1: 1376
PDUs from Net2: 1393

PDU Buffer 1

-- Stats from CircularBuffer --

NumPass: 1376
Average: 0.0443786
Variance: 9.83307e-05
Maximum: 0.074546
2nd Max: 0.072173
Minimum: 0.017203

-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --

NumPass: 1393
Average: 0.0456823
Variance: 0.000100045
Maximum: 0.071876
2nd Max: 0.070787
Minimum: 0.018982

-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.052595
Maximum: 0.180180
Minimum: 0.000020
Variance: 0.000751
Std Dev : 0.027397

SNAPTtimes.pl e243t3l.dat

Sel-J Tss avg.:
0.001321176938749859
Sel-J Tns avg.:
0.00078785486935237963
Sel-J Tnr avg.:
0.0029542067594581817
Sel-J Trs avg.:
0.00046838568599902048
Sel-J NIU avg.:
0.0037420616288105614
Sel-J Nius avg.:
0.00078785486935237963
Sel-J Niur avg.:
0.0029542067594581817
Sel-J Tgs avg.:
0.0018630715704832696
Sel-J Tgr avg.:
0.0010683081513428116

DCUAccuracy j15may.041.dat.g
g15may.041.dat.ownship
Average: 22.859073193901
Stddev : 14.742082595825
Max : 77.632774353027
Min : 3.493694067001

DCUAccuracy
g15may.041.dat.j
j15may.041.dat.ownship
Average:
20.708015030525
Stddev : 13.000161170959
Max : 57.728862762451
Min : 4.582142353058

SNAPAccuracy
../DCU/j15may.041.dat.1j
e243t3l.dat.digi1J
Comparing:
../DCU/j15may.041.dat.1j
with e243t3l.dat.digi1J
Average: 0.000079538777
Stddev : 0.000347540539
Max : 0.004000000190
Min : 0.000000000000

SNAPAccuracy
../DCU/j15may.041.dat.2j
e243t3l.dat.digi2J
Comparing:
../DCU/j15may.041.dat.2j
with e243t3l.dat.digi2J
Average: 0.001114065331
Stddev : 0.001551027875
Max : 0.004999999888
Min : 0.000000000000

SNAPAccuracy
../DCU/j15may.041.dat.3j
e243t3l.dat.digi3J
Comparing:
../DCU/j15may.041.dat.3j
with e243t3l.dat.digi3J
Average:
13.436553357572
Stddev : 2.649827003479
Max : 16.838010787964
Min : 9.218936920166

SNAPAccuracy
../DCU/j15may.041.dat.1g
e243t3l.dat.digi1G
Comparing:
../DCU/j15may.041.dat.1g
with e243t3l.dat.digi1G
Average:
20.507919629415
Stddev : 4.967357158661
Max : 83.410537719727
Min : 13.192347526550

SNAPAccuracy
../DCU/j15may.041.dat.2g
e243t3l.dat.digi2G

Comparing: ../DCU/j15may.041.dat.2g
with e243t3l.dat.digi2G
Average: 20.775130665523
Stddev : 5.914266109467
Max : 83.440536499023
Min : 13.192347526550

SNAPAccuracy
../DCU/j15may.041.dat.3g
e243t3l.dat.digi3G
Comparing: ../DCU/j15may.041.dat.3g
with e243t3l.dat.digi3G
Average: 20.620080147261
Stddev : 5.080368995667
Max : 83.410537719727
Min : 13.192347526550

SNAPAccuracy
../DCU/g15may.041.dat.1j
e243t3l.dat.digi1J
Comparing: ../DCU/g15may.041.dat.1j
with e243t3l.dat.digi1J
Average: 20.469190773417
Stddev : 4.203167438507
Max : 66.720298767090
Min : 13.279849052429

SNAPAccuracy
../DCU/g15may.041.dat.2j
e243t3l.dat.digi2J
Comparing: ../DCU/g15may.041.dat.2j
with e243t3l.dat.digi2J
Average: 20.701761504385
Stddev : 5.118382453918
Max : 83.440536499023
Min : 13.279705047607

