

# Data Communication Performance Testing of ACTS

**Marjorie L. Weibel**



**U.S. DEPARTMENT OF COMMERCE**  
**Ronald H. Brown, Secretary**

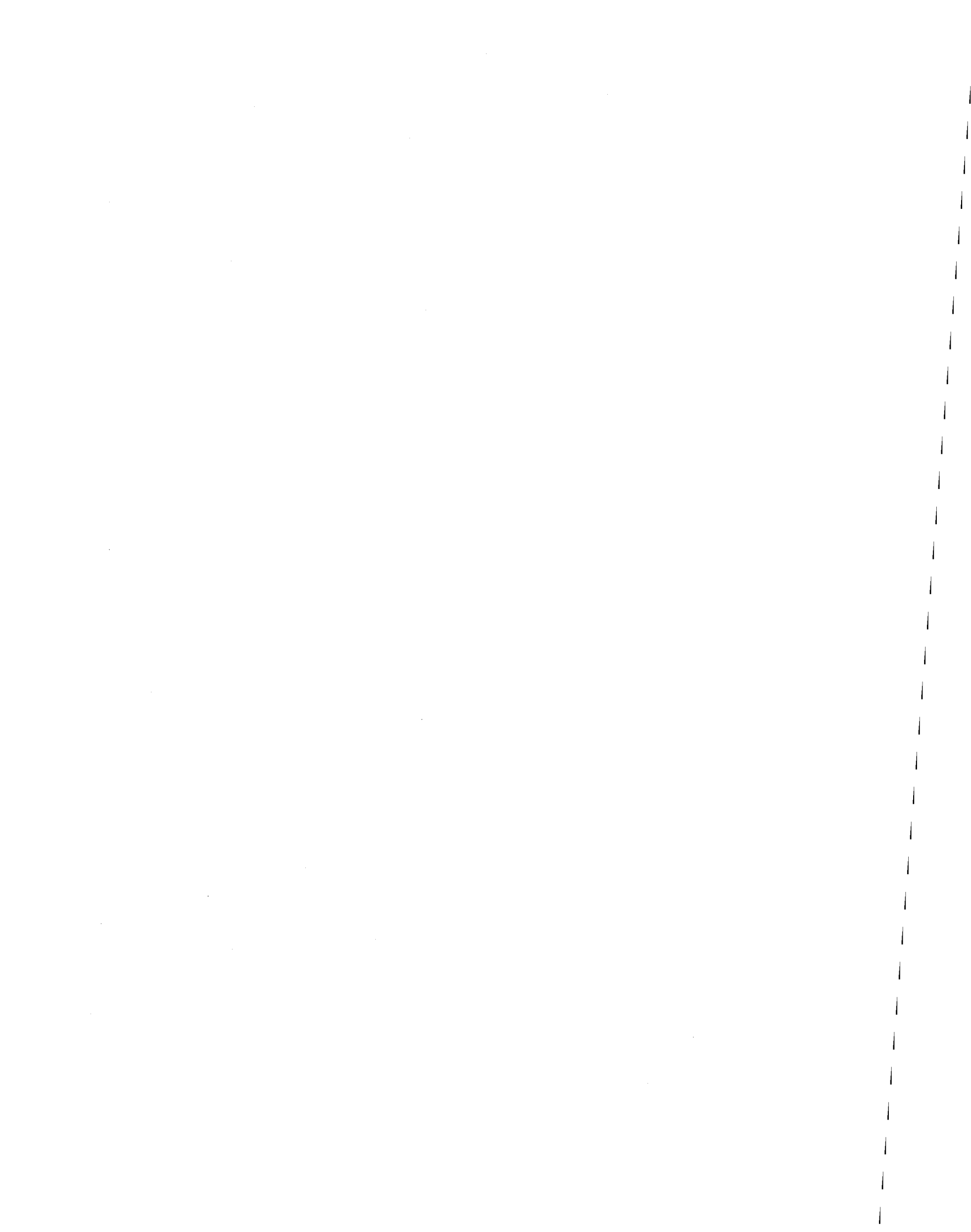
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## PREFACE

Certain commercial equipment, instruments, services, protocols, and materials are identified in this report to adequately specify the engineering issues. In no case does such identification imply recommendation or endorsement by the National Telecommunications and Information Administration, nor does it imply that the material, equipment, or service identified is necessarily the best available for the purpose.



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# DATA COMMUNICATION PERFORMANCE TESTING OF ACTS

Marjorie L. Weibel<sup>1</sup>

The results of a series of data communication tests, which define the digital end-to-end performance of the Advanced Communication Technology Satellite (ACTS), are presented. The experiment consisted of a test set characterization to determine the effect of the test set on the results, a preliminary characterization to define the failure/nonperformance outcome thresholds, and a full characterization. The experiments' design, execution, and analysis comply with the American National Standards X3.102 and X3.141. The tests showed that ACTS has a very clean data channel (only one lost byte was recorded during all the tests), the X.25 packet mode did not perform as well as expected, and the parameter estimates did not vary substantially over time or destination location.

Key words: ACTS; ANSI X3.102; ANSI X3.141; Advanced Communication Technology Satellite; satellite communications

## 1. BACKGROUND

Spurred by emerging technologies such as personal communications services (PCS), asynchronous transfer mode (ATM), and the government's vision of a high-speed network accessible by all citizens (evident in the National Information Infrastructure), speculation of future communications has become headline news in even the most nontechnical magazines, newspapers, and journals. In the new communications environment, everyone wants to be connected to everyone (or everything) else at anytime. They ideally would like to transmit voice, video, and data at various data rates using the same physical equipment and protocols. One envisioned application, supervisory control and data acquisition (SCADA), operates by polling the status of geographically disperse systems such as oil pipelines at rates up to once per second. At the other end of the spectrum, remote supercomputers perform parallel processing at data rates up to 1 Gbps. In between these extremes are desktop conferencing (from 64 kbps to 384 kbps), video conferencing, and video on demand.

Most applications can be implemented using either wireless systems or wire/fiber systems. This is, in part, a result of the new emerging satellite and ground segment technologies, in which "more and

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more satellite equipment will meet terrestrial standards, leading to convergence of ground- and sky-based technologies into one seamless system." [1] The choice of a transmission medium is often based on parameters such as the cost or time of implementation. Given these parameters, satellites may be the preferred choice in the following situations: (1) for areas that do not offer terrestrial service at the data rates a user requires (e.g., in Colorado, there are many areas that still only offer service from analog switches); (2) for connecting remote networks using specialized protocols (e.g., Integrated Services Digital Networks (ISDN) and ATM) and/or operating at high-speeds (e.g., OC-12); (3) for emergency situations when the terrestrial network has been destroyed; (4) for geographically dispersed SCADA-type applications; (5) for worldwide wireless consumer applications (e.g., PCS and paging); and (6) as a backup switch for load leveling of a terrestrial network.

The tests described in this paper were performed on an advanced communication satellite system that showcases several new space- and ground-based technologies. Specifically, the tests were performed on NASA's Advanced Communication Technology Satellite (ACTS) which was launched in September 1993. The system is experimental with enough fuel for four years of operation. Throughout its operational life, more than 80 organizations [2] will test ACTS technical capabilities and demonstrate new applications that ACTS can support. Examples of new technical capabilities and applications include transmission data rates up to 622 Mbps (OC-12), remote medical and educational services, and T1 (1.544 Mbps) video transmissions to aircraft.

NASA initially developed ACTS to reduce industry's risk in incorporating advanced technologies in future satellite systems. Several commercial systems in the design stage plan on using ACTS-developed technologies. These systems include Motorola's Iridium, Hughes' Spaceway, and Norris' Norstar. These systems are incorporating technologies developed on ACTS such as on-board switching, spot beams, and Ka-band operation.

## **1.1 ACTS System Description**

ACTS uses several newly developed technologies such as on-board baseband switching, scanning and hopping spot beams, high data rate communications between users (OC-12), and Ka-band operation (30/20 GHz). In addition, ACTS applies technologies available 30 years ago, like Demand Assigned Multiple Access (DAMA), that opens the two-way video, data, and voice markets and makes the system act more like a terrestrial switched circuit than a leased line like conventional VSAT (very small aperture terminal) networks [1]. These technologies provide network flexibility,

on-demand digital services, and as much as three times the communications capacity for the same weight as today's operational satellites. All in all, the use of these technologies results in a more cost effective system when compared to today's satellites [3].

An ISDN interface, developed specifically for ACTS, translates the ISDN protocols into ACTS orderwires.<sup>2</sup> In a future satellite system that uses ISDN, the orderwires could be designed from the very beginning to accommodate the ISDN call setup messages so no translations would be necessary. Besides ISDN, frame relay and ATM interfaces are being developed to evaluate the satellite transmission medium for these systems. The Institute for Telecommunication Sciences (ITS) is also involved with a study of low data rate ATM (1.544 Mbps) over ACTS in a related project.

The ground segment, or Earth Station (ES), used in this experiment is called a T1-VSAT. The T1-VSAT can communicate at a data rate of 1.792 Mbps (one T1 + four 64-kbps channels) with an antenna size of 1.2 m in diameter. The T1-VSAT has an outdoor unit and an indoor unit. Figure 1 shows the outdoor unit which consists of the antenna (a parabolic dish), the radio frequency (RF) feed, an intermediate power amplifier, and an intermediate frequency (IF) interface unit that mixes the signal down to IF. The IF signals are transmitted over 100 feet of heliax cable to the indoor unit. Figure 2 shows the indoor unit which consists of a controlling computer, a two-shelf, small central office (CO), a frequency standard (rubidium oscillator), a modem, a DC power supply, and a man-machine interface. Due to the switching that occurs on-board the satellite, the electronics of the T1-VSAT are simplified compared to other ES systems and thus are more cost effective. Although an experimental program and manufactured in small quantities, the T1-VSAT's cost was only \$260,000. In mass production, the cost would be expected to decrease significantly and has been developed to be comparable on a cost-per-unit-of-data-bandwidth basis to existing Ku-band terminals [5]. In addition, due to the T1-VSAT's small size, it can easily be installed by two people (as was the unit pictured in Figure 1). This also affects the total cost because no equipment (e.g., a crane) is needed for installation.

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<sup>2</sup> Orderwires are dedicated two-way control channels through which the Earth Stations maintain communications (for acquisition, synchronization, circuit request, and circuit assignment) with the ACTS master control station (MCS). More detailed information can be found in [4].

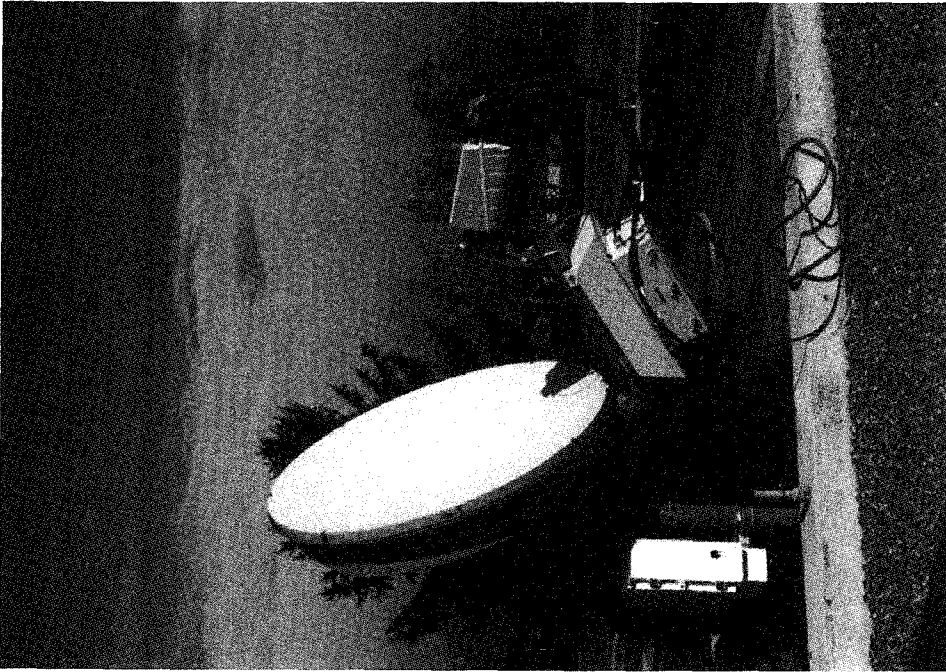


Figure 1. T1-VSAT outdoor unit.

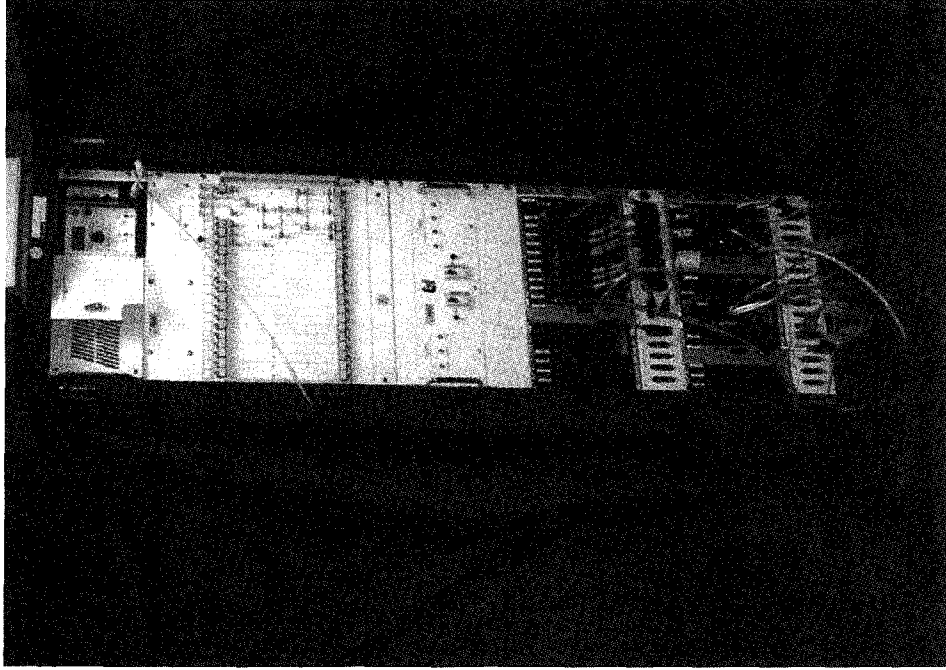


Figure 2. T1-VSAT indoor unit.

## 1.2 Purpose of ACTS Experiment

For systems such as ACTS, users require different and additional information than was necessary with repeater satellite systems.<sup>3</sup> For example, with the use of DAMA, users will now have the ability to request satellite circuit capacity dynamically. This is called an access request and may be done in a similar way to an access request in the terrestrial network (e.g., lifting a voice handset and dialing a phone number). Depending on the system loading or the existing weather conditions, access may occur within a specified amount of time, or it may be denied or ignored. For a user that requires short access times or a reliable access session, this may be intolerable. However, other users may not have such usage restrictions. Therefore, in this example, a user would need to know the access time and access probabilities in order to make an informed decision.

With this need in mind, the objective of this ACTS experiment was to define the data communication performance provided to a pair of users who use an advanced communication satellite as the transmission medium. Results from this experiment provide users with the information they need to determine the suitability of a system such as ACTS for meeting their needs.

## 1.3 ACTS Unbiased Measurement System

Measurements were made using a workstation-based system that transfers, collects, and processes data to produce estimated values of the American National Standard (ANS) X3.102 performance parameters [6], listed in Table 1. The measurement software conforms to the standard ANS X3.141 [7], which defines proper methods to estimate the ANS X3.102 parameters. The measurement system treats the data communication system, ACTS and associated equipment, as a black box. The measurements are made between two predefined users (the test software is the user) shown in Figure 3. As shown in the figure, the user interface resides in the workstations and is between the test software and a stream head to the X.25 application programming interface (API) or the operating system (UNIX<sup>4</sup>) for the ISDN and modem tests. In order to more accurately determine the contribution of the ACTS system to the performance parameters and deduct the contribution due to the test sets, the test software was run on the test sets in a back-to-back mode

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<sup>3</sup> For a repeater-type satellite, the system's signal-to-noise ratio provides an idea of how reliably the data will be received, and the bandwidth provides an idea of how fast data will be transmitted.

<sup>4</sup> Trademark of AT&T.

Table 1. American National Standard X3.102 Performance Parameters

FUNCTION	PERFORMANCE CRITERION			PERFORMANCE TIME ALLOCATION
	SPEED	ACCURACY	RELIABILITY	
ACCESS	ACCESS TIME	INCORRECT ACCESS PROBABILITY	ACCESS DENIAL PROBABILITY ACCESS OUTAGE PROBABILITY	USER FRACTION (UF) OF ACCESS TIME
USER INFORMATION TRANSFER	BLOCK TRANSFER TIME	BIT ERROR PROBABILITY BIT MISDELIVERY PROBABILITY EXTRA BIT PROBABILITY BLOCK ERROR PROBABILITY BLOCK MISDELIVERY PROBABILITY EXTRA BLOCK PROBABILITY	BIT LOSS PROBABILITY BLOCK LOSS PROBABILITY	UF OF BLOCK TRANSFER TIME
	USER INFORMATION BIT TRANSFER RATE	TRANSFER DENIAL PROBABILITY		UF OF INPUT/OUTPUT TIME
DISENGAGEMENT	DISENGAGEMENT TIME	DISENGAGEMENT DENIAL PROBABILITY		UF OF DISENGAGEMENT TIME

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Legend:

- Primary Parameters
- Ancillary Parameters

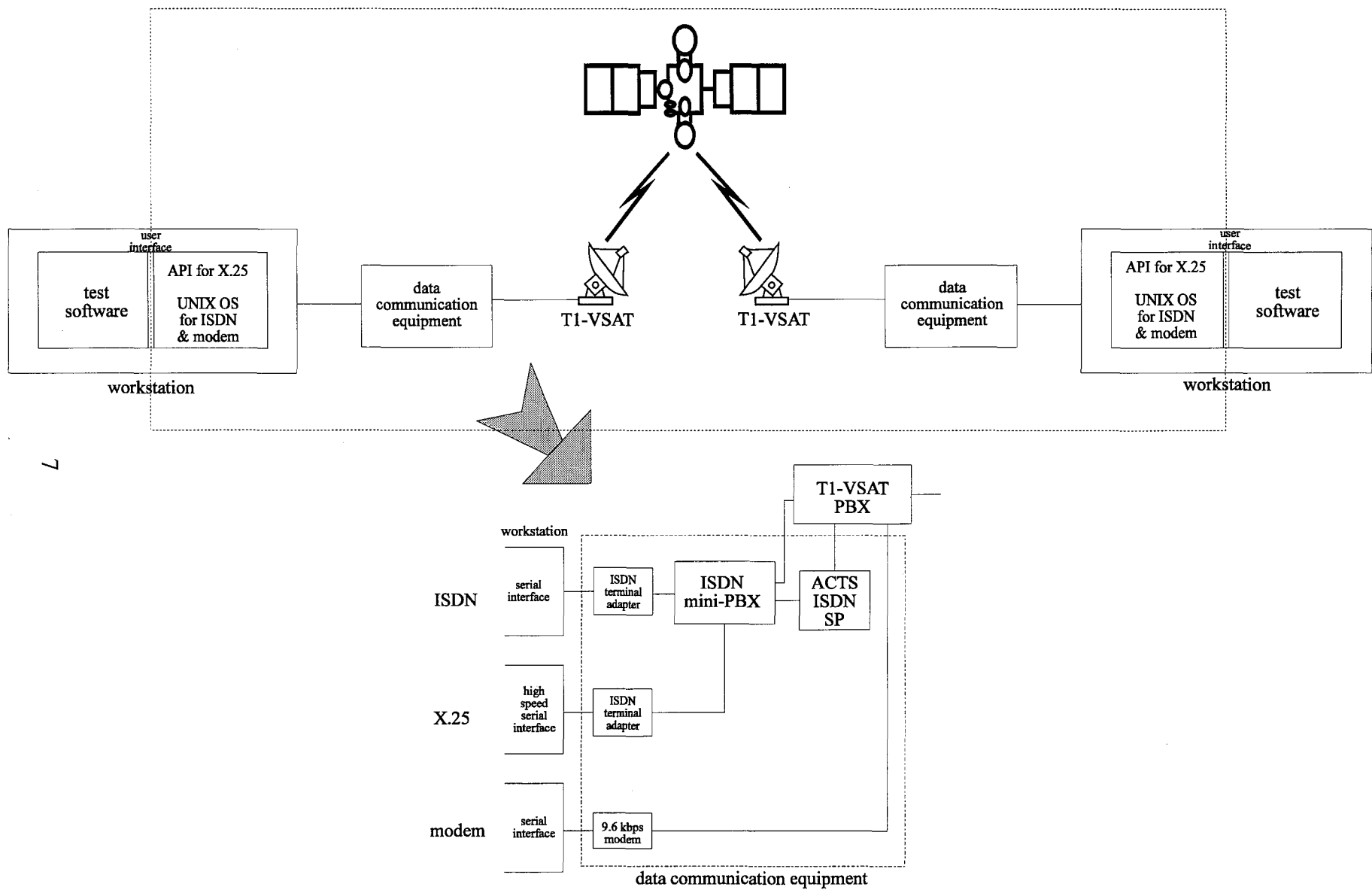


Figure 3. Contents of black box between predefined users.

(i.e., no satellite is used). By subtracting the back-to-back results from the results using ACTS, the effective user interface can be shifted from the test software/stream head/operating system to the ISDN mini-PBX/Earth Station (ES) interface for the ISDN and X.25 tests or to the T1-VSAT's private branch exchange (PBX) for the modem tests.

The test software implements the three generic data communication session functions defined in ANS X3.102: Access, User Information Transfer, and Disengagement. One workstation places a call to a second, remote workstation over the data communication system and establishes a connection in the Access phase. In the User Information Transfer (UIT) phase, a user file consisting of pseudorandom data is transferred from one workstation to the other. At the conclusion of the file transfer, one workstation requests disengagement. The two workstations disengage and return to an idle state, thus finishing the Disengagement phase and ending the data communication session.

The data recorded during the data communication session (the extracted data) is reduced off-line. The extracted data consists of state codes, which define the party responsible for generating a given reference event, and times of occurrence. The off-line data reduction and analysis are performed by consolidating the data files of the remote workstations onto one system and running a script which implements the reduction/analysis phase of ANS X3.141. The data reduction/analysis phase results in estimates of the ANS X3.102 performance parameters shown in Table 1.<sup>5</sup> The parameters are estimated at a 95% confidence level.

As implemented in the ITS version of the ANS X3.141 test software, analysis of the three data communication functions is split into two testing periods. The Access and Disengagement functions are analyzed during one testing period and the UIT function is analyzed in a separate testing period. For the Access/Disengagement tests, one block of data is transferred for each Access/Disengagement trial. For the UIT tests, a number of blocks are transferred one after another (i.e., without a delay between the blocks) in a single Access/Disengagement attempt. The number of blocks transferred is the number of UIT trials for the test.

The number of necessary trials are determined by the precision required. Due to the number of parameters to be estimated, a single parameter was selected for each of the Access/Disengagement tests and the UIT tests to be measured with the specified confidence level and precision. For the Access/Disengagement and UIT tests, the parameters chosen were the Access Time and the Bit Error

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<sup>5</sup> Bit and Block Misdelivery Probabilities are not measured with this software implementation of ANS X3.141.



Probability, respectively. The goal was to measure the Bit Error Probability with a relative precision of 50%. Additionally, the goal was to measure the Access Time with an absolute precision of 0.5 seconds for the modem service tests and 0.1 seconds for the remainder of the services. The modem service requires a different precision than other service tests because of testing time. The modem Access/Disengagement tests take approximately 10 times longer to run than the other service's tests. Therefore, to keep the testing time reasonable, the precision required was reduced.

The number of trials necessary to meet the given confidence level and precision were as follows:

modem tests:	Access/Disengagement tests: 20 trials
	UIT tests: 50 trials with 4000 bytes/block
X.25 service tests:	Access/Disengagement tests: 100 trials
	UIT tests: 50 trials with 4000 bytes/block
ISDN service tests <sup>6</sup> :	Access/Disengagement tests: 40 trials

Each test was repeated five times. Since the parameters' standard deviations were similar, the data from the multiple tests was pooled. Pooling the test data results in a larger sample which should provide more precise parameter estimates [8].

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<sup>6</sup> For the ISDN service tests, no UIT tests were run. The hardware used could not accommodate a full 64-kbps data rate. Section 2 describes how the User Information Bit Transfer Rate is calculated for the ISDN service from the X.25 service results.

## 2. TEST SET CHARACTERIZATION TESTS

To subtract out the contributions of the test set from the results of the ACTS characterization tests, X3.141 tests must be run over the test sets with the smallest possible intervening network. The "intervening network" consists of a single switch under laboratory conditions. Figure 4 shows the configuration for the ISDN case. The other cases have a similar configuration.

Test set characterization tests were performed for each of the following services:

- modem at 9.6 kbps over a plain analog telephone line (modem service)
- X.25 over a 64-kbps circuit-switched channel (X.25 via circuit service)
- ISDN over a 64-kbps circuit-switched channel (ISDN service)

The only service that was not tested in this configuration but was tested over the satellite system was the X.25 over a packet-switched channel (called X.25 via packet service). This is because, from the test set's point of view, there is only a circuit-switched channel for this case (i.e., in both cases there is a circuit-switched channel between the test set and the ISDN signal processor). For the X.25 via packet service, the packet-switched channel exists between the packet handler in the local ISDN Signal Processor (SP) attached to the local ES and the packet handler in the remote ISDN SP. This is discussed in more detail in Section 3.

The results of the test set characterization are shown in Table 2. Each test was run five times and the results from the five tests were analyzed together to obtain more accurate results. The results from the individual tests appear in Appendix A. Table 2a shows the results for the modem service, Table 2b shows the results for the X.25 via circuit service, and Table 2c shows the results for the ISDN service. Since the tests were run under laboratory conditions, with a single switch acting as

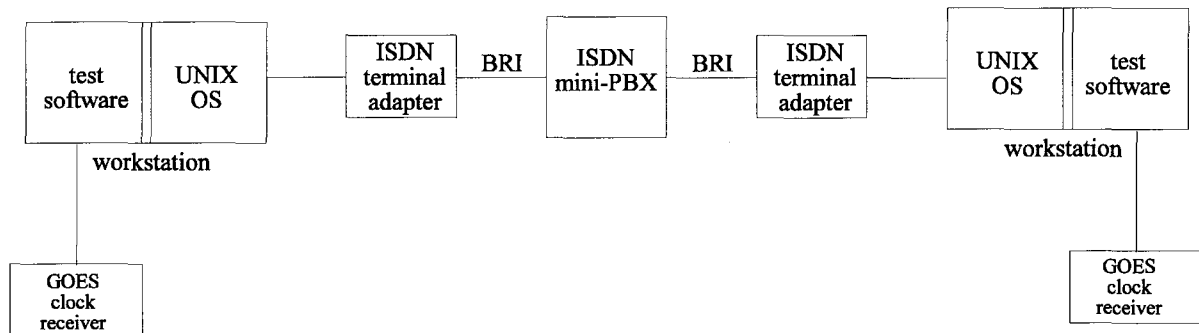


Figure 4. Test set characterization configuration for ISDN tests.

Table 2a. X3.102 Parameter Values for Modem Service at 9.6 kbps - Test Set Characterization

Parameter	Sample Mean	User Fraction	Precision	# Trials	# Correct Trials
Access Time	33.46 s	0.36 %	0.52 s	100	100
Source Disengagement Time	8.00 s	1.13 %	0.14 s	100	100
Destination Disengagement Time	2.16 s	3.40 %	0.001 s	100	100
Block Transfer Time	12.35 s	1.04 %	0.25 s	250	250
User Information Bit Transfer Rate	7676 bps	--	2.5 bps	5	N/A
User Fraction of Input/Output Time	1.07 %	--	0.078 %	5	N/A

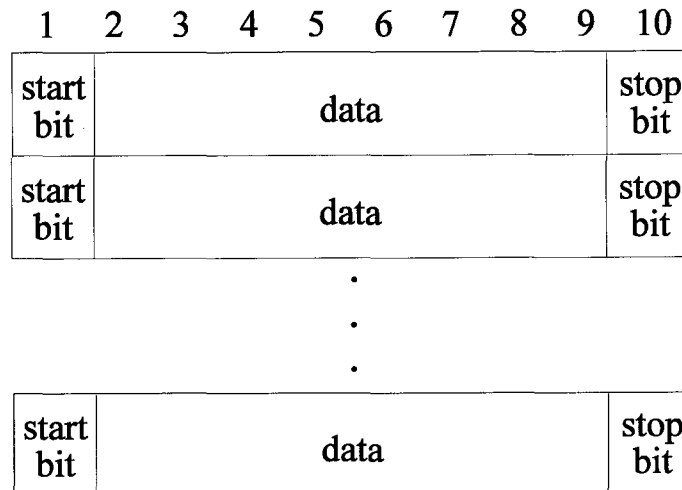
\* Precision is the absolute precision based on the 95% confidence level. The absolute precision is given by  $\frac{m_u - m_l}{2}$  where  $m_u$  and  $m_l$  are the upper and lower limits of the 95% confidence interval respectively.

the network, the channel was extremely clean and no Access/Disengagement or UIT failures occurred. Therefore, only the delay, rate, and ancillary parameters are shown in Table 2.

### Modem Service Results

As shown in Table 2a, the modem service resulted in a User Information Bit Transfer Rate of 7676 bps. The modem's timing is asynchronous; it requires one start bit and one stop bit for each eight user data bits, as shown in Figure 5. This is an overhead rate of 20%. Thus, in the ideal case, the use of start and stop bits would result in a throughput reduction of 1920 bps for a 9600-bps modem. This results in an ideal User Information Bit Transfer Rate of 7680 bps which was within 4 bps of the measured value. Due to the clear channel between the test sets, (i.e., the test sets have an essentially error free channel between them) no bit or block errors occurred.

The Access Time took approximately 33.5 seconds. This Access Time was approximately split into 10 seconds for the call to be dialed and connected, 13 seconds for the handshaking, 6 seconds to



$$\text{overhead} = \frac{\text{start bit} + \text{stop bit}}{\text{start bit} + \text{stop bit} + \text{data bits}} \times 100\% = 20\%$$

Figure 5. Frame structure and overhead for asynchronous communication.

receive the login prompt, and 4.5 seconds for the login/password/program initiation. Figure 6 shows the timeline graphically. For disengagement, the source initiates the procedure and takes 8.0 seconds. The 8.0 seconds is split approximately between a few seconds waiting for the destination to disconnect and 5 seconds to receive a "NO CONNECT" after exiting. The destination takes approximately 2.2 seconds to disengage.

### X.25 via Circuit Service Results

As shown in Table 2b, X.25 via circuit service resulted in a User Information Bit Transfer Rate of approximately 63 kbps. There are three OSI layers that contribute to the overhead that results in a User Information Bit Transfer Rate less than 64 kbps. The X.25 Packet Layer resides at layer 3, the LAP-B protocol resides at layer 2, and the Sunlink X.25 WAN connection resides at layer 1. The relationship between the three layers is shown in Figure 7.

- The Sunlink X.25 physical layer, layer 1, runs on top of a clear ISDN 64-kbps channel (i.e., no overhead is added). Therefore, there is no drop in data rate due to this layer.
- The layer 2 protocol, LAP-B, adds seven bytes of overhead to every information field. The information field size was 1028 bytes (the packet size of the X.25 Packet Layer). Therefore, the LAP-B frame size was 1035 bytes. The drop in data rate due to LAP-B is 0.676% or 433 bps.

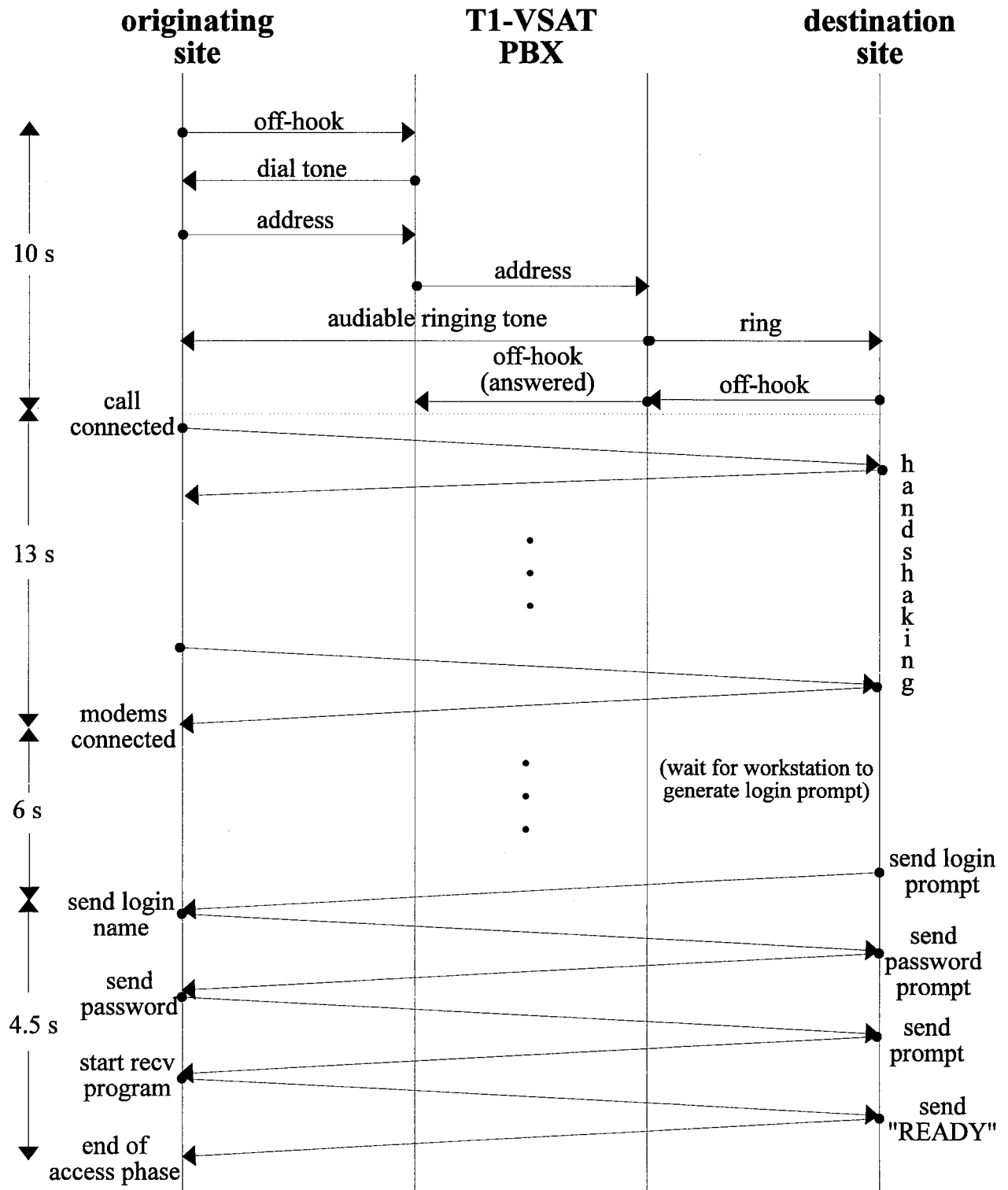


Figure 6. Detailed timing diagram for the modem's Access Time parameter.

Table 2b. X3.102 Parameter Values for X.25 via Circuit Service - Test Set Characterization

Parameter	Sample Mean	User Fraction	Precision	# Trials	# Correct Trials
Access Time	0.27 s	41.25 %	0.03 s	500	500
Source Disengagement Time	0.28 s	0.22 %	0.001 s	500	500
Destination Disengagement Time	0.31 s	28.91 %	0.001 s	500	500
Block Transfer Time	9.56 s	6.73 %	0.01 s	250	250
User Information Bit Transfer Rate	63040 bps	--	35 bps	5	N/A
User Fraction of Input/Output Time	6.74 %	--	0.09 %	5	N/A

- X.25 adds four overhead bytes to every user data field. The user data field size used was 1024 bytes. Therefore, the packet size was 1028 bytes. The resulting drop in data rate due to X.25 was 0.389% or 247 bps.

Adding all the overhead contributions results in a total data rate drop of 680 bps. Therefore, the theoretical User Information Bit Transfer Rate would be 63320 bps. The highest User Information Bit Transfer Rate throughput measured in the five tests was 63101 bps, which is close to the ideal value. The lowest rate measured in the five tests was 62964 bps. The UNIX operating system, which must also perform some housekeeping functions while running the tests, causes the variance in the User Information Bit Transfer rates. The issuing of these housekeeping functions during a test could conceivably reduce the rate by a few hundred bits per second.

The measured Access Time was 0.27 seconds with 41% of this time attributed to the user. Therefore, approximately 0.16 seconds of the Access Time was due solely to the system. The majority of this time was due to the issuance of system calls to make the X.25 connection. Similar Disengagement Times were also measured.

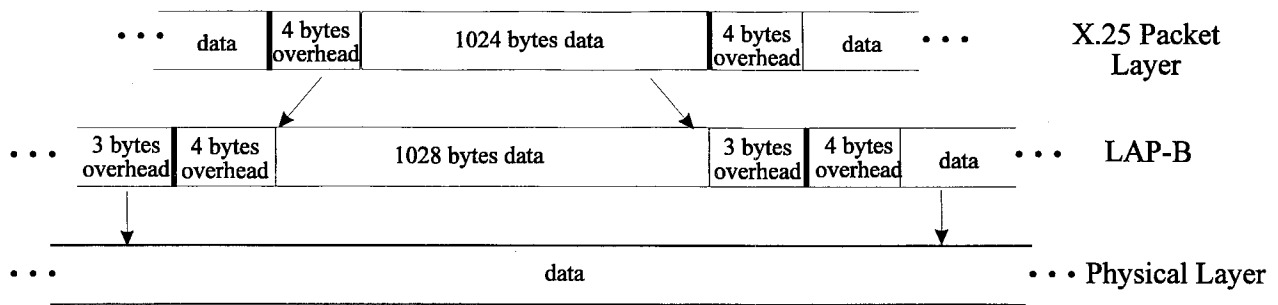


Figure 7. Frame composition for the X.25 over ISDN tests.

### ISDN Service Results

In the previous case, X.25 via circuit service, the channel is established prior to establishing the X.25 connections. Therefore, the Access Time is solely the time required to issue and respond to the X.25 CONNECT REQUEST message. For the ISDN service, the Access Time includes the time to setup the satellite channel. In addition, the ISDN service uses a serial port that needs a login process to connect to a remote machine. The workstations used in the test set delay the issuance of the login to prevent unauthorized access (this is part of the operating system and cannot be changed). The login prompt is delayed approximately 6 seconds. The time for the call to be completed (i.e., for the workstations to be connected) took approximately 2 seconds and the login/password/program initiation took approximately 6-7 seconds. All these times together resulted in a measured Access Time of 15.1 seconds (as shown in Table 2c). The disengagement times measured were each approximately a couple of seconds.

Due to the hardware used, there was no way to run the ISDN UIT tests at a full 64 kbps. This is due to the lack of 64-kbps serial ports that can be written to directly. It was determined that the data rate obtained on a straight ISDN channel could be calculated from the X.25 results since

- (1) the X.25 tests were run on clean channels (i.e., no errors and thus no retransmissions for the X.25 via circuit service), and
- (2) the only difference between the straight ISDN and the X.25 piggybacked on top of the ISDN service is that X.25 adds some overhead packets.

As calculated previously, the X.25 Packet Layer and LAP-B added 680 bps of overhead. Therefore, the estimated User Information Bit Transfer Rate for an ISDN service was approximately 63.7 kbps.

Table 2c. X3.102 Parameter Values for ISDN Service - Test Set Characterization

Parameter	Sample Mean	User Fraction	Precision	# Trials	# Correct Trials
Access Time	15.12 s	0.71%	0.03 s	200	200
Source Disengagement Time	2.68 s	3.42%	0.02 s	200	200
Destination Disengagement Time	1.52 s	4.90%	0.003 s	200	200
Estimated User Information Bit Transfer Rate *	63720 bps	--	--	--	--

\* User Information Bit Transfer Rate determined from results of the X.25 via circuit service tests. Subtracted overhead due to X.25 and LAP-B.



### 3. PRELIMINARY CHARACTERIZATION TESTS

The ACTS characterization tests were split into two testing periods. The first testing period, the Preliminary Experiment Period (PEP), determines an estimate of the performance parameters. The parameter values must be estimated prior to the second testing period, the Full Experiment Period (FEP), in order to set the thresholds for poor or nondelivered service. The thresholds are defined proportional to a "specified value" of a performance parameter. For example, access denial occurs when the duration of an individual access attempt exceeds three times the specified value of the parameter Access Time. The specified value of the Access Time, used in the FEP, equals the sample mean of the Access Time measured in the PEP.

The tests run in the PEP are similar to the tests run in the FEP with the exception that the preliminary experiment is done for nonstressed link conditions and in a loop-back configuration. The nonstressed conditions include clear weather and low traffic. Therefore, referring to the Access Time example again, in times of extreme stress (heavy rain and/or heavy traffic), the system may take an unacceptable amount of time to form a communication session between two points. This trial results in an access denial outcome.

The preliminary characterization tests were run in May, July, October, and November of 1994. The energy per bit per spectral noise density (Eb/No) of the ES and the bit error rate (BER) on other channels than the one under test were measured to obtain a good understanding of how the link was operating at the time of the tests.

#### 3.1 Tests Performed

Four types of services were tested. The first was an ISDN connection over a circuit-switched channel (ISDN service). The configuration of the equipment is shown in Figure 3. The data communication equipment for the ISDN tests is shown at the bottom of the figure. This test began with setting up the ISDN call and ended at the conclusion of the ISDN call.

The second service tested was X.25 over a packet-switched channel (X.25 via packet service). The packet-switched channel is between the ISDN SP on the local and remote ends as shown in Figure 8.<sup>7</sup>

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<sup>7</sup> The data is sent from the originating Earth Station (ES) to the NASA Ground Station's (NGS) packet router. The packet router puts the data on one outgoing broadcast channel to all the X.25-ready ESs. Each X.25-ready ES determines if any of the data is addressed to itself. Therefore, the X.25 packet network uses a double hop to get data from one ES to another ES.

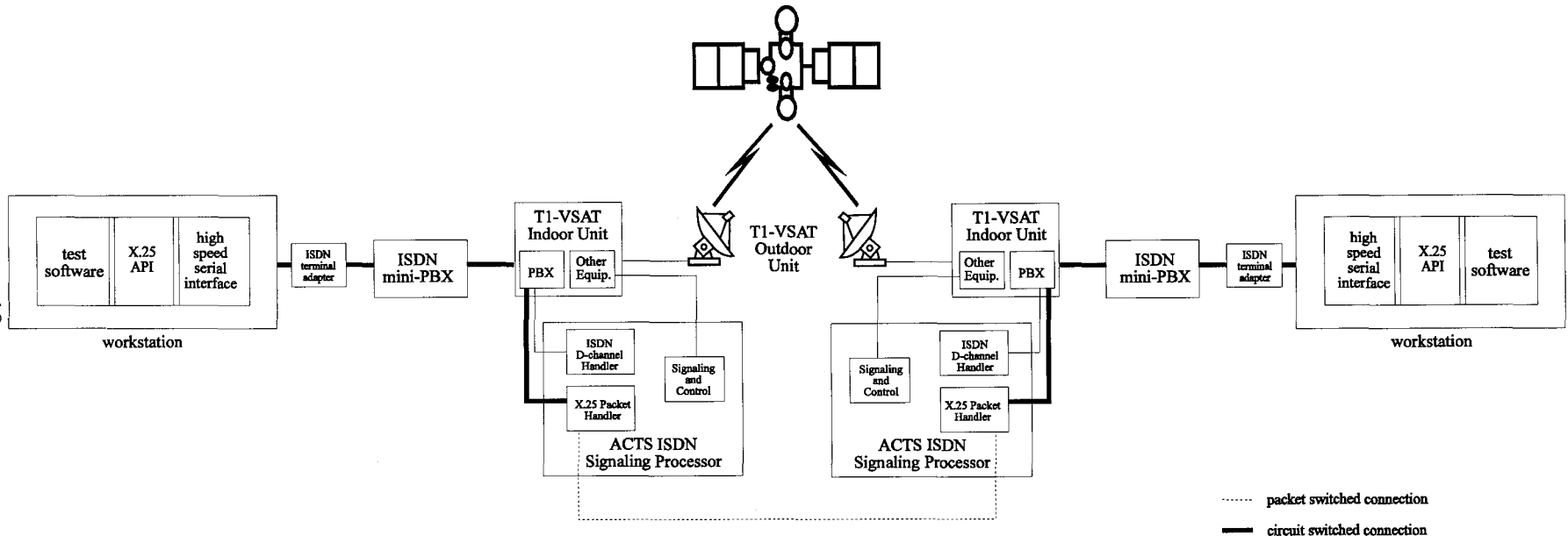


Figure 8. X.25 packet-switched channel over ACTS.

Between the workstation and the ISDN SP, the channel is circuit switched. In addition, due to the design of the ISDN SP, the X.25 is required to piggyback on top of the ISDN. Therefore, as seen in Figure 8, the workstation outputs the X.25 formatted data into an ISDN terminal adapter (TA). The data is then routed through an ISDN mini-PBX to the ES/ISDN SP.

To implement an efficient X.25 packet network, the SP immediately acknowledges the packets. In the case of an errored packet, only the errored packet is retransmitted by the packet handler in the ISDN SP (i.e., selective repeat automatic repeat request (ARQ)). Due to this design of immediate acknowledgment and retransmission only of errored packets, the window and packet sizes used for this service are small. The X.25 via packet service used a window size of 2 and a packet size of 128 bytes.

The way this test was originally conceived, the physical X.25 connection would be setup and torn down for each Access/Disengagement test. However, the packet router was designed so that when the "last" X.25 call is closed, the whole X.25 channel is closed. This includes an ISDN call that is made to the local ISDN SP. Attempting to open the X.25 channel again results in failure. The only way to form another X.25 connection is to restart the X.25 packet handler and packet router (which means powering down the ES to restart the local ISDN SP and having the NASA Ground Station (NGS) restart the packet router). Therefore, in order to run the test as intended by forming and ending several connections in a row, the experiment was changed so that the logical connection, rather than the physical connection, is setup and torn down. So, to prepare for an X.25 packet-switched test, an ISDN call is made to the local SP and then a packet call is made between the local and remote ISDN SPs. This call remains active during all the X.25 packet-switched tests.

Once these preparatory calls have been made, the data extraction software places an X.25 call from the packet handler of the local SP through the packet router at the NGS to the packet handler of the remote unit's SP. For this service, the Access Time is the time required to establish the X.25 connection through the NGS's packet router.

The third service tested was X.25 over a circuit-switched channel (X.25 via circuit service). Figure 9 shows the configuration of this test. The configuration is identical to the X.25 via packet service except the ISDN call is made between the local terminal adapter and the remote terminal adapter instead of between the local terminal adapter and the local ISDN SP. In addition, the window and packet sizes for the X.25 via circuit service were different from those for the X.25 via packet service. The packet size was 1024 bytes and the window size was 127.

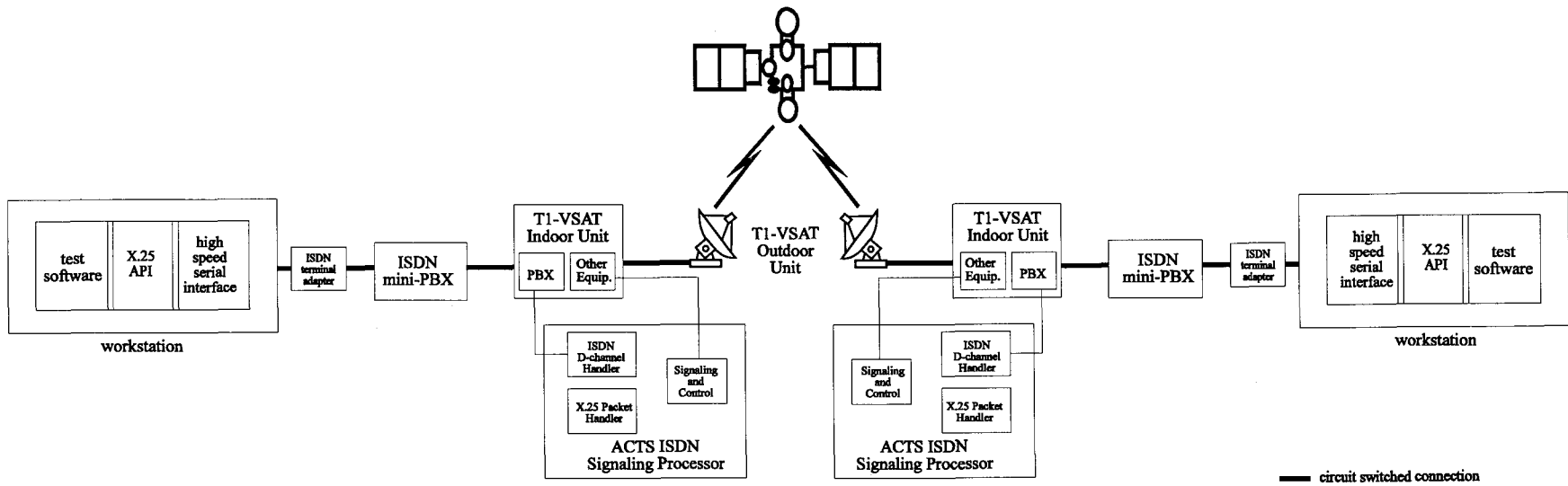


Figure 9. Equipment configuration for the X.25 via circuit service over ACTS.