SNAPAccuracy
../DCU/g15may.041.dat.3j
e243t3l.dat.digi3J
Comparing: ../DCU/g15may.041.dat.3j
with e243t3l.dat.digi3J
Average: 20.587649900405
Stddev : 4.260998249054
Max : 66.720298767090
Min : 13.279705047607

SNAPAccuracy
../DCU/g15may.041.dat.1g
e243t3l.dat.digi1G
Comparing: ../DCU/g15may.041.dat.1g
with e243t3l.dat.digi1G
Average: 0.001063951145
Stddev : 0.001549582346
Max : 0.004999999888
Min : 0.000000000000

SNAPAccuracy

../DCU/g15may.041.dat.2g

e243t3l.dat.digi2G

Comparing: ../DCU/g15may.041.dat.2g

with e243t3l.dat.digi2G

Average: 0.001097759700

Stdev : 0.001564178616

Max : 0.004999999888

Min : 0.000000000000

SNAPAccuracy

../DCU/g15may.041.dat.3g

e243t3l.dat.digi3G

Comparing: ../DCU/g15may.041.dat.3g

with e243t3l.dat.digi3G

Average: 13.441250853529

Stdev : 2.649172544479

Max : 16.838010787964

Min : 9.218936920166

7.4 16 May 97 Data

7.4.1 Stats.001

/usr1/figd/DIS2.2/dis4.stats

Frames : 503

Average: 0.00319968

Maximum: 0.013362

2nd Max: 0.007316

Minimum: 0.001186

RateErr: 0

/usr1/figd/DIS2.2/dis3.stats

Frames : 503

Average: 0.00339766

Maximum: 0.014251

2nd Max: 0.007909

Minimum: 0.001285

RateErr: 0

/sg16/usr1/nets/DISNET/disnet7.stats

PDUUs : 1999

Count : 1505

Average: 2065.01

Maximum: 10638.3

2nd Max: 5050.51

Minimum: -3687.77

Frames : 504611

Average: 0.000209459

Maximum: 0.010198

2nd Max: 0.010198

Minimum: 1.8e-05

PDUUs from Net1: 1996

PDUUs from Net2: 1999

PDU Buffer 1

-- Stats from CircularBuffer --

NumPass: 1996

Average: 0.0461187

Variance: 0.000102192

Maximum: 0.081762

2nd Max: 0.077017

Minimum: 0.014929

-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --

NumPass: 1999

Average: 0.0453305

Variance: 9.7702e-05

Maximum: 0.075929

2nd Max: 0.07583

Minimum: 0.013545

-- End Stats from

CircularBuffer --

SNAPPdus.pl

ERROR: counted PDUs

was zero

SNAPTtimes.pl

Sel-J Tss avg.:

0.0012812803177522666

Sel-J Tns avg.:

0.00089253280310087077

Sel-J Tnr avg.:

0.0023912226640763756

Sel-J Trs avg.:

0.00040452683926097099

Sel-J NIU avg.:

0.003318960238316385

Sel-J Tgs avg.: 0

Sel-J Tgr avg.:

0.00029482305997998359

DCUAccuracy

j16may.001.dat.g

g16may.001.dat.ownship

Average: 0.396929544827

Stdev : 1.543980240822

Max : 13.342158317566

Min : 0.015805618837

where G sees J

Average: 0.356703061829

Stdev : 1.503319025040

Max : 12.919676780701

Min : 0.057019643486

7.4.2 Stats.002

/usr1/figd/DIS2.2/dis_lite3.

stats

Frames : 503

Average: 0.00334924

Maximum: 0.013262

2nd Max: 0.010281

Minimum: 0.00168

RateErr: 0

/usr1/figd/DIS2.2/dis_lite4.