Prior to the start of the test, an ISDN channel was established between the local and remote SPs. Then the test was started with X.25 "CONNECT REQUEST." Since the satellite circuit was already established in this case, the Access Time consisted solely of the amount of time to make the X.25 connection over the already existing satellite circuit. This connection does not take any additional satellite resources, so the set up time was basically the satellite transmission delay to and from the remote location (or about 0.5 seconds). The main interest in this test was to see the effects of the channel's BER on the UIT data rate. Since X.25 retransmits errored packets and since the X.25 portion of the ISDN SP that immediately acknowledges the packets and only retransmits errored packets was not used, all the data in the channel after an errored packet is received must be retransmitted. This may severely impact the user-perceived data rate. This will show up in the full characterization test when the system is operated in "degraded" situations (e.g., rain).

The fourth service tested was a modem call over a circuit-switched channel (modem service). The modem was operated at 9.6 kbps. This test does not fully stress the satellite's 64-kbps channels as does the X.25 service tests. However, it does provide some valuable information since this type of configuration may be used. The test equipment configuration is shown in Figure 3 with the data communication equipment shown at the bottom of the figure. For this test, the modem's error correction was disabled in order to determine the channel's characteristics (rather than the error correction protocol performance of a given modem).

### **3.2 Test Results**

Table 3 shows the results of the PEP. The tests were run in a loopback mode, from the ITS ES to ACTS and back to the ITS ES. Due to the clear weather conditions, no Access/Disengagement or UIT errors were observed. Therefore, the failure probability parameters are not presented in Table 3.

Each test was run five times and the results of the five tests were analyzed together to obtain a more representative result. The results from the individual tests can be seen in Appendix B.

#### **Modem Service Results**

Table 3a shows the results from the modem service test over ACTS. The Access Time increased 16.6 seconds over the test set characterization Access Time. This amount was expected since the observed time to establish a voice call, using ACTS, is approximately 14 seconds. It also approximately takes an additional 2.5 seconds for the login process' prompts and responses to go

Table 3a. X3.102 Parameter Values for Modem Service over ACTS

Parameter	Sample Mean	User Fraction	Precision	# Trials	# Correct Trials
Access Time	50.04 s	0.24 %	0.16 s	100	100
Source Disengagement Time	6.59 s	1.37 %	0.27 s	100	100
Destination Disengagement Time	2.44 s	3.00 %	0.001 s	100	100
Block Transfer Time	12.54 s	0.94 %	0.25 s	250	250
User Information Bit Transfer Rate	7677 bps	--	0.5 bps	5	N/A
User Fraction of Input/Output Time	0.98 %	--	0.02 %	5	N/A

over the satellite. Since the modem line is connected to the same type of card used for a voice call (line circuit card in the T1-VSAT's PBX), a similar amount of time for call setup (i.e., 14 seconds) was expected for the modem service test.

Surprisingly, the Source Disengagement Time decreased by 1.4 seconds from the test set characterization Source Disengagement Time. The reason for the decrease is not known. The Destination Disengagement Time increased by 0.28 seconds over the test set characterization value; this is due to the one-way satellite delay from the destination test set to the originating test set (about an eighth of a second delay from destination test set to satellite + an additional eighth of a second delay from the satellite to the originating test set).

The Block Transfer Time increased by 0.19 seconds when going over ACTS. The User Information Bit Transfer Rate was essentially the same as for the test set characterization. As before, the start and stop overhead bits caused the reduction in bit rate from the modem data rate of 9.6 kbps.

Table 3b. X3.102 Parameter Values for X.25 via Circuit Service over ACTS

Parameter	Sample Mean	User Fraction	Precision	# Trials	# Correct Trials
Access Time	0.85 s	47.19%	0.02 s	500	500
Source Disengagement Time	0.86 s	3.67%	0.002 s	500	500
Destination Disengagement Time	1.18 s	80.03%	0.002 s	500	500
Block Transfer Time	9.67 s	7.31%	0.05 s	250	250
User Information Bit Transfer Rate	63020 bps	--	110 bps	5	N/A
User Fraction of Input/Output Time	6.83%	--	0.14%	5	N/A

### X.25 via Circuit Service Results

Table 3b shows the results of the PEP for the X.25 via circuit service tests. The Access Time increased by 0.58 seconds over the test set characterization value. For this service, data is sent immediately after the X.25 connection is made (i.e., there is no login session). Since the start of data transfer signals the end of the Access function, Access requires two hops to the satellite and back, as shown in Figure 10.<sup>8</sup> Therefore, the theoretical Access Time increase would be approximately a half of a second (an eighth of a second from the originating user to the satellite + an eighth of a second from the satellite to the destination + a quarter of a second back to the originating user). The observed increase in Access Time is close to the expected increase.

The Source Disengagement Time also increased by 0.58 seconds. The reason for the increase is the same as for the increase in the Access Time. The Destination Disengagement Time increased by

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<sup>8</sup> Figure 10 also illustrates that the ISDN channel is already established prior to the X.25 connection. This was described previously in Section 3.1.

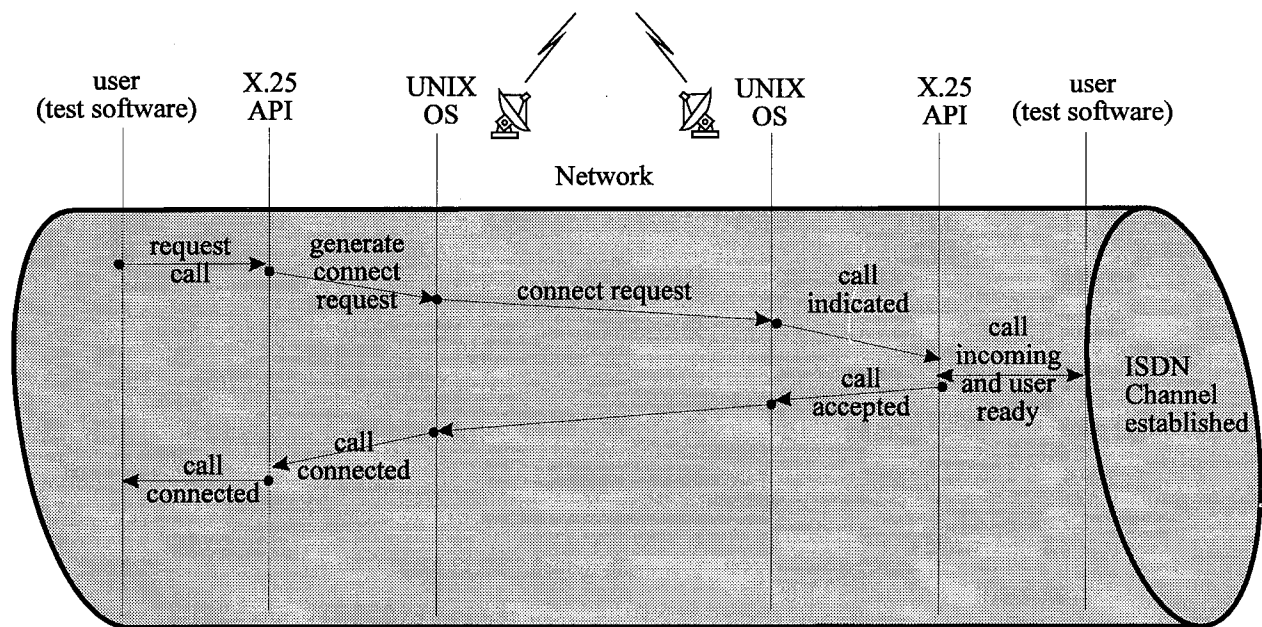


Figure 10. Timeline for X.25 over a circuit-switched channel

0.87 seconds over the test set characterization value. In addition, the User Fraction (UF) of Destination Disengagement Time increased by more than 50 percentage points compared to the test set characterization value. The reason for such a substantial increase is unknown. However, it is interesting to note that the system portion of the Destination Disengagement Time stayed approximately the same for the test set characterization and the PEP (0.22 seconds and 0.24 seconds, respectively). It would seem that the system portion should have increased by approximately a quarter of a second like for the modem service.

The User Information Bit Transfer Rate stayed approximately the same as the Rate for the test set characterization (within the precision value). This was expected since the packet and window sizes were large enough so that the channel was always full of data (i.e., the test set systems did not have to wait for an acknowledgement). In addition, the Block Transfer Time increased by 0.11 seconds over the test set characterization value. Some increase was expected since Block Transfer Time is defined as the average value of the elapsed time between the start of block transfer (on the originating end) and the end of block transfer (on the receiving end) and it takes a finite amount of time for the data to be sent to and from the satellite. However, an increase of approximately a quarter of a second was expected.



## X.25 via Packet Service Results

Table 3c shows the PEP results for the X.25 via packet service tests. Since the connection between the workstation and the ISDN SP is a circuit-switched channel, the results obtained in this PEP test were compared to the X.25 via circuit service test set characterization results. The Access Time increased by 1.2 seconds, the Source Disengagement Time increased by 1.4 seconds and the Destination Disengagement Time increased by 2.0 seconds. These increases are the amount of time it takes to set up or tear down the satellite X.25 packet-switched call through the packet router at the NGS.

The User Information Bit Transfer Rate fell to 10.4 kbps. This performance reduction is due to a hardware limitation in the ISDN SP. Contributing factors include the processing power and buffer size in the ISDN SP and the latency in the NGS packet router.<sup>9</sup> However, it is anticipated that the performance will improve when the tests are run between two separate locations (i.e., two different SPs handle the call versus only one SP handling the call). The performance is expected to increase because in the loopback case (where only one SP is used), both packet ports in the ISDN SP are used and the "data between the two [ISDN] SP cards are routed through the MAC [Macintosh computer] host CPU."<sup>9</sup> The limitation is on the outside vendor plugin card which cannot become a bus master. For more information on the design and operation of the ISDN SP see [9].

## ISDN Service Results

Table 3d shows the results of the PEP for the ISDN service. For this service, the Access Time increased 8.4 seconds. Approximately 2.5 seconds of this increase was due to the transmission time of a login session over the satellite. The remaining increase was due to the ISDN call setup time. The Source Disengagement Time increased by 1.3 seconds and the Destination Disengagement Time increased by 0.29 seconds. The reason the Source Disengagement Time increased by 1.3 seconds is not known. The Destination Disengagement Time increase is approximately the one-way transmission from the originating site to the receiving site, via the satellite.

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<sup>9</sup> E-mail communication, Moorthy Hariharan, COMSAT Laboratories, November 1994.

Table 3c. X3.102 Parameter Values for X.25 via Packet Service over ACTS

Parameter	Sample Mean	User Fraction	Precision	# Trials	# Correct Trials
Access Time	1.47 s	47.25%	0.03 s	500	500
Source Disengagement Time	1.72 s	1.97%	0.03 s	500	500
Destination Disengagement Time	2.34 s	79.29%	0.04 s	500	500
Block Transfer Time	12.03 s	1.45%	0.005 s	250	250
User Information Bit Transfer Rate	10390 bps	--	0 bps	5	N/A
User Fraction of Input/Output Time	1.11%	--	0.008%	5	N/A

Table 3d. X3.102 Parameter Values for ISDN Service over ACTS

Parameter	Sample Mean	User Fraction	Precision	# trials	# correct trials
Access Time	23.48 sec	0.46%	0.10 sec	200	200
Source Disengagement Time	3.95 sec	0.32%	0.08 sec	200	200
Destination Disengagement Time	1.81 sec	4.11%	0.003 sec	200	200
Estimated User Information Bit Transfer Rate *	63700 bps	--	--	--	--

\* User Information Bit Transfer Rate determined from results of the X.25 via circuit service tests. Subtracted overhead due to X.25 and LAP-B.

### 3.3 Specified Values Used in the FEP

The parameter values presented in Table 3 are used to define the specified values for use in the FEP tests. The specified values used are equal to the measured mean parameter values and are used to determine the failure thresholds.

According to the ANS X3.102 standard, an access timeout occurs whenever the duration of an individual access attempt exceeds three times the specified value of the Access Time. Similar definitions, where the timeout threshold is three times the specified value, are used to define Block Transfer, Source Disengagement, and Destination Disengagement timeouts.

A set of thresholds determines the value of the Transfer Denial Probability. The Transfer Denial Probability depends on the measured values of the Bit Error Probability, Bit Loss Probability, Extra Bit Probability and User Information Bit Transfer Rate. The standard defines the threshold for each bit transfer failure probability as the square root of the specified value; the threshold for the User Information Bit Transfer Rate is defined as one-third of the specified value. A Transfer denial outcome is said to have been observed if the performance of a transfer availability trial is worse than the threshold for any of the four parameters and the degradation is attributed to system nonperformance. The ANS X3.102 standard [6] describes how to determine if the user or the system should be attributed with nonperformance.

The data reduction software looks for the specified values in the files *spi.acd*, for the Access/Disengagement tests and *spi.xfr*, for the User Information Transfer tests. Table 4 shows the content of each line in *spi.acd* and Table 5 shows the equivalent information in *spi.xfr*. The first line contains the words SPECIFICATIONS INPUT. The second line contains an identifier that specifies the type of test the *spi* file is used to evaluate. This identifier can be blank or contain any set of words. The identifier is not used by the program. It is for the benefit of the user. The third line contains an assessment option code. The first number is for Access, the second number is for User Information Transfer, and the third number is for Disengagement. The option code is 1 if the option is to be evaluated and 0 if the option is not to be evaluated. Since the measurement software expects the Access and Disengagement parameters to be evaluated in one run and the User Information Transfer parameters to be evaluated in a separate run, the codes used should be

1 0 1

for Access/Disengagement tests and

for User Information Transfer tests. The remaining lines are explained sufficiently in the tables.

Figures 11 through 14 show the *spi* files used in the FEP tests; they contain the specified performance parameter values. The User Information Transfer tests require specified performance parameter values for the failure probability parameters. However, as stated earlier, no bit errors occurred in the PEP. Therefore, the Bit Error Probability was specified at the designed performance level of the T1-VSAT (i.e.,  $BER \leq 10^{-6}$ ) and the Bit Loss and Extra Bit Probabilities were specified to be two orders of magnitudes better than the Bit Error Probability. The remaining specified values came from the measured mean parameter values.

Table 4. File Description for *spi.acd* for Access/Disengagement Tests

Line #	Character Field	Contents
1	1 - 32	SPECIFICATIONS INPUT
2	1 - 64	Test Type Identifier
3	1 - 4 5 - 8 9 - 12	Access Assessment Option: 1 User Information Transfer Assessment Option: 0 Disengagement Assessment Option: 1
4	1 - 16 17 - 32	Access Time User Fraction of Access Time
5	1 - 16 17 - 32 33 - 48 49 - 64	Source Disengagement Time User Fraction of Source Disengagement Time Destination Disengagement Time User Fraction of Destination Disengagement Time

Table 5. File Description for *spi.xfr* for User Information Transfer Tests

Line #	Character Field	Contents
1	1 - 32	SPECIFICATIONS INPUT
2	1 - 64	Test Type Identifier
3	1 - 4 5 - 8 9 - 12	Access Assessment Option: 0 User Information Transfer Assessment Option: 1 Disengagement Assessment Option: 0
4	1 - 16 17 - 32 33 - 48 49 - 64	Block Transfer Time User Fraction of Block Transfer Time User Information Bit Transfer Rate User Fraction of Input/Output Time
5	1 - 16 17 - 32 33 - 48 49 - 64	Bit Error Probability for Transfer Sample Bit Loss Probability for Transfer Sample Extra Bit Probability for Transfer Sample Min. # of Bit Transfer Attempts for Transfer Sample
6	1 - 8 9 - 16 17 - 24 25 - 32	User Information Window Size (bits) Maximum Bit Shift in Bit Error Identification Algorithm (bits) Maximum Shift in Undelivered Bit Identification Algorithm (bits) Maximum Shift in Extra Bit Identification Algorithm (bits)

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SPECIFICATIONS INPUT

ACTS modem tests

1 0 1

50.04E+00 0.01E+00  
6.59E+00 0.05E+00 2.44E+00 0.05E+00

SPECIFICATIONS INPUT

ACTS modem tests

0 1 0

12.54E+00 0.03E+00 7.677E+03 0.03E+00  
1.0E-06 1.0E-08 1.0E-08 320000.  
16 64000. 96000. 96000.

---

Figure 11. *spi.acd* and *spi.xfr*, respectively for FEP modem service tests.

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SPECIFICATIONS INPUT

ACTS X.25 CKT tests

1 0 1

0.85E+00 0.50E+00  
0.86E+00 0.05E+00 1.18E+00 0.80E+00

SPECIFICATIONS INPUT

ACTS X.25 CKT tests

0 1 0

9.67E+00 0.08E+00 63.020E+03 0.07E+00  
1.0E-06 1.0E-08 1.0E-08 320000.  
16 64000. 96000. 96000.

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Figure 12. *spi.acd* and *spi.xfr*, respectively for FEP X.25 via circuit service tests.

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SPECIFICATIONS INPUT

ACTS X.25 PKT tests

1 0 1

1.47E+00 0.50E+00

1.72E+00 0.05E+00 2.34E+00 0.80E+00

SPECIFICATIONS INPUT

ACTS X.25 PKT tests

0 1 0

12.03E+00 0.05E+00 10.390E+03 0.05E+00

1.0E-06 1.0E-08 1.0E-08 320000.

16 64000. 96000. 96000.

---

Figure 13. *spi.acd* and *spi.xfr*, respectively for FEP X.25 via packet service tests.

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SPECIFICATIONS INPUT

ACTS ISDN tests

1 0 1

23.48E+00 0.01E+00

3.95E+00 0.01E+00 1.81E+00 0.05E+00

---

Figure 14. *spi.acd* for FEP ISDN service tests.

## 4. FULL CHARACTERIZATION TESTS

The FEP tests were performed from the ITS site in Boulder, CO to the NASA Lewis Research Center in Cleveland, OH over a two-month period from late December to late February, 1995. The results were analyzed using the evaluation thresholds determined by the PEP tests.

Originally, the FEP tests were to be conducted over a six-month period, split between two different destination locations. However, because the mean PEP and FEP parameter estimates were so similar, they were considered to come from the same population, and thus the FEP tests were cut short.

### 4.1 FEP Results

Tables 6a through 9a show the results of the FEP. The tests were run under the prevailing weather and traffic conditions. For all of the FEP tests, the ITS ES's  $E_b/N_0$  varied by only 3.0 dB. This value is within the ES design specification and therefore did not result in the generation of bit errors. For the NASA ES, the  $E_b/N_0$  varied by 6.4 dB over all the tests. However, two different antenna sizes were used on the NASA ES – a 2.4-m antenna for a majority of the tests and a 1.2-m antenna for the remaining tests. When the signal level was evaluated with respect to the antenna size, the  $E_b/N_0$  varied by only 4.1 dB when the 2.4-m antenna was used and by only 1.5 dB when the 1.2-m antenna was used. The 4.1-dB signal level variation is not within the design specification of 3.0 dB (without invoking the Forward Error Correction); however, due to the use of the 2.4-m antenna, no bit errors were generated. Therefore, even though the tests were not solely run under clear weather conditions, the ES performance did not change substantially for any of the tests. There were no Access/Disengagement errors during the FEP and only one UIT error occurred (for the modem service tests).

Each test was run a number of times and the results from the tests were analyzed together to obtain a more representative result. The results from the individual tests are included in Appendix C.



Table 6a. X3.102 Parameter Values for Modem Service - FEP Results

Parameter	Sample Mean	User Fraction	Precision	# Trials	# Correct Trials
Access Time	50.25	0.26 %	0.17 s	80	80
Source Disengagement Time	6.54 s	1.39 %	0.36 s	80	80
Destination Disengagement Time	2.46 s	3.00 %	0.004 s	80	80
Block Transfer Time	12.63 s	1.02 %	0.26 s	250	249
User Information Bit Transfer Rate	7678 bps	--	2 bps	5	N/A
User Fraction of Input/Output Time	1.07 %	--	0.06 %	5	N/A

Modem Service Results

Table 6a shows the time and rate parameter estimates for the modem service tests. Comparing this table to Table 3a shows a striking similarity in the estimates of the performance parameters. To prove the similarity of the estimated parameters, the data was analyzed to determine if the FEP and the PEP data could be pooled. The results of the pooling are shown in Table 6b, as are the rest of the performance parameter estimates.

Table 6b specifies different levels of pooling – pooling all of the trial estimates (trials), pooling the test means (tests), and pooling the level means (levels).<sup>10</sup> The first type of pooling examines the null hypothesis that all test means are equal. The parameter test mean for test number  $j$ ,  $a_j$ , is calculated by

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<sup>10</sup> Tests are made up of a number of trials. For example, for the Access/Disengagement modem tests, each test was made up of 20 trials.

Table 6b. Summary of Performance Parameter Estimates for Modem Service

Performance Parameters	95% Lower Limit	Sample Mean	95% Upper Limit	Pooling* Ability	Number of Tests	Total Number of Trials
Access Time (s)	50.02	50.14	50.25	trial	9	180
User Fraction of Access Time (%)	0.22	0.25	0.28	trial	9	180
Incorrect Access Probability	0	0	$7.5 \times 10^{-2**}$	trial	9	180
Access Denial Probability	0	0	$7.5 \times 10^{-2**}$	trial	9	180
Access Outage Probability	0	0	$7.5 \times 10^{-2**}$	trial	9	180
Block Transfer Time (s)	12.53	12.59	12.64	trial	10	499
User Fraction of Block Transfer Time	0.94	0.98	1.02	trial	10	499
User Fraction of Input/Output Time	0.98	1.03	1.07	test	10	10
User Information Bit Transfer Rate (bps)	7677	7678	7679	test	10	10
Bit Error Probability	0	0	$8.9 \times 10^{-7**}$	trial	10	15999992
Bit Loss Probability	$2.4 \times 10^{-8}$	$5.0 \times 10^{-7}$	$3.8 \times 10^{-6}$	trial	10	16000000
Extra Bit Probability	0	0	$8.9 \times 10^{-7**}$	trial	10	15999992
Block Error Probability	0	$2.0 \times 10^{-3}$	$3.4 \times 10^{-2}$	trial	10	500
Block Loss Probability	0	0	$2.9 \times 10^{-2**}$	trial	10	500
Extra Block Probability	0	0	$2.9 \times 10^{-2**}$	trial	10	500
Transfer Denial Probability	0	0	$5.2 \times 10^{-2**}$	trial	10	265
Source Disengagement Time (s)	6.41	6.57	6.73	test	9	180
User Fraction of Source Disengagement Time (%)	1.35	1.38	1.41	test	9	180
Source Disengagement Denial Probability	0	0	$7.5 \times 10^{-2**}$	trial	9	180
Destination Disengagement Time	2.44	2.45	2.46	level	9	180
User Fraction of Destination Disengagement Time	2.98	3.00	3.02	level	9	180
Destination Disengagement Denial Probability	0	0	$7.5 \times 10^{-2**}$	trial	9	180

\* Pooled by destination city.

\*\* Assumed that the conditional probability (an error occurred given that an error just occurred) is 0.8.

$$a_j = \frac{1}{N} \sum_{i=1}^N a_i$$

where  $a_i$  is the estimated parameter value for trial number  $i$  and the number of trials per test is  $N$ . If the hypothesis is accepted, the trials from all the tests are considered to come from the same population and the results can be pooled. The second type of pooling examines the hypothesis that the all level means of a variable condition (in this case the destination city) are equal. The level mean,  $a_L$ , is calculated by

$$a_L = \frac{1}{M} \sum_{j=1}^M a_j$$

where  $M$  is the number of tests with a given level value. If the hypothesis is accepted, means from all tests are considered to come from the same population and can be pooled. If neither hypothesis can be accepted, there is a significant difference among the parameter estimates obtained from the different destination locations. The means of each level of the selected variable condition (destination location in this case) are pooled. This pooling provides the least precision of the three.

For the modem tests, all the parameters can be considered to come from the same population with the exception of the Destination Disengagement (and user fraction) Time. The mean Destination Disengagement Time for the two set of tests were only 0.002 seconds apart. They are not considered to come from the same population however, due to the very small precision window obtained for the tests (0.001 s for the PEP and 0.004 s for the FEP). However, due to the small numerical difference between the parameter estimates, it was determined that additional testing would not provide any more information.

In one of the last modem tests performed, 8 consecutive bits were lost (test number 5711). This was the only time the received data differed from the transmitted data.

Table 7a. X3.102 Parameter Values for X.25 via Circuit Service - FEP Results

Parameter	Sample Mean	User Fraction	Precision	# Trials	# Correct Trials
Access Time	0.85	47.38 %	0.02 s	600	600
Source Disengagement Time	0.86 s	3.60 %	0.003 s	600	600
Destination Disengagement Time	1.18 s	80.17 %	0.005 s	600	600
Block Transfer Time	9.66 s	7.26 %	0.02 s	400	400
User Information Bit Transfer Rate	62980 bps	--	60 bps	8	N/A
User Fraction of Input/Output Time	6.79 %	--	0.06 %	8	N/A

X.25 via Circuit Service Results

Table 7a shows the time and rate parameter estimates for the X.25 via circuit service tests. Comparing this table to Table 3b shows the performance parameter estimates varied little from the PEP values. To prove the similarity of the estimated parameters, the data was analyzed to determine if the FEP and the PEP data could be pooled. The results of the pooling are shown in Table 7b, as are the rest of the performance parameter estimates.

All the parameters can be considered to come from the same population with the exception of the Source Disengagement (and user fraction) Time. The mean Source Disengagement Time for the two set of tests is only 0.006 seconds apart. They are not considered to come from the same population however, due to the very small precision window obtained for the tests (0.002 s for the PEP and 0.003 s for the FEP). However, due to the small numerical difference between the parameter estimates, it was determined that additional testing would not provide any more information.

Table 7b. Summary of Performance Parameter Estimates for X.25 via Circuit Service

Performance Parameters	95% Lower Limit	Sample Mean	95% Upper Limit	Pooling* Ability	Number of Tests	Total Number of Trials
Access Time (s)	0.83	0.85	0.86	test	11	1100
User Fraction of Access Time (%)	46.67	47.29	47.91	test	11	1100
Incorrect Access Probability	0	0	$1.3 \times 10^{-2**}$	trial	11	1100
Access Denial Probability	0	0	$1.3 \times 10^{-2**}$	trial	11	1100
Access Outage Probability	0	0	$1.3 \times 10^{-2**}$	trial	11	1100
Block Transfer Time (s)	9.64	9.66	9.68	trial	13	650
User Fraction of Block Transfer Time	7.11	7.28	7.45	trial	13	650
User Fraction of Input/Output Time	6.75	6.80	6.86	test	13	13
User Information Bit Transfer Rate (bps)	62950	63000	63040	test	13	13
Bit Error Probability	0	0	$6.0 \times 10^{-7**}$	trial	13	20800000
Bit Loss Probability	0	0	$6.0 \times 10^{-7**}$	trial	13	20800000
Extra Bit Probability	0	0	$6.0 \times 10^{-7**}$	trial	13	20800000
Block Error Probability	0	0	$2.2 \times 10^{-2**}$	trial	13	650
Block Loss Probability	0	0	$2.2 \times 10^{-2**}$	trial	13	650
Extra Block Probability	0	0	$2.2 \times 10^{-2**}$	trial	13	650
Transfer Denial Probability	0	0	$5.0 \times 10^{-2**}$	trial	13	277
Source Disengagement Time (s)	0.85	0.86	0.87	level	11	1100
User Fraction of Source Disengagement Time (%)	3.50	3.63	3.77	level	11	1100
Source Disengagement Denial Probability	0	0	$1.3 \times 10^{-2**}$	trial	11	1100
Destination Disengagement Time	1.17	1.18	1.18	test	11	1100
User Fraction of Destination Disengagement Time	8.00	8.01	8.02	test	11	1100
Destination Disengagement Denial Probability	0	0	$1.3 \times 10^{-2**}$	trial	11	1100

\* Pooled by destination city.

\*\* Assumed that the conditional probability (an error occurs given that an error just occurred) is 0.8.

Table 8a. X3.102 Parameter Values for X.25 via Packet Service - FEP Results

Parameter	Sample Mean	User Fraction	Precision	# Trials	# Correct Trials
Access Time	1.48 s	47.36 %	0.01 s	700	700
Source Disengagement Time	1.67 s	2.17 %	0.006 s	700	700
Destination Disengagement Time	2.29 s	81.49 %	0.009 s	700	700
Block Transfer Time	12.01 s	1.40 %	0.005 s	350	350
User Information Bit Transfer Rate	10400 bps	--	5 bps	7	N/A
User Fraction of Input/Output Time	1.12 %	--	0.02 %	7	N/A

X.25 via Packet Service Results

Table 8a shows the FEP time and rate parameter estimates for the X.25 via packet service tests. Comparing this table to Table 3c shows a close similarity in the estimates of the performance parameters. To prove the similarity of the estimated parameters, the data was analyzed to determine if the FEP and PEP data could be pooled. The results of the pooling are shown in Table 8b, as are the rest of the performance parameter estimates.

All the parameters can be considered to come from the same population with the exception of the User Information Bit Transfer Rate (and the User Fraction of Input/Output Time from which the User Information Bit Transfer Rate was calculated). The mean User Information Bit Transfer Rate was 10390 bps for the PEP tests and 10400 bps for the FEP tests. The difference between the two means is 10 bps which is less than 0.1% of the Transfer Rate. The Rates are not considered to come from the same population due to the small precision window obtained for the tests. Table 3c shows

Table 8b. Summary of Performance Parameter Estimates for X.25 via Packet Service

Performance Parameters	95% Lower Limit	Sample Mean	95% Upper Limit	Pooling* Ability	Number of Tests	Total Number of Trials
Access Time (s)	1.47	1.48	1.50	test	12	1200
User Fraction of Access Time (%)	46.98	47.31	47.64	test	12	1200
Incorrect Access Probability	0	0	$1.2 \times 10^{-2**}$	trial	12	1200
Access Denial Probability	0	0	$1.2 \times 10^{-2**}$	trial	12	1200
Access Outage Probability	0	0	$1.2 \times 10^{-2**}$	trial	12	1200
Block Transfer Time (s)	11.81	12.02	12.23	trial	12	600
User Fraction of Block Transfer Time	1.08	1.42	1.76	trial	12	600
User Fraction of Input/Output Time	1.10	1.12	1.14	level	12	12
User Information Bit Transfer Rate (bps)	10390	10400	10400	level	12	12
Bit Error Probability	0	0	$8.9 \times 10^{-7**}$	trial	12	19200000
Bit Loss Probability	0	0	$8.9 \times 10^{-7**}$	trial	12	19200000
Extra Bit Probability	0	0	$8.9 \times 10^{-7**}$	trial	12	19200000
Block Error Probability	0	0	$2.4 \times 10^{-2**}$	trial	12	600
Block Loss Probability	0	0	$2.4 \times 10^{-2**}$	trial	12	600
Extra Block Probability	0	0	$2.4 \times 10^{-2**}$	trial	12	600
Transfer Denial Probability	0	0	$5.1 \times 10^{-2**}$	trial	12	273
Source Disengagement Time (s)	1.67	1.69	1.70	trial	12	1200
User Fraction of Source Disengagement Time (%)	2.05	2.08	2.11	trial	12	1200
Source Disengagement Denial Probability	0	0	$1.2 \times 10^{-2**}$	trial	12	1200
Destination Disengagement Time	2.29	2.31	2.32	trial	12	1200
User Fraction of Destination Disengagement Time	80.0	80.6	81.1	trial	12	1200
Destination Disengagement Denial Probability	0	0	$1.2 \times 10^{-2**}$	trial	12	1200

\* Pooled by destination city.

\*\* Assumed that the conditional probability (an error occurs given that an error just occurred) is 0.8.

Table 9a. X3.102 Parameter Values for ISDN Service - FEP Results

Parameter	Sample Mean	User Fraction	Precision	# trials	# correct trials
Access Time (with packet router ON)	24.62 s	0.43 %	0.135 s	200	200
Access Time (with packet router OFF)	27.03 s	0.40 %	0.345 s	160	160
Source Disengagement Time	4.10 s	2.24 %	0.141 s	360	360
Destination Disengagement Time	1.86 s	4.03 %	0.017 s	360	360
Estimated User Information Bit Transfer Rate *	63660 bps	--	--	--	--

\* User Information Bit Transfer Rate determined from the results of the X.25 via circuit service tests. Subtracted overhead due to X.25 and LAP-B.

that the precision for the PEP tests was 0 bps. The analysis software only prints out the four most significant digits (i.e., the PEP User Information Bit Transfer Rate's 95th lower confidence limit, the mean and the 95th upper confidence limit all equal 0.1039E+5). If more digits were listed, the absolute precision would be between 0 and 5 bps. The precision for the FEP test is also 5 bps. Therefore, due to the small numerical difference between the parameter estimates, it was determined that additional testing would not provide any more information.

### ISDN Service Results

Table 9a shows the FEP time and rate parameter estimates and Table 9b shows the pooled PEP/FEP parameter estimates. The Disengagement and Rate parameter estimates of Table 9a are similar to the values shown in Table 3d. Table 9b shows the results of pooling the FEP and PEP data. As for the other services, one parameter fails the pooling test due to a very small precision window. For the ISDN service, the parameter is the Destination Disengagement Time. The absolute precision for



Table 9b. Summary of Performance Parameter Estimates for ISDN Service (with the packet router OFF)

Performance Parameters	95% Lower Limit	Sample Mean	95% Upper Limit	Pooling* Ability	Number of Tests	Total Number of Trials
Access Time (s)	17.61	25.25**	32.89	level	9	360
User Fraction of Access Time (%)	0.29	0.43	0.57	level	9	360
Incorrect Access Probability	0	0	$3.9 \times 10^{-2***}$	trial	9	360
Access Denial Probability	0	0	$3.9 \times 10^{-2***}$	trial	9	360
Access Outage Probability	0	0	$3.9 \times 10^{-2***}$	trial	9	360
User Information Bit Transfer Rate (bps)****	--	63660	--	--	--	--
Source Disengagement Time (s)	3.84	3.98	4.11	test	9	360
User Fraction of Source Disengagement Time (%)	2.24	2.31	2.38	test	9	360
Source Disengagement Denial Probability	0	0	$3.9 \times 10^{-2***}$	trial	9	360
Destination Disengagement Time	1.76	1.831	1.90	level	9	360
User Fraction of Destination Disengagement Time	4.00	4.09	4.18	level	9	360
Destination Disengagement Denial Probability	0	0	$3.9 \times 10^{-2***}$	trial	9	360

\* Pooled by destination city.

\*\* The FEP ISDN service tests were run with the ISDN terminal adapter set to answer on the second ring. Due to the error, the PEP and the FEP Access Times could not be pooled. The PEP Access Time (which correctly answered the ISDN terminal adapter on the first ring) should be used as shown in Table 3d ( $23.48 \pm 0.10$  s).

\*\*\* Assumed that the conditional probability (an error occurs given that an error just occurred) is 0.8.

\*\*\*\* User Information Bit Transfer Rate determined from the results of the X.25 via circuit service tests. Subtracted overhead due to X.25 and LAP-B.

Table 10. Comparison of ISDN Service Access Times

Set Description	# of Tests in Set	Access Time Test Means	Mean of Test Means
PEP tests	5	23.490 s 23.400 s 23.367 s 23.407 s 23.712 s	23.48 s
FEP tests with the Packet Router OFF	4	26.866 s 27.346 s 26.962 s 26.932 s	27.03 s
FEP tests with the Packet Router ON	5	24.511 s 24.530 s 24.776 s 24.613 s 24.677 s	24.62 s

the PEP tests was 0.003 seconds and the precision for the FEP tests was 0.017 seconds. The mean for the two test series were just 0.05 seconds apart. Due to the small numerical difference between the parameter estimates, it was determined that additional testing would not provide any more information.

The Access Time was also unable to be pooled. For this parameter, it was not due to a small precision window. For the ISDN service, the Access Times can be grouped into three sets as shown in Table 10. The first set is for the PEP tests. The mean Access Times for the PEP tests range from 23.367 seconds to 23.712 seconds. The mean of the five test means was 23.48 seconds. The second set is for the FEP tests when the packet router is turned OFF. The mean Access Times for the FEP, with the packet router OFF, ranged from 26.866 seconds to 27.346 seconds. The mean of the four test means was 27.03 seconds. The third set is for the FEP tests when the packet router is turned ON. The mean Access Times for the FEP, with the packet router ON, ranged from 24.511 seconds to 24.776 seconds. The mean of the five test means was 24.62 seconds.

The packet router is normally only used in X.25 communications. However, for ISDN communications, the D-channel uses the packet router, when available (i.e., when it is turned ON), for call setup. When the packet router is not available, call setup is performed using the ACTS orderwires. Original estimates were that the packet router would reduce the call setup time by 1.5 to 3 seconds. Comparing the Access Time mean for the FEP with the packet router OFF, 27.03 seconds, and the mean for the FEP with the packet router ON, 24.62 seconds, results in a call setup improvement of 2.41 seconds. The observed improvement agrees with what was anticipated.

As stated previously, Table 9b shows that the Access Time measured in the PEP and FEP (with the packet router OFF) tests came from two separate populations. The packet router remained OFF during the PEP tests though.<sup>11</sup> However, comparing the Access Times of the PEP tests to the FEP with the packet router OFF shows a difference of 3.5 seconds. After the conclusion of the tests, it was discovered that the ISDN terminal adapter was set to answer on the second ring for the FEP. The terminal adapter was set to answer after the first ring for the PEP tests. The change occurred during the shipment/setup of the equipment in Cleveland. Therefore, for ISDN service with the packet router OFF, the mean Access Time and precision that should be used is  $23.48 \pm 0.10$  seconds as shown in Table 3d.

## 4.2 Discussion of Results and Tests

The major result from the PEP and FEP tests was that even though the tests were performed between different cities, at different times of the year (PEP tests mainly performed in the spring/summer and FEP tests mainly performed in the fall/winter), and under the prevailing traffic conditions (which were dependent on the number of other experimenters using the satellite), much of the data could still be pooled. This implies that the data came from the same population. Therefore, even though the tests were only performed between two city sets, the results can be considered valid for other locations operating under similar conditions.

A surprising result was that the X.25 via packet service throughput performance did not improve as expected in Section 3.2 when the tests were run between two separate locations. Designers of the ISDN SP thought the performance would improve when the remote packet handler was implemented in a different computer from the local packet handler. This was not observed in these tests. The PEP

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<sup>11</sup> The packet router was not functional until mid-November, 1994 and the ISDN service PEP tests were performed in mid- to late-October of that year.

tests, performed in a loopback mode in Boulder, and the FEP tests, performed between Boulder and Cleveland, resulted in the same throughput value of 10.4 kbps.

In addition, the throughput was much less than the originally expected 64 kbps. The ISDN SP designers mentioned that they measured the throughput at approximately 20 kbps (still less than the originally anticipated 64 kbps) with a block size of 128 bytes. Several tests were run at ITS to understand this difference in measured throughput. Our tests found that when the total data block transferred was smaller than 4096 bytes, the measured throughput was approximately 20 kbps. However, when the data block size exceeds 4096 bytes, as in our tests, the measured throughput dropped to approximately 10 kbps. This finding suggests the existence of a 4096-byte buffer somewhere in the system. This is currently being investigated to determine the location of this buffer.

A final observation was that the BER performance of the system was extremely good. All the tests except for one resulted in clean data transfer; eight consecutive bits were lost in one test. These results are consistent with BER measurements NASA has taken for the ITS ES. NASA runs BER tests for each T1-VSAT in the network when the satellite is operating in baseband processor mode (the necessary mode for T1-VSAT operation). For the ITS ES, the BER tests have demonstrated longterm error-free operation.

#### **4.3 Problems and Recommendations for Test Set Improvement**

One of the main problems experienced during the testing period was that tests would sometimes fail halfway through a test due to the computer system and not be able to recover. This occurred most often during an Access/Disengagement test; the serial port would lock up and could only be corrected by rebooting the system. It would not have been correct to count all the remaining tests as Access Denials or Access Outages since the problem had nothing to do with the network or user; it had to do with the test set itself.

Another problem experienced was the limit on the amount of data that could be transferred for each test. Data had to be limited for two reasons. First, an increase in the amount of data taken increases the amount of time needed to reduce/analyze the data. Due to the algorithms used to detect lost, errored, or extra bits, a relatively small increase in the transmitted data size results in a larger increase in data reduction time. Second, the data had to be stored. The collection of 1.6 Mb of data for each of 60 tests (five tests per service for 4 services for the test set characterization, the PEP tests,

and the FEP tests) adds up to 96 Mb of stored data. If the amount of data per test is increased much beyond this level, the amount of data to control becomes unruly.

Since the amount of data to be transferred was on the order of megabits, and not tens or hundreds of megabits, it was impossible to measure the ACTS Bit Error/Loss/Extra Probability with the desired accuracy. NASA took BER measurements consistently on two channels for each ES. They restarted the BER measurement every 10 minutes and recorded the measured BER at the end of the 10 minutes. In 10 minutes, 76.8 Mb get transferred in two channels. Therefore, assuming a half of an errored bit (so the error is not seen) during the 10 minute test, the measured BER would be  $6.5 \times 10^{-9}$ . A typical example of a 24-hour plot for ES #9 (the ITS site), on both the uplink and downlink, is shown in Figure 15 . As this plot shows, no errors were received during the testing period.<sup>12</sup> Therefore, the actual BER of the ACTS system under normal conditions is very low and performing tests using 1.6 Mb of data, even for 50 trials, does not suffice to determine the system's performance.

A solution to both of these problems would be to operate the tests in real time and to calculate the results cumulatively rather than just at the end of the test. With such a system, the tests could be kept running the whole time the system under test is active so that an access denial (which may be days or weeks between occurrences) or bit error outcomes (which may be hours or days between occurrences) could be "caught."

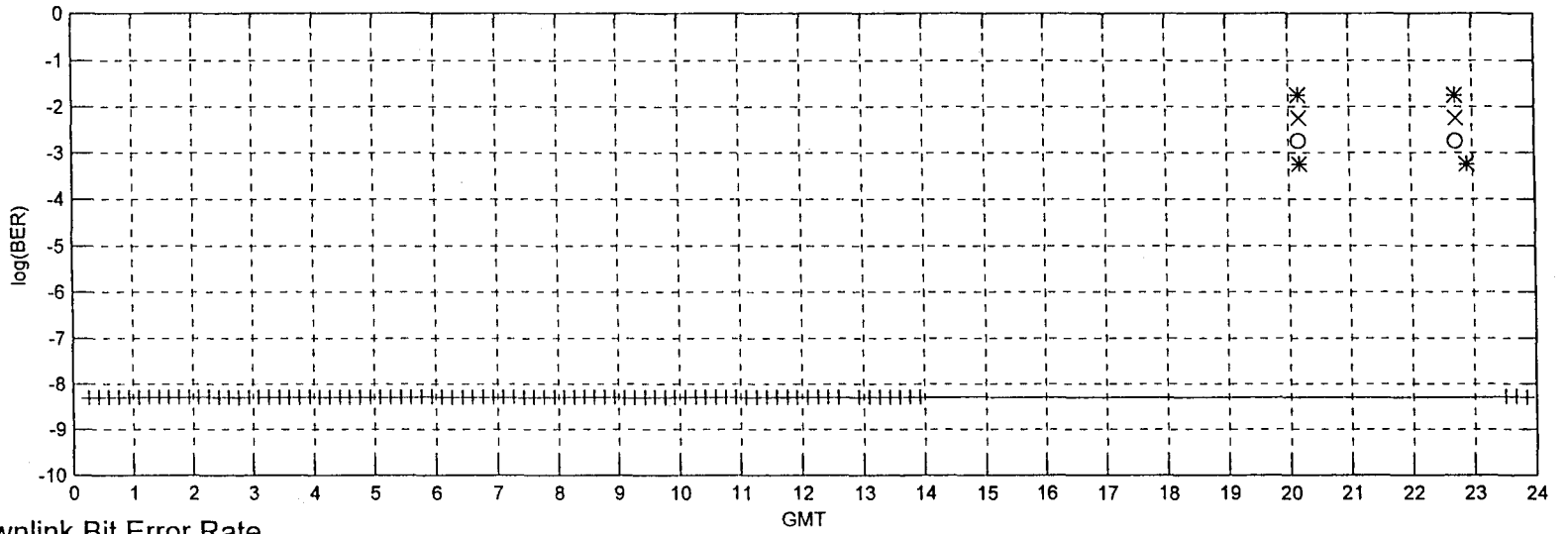
One last problem identified was that the software was originally designed to only work with serial ports. In order to use the X3.141 testing system with the X.25 protocol, the software had to be changed to accommodate the X.25 API. This required extensive changes and should not have been required – especially if the goal is for any user, even one that does not know the test software intimately, to be able to use the system to test their data communication network. Ideally, the system should be flexible enough to accommodate an unlimited number of software (e.g., APIs) and hardware interfaces. If such a system were built, the interfaces that are available today would not limit the system at some future time when different interfaces are then available. In summary, at some point, an effort needs to be undertaken to start from scratch and make the system interface-independent.

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<sup>12</sup> During the period from 1400 to 2330 hours, NASA was not taking BER measurements for this T1-VSAT. The symbols at 2010 and 2250 hours show that the T1-VSAT requested to be shut down and then reacquired at those times.

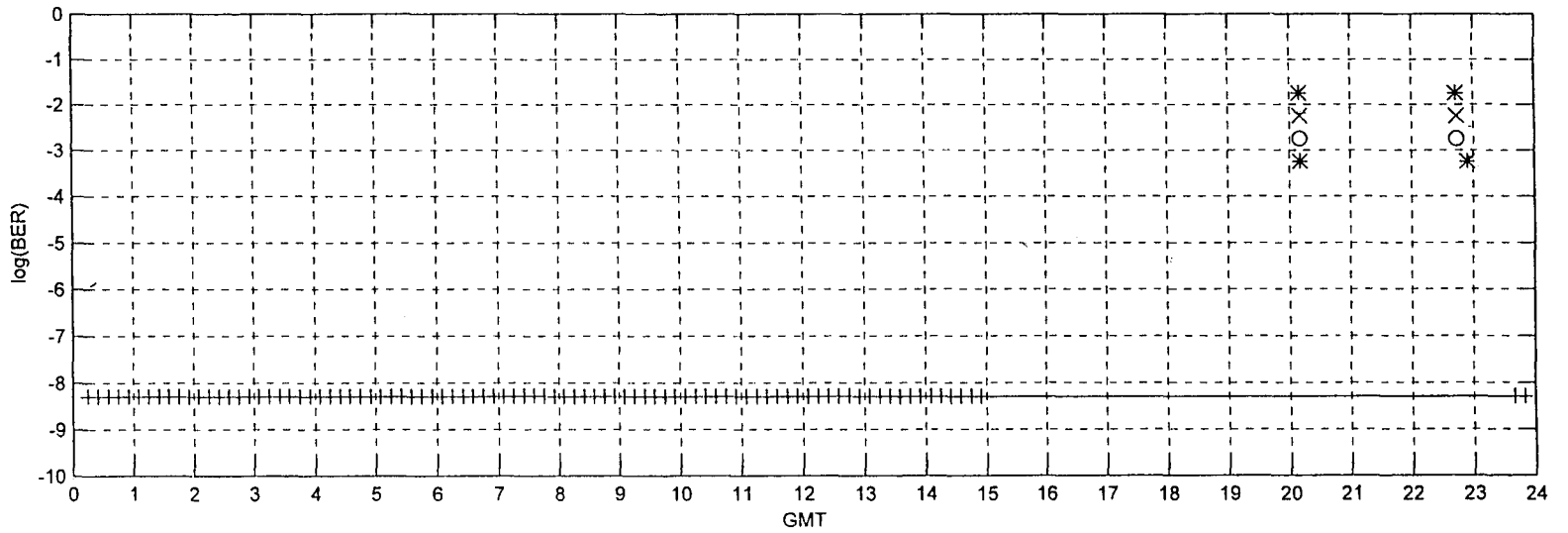
Uplink Bit Error Rate

T1VSAT No. 9 Date 01-31-1995



Downlink Bit Error Rate

T1VSAT No. 9 Date 01-31-1995



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Figure 15. BER data for ES #9.

## 5. REFERENCES

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## APPENDIX A

This appendix contains the test set characterization result summaries. Each test was run five times and the combined results are analyzed in Section 2.

Table A1 shows the test number and a description of the test.<sup>13</sup> The following pages are arranged as follows: modem service tests first, X.25 via circuit service tests next, and the ISDN service tests last. The test summaries contain information to identify the test, an assessment summary, the measured performance parameter values (mean values over all the trials), and reduction specifications (i.e., the specified values used). In addition, for the User Information Transfer tests, a correlation summary and specifications are included.