stats

Frames : 503

Average: 0.00316648

Maximum: 0.010381

2nd Max: 0.001582

Minimum: 0.001582

RateErr: 0

/sg16/usr1/nets/DISNET/disnet7.stats

PDUUs : 2003

Count : 1681

Average: 2011.53

Maximum: 5050.51

2nd Max: 3378.38

Minimum: -3278.69

Frames : 402210

Average: 0.000210626

Maximum: 0.011185

2nd Max: 0.010198

Minimum: 5.8e-05

PDUUs from Net1: 2002

PDUUs from Net2: 2003

PDU Buffer 1

-- Stats from CircularBuffer --

NumPass: 2002

Average: 0.0456137

Variance: 0.000105337

Maximum: 0.079784

2nd Max: 0.0784

Minimum: 0.012952

-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --

NumPass: 2003

Average: 0.0457124

Variance: 9.71475e-05

Maximum: 0.081069

2nd Max: 0.072271

Minimum: 0.017203

-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.051190

Maximum: 0.702798

Minimum: 0.000005

Variance: 0.001416

Std Dev : 0.037630

SNAPTtimes.pl

Sel-J Tss avg.:

0.0013345844929847611

Sel-J Tns avg.:

0.0013812485087317393

Sel-J Tnr avg.:

0.0018310019881584891

Sel-J Trs avg.:

0.00048019880713352461

Sel-J NIU avg.:

0.0032586381708991125

Sel-J Tgs avg.: 0

Sel-J Tgr avg.: 0

DCUAccuracy j16may.002.dat.g
g16may.002.dat.ownship
Average: 28.592132015940
Stdev : 28.865129470825
Max : 78.053840637207
Min : 0.025997569785

DCUAccuracy g16may.002.dat.j
j16may.002.dat.ownship
Average: 0.340214493118
Stdev : 2.075827598572
Max : 40.696105957031
Min : 0.055642072111

SNAPAccuracy
../DCU/j16may.002.dat.1j
e211t0dl.dat.digi1J
Comparing: ../DCU/j16may.002.dat.1j
with e211t0dl.dat.digi1J
Average: 0.105862951793
Stdev : 0.596238553524
Max : 12.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j16may.002.dat.2j
e211t0dl.dat.digi2J
Comparing: ../DCU/j16may.002.dat.2j
with e211t0dl.dat.digi2J
Average: 0.328900585273
Stdev : 0.583019018173
Max : 12.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j16may.002.dat.3j
e211t0dl.dat.digi3J
Comparing: ../DCU/j16may.002.dat.3j
with e211t0dl.dat.digi3J
Average: 0.639550927054
Stdev : 0.566661775112
Max : 12.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j16may.002.dat.1g
e211t0dl.dat.digi1G
Comparing: ../DCU/j16may.002.dat.1g
with e211t0dl.dat.digi1G
Average: 0.159426181767
Stdev : 1.169373035431
Max : 24.000000000000
Min : 0.013000000268

SNAPAccuracy
../DCU/j16may.002.dat.2g
e211t0dl.dat.digi2G

Comparing:
../DCU/j16may.002.dat.2g
with e211t0dl.dat.digi2G
Average: 0.421386871675
Stdev : 1.410739779472
Max : 24.000000000000
Min : 0.225099995732

SNAPAccuracy
../DCU/j16may.002.dat.3g
e211t0dl.dat.digi3G
Comparing:
../DCU/j16may.002.dat.3g
with e211t0dl.dat.digi3G
Average: 0.735151720047
Stdev : 1.356716632843
Max : 24.000000000000
Min : 0.550999999046

SNAPAccuracy
../DCU/g16may.002.dat.1j
e211t0dl.dat.digi1J
Comparing:
../DCU/g16may.002.dat.1j
with e211t0dl.dat.digi1J
Average: 0.246138767573
Stdev : 2.226493835449
Max : 30.000000000000
Min : 0.003000000026

SNAPAccuracy
../DCU/g16may.002.dat.2j
e211t0dl.dat.digi2J
Comparing:
../DCU/g16may.002.dat.2j
with e211t0dl.dat.digi2J
Average: 0.615938746041
Stdev : 2.490287303925
Max : 36.000000000000
Min : 0.111299999058