The specified values used to determine the test set characterization parameter values were set low enough so that all data would be used to determine the mean values. This was especially important for the Preliminary Characterization Tests so that the measured mean values included all the measurements (and are not biased by omitting some of the poorer test results). This mean value was used in the Full Characterization Tests to define the specified values.

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<sup>13</sup> In the table, A/D stands for Access/Disengagement and CKT stands for circuit.



Table A1. Summaries of Individual Test Set Characterization Tests

Test #	Date	# of Trials	Summary
5100	4/12/94	50	Modem UIT test - 4000 bytes/block and 0 sec. between trials
5101	4/12/94	50	"
5102	4/12/94	50	"
5103	4/12/94	50	"
5104	4/12/94	50	"
5105	4/12/94	20	Modem A/D tests - 2000 bytes/block & 10 sec. between trials
5106	4/12/94	20	"
5107	4/13/94	20	"
5108	4/15/94	20	"
5109	4/15/94	20	"
3101	11/2/94	50	X.25 over CKT switched channel UIT tests - 4000 bytes/block and 10 sec. between trials
3102	11/2/94	50	"
3103	11/2/94	50	"
3104	11/2/94	50	"
3105	11/2/94	50	"
3106	5/3/94	100	X.25 over CKT switched channel A/D tests - 2000 bytes/block and 0 sec. between trials
3107	5/3/94	100	"
3108	5/3/94	100	"
3109	5/3/94	100	"
3110	5/3/94	100	"
3201	10/25/94	40	ISDN A/D tests - 2000 bytes/block and 10 seconds between trials
3202	10/25/94	40	"
3203	10/25/94	40	"
3204	10/25/94	40	"
3205	10/25/94	40	"



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*****
*
*                                PERFORMANCE ASSESSMENT SUMMARY
*
*****
*
*                                PERFORMANCE DATA BATCH
*
-----
* NTIA-ITS (Boulder)                                5101
*
* SOURCE USER . . . . . NTIA - modem
* DESTINATION USER . . . . . NTIA - loop back mode
* ORIGINATING USER . . . . . SOURCE
*
* SESSION CATEGORY . . . . . CONNECTION ORIENTED
* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
* MEASUREMENT START TIME . . . . . 04/12/94 10:10:23.855 LT
* MEASUREMENT END TIME . . . . . 04/12/94 10:14:33.585 LT
* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)
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* NTIA-ITS (Boulder)                                5101
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*****
*                                USER INFORMATION TRANSFER ASSESSMENT SUMMARY
*
*****
*
*                                CORRELATION SUMMARY
*
CORRELATOR OUTPUT BLOCKS . . . . . 50
* BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000
* 'CORRECT' BCOS . . . . . 1600000
* 'INCORRECT' BCOS . . . . . 0
* 'UNDELIVERED' BCOS . . . . . 0
* 'EXTRA' BCOS . . . . . 0
* SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50
* SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50
* SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000
* SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000
* DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50
* DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50
* DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000
* DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000
*
*                                CORRELATOR SPECIFICATIONS
*
USER INFORMATION WINDOW SIZE . . . . . 16 BITS
* MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR
  IDENTIFICATION ALGORITHM . . . . . 256 BITS
* MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT
  IDENTIFICATION ALGORITHM . . . . . 8192 BITS
* MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT
  IDENTIFICATION ALGORITHM . . . . . 8192 BITS
*
*****

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* NTIA-ITS (Boulder)                                5101
*
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*
*                                USER INFORMATION TRANSFER ASSESSMENT SUMMARY
*                                (CONTINUED)
*
*****
*
*                                PERFORMANCE STATISTICS
*
BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)
* 'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000
* 'INCORRECT BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0
* 'LOST BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0
* 'EXTRA BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0
*
* BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)
* 'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50
* 'INCORRECT BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0
* 'LOST BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0
* 'EXTRA BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0
*
* TRANSFER SAMPLES . . . . . 49 (+)
* 'TRANSFER DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0
*
* INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 195.935 SEC
* USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.736 SEC
* OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 204.231 SEC
* USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 2.059 SEC
* BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000
* 'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000
* BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
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* NTIA-ITS (Boulder)                                5101
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*****
*                                USER INFORMATION TRANSFER ASSESSMENT SUMMARY
*                                (CONTINUED)
*
*****
*
*                                MEASURED PERFORMANCE PARAMETER VALUES
*
BIT ERROR PROBABILITY . . . . . 0
* BIT LOSS PROBABILITY . . . . . 0
* EXTRA BIT PROBABILITY . . . . . 0
*
* BLOCK TRANSFER TIME . . . . . 12.335 SEC
* USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0097
*
* BLOCK ERROR PROBABILITY . . . . . 0
* BLOCK LOSS PROBABILITY . . . . . 0
* EXTRA BLOCK PROBABILITY . . . . . 0
*
* TRANSFER DENIAL PROBABILITY . . . . . 0
*
* USER INFORMATION BIT TRANSFER RATE . . . . . 7678 BPS
* USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0101
*
*                                REDUCTION SPECIFICATIONS
*
SPECIFIED BLOCK TRANSFER TIME . . . . . 6.000 SEC
* SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.5000
*
* SPECIFIED USER INFORMATION BIT TRANSFER RATE
  FOR TRANSFER SAMPLE . . . . . 1000 BPS
* SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME
  FOR TRANSFER SAMPLE . . . . . 0.5000
*
* SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
* SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
* SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
*
* MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS
  IN TRANSFER SAMPLE . . . . . 30000
*
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 \* PERFORMANCE ASSESSMENT SUMMARY \*  
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PERFORMANCE DATA BATCH

-----  
 NTIA-ITS (Boulder) 5102  
 -----

SOURCE USER . . . . . NTIA - modem  
 DESTINATION USER . . . . . NTIA - loop back mode  
 ORIGINATING USER . . . . . SOURCE

SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED

MEASUREMENT START TIME . . . . . 04/12/94 10:16:31.859 LT  
 MEASUREMENT END TIME . . . . . 04/12/94 10:20:42.312 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

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 NTIA-ITS (Boulder) 5102  
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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
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 CORRELATION SUMMARY  
 -----

CORRELATOR OUTPUT BLOCKS . . . . . 50  
 BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000  
 'CORRECT' BCOS . . . . . 1600000  
 'INCORRECT' BCOS . . . . . 0  
 'UNDELIVERED' BCOS . . . . . 0  
 'EXTRA' BCOS . . . . . 0

SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50  
 SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50  
 SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000  
 SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000

DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50  
 DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50  
 DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000  
 DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000

-----  
 CORRELATOR SPECIFICATIONS  
 -----

USER INFORMATION WINDOW SIZE . . . . . 16 BITS  
 MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR  
 IDENTIFICATION ALGORITHM . . . . . 256 BITS  
 MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT  
 IDENTIFICATION ALGORITHM . . . . . 8192 BITS  
 MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT  
 IDENTIFICATION ALGORITHM . . . . . 8192 BITS

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 NTIA-ITS (Boulder) 5102  
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\*\*\*\*\*  
 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
 (CONTINUED)  
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-----  
 PERFORMANCE STATISTICS  
 -----

BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)  
 'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000  
 'INCORRECT BIT' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0  
 'LOST BIT' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0  
 'EXTRA BIT' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0

BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)  
 'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50  
 'INCORRECT BLOCK' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0  
 'LOST BLOCK' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0  
 'EXTRA BLOCK' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0

TRANSFER SAMPLES . . . . . 49 (+)  
 'TRANSFER DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0

INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 195.935 SEC  
 USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.739 SEC  
 OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 204.235 SEC  
 USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 2.268 SEC  
 BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000  
 'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000  
 BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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 NTIA-ITS (Boulder) 5102  
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\*\*\*\*\*  
 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
 (CONTINUED)  
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-----  
 MEASURED PERFORMANCE PARAMETER VALUES  
 -----

BIT ERROR PROBABILITY . . . . . 0  
 BIT LOSS PROBABILITY . . . . . 0  
 EXTRA BIT PROBABILITY . . . . . 0

BLOCK TRANSFER TIME . . . . . 12.348 SEC  
 USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0108

BLOCK ERROR PROBABILITY . . . . . 0  
 BLOCK LOSS PROBABILITY . . . . . 0  
 EXTRA BLOCK PROBABILITY . . . . . 0

TRANSFER DENIAL PROBABILITY . . . . . 0

USER INFORMATION BIT TRANSFER RATE . . . . . 7677 BPS  
 USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0111

-----  
 REDUCTION SPECIFICATIONS  
 -----

SPECIFIED BLOCK TRANSFER TIME . . . . . 6.000 SEC  
 SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.5000

SPECIFIED USER INFORMATION BIT TRANSFER RATE  
 FOR TRANSFER SAMPLE . . . . . 1000 BPS  
 SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME  
 FOR TRANSFER SAMPLE . . . . . 0.5000

SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)  
 SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)  
 SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)

MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS  
 IN TRANSFER SAMPLE . . . . . 30000

PERFORMANCE ASSESSMENT SUMMARY

-----  
 NTIA-ITS (Boulder) 5103  
 -----

SOURCE USER . . . . . NTIA - modem  
 DESTINATION USER . . . . . NTIA - loop back mode  
 ORIGINATING USER . . . . . SOURCE

SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED

MEASUREMENT START TIME . . . . . 04/12/94 10:23:15.926 LT  
 MEASUREMENT END TIME . . . . . 04/12/94 10:27:26.209 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

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 NTIA-ITS (Boulder) 5103  
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY

-----  
 CORRELATION SUMMARY  
 -----

CORRELATOR OUTPUT BLOCKS . . . . . 50  
 BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000  
 'CORRECT' BCOS . . . . . 1600000  
 'INCORRECT' BCOS . . . . . 0  
 'UNDELIVERED' BCOS . . . . . 0  
 'EXTRA' BCOS . . . . . 0

SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50  
 SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50

SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000  
 SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000

DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50  
 DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50

DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000  
 DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000

-----  
 CORRELATOR SPECIFICATIONS  
 -----

USER INFORMATION WINDOW SIZE . . . . . 16 BITS  
 MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR  
 IDENTIFICATION ALGORITHM . . . . . 256 BITS  
 MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT  
 IDENTIFICATION ALGORITHM . . . . . 8192 BITS  
 MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT  
 IDENTIFICATION ALGORITHM . . . . . 8192 BITS

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 NTIA-ITS (Boulder) 5103  
 -----

USER INFORMATION TRANSFER ASSESSMENT SUMMARY  
 (CONTINUED)

-----  
 PERFORMANCE STATISTICS  
 -----

BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)  
 'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000  
 'INCORRECT BIT' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0  
 'LOST BIT' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0  
 'EXTRA BIT' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0

BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)  
 'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50  
 'INCORRECT BLOCK' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0  
 'LOST BLOCK' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0  
 'EXTRA BLOCK' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0

TRANSFER SAMPLES . . . . . 49 (+)  
 'TRANSFER DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0

INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 195.935 SEC  
 USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.741 SEC  
 OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 204.278 SEC  
 USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 2.276 SEC  
 BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000  
 'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000  
 BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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 NTIA-ITS (Boulder) 5103  
 -----

USER INFORMATION TRANSFER ASSESSMENT SUMMARY  
 (CONTINUED)

-----  
 MEASURED PERFORMANCE PARAMETER VALUES  
 -----

BIT ERROR PROBABILITY . . . . . 0  
 BIT LOSS PROBABILITY . . . . . 0  
 EXTRA BIT PROBABILITY . . . . . 0

BLOCK TRANSFER TIME . . . . . 12.349 SEC  
 USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0109

BLOCK ERROR PROBABILITY . . . . . 0  
 BLOCK LOSS PROBABILITY . . . . . 0  
 EXTRA BLOCK PROBABILITY . . . . . 0

TRANSFER DENIAL PROBABILITY . . . . . 0

USER INFORMATION BIT TRANSFER RATE . . . . . 7676 BPS  
 USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0111

-----  
 REDUCTION SPECIFICATIONS  
 -----

SPECIFIED BLOCK TRANSFER TIME . . . . . 6.000 SEC  
 SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.5000

SPECIFIED USER INFORMATION BIT TRANSFER RATE  
 FOR TRANSFER SAMPLE . . . . . 1000 BPS  
 SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME  
 FOR TRANSFER SAMPLE . . . . . 0.5000

SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)  
 SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)  
 SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)

MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS  
 IN TRANSFER SAMPLE . . . . . 30000

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PERFORMANCE ASSESSMENT SUMMARY

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PERFORMANCE DATA BATCH

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NTIA-ITS (Boulder)	5104
-----	
SOURCE USER . . . . .	NTIA - modem
DESTINATION USER . . . . .	NTIA - loop back mode
ORIGINATING USER . . . . .	SOURCE
SESSION CATEGORY . . . . .	CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY . . . . .	NEGOTIATED
MEASUREMENT START TIME . . . . .	04/12/94 10:29:45.938 LT
MEASUREMENT END TIME . . . . .	04/12/94 10:33:56.418 LT
(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)	

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NTIA-ITS (Boulder) 5104

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USER INFORMATION TRANSFER ASSESSMENT SUMMARY

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CORRELATION SUMMARY

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CORRELATOR OUTPUT BLOCKS . . . . .	50
BIT COMPARISON OUTCOMES (BCOS) . . . . .	1600000
'CORRECT' BCOS . . . . .	1600000
'INCORRECT' BCOS . . . . .	0
'UNDELIVERED' BCOS . . . . .	0
'EXTRA' BCOS . . . . .	0
SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . .	50
SOURCE USER INFORMATION BLOCKS CORRELATED . . . . .	50
SOURCE USER INFORMATION BITS TRANSMITTED . . . . .	1600000
SOURCE USER INFORMATION BITS CORRELATED . . . . .	1600000
DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . .	50
DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . .	50
DESTINATION USER INFORMATION BITS RECEIVED . . . . .	1600000
DESTINATION USER INFORMATION BITS CORRELATED . . . . .	1600000

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CORRELATOR SPECIFICATIONS

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USER INFORMATION WINDOW SIZE . . . . .	16 BITS
MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR IDENTIFICATION ALGORITHM . . . . .	256 BITS
MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT IDENTIFICATION ALGORITHM . . . . .	8192 BITS
MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT IDENTIFICATION ALGORITHM . . . . .	8192 BITS

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NTIA-ITS (Boulder) 5104

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USER INFORMATION TRANSFER ASSESSMENT SUMMARY  
(CONTINUED)

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PERFORMANCE STATISTICS

-----

BIT TRANSFER ATTEMPTS . . . . .	1600000 (+)
'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . .	1600000
'INCORRECT BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . .	0
'LOST BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . .	0
'EXTRA BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . .	0
BLOCK TRANSFER ATTEMPTS . . . . .	50 (+)
'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . .	50
'INCORRECT BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . .	0
'LOST BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . .	0
'EXTRA BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . .	0
TRANSFER SAMPLES . . . . .	49 (+)
'TRANSFER DENIAL' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . .	0
INPUT TIME FOR THROUGHPUT SAMPLE . . . . .	195.935 SEC
USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . .	1.733 SEC
OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . .	204.360 SEC
USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . .	2.018 SEC
BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . .	1568000
'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . .	1568000
BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . .	49

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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NTIA-ITS (Boulder) 5104

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USER INFORMATION TRANSFER ASSESSMENT SUMMARY  
(CONTINUED)

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MEASURED PERFORMANCE PARAMETER VALUES

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BIT ERROR PROBABILITY . . . . .	0
BIT LOSS PROBABILITY . . . . .	0
EXTRA BIT PROBABILITY . . . . .	0
BLOCK TRANSFER TIME . . . . .	12.366 SEC
USER FRACTION OF BLOCK TRANSFER TIME . . . . .	0.0096
BLOCK ERROR PROBABILITY . . . . .	0
BLOCK LOSS PROBABILITY . . . . .	0
EXTRA BLOCK PROBABILITY . . . . .	0
TRANSFER DENIAL PROBABILITY . . . . .	0
USER INFORMATION BIT TRANSFER RATE . . . . .	7673 BPS
USER FRACTION OF INPUT/OUTPUT TIME . . . . .	0.0099

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REDUCTION SPECIFICATIONS

-----

SPECIFIED BLOCK TRANSFER TIME . . . . .	6.000 SEC
SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . .	0.5000
SPECIFIED USER INFORMATION BIT TRANSFER RATE FOR TRANSFER SAMPLE . . . . .	1000 BPS
SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME FOR TRANSFER SAMPLE . . . . .	0.5000
SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-09)
SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-08)
SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-08)
MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS IN TRANSFER SAMPLE . . . . .	30000

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*
* PERFORMANCE ASSESSMENT SUMMARY
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*
* PERFORMANCE DATA BATCH
*
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* NTIA-ITS (Boulder) 5105
*
* SOURCE USER . . . . . NTIA - modem
* DESTINATION USER . . . . . NTIA - loop back mode
* ORIGINATING USER . . . . . SOURCE
*
* SESSION CATEGORY . . . . . CONNECTION ORIENTED
* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
*
* MEASUREMENT START TIME . . . . . 04/12/94 13:25:35.975 LT
* MEASUREMENT END TIME . . . . . 04/12/94 13:44:07.846 LT
* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)
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NTIA-ITS (Boulder) 5105
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*****
* ACCESS ASSESSMENT SUMMARY
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*
* PERFORMANCE STATISTICS
*
ACCESS ATTEMPTS . . . . . 20 (+)
'SUCCESSFUL ACCESS' OUTCOMES . . . . . 20
'INCORRECT ACCESS' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0
'ACCESS DENIAL' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0
'ACCESS OUTAGE' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0
*
*(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
* MEASURED PERFORMANCE PARAMETER VALUES
*
-----
ACCESS TIME . . . . . 33.241 SEC
USER FRACTION OF ACCESS TIME . . . . . 0.0037
*
INCORRECT ACCESS PROBABILITY . . . . . 0
ACCESS DENIAL PROBABILITY . . . . . 0
ACCESS OUTAGE PROBABILITY . . . . . 0
*
* REDUCTION SPECIFICATIONS
*
-----
SPECIFIED ACCESS TIME . . . . . 80.000 SEC
SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000
*
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NTIA-ITS (Boulder) 5105
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*
* SOURCE
* DISENGAGEMENT ASSESSMENT SUMMARY
*
*****
*
* PERFORMANCE STATISTICS
*
DISENGAGEMENT ATTEMPTS . . . . . 20 (+)
'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20
'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
*
*(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
* MEASURED PERFORMANCE PARAMETER VALUES
*
-----
DISENGAGEMENT TIME . . . . . 7.960 SEC
USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0113
DISENGAGEMENT DENIAL PROBABILITY . . . . . 0
*
* REDUCTION SPECIFICATIONS
*
-----
SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC
SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000
SPECIFIED ACCESS TIME . . . . . 80.000 SEC
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NTIA-ITS (Boulder) 5105
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*****
* DESTINATION
* DISENGAGEMENT ASSESSMENT SUMMARY
*
*****
*
* PERFORMANCE STATISTICS
*
DISENGAGEMENT ATTEMPTS . . . . . 20 (+)
'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20
'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
*
*(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
* MEASURED PERFORMANCE PARAMETER VALUES
*
-----
DISENGAGEMENT TIME . . . . . 2.154 SEC
USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0340
DISENGAGEMENT DENIAL PROBABILITY . . . . . 0
*
* REDUCTION SPECIFICATIONS
*
-----
SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC
SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000
SPECIFIED ACCESS TIME . . . . . 80.000 SEC
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*
* PERFORMANCE ASSESSMENT SUMMARY
*
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*
* PERFORMANCE DATA BATCH
*
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* NTIA-ITS (Boulder) 5106
*
* SOURCE USER . . . . . NTIA - modem
* DESTINATION USER . . . . . NTIA - loop back mode
* ORIGINATING USER . . . . . SOURCE
*
* SESSION CATEGORY . . . . . CONNECTION ORIENTED
* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
*
* MEASUREMENT START TIME . . . . . 04/12/94 16:01:39.822 LT
* MEASUREMENT END TIME . . . . . 04/12/94 16:20:20.526 LT
* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)
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* NTIA-ITS (Boulder) 5106
*
*****
* SOURCE
* DISENGAGEMENT ASSESSMENT SUMMARY
*
*****
* PERFORMANCE STATISTICS
*
* DISENGAGEMENT ATTEMPTS . . . . . 20 (+)
* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20
* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*-----
* MEASURED PERFORMANCE PARAMETER VALUES
*
* DISENGAGEMENT TIME . . . . . 7.997 SEC
* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0113
* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0
*
*-----
* REDUCTION SPECIFICATIONS
*
* SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC
* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000
* SPECIFIED ACCESS TIME . . . . . 80.000 SEC
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* NTIA-ITS (Boulder) 5106
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* NTIA-ITS (Boulder) 5106
*

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*****
* ACCESS ASSESSMENT SUMMARY
*
*****
* PERFORMANCE STATISTICS
*
* ACCESS ATTEMPTS . . . . . 20 (+)
* 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 20
* 'INCORRECT ACCESS' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0
* 'ACCESS DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0
* 'ACCESS OUTAGE' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*-----
* MEASURED PERFORMANCE PARAMETER VALUES
*
* ACCESS TIME . . . . . 33.646 SEC
* USER FRACTION OF ACCESS TIME . . . . . 0.0034
*
* INCORRECT ACCESS PROBABILITY . . . . . 0
* ACCESS DENIAL PROBABILITY . . . . . 0
* ACCESS OUTAGE PROBABILITY . . . . . 0
*
*-----
* REDUCTION SPECIFICATIONS
*
* SPECIFIED ACCESS TIME . . . . . 80.000 SEC
* SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000
*
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*****
* DESTINATION
* DISENGAGEMENT ASSESSMENT SUMMARY
*
*****
* PERFORMANCE STATISTICS
*
* DISENGAGEMENT ATTEMPTS . . . . . 20 (+)
* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20
* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*-----
* MEASURED PERFORMANCE PARAMETER VALUES
*
* DISENGAGEMENT TIME . . . . . 2.154 SEC
* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0339
* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0
*
*-----
* REDUCTION SPECIFICATIONS
*
* SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC
* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000
* SPECIFIED ACCESS TIME . . . . . 80.000 SEC
*
*****

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\*\*\*\*\*  
 \* PERFORMANCE ASSESSMENT SUMMARY \*  
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\*\*\*\*\*  
 \* PERFORMANCE DATA BATCH \*  
 \*\*\*\*\*  
 \* NTIA-ITS (Boulder) 5107 \*  
 \*\*\*\*\*  
 \* SOURCE USER . . . . . NTIA - modem \*  
 \* DESTINATION USER . . . . . NTIA - loop back mode \*  
 \* ORIGINATING USER . . . . . SOURCE \*  
 \* SESSION CATEGORY . . . . . CONNECTION ORIENTED \*  
 \* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED \*  
 \* MEASUREMENT START TIME . . . . . 04/13/94 08:16:05.877 LT \*  
 \* MEASUREMENT END TIME . . . . . 04/13/94 08:34:32.852 LT \*  
 \* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE) \*  
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 NTIA-ITS (Boulder) 5107  
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\*\*\*\*\*  
 \* ACCESS ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

\*\*\*\*\*  
 \* PERFORMANCE STATISTICS \*  
 \*\*\*\*\*  
 \* ACCESS ATTEMPTS . . . . . 20 (+) \*  
 \* 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 20 \*  
 \* 'INCORRECT ACCESS' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0 \*  
 \* 'ACCESS DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0 \*  
 \* 'ACCESS OUTAGE' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \*  
 \*-----  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*-----  
 \* ACCESS TIME . . . . . 32.965 SEC \*  
 \* USER FRACTION OF ACCESS TIME . . . . . 0.0038 \*  
 \* INCORRECT ACCESS PROBABILITY . . . . . 0 \*  
 \* ACCESS DENIAL PROBABILITY . . . . . 0 \*  
 \* ACCESS OUTAGE PROBABILITY . . . . . 0 \*  
 \*  
 \*-----  
 \* REDUCTION SPECIFICATIONS \*  
 \*-----  
 \* SPECIFIED ACCESS TIME . . . . . 80.000 SEC \*  
 \* SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000 \*  
 \*\*\*\*\*

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 NTIA-ITS (Boulder) 5107  
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\*\*\*\*\*  
 \* SOURCE \*  
 \* DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

\*\*\*\*\*  
 \* PERFORMANCE STATISTICS \*  
 \*\*\*\*\*  
 \* DISENGAGEMENT ATTEMPTS . . . . . 20 (+) \*  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20 \*  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \*  
 \*-----  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*-----  
 \* DISENGAGEMENT TIME . . . . . 7.993 SEC \*  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0113 \*  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 \*  
 \*  
 \*-----  
 \* REDUCTION SPECIFICATIONS \*  
 \*-----  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC \*  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000 \*  
 \* SPECIFIED ACCESS TIME . . . . . 80.000 SEC \*  
 \*\*\*\*\*

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 NTIA-ITS (Boulder) 5107  
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\*\*\*\*\*  
 \* DESTINATION \*  
 \* DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

\*\*\*\*\*  
 \* PERFORMANCE STATISTICS \*  
 \*\*\*\*\*  
 \* DISENGAGEMENT ATTEMPTS . . . . . 20 (+) \*  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20 \*  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \*  
 \*-----  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*-----  
 \* DISENGAGEMENT TIME . . . . . 2.156 SEC \*  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0339 \*  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 \*  
 \*  
 \*-----  
 \* REDUCTION SPECIFICATIONS \*  
 \*-----  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC \*  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000 \*  
 \* SPECIFIED ACCESS TIME . . . . . 80.000 SEC \*  
 \*\*\*\*\*

\*\*\*\*\*  
 PERFORMANCE ASSESSMENT SUMMARY  
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 NTIA-ITS (Boulder) 5108  
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\*\*\*\*\*  
 PERFORMANCE DATA BATCH  
 -----  
 NTIA-ITS (Boulder) 5108  
 -----  
 SOURCE USER . . . . . NTIA - modem  
 DESTINATION USER . . . . . NTIA - loop back mode  
 ORIGINATING USER . . . . . SOURCE  
 SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
 MEASUREMENT START TIME . . . . . 04/15/94 09:28:26.769 LT  
 MEASUREMENT END TIME . . . . . 04/15/94 09:46:58.226 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)  
 \*\*\*\*\*

\*\*\*\*\*  
 SOURCE  
 DISENGAGEMENT ASSESSMENT SUMMARY  
 \*\*\*\*\*

\*\*\*\*\*  
 PERFORMANCE STATISTICS  
 -----  
 DISENGAGEMENT ATTEMPTS . . . . . 20 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE  
 -----  
 MEASURED PERFORMANCE PARAMETER VALUES  
 -----  
 DISENGAGEMENT TIME . . . . . 7.810 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0115  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0  
 -----  
 REDUCTION SPECIFICATIONS  
 -----  
 SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC  
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 NTIA-ITS (Boulder) 5108  
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 NTIA-ITS (Boulder) 5108  
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\*\*\*\*\*  
 ACCESS ASSESSMENT SUMMARY  
 \*\*\*\*\*

\*\*\*\*\*  
 DESTINATION  
 DISENGAGEMENT ASSESSMENT SUMMARY  
 \*\*\*\*\*

\*\*\*\*\*  
 PERFORMANCE STATISTICS  
 -----  
 ACCESS ATTEMPTS . . . . . 20 (+)  
 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 20  
 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE  
 -----  
 MEASURED PERFORMANCE PARAMETER VALUES  
 -----  
 ACCESS TIME . . . . . 33.371 SEC  
 USER FRACTION OF ACCESS TIME . . . . . 0.0035  
 INCORRECT ACCESS PROBABILITY . . . . . 0  
 ACCESS DENIAL PROBABILITY . . . . . 0  
 ACCESS OUTAGE PROBABILITY . . . . . 0  
 -----  
 REDUCTION SPECIFICATIONS  
 -----  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC  
 SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000  
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 PERFORMANCE STATISTICS  
 -----  
 DISENGAGEMENT ATTEMPTS . . . . . 20 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE  
 -----  
 MEASURED PERFORMANCE PARAMETER VALUES  
 -----  
 DISENGAGEMENT TIME . . . . . 2.155 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0339  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0  
 -----  
 REDUCTION SPECIFICATIONS  
 -----  
 SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC  
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*
*                                PERFORMANCE ASSESSMENT SUMMARY
*
*****
*
*                                PERFORMANCE DATA BATCH
*
-----
* NTIA-ITS (Boulder)                                5109
*
* SOURCE USER . . . . . NTIA - modem
* DESTINATION USER . . . . . NTIA - loop back mode
* ORIGINATING USER . . . . . SOURCE
*
* SESSION CATEGORY . . . . . CONNECTION ORIENTED
* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
* MEASUREMENT START TIME . . . . . 04/15/94 11:58:42.627 LT
* MEASUREMENT END TIME . . . . . 04/15/94 12:17:36.822 LT
* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)
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* NTIA-ITS (Boulder)                                5109
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*****
*                                ACCESS ASSESSMENT SUMMARY
*
*****
*
*                                PERFORMANCE STATISTICS
*
-----
* ACCESS ATTEMPTS . . . . . 20 (+)
* 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 20
* 'INCORRECT ACCESS' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0
* 'ACCESS DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0
* 'ACCESS OUTAGE' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*
*                                MEASURED PERFORMANCE PARAMETER VALUES
*
-----
* ACCESS TIME . . . . . 34.075 SEC
* USER FRACTION OF ACCESS TIME . . . . . 0.0033
*
* INCORRECT ACCESS PROBABILITY . . . . . 0
* ACCESS DENIAL PROBABILITY . . . . . 0
* ACCESS OUTAGE PROBABILITY . . . . . 0
*
*
*                                REDUCTION SPECIFICATIONS
*
-----
* SPECIFIED ACCESS TIME . . . . . 80.000 SEC
* SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000
*
*****

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* NTIA-ITS (Boulder)                                5109
*
-----
*
*                                SOURCE
*                                DISENGAGEMENT ASSESSMENT SUMMARY
*
*****
*
*                                PERFORMANCE STATISTICS
*
-----
* DISENGAGEMENT ATTEMPTS . . . . . 20 (+)
* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20
* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*
*                                MEASURED PERFORMANCE PARAMETER VALUES
*
-----
* DISENGAGEMENT TIME . . . . . 8.244 SEC
* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0110
*
* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0
*
*
*                                REDUCTION SPECIFICATIONS
*
-----
* SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC
* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000
*
* SPECIFIED ACCESS TIME . . . . . 80.000 SEC
*
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* NTIA-ITS (Boulder)                                5109
*
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*****
*                                DESTINATION
*                                DISENGAGEMENT ASSESSMENT SUMMARY
*
*****
*
*                                PERFORMANCE STATISTICS
*
-----
* DISENGAGEMENT ATTEMPTS . . . . . 20 (+)
* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20
* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*
*                                MEASURED PERFORMANCE PARAMETER VALUES
*
-----
* DISENGAGEMENT TIME . . . . . 2.155 SEC
* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0342
*
* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0
*
*
*                                REDUCTION SPECIFICATIONS
*
-----
* SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC
* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000
*
* SPECIFIED ACCESS TIME . . . . . 80.000 SEC
*
*****

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*                                     *
*                                     *
*          PERFORMANCE ASSESSMENT SUMMARY          *
*                                     *
*                                     *
*          PERFORMANCE DATA BATCH          *
*-----*-----*
* NTIA-ITS (Boulder)                      3101 *
*-----*-----*
* SOURCE USER . . . . . NTIA - x.25 over ckt channel *
* DESTINATION USER . . . . . NTIA - characterize testsets *
* ORIGINATING USER . . . . . SOURCE *
*
* SESSION CATEGORY . . . . . CONNECTION ORIENTED *
* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED *
*
* MEASUREMENT START TIME . . . . . 11/02/94 11:28:48.938 LT *
* MEASUREMENT END TIME . . . . . 11/02/94 11:29:14.866 LT *
* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE) *
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* NTIA-ITS (Boulder)                      3101 *
*-----*-----*
*
*          USER INFORMATION TRANSFER ASSESSMENT SUMMARY          *
*          (CONTINUED)          *
*          *
*-----*-----*
*          CORRELATION SUMMARY          *
*-----*-----*
* CORRELATOR OUTPUT BLOCKS . . . . . 50 *
* BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000 *
* 'CORRECT' BCOS . . . . . 1600000 *
* 'INCORRECT' BCOS . . . . . 0 *
* 'UNDELIVERED' BCOS . . . . . 0 *
* 'EXTRA' BCOS . . . . . 0 *
*
* SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50 *
* SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50 *
*
* SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000 *
* SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000 *
*
* DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50 *
* DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50 *
*
* DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000 *
* DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000 *
*
*-----*-----*
*          CORRELATOR SPECIFICATIONS          *
*-----*-----*
* USER INFORMATION WINDOW SIZE . . . . . 16 BITS *
*
* MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR *
* IDENTIFICATION ALGORITHM . . . . . 256 BITS *
*
* MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT *
* IDENTIFICATION ALGORITHM . . . . . 8192 BITS *
*
* MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT *
* IDENTIFICATION ALGORITHM . . . . . 8192 BITS *
*
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* NTIA-ITS (Boulder)                      3101 *
*-----*-----*
*
*          USER INFORMATION TRANSFER ASSESSMENT SUMMARY          *
*          (CONTINUED)          *
*          *
*-----*-----*
*          PERFORMANCE STATISTICS          *
*-----*-----*
* BIT TRANSFER ATTEMPTS . . . . . 1600000 (+) *
* 'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000 *
* 'INCORRECT BIT' OUTCOMES . . . . . 0 *
* PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0 *
* 'LOST BIT' OUTCOMES . . . . . 0 *
* PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0 *
* 'EXTRA BIT' OUTCOMES . . . . . 0 *
* PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0 *
*
* BLOCK TRANSFER ATTEMPTS . . . . . 50 (+) *
* 'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50 *
* 'INCORRECT BLOCK' OUTCOMES . . . . . 0 *
* PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0 *
* 'LOST BLOCK' OUTCOMES . . . . . 0 *
* PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0 *
* 'EXTRA BLOCK' OUTCOMES . . . . . 0 *
* PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0 *
*
* TRANSFER SAMPLES . . . . . 49 (+) *
* 'TRANSFER DENIAL' OUTCOMES . . . . . 0 *
* PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0 *
*
* INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 9.583 SEC *
* USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.668 SEC *
* OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 24.876 SEC *
* USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.670 SEC *
*
* BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000 *
* 'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000 *
* BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49 *
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE *
*
*****

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-----*-----*
* NTIA-ITS (Boulder)                      3101 *
*-----*-----*
*
*          USER INFORMATION TRANSFER ASSESSMENT SUMMARY          *
*          (CONTINUED)          *
*          *
*-----*-----*
*          MEASURED PERFORMANCE PARAMETER VALUES          *
*-----*-----*
* BIT ERROR PROBABILITY . . . . . 0 *
* BIT LOSS PROBABILITY . . . . . 0 *
* EXTRA BIT PROBABILITY . . . . . 0 *
*
* BLOCK TRANSFER TIME . . . . . 9.567 SEC *
* USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0683 *
*
* BLOCK ERROR PROBABILITY . . . . . 0 *
* BLOCK LOSS PROBABILITY . . . . . 0 *
* EXTRA BLOCK PROBABILITY . . . . . 0 *
*
* TRANSFER DENIAL PROBABILITY . . . . . 0 *
*
* USER INFORMATION BIT TRANSFER RATE . . . . . 63033 BPS *
* USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0671 *
*
*-----*-----*
*          REDUCTION SPECIFICATIONS          *
*-----*-----*
* SPECIFIED BLOCK TRANSFER TIME . . . . . 6.000 SEC *
* SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.5000 *
*
* SPECIFIED USER INFORMATION BIT TRANSFER RATE *
* FOR TRANSFER SAMPLE . . . . . 1000 BPS *
* SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME *
* FOR TRANSFER SAMPLE . . . . . 0.5000 *
*
* SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08) *
* SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08) *
* SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08) *
*
* MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS *
* IN TRANSFER SAMPLE . . . . . 30000 *
*
*****

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*****
*
* PERFORMANCE ASSESSMENT SUMMARY
*
*****
*
* PERFORMANCE DATA BATCH
*
-----
* NTIA-ITS (Boulder) 3102
*
* SOURCE USER . . . . . NTIA - x.25 over ckt channel
* DESTINATION USER . . . . . NTIA - characterize testsets
* ORIGINATING USER . . . . . SOURCE
*
* SESSION CATEGORY . . . . . CONNECTION ORIENTED
* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
*
* MEASUREMENT START TIME . . . . . 11/02/94 11:29:58.943 LT
* MEASUREMENT END TIME . . . . . 11/02/94 11:30:24.895 LT
* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)
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* NTIA-ITS (Boulder) 3102
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*****
* USER INFORMATION TRANSFER ASSESSMENT SUMMARY
*
*****
*
* CORRELATION SUMMARY
*
CORRELATOR OUTPUT BLOCKS . . . . . 50
* BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000
* 'CORRECT' BCOS . . . . . 1600000
* 'INCORRECT' BCOS . . . . . 0
* 'UNDELIVERED' BCOS . . . . . 0
* 'EXTRA' BCOS . . . . . 0
*
* SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50
* SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50
*
* SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000
* SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000
*
* DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50
* DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50
*
* DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000
* DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000
*
*
* CORRELATOR SPECIFICATIONS
*
-----
* USER INFORMATION WINDOW SIZE . . . . . 16 BITS
*
* MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR
* IDENTIFICATION ALGORITHM . . . . . 256 BITS
*
* MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT
* IDENTIFICATION ALGORITHM . . . . . 8192 BITS
*
* MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT
* IDENTIFICATION ALGORITHM . . . . . 8192 BITS
*
*****

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-----
* NTIA-ITS (Boulder) 3102
*
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*
* USER INFORMATION TRANSFER ASSESSMENT SUMMARY
* (CONTINUED)
*
*****
*
* PERFORMANCE STATISTICS
*
-----
*
* BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)
* 'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000
* 'INCORRECT BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0
* 'LOST BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0
* 'EXTRA BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0
*
* BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)
* 'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50
* 'INCORRECT BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0
* 'LOST BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0
* 'EXTRA BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0
*
* TRANSFER SAMPLES . . . . . 49 (+)
* 'TRANSFER DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0
*
* INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 9.596 SEC
* USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.668 SEC
* OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 24.860 SEC
* USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.669 SEC
* BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000
* 'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000
* BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
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* NTIA-ITS (Boulder) 3102
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*****
* USER INFORMATION TRANSFER ASSESSMENT SUMMARY
* (CONTINUED)
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*
* MEASURED PERFORMANCE PARAMETER VALUES
*
* BIT ERROR PROBABILITY . . . . . 0
* BIT LOSS PROBABILITY . . . . . 0
* EXTRA BIT PROBABILITY . . . . . 0
*
* BLOCK TRANSFER TIME . . . . . 9.566 SEC
* USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0676
*
* BLOCK ERROR PROBABILITY . . . . . 0
* BLOCK LOSS PROBABILITY . . . . . 0
* EXTRA BLOCK PROBABILITY . . . . . 0
*
* TRANSFER DENIAL PROBABILITY . . . . . 0
*
* USER INFORMATION BIT TRANSFER RATE . . . . . 63073 BPS
* USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0671
*
*
* REDUCTION SPECIFICATIONS
*
-----
* SPECIFIED BLOCK TRANSFER TIME . . . . . 6.000 SEC
* SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.5000
*
* SPECIFIED USER INFORMATION BIT TRANSFER RATE
* FOR TRANSFER SAMPLE . . . . . 1000 BPS
* SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME
* FOR TRANSFER SAMPLE . . . . . 0.5000
*
* SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
* SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
* SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
*
* MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS
* IN TRANSFER SAMPLE . . . . . 30000
*
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*
* PERFORMANCE ASSESSMENT SUMMARY
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*
* PERFORMANCE DATA BATCH
*
*-----*
* NTIA-ITS (Boulder) 3103
*-----*
*
* SOURCE USER . . . . . NTIA - x.25 over ckt channel
*
* DESTINATION USER . . . . . NTIA - characterize testsets
*
* ORIGINATING USER . . . . . SOURCE
*
* SESSION CATEGORY . . . . . CONNECTION ORIENTED
*
* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
*
* MEASUREMENT START TIME . . . . . 11/02/94 11:30:43.935 LT
*
* MEASUREMENT END TIME . . . . . 11/02/94 11:31:09.906 LT
*
* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)
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* NTIA-ITS (Boulder) 3103
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*
* USER INFORMATION TRANSFER ASSESSMENT SUMMARY
* (CONTINUED)
*
*-----*
* PERFORMANCE STATISTICS
*-----*
*
* BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)
* 'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000
* 'INCORRECT BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0
* 'LOST BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0
* 'EXTRA BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0
*
* BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)
* 'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50
* 'INCORRECT BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0
* 'LOST BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0
* 'EXTRA BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0
*
* TRANSFER SAMPLES . . . . . 49 (+)
* 'TRANSFER DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0
*
* INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 9.577 SEC
* USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.669 SEC
* OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 24.885 SEC
* USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.709 SEC
* BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000
* 'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000
* BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
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* NTIA-ITS (Boulder) 3103
*-----*
*
* USER INFORMATION TRANSFER ASSESSMENT SUMMARY
*
*****
*
* CORRELATION SUMMARY
*
* CORRELATOR OUTPUT BLOCKS . . . . . 50
*
* BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000
* 'CORRECT' BCOS . . . . . 1600000
* 'INCORRECT' BCOS . . . . . 0
* 'UNDELIVERED' BCOS . . . . . 0
* 'EXTRA' BCOS . . . . . 0
*
* SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50
* SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50
*
* SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000
* SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000
*
* DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50
* DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50
*
* DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000
* DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000
*
*-----*
* CORRELATOR SPECIFICATIONS
*-----*
*
* USER INFORMATION WINDOW SIZE . . . . . 16 BITS
*
* MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR
* IDENTIFICATION ALGORITHM . . . . . 256 BITS
*
* MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT
* IDENTIFICATION ALGORITHM . . . . . 8192 BITS
*
* MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT
* IDENTIFICATION ALGORITHM . . . . . 8192 BITS
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* NTIA-ITS (Boulder) 3103
*-----*
*
* USER INFORMATION TRANSFER ASSESSMENT SUMMARY
* (CONTINUED)
*
*-----*
* MEASURED PERFORMANCE PARAMETER VALUES
*-----*
*
* BIT ERROR PROBABILITY . . . . . 0
* BIT LOSS PROBABILITY . . . . . 0
* EXTRA BIT PROBABILITY . . . . . 0
*
* BLOCK TRANSFER TIME . . . . . 9.553 SEC
* USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0690
*
* BLOCK ERROR PROBABILITY . . . . . 0
* BLOCK LOSS PROBABILITY . . . . . 0
* EXTRA BLOCK PROBABILITY . . . . . 0
*
* TRANSFER DENIAL PROBABILITY . . . . . 0
*
* USER INFORMATION BIT TRANSFER RATE . . . . . 63010 BPS
* USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0687
*
*-----*
* REDUCTION SPECIFICATIONS
*-----*
*
* SPECIFIED BLOCK TRANSFER TIME . . . . . 6.000 SEC
* SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.5000
*
* SPECIFIED USER INFORMATION BIT TRANSFER RATE
* FOR TRANSFER SAMPLE . . . . . 1000 BPS
* SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME
* FOR TRANSFER SAMPLE . . . . . 0.5000
*
* SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
* SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
* SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
*
* MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS
* IN TRANSFER SAMPLE . . . . . 30000
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 \* PERFORMANCE ASSESSMENT SUMMARY \*  
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 PERFORMANCE DATA BATCH  
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NTIA-ITS (Boulder)	3104
SOURCE USER . . . . . NTIA - x.25 over ckt channel	
DESTINATION USER . . . . . NTIA - characterize testsets	
ORIGINATING USER . . . . . SOURCE	
SESSION CATEGORY . . . . . CONNECTION ORIENTED	
INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED	
MEASUREMENT START TIME . . . . . 11/02/94 11:33:57.028 LT	
MEASUREMENT END TIME . . . . . 11/02/94 11:34:22.933 LT	
(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)	

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 NTIA-ITS (Boulder) 3104  
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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
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 CORRELATION SUMMARY  
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CORRELATOR OUTPUT BLOCKS . . . . .	50
BIT COMPARISON OUTCOMES (BCOS) . . . . .	1600000
'CORRECT' BCOS . . . . .	1600000
'INCORRECT' BCOS . . . . .	0
'UNDELIVERED' BCOS . . . . .	0
'EXTRA' BCOS . . . . .	0
SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . .	50
SOURCE USER INFORMATION BLOCKS CORRELATED . . . . .	50
SOURCE USER INFORMATION BITS TRANSMITTED . . . . .	1600000
SOURCE USER INFORMATION BITS CORRELATED . . . . .	1600000
DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . .	50
DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . .	50
DESTINATION USER INFORMATION BITS RECEIVED . . . . .	1600000
DESTINATION USER INFORMATION BITS CORRELATED . . . . .	1600000

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 CORRELATOR SPECIFICATIONS  
 -----

USER INFORMATION WINDOW SIZE . . . . .	16 BITS
MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR IDENTIFICATION ALGORITHM . . . . .	256 BITS
MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT IDENTIFICATION ALGORITHM . . . . .	8192 BITS
MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT IDENTIFICATION ALGORITHM . . . . .	8192 BITS

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 NTIA-ITS (Boulder) 3104  
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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
 \* (CONTINUED) \*  
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 PERFORMANCE STATISTICS  
 -----

BIT TRANSFER ATTEMPTS . . . . .	1600000 (+)
'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . .	1600000
'INCORRECT BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . .	0
'LOST BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . .	0
'EXTRA BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . .	0
BLOCK TRANSFER ATTEMPTS . . . . .	50 (+)
'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . .	50
'INCORRECT BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . .	0
'LOST BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . .	0
'EXTRA BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . .	0
TRANSFER SAMPLES . . . . .	49 (+)
'TRANSFER DENIAL' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . .	0
INPUT TIME FOR THROUGHPUT SAMPLE . . . . .	9.609 SEC
USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . .	1.669 SEC
OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . .	24.861 SEC
USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . .	1.668 SEC
BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . .	1568000
'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . .	1568000
BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . .	49

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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 NTIA-ITS (Boulder) 3104  
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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
 \* (CONTINUED) \*  
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 MEASURED PERFORMANCE PARAMETER VALUES  
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BIT ERROR PROBABILITY . . . . .	0
BIT LOSS PROBABILITY . . . . .	0
EXTRA BIT PROBABILITY . . . . .	0
BLOCK TRANSFER TIME . . . . .	9.556 SEC
USER FRACTION OF BLOCK TRANSFER TIME . . . . .	0.0668
BLOCK ERROR PROBABILITY . . . . .	0
BLOCK LOSS PROBABILITY . . . . .	0
EXTRA BLOCK PROBABILITY . . . . .	0
TRANSFER DENIAL PROBABILITY . . . . .	0
USER INFORMATION BIT TRANSFER RATE . . . . .	63071 BPS
USER FRACTION OF INPUT/OUTPUT TIME . . . . .	0.0671

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 REDUCTION SPECIFICATIONS  
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SPECIFIED BLOCK TRANSFER TIME . . . . .	6.000 SEC
SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . .	0.5000
SPECIFIED USER INFORMATION BIT TRANSFER RATE FOR TRANSFER SAMPLE . . . . .	1000 BPS
SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME FOR TRANSFER SAMPLE . . . . .	0.5000
SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-08)
SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-08)
SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-08)
MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS IN TRANSFER SAMPLE . . . . .	30000

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 \* PERFORMANCE ASSESSMENT SUMMARY \*  
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PERFORMANCE DATA BATCH

NTIA-ITS (Boulder)	3105
SOURCE USER . . . . .	NTIA - x.25 over ckt channel
DESTINATION USER . . . . .	NTIA - characterize testsets
ORIGINATING USER . . . . .	SOURCE
SESSION CATEGORY . . . . .	CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY . . . . .	NEGOTIATED
MEASUREMENT START TIME . . . . .	11/02/94 11:36:15.917 LT
MEASUREMENT END TIME . . . . .	11/02/94 11:36:41.865 LT
(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)	

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 NTIA-ITS (Boulder) 3105

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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
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CORRELATION SUMMARY

CORRELATOR OUTPUT BLOCKS . . . . .	50
BIT COMPARISON OUTCOMES (BCOS) . . . . .	1600000
'CORRECT' BCOS . . . . .	1600000
'INCORRECT' BCOS . . . . .	0
'UNDELIVERED' BCOS . . . . .	0
'EXTRA' BCOS . . . . .	0
SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . .	50
SOURCE USER INFORMATION BLOCKS CORRELATED . . . . .	50
SOURCE USER INFORMATION BITS TRANSMITTED . . . . .	1600000
SOURCE USER INFORMATION BITS CORRELATED . . . . .	1600000
DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . .	50
DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . .	50
DESTINATION USER INFORMATION BITS RECEIVED . . . . .	1600000
DESTINATION USER INFORMATION BITS CORRELATED . . . . .	1600000

CORRELATOR SPECIFICATIONS

USER INFORMATION WINDOW SIZE . . . . .	16 BITS
MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR IDENTIFICATION ALGORITHM . . . . .	256 BITS
MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT IDENTIFICATION ALGORITHM . . . . .	8192 BITS
MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT IDENTIFICATION ALGORITHM . . . . .	8192 BITS