SNAPAccuracy
../DCU/g16may.002.dat.3j
e211t0dl.dat.digi3J
Comparing:
../DCU/g16may.002.dat.3j
with e211t0dl.dat.digi3J
Average: 0.806154751537
Stdev : 1.520868897438
Max : 24.000000000000
Min : 0.467400014400

SNAPAccuracy
../DCU/g16may.002.dat.1g
e211t0dl.dat.digi1G
Comparing:
../DCU/g16may.002.dat.1g
with e211t0dl.dat.digi1G
Average: 0.023475361412

Stdev : 0.270722776651
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/g16may.002.dat.2g
e211t0dl.dat.digi2G
Comparing: ../DCU/g16may.002.dat.2g
with e211t0dl.dat.digi2G
Average: 0.409390320351
Stdev : 0.578450739384
Max : 12.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/g16may.002.dat.3g
e211t0dl.dat.digi3G
Comparing: ../DCU/g16may.002.dat.3g
with e211t0dl.dat.digi3G
Average: 0.737756906436
Stdev : 0.561252832413
Max : 12.000000000000
Min : 0.000000000000

7.4.3 Stats.003

SNAPPdus.pl
Average: 0.050427
Maximum: 0.087129
Minimum: 0.012094
Variance: 0.000104
Std Dev : 0.010208

SNAPTimes.pl e213t0.dat
Sel-J Tss avg.:
0.0013122306163151976
Sel-J Tns avg.:
0.00098407157035669502
Sel-J Tnr avg.:
0.0034472385688305777
Sel-J Trs avg.:
0.00062499801188783261
Sel-J NIU avg.:
0.0044313101391872728
Sel-J Nius avg.:
0.00098407157035669502
Sel-J Niur avg.:
0.0034472385688305777
Sel-J Tgs avg.:
0.002189954274220491
Sel-J Tgr avg.:
0.0019573161034406464

DCUAccuracy j16may.003.dat.g
g16may.003.dat.ownship
Average: 14.549808504128
Stdev : 1.033882021904
Max : 16.360784530640
Min : 12.753773689270

DCUAccuracy g16may.003.dat.j
j16may.003.dat.ownship
Average: 13.692180382483
Stdev : 0.705694317818
Max : 14.381189346313
Min : 0.285843551159

SNAPAccuracy
../DCU/j16may.003.dat.1j
e213t0.dat.digi1J
Comparing: ../DCU/j16may.003.dat.1j
with e213t0.dat.digi1J
Average: 0.000000000000
Stdev : 0.000000000000
Max : 0.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j16may.003.dat.2j
e213t0.dat.digi2J
Comparing: ../DCU/j16may.003.dat.2j
with e213t0.dat.digi2J
Average: 0.012048192771
Stdev : 0.268596351147
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j16may.003.dat.3j
e213t0.dat.digi3J
Comparing: ../DCU/j16may.003.dat.3j
with e213t0.dat.digi3J
Average: 0.012048192771
Stdev : 0.268596351147
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/j16may.003.dat.1g
e213t0.dat.digi1G
Comparing: ../DCU/j16may.003.dat.1g
with e213t0.dat.digi1G
Average: 5.922870923633
Stdev : 0.076282717288
Max : 7.085999965668
Min : 5.818200111389

SNAPAccuracy
../DCU/j16may.003.dat.2g
e213t0.dat.digi2G
Comparing: ../DCU/j16may.003.dat.2g
with e213t0.dat.digi2G

Average: 5.922790118075
Stdev : 0.076345920563
Max : 7.085999965668
Min : 5.818200111389

SNAPAccuracy
../DCU/j16may.003.dat.3g
e213t0.dat.digi3G
Comparing:
../DCU/j16may.003.dat.3g
with e213t0.dat.digi3G
Average: 5.922689085547
Stdev : 0.076329179108
Max : 7.085999965668
Min : 5.818200111389

SNAPAccuracy
../DCU/g16may.003.dat.1j
e213t0.dat.digi1J
Comparing:
../DCU/g16may.003.dat.1j
with e213t0.dat.digi1J
Average: 6.068948351735
Stdev : 0.056793127209
Max : 6.144199848175
Min : 4.906300067902

SNAPAccuracy
../DCU/g16may.003.dat.2j
e213t0.dat.digi2J
Comparing:
../DCU/g16may.003.dat.2j
with e213t0.dat.digi2J
Average: 6.069160715288
Stdev : 0.055969759822
Max : 6.144199848175
Min : 4.915100097656

SNAPAccuracy
../DCU/g16may.003.dat.3j
e213t0.dat.digi3J
Comparing:
../DCU/g16may.003.dat.3j
with e213t0.dat.digi3J
Average: 6.068941687765
Stdev : 0.055930696428
Max : 6.144199848175
Min : 4.915100097656

SNAPAccuracy
../DCU/g16may.003.dat.1g
e213t0.dat.digi1G
Comparing:
../DCU/g16may.003.dat.1g
with e213t0.dat.digi1G
Average: 0.000000000000
Stdev : 0.000000000000
Max : 0.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/g16may.003.dat.2g
e213t0.dat.digi2G
Comparing: ../DCU/g16may.003.dat.2g
with e213t0.dat.digi2G
Average: 0.012048192771
Stdev : 0.268596351147
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/g16may.003.dat.3g
e213t0.dat.digi3G
Comparing: ../DCU/g16may.003.dat.3g
with e213t0.dat.digi3G
Average: 0.012048192771
Stdev : 0.268596351147
Max : 6.000000000000
Min : 0.000000000000

7.4.4 Stats.004

/sg16/usr1/nets/GATEWAY/gateway_lit
e2.stats
Frames : 501
Average: 0.00470688
Maximum: 0.01048
2nd Max: 0.008108
Minimum: 0.003262

/sg16/usr1/nets/GATEWAY/gateway_lit
e1.stats
Frames : 501
Average: 0.00534634
Maximum: 0.010183
2nd Max: 0.008997
Minimum: 0.003658

/sg16/usr1/nets/GATEWAY/gateway1.s
tats
Frames : 501
Average: 0.00477912
Maximum: 0.015819
2nd Max: 0.004053
Minimum: 0.002768

/sg16/usr1/nets/GATEWAY/gateway2.s
tats
Frames : 501
Average: 0.00444623
Maximum: 0.011272
2nd Max: 0.008008

Minimum: 0.002472

/sg16/usr1/nets/DISNET/disnet7.stats

PDU's : 2007

Count : 1319

Average: 1947.52

Maximum: 5050.51

2nd Max: 3378.38

Minimum: -2212.39

Frames : 261233

Average: 0.000211018

Maximum: 0.011483

2nd Max: 0.011286

Minimum: 8.8e-05

PDU's from Net1: 2004

PDU's from Net2: 2007

PDU Buffer 1

-- Stats from CircularBuffer --

NumPass: 2004

Average: 0.0452011

Variance: 0.000105129

Maximum: 0.082553

2nd Max: 0.082158

Minimum: 0.01315

-- End Stats from CircularBuffer --

PDU Buffer 2

-- Stats from CircularBuffer --

NumPass: 2007

Average: 0.0444393

Variance: 0.000107436

Maximum: 0.077709

2nd Max: 0.074842

Minimum: 0.010776

-- End Stats from CircularBuffer --

SNAPPdus.pl

Average: 0.050270

Maximum: 0.120156

Minimum: 0.000003

Variance: 0.000468

Std Dev : 0.021630

SNAPTimes.pl e213t0l.dat

Sel-J Tss avg.:

0.0013866381708194204

Sel-J Tns avg.:

0.00098407157035669502

Sel-J Tnr avg.:

0.0034472385688305777

Sel-J Trs avg.:

0.00055173558664876616

Sel-J NIU avg.:

0.0044313101391872728

Sel-J Nius avg.:

0.00098407157035669502

Sel-J Niur avg.:

0.0034472385688305777

Sel-J Tgs avg.:

0.002189954274220491

Sel-J Tgr avg.:

0.0019573161034406464

DCUAccuracy

j16may.004.dat.g

g16may.004.dat.ownship

Average:

14.562221897010

Stdev : 1.036454796791

Max : 16.494485855103

Min : 12.773726463318

DCUAccuracy

g16may.004.dat.j

j16may.004.dat.ownship

Average:

13.820977047236

Stdev : 1.851223707199

Max : 54.266124725342

Min : 13.094814300537

SNAPAccuracy

../DCU/j16may.004.dat.1j

e213t0l.dat.digi1J

Comparing:

../DCU/j16may.004.dat.1j

with e213t0l.dat.digi1J

Average: 0.012000000000

Stdev : 0.268059700727

Max : 6.000000000000

Min : 0.000000000000

SNAPAccuracy

../DCU/j16may.004.dat.2j

e213t0l.dat.digi2J

Comparing:

../DCU/j16may.004.dat.2j

with e213t0l.dat.digi2J

Average: 0.012000000000

Stdev : 0.268059700727

Max : 6.000000000000

Min : 0.000000000000

SNAPAccuracy

../DCU/j16may.004.dat.3j

e213t0l.dat.digi3J

Comparing:

../DCU/j16may.004.dat.3j

with e213t0l.dat.digi3J

Average: 0.012000000000

Stdev : 0.268059700727

Max : 6.000000000000

Min : 0.000000000000

SNAPAccuracy

../DCU/j16may.004.dat.1g

e213t0l.dat.digi1G

Comparing: ../DCU/j16may.004.dat.1g

with e213t0l.dat.digi1G

Average: 5.988526555800

Stdev : 1.207887411118

Max : 30.000000000000

Min : 5.848000049591

SNAPAccuracy

../DCU/j16may.004.dat.2g

e213t0l.dat.digi2G

Comparing: ../DCU/j16may.004.dat.2g

with e213t0l.dat.digi2G

Average: 5.916490941096

Stdev : 0.028035294265

Max : 6.352180004120

Min : 5.848000049591

SNAPAccuracy

../DCU/j16may.004.dat.3g

e213t0l.dat.digi3G

Comparing: ../DCU/j16may.004.dat.3g

with e213t0l.dat.digi3G

Average: 5.953919386671

Stdev : 0.811820566654

Max : 24.000000000000

Min : 5.848100185394

SNAPAccuracy

../DCU/g16may.004.dat.1j

e213t0l.dat.digi1J

Comparing: ../DCU/g16may.004.dat.1j

with e213t0l.dat.digi1J

Average: 6.110854762492

Stdev : 0.805230498314

Max : 24.000000000000

Min : 5.755000114441

SNAPAccuracy

../DCU/g16may.004.dat.2j

e213t0l.dat.digi2J

Comparing: ../DCU/g16may.004.dat.2j

with e213t0l.dat.digi2J

Average: 6.148797618982

Stdev : 1.136903643608

Max : 24.000000000000

Min : 5.755000114441

SNAPAccuracy

../DCU/g16may.004.dat.3j

e213t0l.dat.digi3J

Comparing: ../DCU/g16may.004.dat.3j

with e213t0l.dat.digi3J

Average: 6.148659565756

Stdev : 1.136417627335

Max : 24.000000000000

Min : 5.793999671936

SNAPAccuracy
../DCU/g16may.004.dat.1g
e213t0l.dat.digi1G
Comparing: ../DCU/g16may.004.dat.1g
with e213t0l.dat.digi1G
Average: 0.012000000000
Stdev : 0.268059700727
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/g16may.004.dat.2g
e213t0l.dat.digi2G
Comparing: ../DCU/g16may.004.dat.2g
with e213t0l.dat.digi2G
Average: 0.012000000000
Stdev : 0.268059700727
Max : 6.000000000000
Min : 0.000000000000

SNAPAccuracy
../DCU/g16may.004.dat.3g
e213t0l.dat.digi3G
Comparing: ../DCU/g16may.004.dat.3g
with e213t0l.dat.digi3G
Average: 0.012000000000
Stdev : 0.268059700727
Max : 6.000000000000
Min : 0.000000000000