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 NTIA-ITS (Boulder) 3105  
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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
 \* (CONTINUED) \*  
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PERFORMANCE STATISTICS

BIT TRANSFER ATTEMPTS . . . . .	1600000 (+)
'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . .	1600000
'INCORRECT BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . .	0
'LOST BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . .	0
'EXTRA BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . .	0
BLOCK TRANSFER ATTEMPTS . . . . .	50 (+)
'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . .	50
'INCORRECT BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . .	0
'LOST BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . .	0
'EXTRA BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . .	0
TRANSFER SAMPLES . . . . .	49 (+)
'TRANSFER DENIAL' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . .	0
INPUT TIME FOR THROUGHPUT SAMPLE . . . . .	9.588 SEC
USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . .	1.669 SEC
OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . .	24.876 SEC
USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . .	1.669 SEC
BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . .	1568000
'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . .	1568000
BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . .	49

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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 NTIA-ITS (Boulder) 3105

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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
 \* (CONTINUED) \*  
 \* \*\*\*\*\*

MEASURED PERFORMANCE PARAMETER VALUES

BIT ERROR PROBABILITY . . . . .	0
BIT LOSS PROBABILITY . . . . .	0
EXTRA BIT PROBABILITY . . . . .	0
BLOCK TRANSFER TIME . . . . .	9.570 SEC
USER FRACTION OF BLOCK TRANSFER TIME . . . . .	0.0669
BLOCK ERROR PROBABILITY . . . . .	0
BLOCK LOSS PROBABILITY . . . . .	0
EXTRA BLOCK PROBABILITY . . . . .	0
TRANSFER DENIAL PROBABILITY . . . . .	0
USER INFORMATION BIT TRANSFER RATE . . . . .	63033 BPS
USER FRACTION OF INPUT/OUTPUT TIME . . . . .	0.0671

REDUCTION SPECIFICATIONS

SPECIFIED BLOCK TRANSFER TIME . . . . .	6.000 SEC
SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . .	0.5000
SPECIFIED USER INFORMATION BIT TRANSFER RATE FOR TRANSFER SAMPLE . . . . .	1000 BPS
SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME FOR TRANSFER SAMPLE . . . . .	0.5000
SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-08)
SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-08)
SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-08)
MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS IN TRANSFER SAMPLE . . . . .	30000



\*\*\*\*\*  
 \* PERFORMANCE ASSESSMENT SUMMARY \*  
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 \* PERFORMANCE DATA BATCH \*  
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 \*-----\*  
 \* NTIA-ITS (Boulder) 3106 \*  
 \*-----\*  
 \* SOURCE USER . . . . . NTIA - x.25 over ckt channel \*  
 \* DESTINATION USER . . . . . NTIA - characterize testsets \*  
 \* ORIGINATING USER . . . . . SOURCE \*  
 \*-----\*  
 \* SESSION CATEGORY . . . . . CONNECTION ORIENTED \*  
 \* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED \*  
 \*-----\*  
 \* MEASUREMENT START TIME . . . . . 05/03/94 14:58:40.008 LT \*  
 \* MEASUREMENT END TIME . . . . . 05/03/94 15:16:15.767 LT \*  
 \* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE) \*  
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 NTIA-ITS (Boulder) 3106  
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\*\*\*\*\*  
 \* ACCESS ASSESSMENT SUMMARY \*  
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 \* PERFORMANCE STATISTICS \*  
 \*\*\*\*\*  
 \* ACCESS ATTEMPTS . . . . . 100 (+) \*  
 \* 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 100 \*  
 \* 'INCORRECT ACCESS' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0 \*  
 \* 'ACCESS DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0 \*  
 \* 'ACCESS OUTAGE' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \*-----\*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*-----\*  
 \* ACCESS TIME . . . . . 0.250 SEC \*  
 \* USER FRACTION OF ACCESS TIME . . . . . 0.4150 \*  
 \*-----\*  
 \* INCORRECT ACCESS PROBABILITY . . . . . 0 \*  
 \* ACCESS DENIAL PROBABILITY . . . . . 0 \*  
 \* ACCESS OUTAGE PROBABILITY . . . . . 0 \*  
 \*-----\*  
 \* REDUCTION SPECIFICATIONS \*  
 \*-----\*  
 \* SPECIFIED ACCESS TIME . . . . . 80.000 SEC \*  
 \* SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000 \*  
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 NTIA-ITS (Boulder) 3106  
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\*\*\*\*\*  
 \* SOURCE \*  
 \* DISENGAGEMENT ASSESSMENT SUMMARY \*  
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\*\*\*\*\*  
 \* PERFORMANCE STATISTICS \*  
 \*\*\*\*\*  
 \* DISENGAGEMENT ATTEMPTS . . . . . 100 (+) \*  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100 \*  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \*-----\*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*-----\*  
 \* DISENGAGEMENT TIME . . . . . 0.279 SEC \*  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0020 \*  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 \*  
 \*-----\*  
 \* REDUCTION SPECIFICATIONS \*  
 \*-----\*  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC \*  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000 \*  
 \* SPECIFIED ACCESS TIME . . . . . 80.000 SEC \*  
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 NTIA-ITS (Boulder) 3106  
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\*\*\*\*\*  
 \* DESTINATION \*  
 \* DISENGAGEMENT ASSESSMENT SUMMARY \*  
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\*\*\*\*\*  
 \* PERFORMANCE STATISTICS \*  
 \*\*\*\*\*  
 \* DISENGAGEMENT ATTEMPTS . . . . . 100 (+) \*  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100 \*  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \*-----\*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*-----\*  
 \* DISENGAGEMENT TIME . . . . . 0.306 SEC \*  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.2874 \*  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 \*  
 \*-----\*  
 \* REDUCTION SPECIFICATIONS \*  
 \*-----\*  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC \*  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000 \*  
 \* SPECIFIED ACCESS TIME . . . . . 80.000 SEC \*  
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\*\*\*\*\*  
 \* PERFORMANCE ASSESSMENT SUMMARY \*  
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PERFORMANCE DATA BATCH  
 -----  
 \* NTIA-ITS (Boulder) 3107 \*  
 \* SOURCE USER . . . . . NTIA - x.25 over ckt channel \*  
 \* DESTINATION USER . . . . . NTIA - characterize testsets \*  
 \* ORIGINATING USER . . . . . SOURCE \*  
 \* SESSION CATEGORY . . . . . CONNECTION ORIENTED \*  
 \* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED \*  
 \* MEASUREMENT START TIME . . . . . 05/03/94 15:16:39.993 LT \*  
 \* MEASUREMENT END TIME . . . . . 05/03/94 15:34:17.690 LT \*  
 \* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE) \*  
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 \* NTIA-ITS (Boulder) 3107 \*  
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\*\*\*\*\*  
 \* ACCESS ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 \* ACCESS ATTEMPTS . . . . . 100 (+) \*  
 \* 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 100 \*  
 \* 'INCORRECT ACCESS' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0 \*  
 \* 'ACCESS DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0 \*  
 \* 'ACCESS OUTAGE' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*-----\*  
 \* ACCESS TIME . . . . . 0.272 SEC \*  
 \* USER FRACTION OF ACCESS TIME . . . . . 0.4448 \*  
 \* INCORRECT ACCESS PROBABILITY . . . . . 0 \*  
 \* ACCESS DENIAL PROBABILITY . . . . . 0 \*  
 \* ACCESS OUTAGE PROBABILITY . . . . . 0 \*  
 \* REDUCTION SPECIFICATIONS \*  
 \*-----\*  
 \* SPECIFIED ACCESS TIME . . . . . 80.000 SEC \*  
 \* SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000 \*  
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 \* NTIA-ITS (Boulder) 3107 \*  
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\*\*\*\*\*  
 \* SOURCE \*  
 \* DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 \* DISENGAGEMENT ATTEMPTS . . . . . 100 (+) \*  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100 \*  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*-----\*  
 \* DISENGAGEMENT TIME . . . . . 0.281 SEC \*  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0028 \*  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 \*  
 \* REDUCTION SPECIFICATIONS \*  
 \*-----\*  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC \*  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000 \*  
 \* SPECIFIED ACCESS TIME . . . . . 80.000 SEC \*  
 \*\*\*\*\*

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 \* NTIA-ITS (Boulder) 3107 \*  
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\*\*\*\*\*  
 \* DESTINATION \*  
 \* DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 \* DISENGAGEMENT ATTEMPTS . . . . . 100 (+) \*  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100 \*  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*-----\*  
 \* DISENGAGEMENT TIME . . . . . 0.309 SEC \*  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.2899 \*  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 \*  
 \* REDUCTION SPECIFICATIONS \*  
 \*-----\*  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC \*  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000 \*  
 \* SPECIFIED ACCESS TIME . . . . . 80.000 SEC \*  
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*                                     *
*                                PERFORMANCE ASSESSMENT SUMMARY                                *
*                                     *
*****
*                                PERFORMANCE DATA BATCH                                *
*-----*-----*
* NTIA-ITS (Boulder) . . . . . 3108 *
*-----*-----*
* SOURCE USER . . . . . NTIA - x.25 over ckt channel *
* DESTINATION USER . . . . . NTIA - characterize testsets *
* ORIGINATING USER . . . . . SOURCE *
*
* SESSION CATEGORY . . . . . CONNECTION ORIENTED *
* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED *
*
* MEASUREMENT START TIME . . . . . 05/03/94 15:34:55.987 LT *
* MEASUREMENT END TIME . . . . . 05/03/94 15:52:36.985 LT *
* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE) *
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* NTIA-ITS (Boulder) . . . . . 3108 *
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*****
*                                ACCESS ASSESSMENT SUMMARY                                *
*                                     *
*****
*                                PERFORMANCE STATISTICS                                *
*-----*-----*
* ACCESS ATTEMPTS . . . . . 100 (+) *
* 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 100 *
* 'INCORRECT ACCESS' OUTCOMES . . . . . 0 *
* PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0 *
* 'ACCESS DENIAL' OUTCOMES . . . . . 0 *
* PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0 *
* 'ACCESS OUTAGE' OUTCOMES . . . . . 0 *
* PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0 *
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE *
*
*-----*-----*
* MEASURED PERFORMANCE PARAMETER VALUES *
*-----*-----*
* ACCESS TIME . . . . . 0.300 SEC *
* USER FRACTION OF ACCESS TIME . . . . . 0.4343 *
*
* INCORRECT ACCESS PROBABILITY . . . . . 0 *
* ACCESS DENIAL PROBABILITY . . . . . 0 *
* ACCESS OUTAGE PROBABILITY . . . . . 0 *
*
*-----*-----*
* REDUCTION SPECIFICATIONS *
*-----*-----*
* SPECIFIED ACCESS TIME . . . . . 80.000 SEC *
* SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000 *
*****

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* NTIA-ITS (Boulder) . . . . . 3108 *
*-----*-----*
*                                SOURCE *
*                                DISENGAGEMENT ASSESSMENT SUMMARY *
*                                *
*****
*                                PERFORMANCE STATISTICS                                *
*-----*-----*
* DISENGAGEMENT ATTEMPTS . . . . . 100 (+) *
* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100 *
* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 *
* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 *
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE *
*
*-----*-----*
* MEASURED PERFORMANCE PARAMETER VALUES *
*-----*-----*
* DISENGAGEMENT TIME . . . . . 0.280 SEC *
* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0031 *
*
* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 *
*
*-----*-----*
* REDUCTION SPECIFICATIONS *
*-----*-----*
* SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC *
* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000 *
*
* SPECIFIED ACCESS TIME . . . . . 80.000 SEC *
*****

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* NTIA-ITS (Boulder) . . . . . 3108 *
*-----*-----*

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*****
*                                DESTINATION *
*                                DISENGAGEMENT ASSESSMENT SUMMARY *
*                                *
*****
*                                PERFORMANCE STATISTICS                                *
*-----*-----*
* DISENGAGEMENT ATTEMPTS . . . . . 100 (+) *
* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100 *
* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 *
* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 *
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE *
*
*-----*-----*
* MEASURED PERFORMANCE PARAMETER VALUES *
*-----*-----*
* DISENGAGEMENT TIME . . . . . 0.307 SEC *
* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.2863 *
*
* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 *
*
*-----*-----*
* REDUCTION SPECIFICATIONS *
*-----*-----*
* SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC *
* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000 *
*
* SPECIFIED ACCESS TIME . . . . . 80.000 SEC *
*****

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PERFORMANCE ASSESSMENT SUMMARY

NTIA-ITS (Boulder) 3109

PERFORMANCE DATA BATCH

NTIA-ITS (Boulder) 3109

SOURCE USER . . . . . NTIA - x.25 over ckt channel

DESTINATION USER . . . . . NTIA - characterize testsets

ORIGINATING USER . . . . . SOURCE

SESSION CATEGORY . . . . . CONNECTION ORIENTED

INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED

MEASUREMENT START TIME . . . . . 05/03/94 15:53:00.992 LT

MEASUREMENT END TIME . . . . . 05/03/94 16:10:41.769 LT

(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

NTIA-ITS (Boulder) 3109

SOURCE  
DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 100 (+)

'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100

'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 0.282 SEC

USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0012

DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC

SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000

SPECIFIED ACCESS TIME . . . . . 80.000 SEC

NTIA-ITS (Boulder) 3109

ACCESS ASSESSMENT SUMMARY

DESTINATION  
DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

ACCESS ATTEMPTS . . . . . 100 (+)

'SUCCESSFUL ACCESS' OUTCOMES . . . . . 100

'INCORRECT ACCESS' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0

'ACCESS DENIAL' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0

'ACCESS OUTAGE' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

ACCESS TIME . . . . . 0.301 SEC

USER FRACTION OF ACCESS TIME . . . . . 0.3927

INCORRECT ACCESS PROBABILITY . . . . . 0

ACCESS DENIAL PROBABILITY . . . . . 0

ACCESS OUTAGE PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED ACCESS TIME . . . . . 80.000 SEC

SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 100 (+)

'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100

'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 0.309 SEC

USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.2935

DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC

SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000

SPECIFIED ACCESS TIME . . . . . 80.000 SEC

\*\*\*\*\*  
 \* PERFORMANCE ASSESSMENT SUMMARY \*  
 \* \*\*\*\*\*

PERFORMANCE DATA BATCH  
 -----  
 NTIA-ITS (Boulder) 3110  
 -----  
 SOURCE USER . . . . . NTIA - x.25 over ckt channel  
 DESTINATION USER . . . . . NTIA - characterize testsets  
 ORIGINATING USER . . . . . SOURCE  
 -----  
 SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
 MEASUREMENT START TIME . . . . . 05/03/94 16:21:54.024 LT  
 MEASUREMENT END TIME . . . . . 05/03/94 16:39:29.174 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

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 NTIA-ITS (Boulder) 3110  
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\*\*\*\*\*  
 \* ACCESS ASSESSMENT SUMMARY \*  
 \* \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 ACCESS ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 100  
 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE  
 -----  
 MEASURED PERFORMANCE PARAMETER VALUES  
 -----  
 ACCESS TIME . . . . . 0.242 SEC  
 USER FRACTION OF ACCESS TIME . . . . . 0.3716  
 INCORRECT ACCESS PROBABILITY . . . . . 0  
 ACCESS DENIAL PROBABILITY . . . . . 0  
 ACCESS OUTAGE PROBABILITY . . . . . 0  
 -----  
 REDUCTION SPECIFICATIONS  
 -----  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC  
 SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000

-----  
 NTIA-ITS (Boulder) 3110  
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\*\*\*\*\*  
 \* SOURCE DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \* \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 DISENGAGEMENT ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE  
 -----  
 MEASURED PERFORMANCE PARAMETER VALUES  
 -----  
 DISENGAGEMENT TIME . . . . . 0.281 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0020  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0  
 -----  
 REDUCTION SPECIFICATIONS  
 -----  
 SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC

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 NTIA-ITS (Boulder) 3110  
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\*\*\*\*\*  
 \* DESTINATION DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \* \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 DISENGAGEMENT ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE  
 -----  
 MEASURED PERFORMANCE PARAMETER VALUES  
 -----  
 DISENGAGEMENT TIME . . . . . 0.308 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.2885  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0  
 -----  
 REDUCTION SPECIFICATIONS  
 -----  
 SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC

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*
* PERFORMANCE ASSESSMENT SUMMARY
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*
* PERFORMANCE DATA BATCH
*
*-----
* NTIA-ITS (Boulder) 3201
*-----
*
* SOURCE USER . . . . . NTIA - ISDN
* DESTINATION USER . . . . . NTIA - testset char.
* ORIGINATING USER . . . . . SOURCE
*
* SESSION CATEGORY . . . . . CONNECTION ORIENTED
* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
* MEASUREMENT START TIME . . . . . 10/25/94 08:24:56.938 LT
* MEASUREMENT END TIME . . . . . 10/25/94 08:46:45.524 LT
* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)
*
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* NTIA-ITS (Boulder) 3201
*-----
*
* SOURCE
* DISENGAGEMENT ASSESSMENT SUMMARY
*
*
*-----
* PERFORMANCE STATISTICS
*-----
*
* DISENGAGEMENT ATTEMPTS . . . . . 40 (+)
* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40
* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*-----
* MEASURED PERFORMANCE PARAMETER VALUES
*-----
*
* DISENGAGEMENT TIME . . . . . 2.702 SEC
* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0338
* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0
*
*-----
* REDUCTION SPECIFICATIONS
*-----
*
* SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC
* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000
* SPECIFIED ACCESS TIME . . . . . 80.000 SEC
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* NTIA-ITS (Boulder) 3201
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*****
*
* ACCESS ASSESSMENT SUMMARY
*
*
*-----
* PERFORMANCE STATISTICS
*-----
*
* ACCESS ATTEMPTS . . . . . 40 (+)
* 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 40
* 'INCORRECT ACCESS' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0
* 'ACCESS DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0
* 'ACCESS OUTAGE' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*-----
* MEASURED PERFORMANCE PARAMETER VALUES
*-----
*
* ACCESS TIME . . . . . 15.114 SEC
* USER FRACTION OF ACCESS TIME . . . . . 0.0070
*
* INCORRECT ACCESS PROBABILITY . . . . . 0
* ACCESS DENIAL PROBABILITY . . . . . 0
* ACCESS OUTAGE PROBABILITY . . . . . 0
*
*-----
* REDUCTION SPECIFICATIONS
*-----
*
* SPECIFIED ACCESS TIME . . . . . 80.000 SEC
* SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000
*
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* NTIA-ITS (Boulder) 3201
*-----

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*****
*
* DESTINATION
* DISENGAGEMENT ASSESSMENT SUMMARY
*
*
*-----
* PERFORMANCE STATISTICS
*-----
*
* DISENGAGEMENT ATTEMPTS . . . . . 40 (+)
* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40
* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*-----
* MEASURED PERFORMANCE PARAMETER VALUES
*-----
*
* DISENGAGEMENT TIME . . . . . 1.525 SEC
* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0488
* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0
*
*-----
* REDUCTION SPECIFICATIONS
*-----
*
* SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC
* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000
* SPECIFIED ACCESS TIME . . . . . 80.000 SEC
*
*****

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\*\*\*\*\*  
 \* PERFORMANCE ASSESSMENT SUMMARY \*  
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\*\*\*\*\*  
 \* PERFORMANCE DATA BATCH \*  
 \*\*\*\*\*  
 \* NTIA-ITS (Boulder) 3202 \*  
 \*\*\*\*\*  
 \* SOURCE USER . . . . . NTIA - ISDN \*  
 \* DESTINATION USER . . . . . NTIA - testset char. \*  
 \* ORIGINATING USER . . . . . SOURCE \*  
 \* SESSION CATEGORY . . . . . CONNECTION ORIENTED \*  
 \* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED \*  
 \* MEASUREMENT START TIME . . . . . 10/25/94 10:20:08.857 LT \*  
 \* MEASUREMENT END TIME . . . . . 10/25/94 10:41:55.795 LT \*  
 \* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE) \*  
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 NTIA-ITS (Boulder) 3202  
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\*\*\*\*\*  
 \* ACCESS ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

\*\*\*\*\*  
 \* PERFORMANCE STATISTICS \*  
 \*\*\*\*\*  
 \* ACCESS ATTEMPTS . . . . . 40 (+) \*  
 \* 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 40 \*  
 \* 'INCORRECT ACCESS' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0 \*  
 \* 'ACCESS DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0 \*  
 \* 'ACCESS OUTAGE' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \* -----  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \* -----  
 \* ACCESS TIME . . . . . 15.127 SEC \*  
 \* USER FRACTION OF ACCESS TIME . . . . . 0.0072 \*  
 \* INCORRECT ACCESS PROBABILITY . . . . . 0 \*  
 \* ACCESS DENIAL PROBABILITY . . . . . 0 \*  
 \* ACCESS OUTAGE PROBABILITY . . . . . 0 \*  
 \* -----  
 \* REDUCTION SPECIFICATIONS \*  
 \* -----  
 \* SPECIFIED ACCESS TIME . . . . . 80.000 SEC \*  
 \* SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000 \*  
 \*\*\*\*\*

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 NTIA-ITS (Boulder) 3202  
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\*\*\*\*\*  
 \* SOURCE \*  
 \* DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

\*\*\*\*\*  
 \* PERFORMANCE STATISTICS \*  
 \*\*\*\*\*  
 \* DISENGAGEMENT ATTEMPTS . . . . . 40 (+) \*  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40 \*  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \* -----  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \* -----  
 \* DISENGAGEMENT TIME . . . . . 2.649 SEC \*  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0345 \*  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 \*  
 \* -----  
 \* REDUCTION SPECIFICATIONS \*  
 \* -----  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC \*  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000 \*  
 \* SPECIFIED ACCESS TIME . . . . . 80.000 SEC \*  
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 NTIA-ITS (Boulder) 3202  
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\*\*\*\*\*  
 \* DESTINATION \*  
 \* DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

\*\*\*\*\*  
 \* PERFORMANCE STATISTICS \*  
 \*\*\*\*\*  
 \* DISENGAGEMENT ATTEMPTS . . . . . 40 (+) \*  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40 \*  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \* -----  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \* -----  
 \* DISENGAGEMENT TIME . . . . . 1.527 SEC \*  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0487 \*  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 \*  
 \* -----  
 \* REDUCTION SPECIFICATIONS \*  
 \* -----  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC \*  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000 \*  
 \* SPECIFIED ACCESS TIME . . . . . 80.000 SEC \*  
 \*\*\*\*\*

\*\*\*\*\*  
 \* PERFORMANCE ASSESSMENT SUMMARY \*  
 \* \*\*\*\*\*

PERFORMANCE DATA BATCH  
 -----  
 NTIA-ITS (Boulder) 3203  
 -----  
 SOURCE USER . . . . . NTIA - ISDN  
 DESTINATION USER . . . . . NTIA - testset char.  
 ORIGINATING USER . . . . . SOURCE  
 SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
 MEASUREMENT START TIME . . . . . 10/25/94 08:51:22.866 LT  
 MEASUREMENT END TIME . . . . . 10/25/94 09:13:10.879 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

-----  
 NTIA-ITS (Boulder) 3203  
 -----

\*\*\*\*\*  
 \* ACCESS ASSESSMENT SUMMARY \*  
 \* \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 ACCESS ATTEMPTS . . . . . 40 (+)  
 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 40  
 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE  
 -----  
 MEASURED PERFORMANCE PARAMETER VALUES  
 -----  
 ACCESS TIME . . . . . 15.108 SEC  
 USER FRACTION OF ACCESS TIME . . . . . 0.0074  
 INCORRECT ACCESS PROBABILITY . . . . . 0  
 ACCESS DENIAL PROBABILITY . . . . . 0  
 ACCESS OUTAGE PROBABILITY . . . . . 0  
 -----  
 REDUCTION SPECIFICATIONS  
 -----  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC  
 SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000

-----  
 NTIA-ITS (Boulder) 3203  
 -----

\*\*\*\*\*  
 \* SOURCE DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \* \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 DISENGAGEMENT ATTEMPTS . . . . . 40 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE  
 -----  
 MEASURED PERFORMANCE PARAMETER VALUES  
 -----  
 DISENGAGEMENT TIME . . . . . 2.693 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0339  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0  
 -----  
 REDUCTION SPECIFICATIONS  
 -----  
 SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC

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 NTIA-ITS (Boulder) 3203  
 -----

\*\*\*\*\*  
 \* DESTINATION DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \* \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 DISENGAGEMENT ATTEMPTS . . . . . 40 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE  
 -----  
 MEASURED PERFORMANCE PARAMETER VALUES  
 -----  
 DISENGAGEMENT TIME . . . . . 1.521 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0489  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0  
 -----  
 REDUCTION SPECIFICATIONS  
 -----  
 SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC



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*****
*
* PERFORMANCE ASSESSMENT SUMMARY
*
*****
*
* PERFORMANCE DATA BATCH
*
-----
* NTIA-ITS (Boulder) 3204
*
* SOURCE USER . . . . . NTIA - ISDN
* DESTINATION USER . . . . . NTIA - testset char.
* ORIGINATING USER . . . . . SOURCE
*
* SESSION CATEGORY . . . . . CONNECTION ORIENTED
* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
*
* MEASUREMENT START TIME . . . . . 10/25/94 09:16:24.858 LT
* MEASUREMENT END TIME . . . . . 10/25/94 09:38:13.036 LT
*
* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)
*
*****
*
-----
* NTIA-ITS (Boulder) 3204
*

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```

*****
* ACCESS ASSESSMENT SUMMARY
*
*****
*
* PERFORMANCE STATISTICS
*
* ACCESS ATTEMPTS . . . . . 40 (+)
* 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 40
* 'INCORRECT ACCESS' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0
* 'ACCESS DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0
* 'ACCESS OUTAGE' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*
* MEASURED PERFORMANCE PARAMETER VALUES
*
* ACCESS TIME . . . . . 15.123 SEC
* USER FRACTION OF ACCESS TIME . . . . . 0.0070
*
* INCORRECT ACCESS PROBABILITY . . . . . 0
* ACCESS DENIAL PROBABILITY . . . . . 0
* ACCESS OUTAGE PROBABILITY . . . . . 0
*
*
* REDUCTION SPECIFICATIONS
*
* SPECIFIED ACCESS TIME . . . . . 80.000 SEC
* SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000
*

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-----
* NTIA-ITS (Boulder) 3204
*
*****
* SOURCE
* DISENGAGEMENT ASSESSMENT SUMMARY
*
*****
*
* PERFORMANCE STATISTICS
*
* DISENGAGEMENT ATTEMPTS . . . . . 40 (+)
* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40
* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*
* MEASURED PERFORMANCE PARAMETER VALUES
*
* DISENGAGEMENT TIME . . . . . 2.678 SEC
* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0341
* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0
*
*
* REDUCTION SPECIFICATIONS
*
* SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC
* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000
* SPECIFIED ACCESS TIME . . . . . 80.000 SEC
*
-----
* NTIA-ITS (Boulder) 3204
*

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*****
* DESTINATION
* DISENGAGEMENT ASSESSMENT SUMMARY
*
*****
*
* PERFORMANCE STATISTICS
*
* DISENGAGEMENT ATTEMPTS . . . . . 40 (+)
* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40
* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*
* MEASURED PERFORMANCE PARAMETER VALUES
*
* DISENGAGEMENT TIME . . . . . 1.520 SEC
* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0490
* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0
*
*
* REDUCTION SPECIFICATIONS
*
* SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC
* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000
* SPECIFIED ACCESS TIME . . . . . 80.000 SEC
*

```



## APPENDIX B

This appendix contains the preliminary characterization test result summaries. Each test was run five times and the combined results are analyzed in Section 3.

Table B1 shows the test number and a description of the test.<sup>14</sup> The following pages are arranged as follows: modem service tests first, X.25 via circuit service tests second, X.25 via packet service tests third, and the ISDN service tests last. The test summaries contain information to identify the test, an assessment summary, the measured performance parameter values (mean values over all the trials), and reduction specifications (i.e., the specified values used). In addition, for the User Information Transfer tests, a correlation summary and specifications are included.

The specified values used to determine the preliminary characterization parameter values were set low enough so that all data would be used to determine the mean values. The specified values used are the same as used for the test set characterization. The specified values were set so that no data would be excluded in determining the measured mean value of the performance parameters. These measured mean values were used as the specified values in the full characterization tests.

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<sup>14</sup> In the table, A/D stands for Access/Disengagement, CKT stands for circuit, and PKT stands for packet. The symbol "--" in the "Measured BER" column means that during these tests, BER measurements were not recorded.

Table B1. Summaries of Individual Preliminary Characterization Tests

Test #	Date	Eb/No (dB)	Measured BER	# of Trials	Summary
5121	5/6/94	25.0	0 errors	50	Modem UIT test - 4000 bytes/block and 0 seconds between trials
5122	5/6/94	25.0	0 errors	50	"
5123	5/6/94	25.0	0 errors	50	"
5124	5/6/94	25.0	0 errors	50	"
5125	5/6/94	25.0	0 errors	50	"
5126	5/6/94	25.0	0 errors	20	Modem A/D test - 2000 bytes/block and 30 seconds between trials
5127	5/6/94	25.0	0 errors	20	"
5128	5/6/94	25.0	0 errors	20	" (except 10 seconds between trials)
5129	5/6/94	25.0	0 errors	20	"
5130	5/6/94	25.0	0 errors	20	" (except 30 seconds between trials)
5006	5/4/94	25.0	0 errors	100	X.25 over CKT switched channel A/D test - 2000 byte/block and 10 seconds between trials
5007	5/4/94	25.0	0 errors	100	"
5008	5/4/94	25.0	0 errors	100	"
5009	5/4/94	25.0	0 errors	100	"
5010	5/4/94	25.0	0 errors	100	"
5011	11/1/94	21.2	--	50	X.25 over CKT switched channel UIT test - 4000 bytes/block and 0 seconds between trials
5012	11/1/94	21.2	--	50	"
5013	11/1/94	21.2	--	50	"
5014	11/1/94	21.2	--	50	"
5015	11/1/94	21.2	--	50	"

Table B1 (continued). Summaries of Individual Preliminary Characterization Tests

Test #	Date	Eb/No (dB)	Measured BER	# of Trials	Summary
5201	11/2/94	21.5	0 errors	50	X.25 over PKT switched channel UIT test - 4000 bytes/block and 0 seconds between trials
5202	11/2/94	21.5	0 errors	50	"
5203	11/2/94	21.5	0 errors	50	"
5204	11/2/94	20.9	0 errors	50	"
5205	11/2/94	20.9	0 errors	50	"
5206	11/2/94	20.9	--	100	X.25 over PKT switched channel A/D test - 4000 bytes/block and 10 seconds between trials
5207	11/3/94	20.9	0 errors	100	"
5208	11/3/94	20.9	0 errors	100	"
5209	11/3/94	20.9	0 errors	100	"
5210	11/3/94	20.9	0 errors	100	"
5506	10/25/94	10.6	--	40	ISDN A/D test - 2000 bytes/block and 10 seconds between trials
5507	10/25/94	20.9	--	40	"
5508	10/25/94	20.9	--	40	"
5509	10/27/94	20.9	--	40	"
5510	10/27/94	21.2	--	40	"

PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

```

-----
NTIA-ITS (Boulder)                               5121
-----
SOURCE USER . . . . . NTIA - modem service
DESTINATION USER . . . . . NTIA - over ACTS
ORIGINATING USER . . . . . SOURCE

SESSION CATEGORY . . . . . CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED

MEASUREMENT START TIME . . . . . 05/06/94 09:05:09.556 LT
MEASUREMENT END TIME . . . . . 05/06/94 09:09:34.760 LT

(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)
    
```

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-----
NTIA-ITS (Boulder)                               5121
-----
    
```

USER INFORMATION TRANSFER ASSESSMENT SUMMARY

CORRELATION SUMMARY

```

CORRELATOR OUTPUT BLOCKS . . . . . 50
* BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000
* 'CORRECT' BCOS . . . . . 1600000
* 'INCORRECT' BCOS . . . . . 0
* 'UNDELIVERED' BCOS . . . . . 0
* 'EXTRA' BCOS . . . . . 0

SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50
SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50

SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000
SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000

DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50
DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50

DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000
DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000
    
```

CORRELATOR SPECIFICATIONS

```

-----
USER INFORMATION WINDOW SIZE . . . . . 16 BITS
* MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR
  IDENTIFICATION ALGORITHM . . . . . 256 BITS
* MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT
  IDENTIFICATION ALGORITHM . . . . . 8192 BITS
* MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT
  IDENTIFICATION ALGORITHM . . . . . 8192 BITS
    
```

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-----
NTIA-ITS (Boulder)                               5121
-----
    
```

USER INFORMATION TRANSFER ASSESSMENT SUMMARY (CONTINUED)

PERFORMANCE STATISTICS

```

-----
BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)
* 'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000
* 'INCORRECT BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0
* 'LOST BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0
* 'EXTRA BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0

BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)
* 'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50
* 'INCORRECT BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0
* 'LOST BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0
* 'EXTRA BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0

TRANSFER SAMPLES . . . . . 49 (+)
* 'TRANSFER DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0
    
```

```

INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 195.936 SEC
* USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.849 SEC
* OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 204.234 SEC
* USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 2.079 SEC
* BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000
* 'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000
* BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49
    
```

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

```

-----
NTIA-ITS (Boulder)                               5121
-----
    
```

USER INFORMATION TRANSFER ASSESSMENT SUMMARY (CONTINUED)

MEASURED PERFORMANCE PARAMETER VALUES

```

* BIT ERROR PROBABILITY . . . . . 0
* BIT LOSS PROBABILITY . . . . . 0
* EXTRA BIT PROBABILITY . . . . . 0

BLOCK TRANSFER TIME . . . . . 12.540 SEC
* USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0097

BLOCK ERROR PROBABILITY . . . . . 0
* BLOCK LOSS PROBABILITY . . . . . 0
* EXTRA BLOCK PROBABILITY . . . . . 0

TRANSFER DENIAL PROBABILITY . . . . . 0

USER INFORMATION BIT TRANSFER RATE . . . . . 7677 BPS
* USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0102
    
```

REDUCTION SPECIFICATIONS

```

-----
SPECIFIED BLOCK TRANSFER TIME . . . . . 6.000 SEC
* SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.5000

* SPECIFIED USER INFORMATION BIT TRANSFER RATE
  FOR TRANSFER SAMPLE . . . . . 1000 BPS
* SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME
  FOR TRANSFER SAMPLE . . . . . 0.5000

* SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
* SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
* SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)

MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS
  IN TRANSFER SAMPLE . . . . . 30000
    
```

PERFORMANCE ASSESSMENT SUMMARY

```

-----
NTIA-ITS (Boulder)                    5122
-----
SOURCE USER . . . . . NTIA - modem service
DESTINATION USER . . . . . NTIA - over ACTS
ORIGINATING USER . . . . . SOURCE

SESSION CATEGORY . . . . . CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED

MEASUREMENT START TIME . . . . . 05/06/94 09:10:26.847 LT
MEASUREMENT END TIME . . . . . 05/06/94 09:14:50.845 LT

(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

```

```

-----
NTIA-ITS (Boulder)                    5122
-----

```

USER INFORMATION TRANSFER ASSESSMENT SUMMARY

```

-----
CORRELATION SUMMARY
-----
CORRELATOR OUTPUT BLOCKS . . . . . 50
* BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000
* 'CORRECT' BCOS . . . . . 1600000
* 'INCORRECT' BCOS . . . . . 0
* 'UNDELIVERED' BCOS . . . . . 0
* 'EXTRA' BCOS . . . . . 0

SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50
SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50

SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000
SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000

DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50
DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50

DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000
DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000

-----
CORRELATOR SPECIFICATIONS
-----
USER INFORMATION WINDOW SIZE . . . . . 16 BITS
MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR
IDENTIFICATION ALGORITHM . . . . . 256 BITS
MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT
IDENTIFICATION ALGORITHM . . . . . 8192 BITS
MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT
IDENTIFICATION ALGORITHM . . . . . 8192 BITS

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-----
NTIA-ITS (Boulder)                    5122
-----

```

USER INFORMATION TRANSFER ASSESSMENT SUMMARY  
(CONTINUED)

PERFORMANCE STATISTICS

```

BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)
'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000
'INCORRECT BIT' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0
'LOST BIT' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0
'EXTRA BIT' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0

BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)
'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50
'INCORRECT BLOCK' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0
'LOST BLOCK' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0
'EXTRA BLOCK' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0

TRANSFER SAMPLES . . . . . 49 (+)
'TRANSFER DENIAL' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0

INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 195.936 SEC
USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.769 SEC
OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 204.235 SEC
USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 2.000 SEC
BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000
'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000
BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49

(+ ) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

```

```

-----
NTIA-ITS (Boulder)                    5122
-----

```

USER INFORMATION TRANSFER ASSESSMENT SUMMARY  
(CONTINUED)

MEASURED PERFORMANCE PARAMETER VALUES

```

BIT ERROR PROBABILITY . . . . . 0
BIT LOSS PROBABILITY . . . . . 0
EXTRA BIT PROBABILITY . . . . . 0

BLOCK TRANSFER TIME . . . . . 12.542 SEC
USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0094

BLOCK ERROR PROBABILITY . . . . . 0
BLOCK LOSS PROBABILITY . . . . . 0
EXTRA BLOCK PROBABILITY . . . . . 0

TRANSFER DENIAL PROBABILITY . . . . . 0

USER INFORMATION BIT TRANSFER RATE . . . . . 7677 BPS
USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0098

-----
REDUCTION SPECIFICATIONS
-----
SPECIFIED BLOCK TRANSFER TIME . . . . . 6.000 SEC
SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.5000

SPECIFIED USER INFORMATION BIT TRANSFER RATE
FOR TRANSFER SAMPLE . . . . . 1000 BPS
SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME
FOR TRANSFER SAMPLE . . . . . 0.5000

SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)

MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS
IN TRANSFER SAMPLE . . . . . 30000

```

PERFORMANCE ASSESSMENT SUMMARY

-----  
 NTIA-ITS (Boulder) 5123  
 -----  
 SOURCE USER . . . . . NTIA - modem service  
 DESTINATION USER . . . . . NTIA - over ACTS  
 ORIGINATING USER . . . . . SOURCE  
 -----  
 SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
 -----  
 MEASUREMENT START TIME . . . . . 05/06/94 09:15:13.839 LT  
 MEASUREMENT END TIME . . . . . 05/06/94 09:19:37.860 LT  
 -----  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

-----  
 NTIA-ITS (Boulder) 5123  
 -----

-----  
 NTIA-ITS (Boulder) 5123  
 -----

USER INFORMATION TRANSFER ASSESSMENT SUMMARY  
 (CONTINUED)

-----  
 PERFORMANCE STATISTICS  
 -----

BIT TRANSFER ATTEMPTS . . . . .	1600000 (+)
'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . .	1600000
'INCORRECT BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . .	0
'LOST BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . .	0
'EXTRA BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . .	0
-----	-----
BLOCK TRANSFER ATTEMPTS . . . . .	50 (+)
'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . .	50
'INCORRECT BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . .	0
'LOST BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . .	0
'EXTRA BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . .	0
-----	-----
TRANSFER SAMPLES . . . . .	49 (+)
'TRANSFER DENIAL' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . .	0
-----	-----
INPUT TIME FOR THROUGHPUT SAMPLE . . . . .	195.938 SEC
USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . .	1.773 SEC
OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . .	204.234 SEC
USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . .	1.986 SEC
BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . .	1568000
'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . .	1568000
BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . .	49

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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 NTIA-ITS (Boulder) 5123  
 -----

USER INFORMATION TRANSFER ASSESSMENT SUMMARY

-----  
 CORRELATION SUMMARY  
 -----

CORRELATOR OUTPUT BLOCKS . . . . .	50
BIT COMPARISON OUTCOMES (BCOS) . . . . .	1600000
'CORRECT' BCOS . . . . .	1600000
'INCORRECT' BCOS . . . . .	0
'UNDELIVERED' BCOS . . . . .	0
'EXTRA' BCOS . . . . .	0
-----	-----
SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . .	50
SOURCE USER INFORMATION BLOCKS CORRELATED . . . . .	50
-----	-----
SOURCE USER INFORMATION BITS TRANSMITTED . . . . .	1600000
SOURCE USER INFORMATION BITS CORRELATED . . . . .	1600000
-----	-----
DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . .	50
DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . .	50
-----	-----
DESTINATION USER INFORMATION BITS RECEIVED . . . . .	1600000
DESTINATION USER INFORMATION BITS CORRELATED . . . . .	1600000

-----  
 CORRELATOR SPECIFICATIONS  
 -----

USER INFORMATION WINDOW SIZE . . . . .	16 BITS
-----	-----
MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR IDENTIFICATION ALGORITHM . . . . .	256 BITS
MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT IDENTIFICATION ALGORITHM . . . . .	8192 BITS
MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT IDENTIFICATION ALGORITHM . . . . .	8192 BITS

USER INFORMATION TRANSFER ASSESSMENT SUMMARY  
 (CONTINUED)

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 MEASURED PERFORMANCE PARAMETER VALUES  
 -----

BIT ERROR PROBABILITY . . . . .	0
BIT LOSS PROBABILITY . . . . .	0
EXTRA BIT PROBABILITY . . . . .	0
-----	-----
BLOCK TRANSFER TIME . . . . .	12.542 SEC
USER FRACTION OF BLOCK TRANSFER TIME . . . . .	0.0093
-----	-----
BLOCK ERROR PROBABILITY . . . . .	0
BLOCK LOSS PROBABILITY . . . . .	0
EXTRA BLOCK PROBABILITY . . . . .	0
-----	-----
TRANSFER DENIAL PROBABILITY . . . . .	0
-----	-----
USER INFORMATION BIT TRANSFER RATE . . . . .	7677 BPS
USER FRACTION OF INPUT/OUTPUT TIME . . . . .	0.0097

-----  
 REDUCTION SPECIFICATIONS  
 -----

SPECIFIED BLOCK TRANSFER TIME . . . . .	6.000 SEC
SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . .	0.5000
-----	-----
SPECIFIED USER INFORMATION BIT TRANSFER RATE FOR TRANSFER SAMPLE . . . . .	1000 BPS
SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME FOR TRANSFER SAMPLE . . . . .	0.5000
-----	-----
SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-08)
SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-08)
SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-08)
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MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS IN TRANSFER SAMPLE . . . . .	30000



PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

-----

NTIA-ITS (Boulder) 5124

-----

SOURCE USER . . . . . NTIA - modem service

DESTINATION USER . . . . . NTIA - over ACTS

ORIGINATING USER . . . . . SOURCE

SESSION CATEGORY . . . . . CONNECTION ORIENTED

INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED

MEASUREMENT START TIME . . . . . 05/06/94 09:20:12.849 LT

MEASUREMENT END TIME . . . . . 05/06/94 09:24:36.924 LT

(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

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NTIA-ITS (Boulder) 5124

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USER INFORMATION TRANSFER ASSESSMENT SUMMARY

-----

CORRELATION SUMMARY

-----

CORRELATOR OUTPUT BLOCKS . . . . . 50

BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000

'CORRECT' BCOS . . . . . 1600000

'INCORRECT' BCOS . . . . . 0

'UNDELIVERED' BCOS . . . . . 0

'EXTRA' BCOS . . . . . 0

SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50

SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50

SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000

SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000

DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50

DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50

DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000

DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000

-----

CORRELATOR SPECIFICATIONS

-----

USER INFORMATION WINDOW SIZE . . . . . 16 BITS

MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR IDENTIFICATION ALGORITHM . . . . . 256 BITS

MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT IDENTIFICATION ALGORITHM . . . . . 8192 BITS

MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT IDENTIFICATION ALGORITHM . . . . . 8192 BITS

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NTIA-ITS (Boulder) 5124

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USER INFORMATION TRANSFER ASSESSMENT SUMMARY (CONTINUED)

-----

PERFORMANCE STATISTICS

-----

BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)

'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000

'INCORRECT BIT' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0

'LOST BIT' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0

'EXTRA BIT' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0

BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)

'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50

'INCORRECT BLOCK' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0

'LOST BLOCK' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0

'EXTRA BLOCK' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0

TRANSFER SAMPLES . . . . . 49 (+)

'TRANSFER DENIAL' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0

INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 195.938 SEC

USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.768 SEC

OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 204.235 SEC

USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 2.001 SEC

BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000

'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000

BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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NTIA-ITS (Boulder) 5124

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USER INFORMATION TRANSFER ASSESSMENT SUMMARY (CONTINUED)

-----

MEASURED PERFORMANCE PARAMETER VALUES

-----

BIT ERROR PROBABILITY . . . . . 0

BIT LOSS PROBABILITY . . . . . 0

EXTRA BIT PROBABILITY . . . . . 0

BLOCK TRANSFER TIME . . . . . 12.542 SEC

USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0094

BLOCK ERROR PROBABILITY . . . . . 0

BLOCK LOSS PROBABILITY . . . . . 0

EXTRA BLOCK PROBABILITY . . . . . 0

TRANSFER DENIAL PROBABILITY . . . . . 0

USER INFORMATION BIT TRANSFER RATE . . . . . 7677 BPS

USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0098

-----

REDUCTION SPECIFICATIONS

-----

SPECIFIED BLOCK TRANSFER TIME . . . . . 6.000 SEC

SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.5000

SPECIFIED USER INFORMATION BIT TRANSFER RATE FOR TRANSFER SAMPLE . . . . . 1000 BPS

SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME FOR TRANSFER SAMPLE . . . . . 0.5000

SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)

SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)

SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)

MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS IN TRANSFER SAMPLE . . . . . 30000

PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

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NTIA-ITS (Boulder)                               5125
-----

SOURCE USER . . . . . NTIA - modem service
DESTINATION USER . . . . . NTIA - over ACTS
ORIGINATING USER . . . . . SOURCE

SESSION CATEGORY . . . . . CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED

MEASUREMENT START TIME . . . . . 05/06/94 16:16:48.852 LT
MEASUREMENT END TIME . . . . . 05/06/94 16:21:12.365 LT

(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

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NTIA-ITS (Boulder)                               5125
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY

CORRELATION SUMMARY

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CORRELATOR OUTPUT BLOCKS . . . . . 50
BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000
'CORRECT' BCOS . . . . . 1600000
'INCORRECT' BCOS . . . . . 0
'UNDELIVERED' BCOS . . . . . 0
'EXTRA' BCOS . . . . . 0

SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50
SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50

SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000
SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000

DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50
DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50

DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000
DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000

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CORRELATOR SPECIFICATIONS

```

USER INFORMATION WINDOW SIZE . . . . . 16 BITS
MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR
IDENTIFICATION ALGORITHM . . . . . 256 BITS
MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT
IDENTIFICATION ALGORITHM . . . . . 8192 BITS
MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT
IDENTIFICATION ALGORITHM . . . . . 8192 BITS

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NTIA-ITS (Boulder)                               5125
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY  
(CONTINUED)

PERFORMANCE STATISTICS

```

BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)
'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000
'INCORRECT BIT' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0
'LOST BIT' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0
'EXTRA BIT' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0

BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)
'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50
'INCORRECT BLOCK' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0
'LOST BLOCK' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0
'EXTRA BLOCK' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0

TRANSFER SAMPLES . . . . . 49 (+)
'TRANSFER DENIAL' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0

INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 195.936 SEC
USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.771 SEC
OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 204.240 SEC
USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.994 SEC
BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000
'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000
BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49

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(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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NTIA-ITS (Boulder)                               5125
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY  
(CONTINUED)

MEASURED PERFORMANCE PARAMETER VALUES

```

BIT ERROR PROBABILITY . . . . . 0
USER LOSS PROBABILITY . . . . . 1.771 SEC
EXTRA BIT PROBABILITY . . . . . 0

BLOCK TRANSFER TIME . . . . . 12.545 SEC
USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0093

BLOCK ERROR PROBABILITY . . . . . 0
BLOCK LOSS PROBABILITY . . . . . 0
EXTRA BLOCK PROBABILITY . . . . . 0

TRANSFER DENIAL PROBABILITY . . . . . 0

USER INFORMATION BIT TRANSFER RATE . . . . . 7677 BPS
USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0098

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REDUCTION SPECIFICATIONS

```

SPECIFIED BLOCK TRANSFER TIME . . . . . 6.000 SEC
SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.5000

SPECIFIED USER INFORMATION BIT TRANSFER RATE
FOR TRANSFER SAMPLE . . . . . 1000 BPS
SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME
FOR TRANSFER SAMPLE . . . . . 0.5000

SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)

MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS
IN TRANSFER SAMPLE . . . . . 30000

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PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

-----  
NTIA-ITS (Boulder) 5126  
-----  
SOURCE USER . . . . . NTIA - modem service  
DESTINATION USER . . . . . NTIA - over ACTS  
ORIGINATING USER . . . . . SOURCE  
  
SESSION CATEGORY . . . . . CONNECTION ORIENTED  
INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
  
MEASUREMENT START TIME . . . . . 05/16/94 08:35:35.911 LT  
MEASUREMENT END TIME . . . . . 05/16/94 09:05:31.141 LT  
(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

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NTIA-ITS (Boulder) 5126  
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ACCESS ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

-----  
ACCESS ATTEMPTS . . . . . 20 (+)  
'SUCCESSFUL ACCESS' OUTCOMES . . . . . 20  
'INCORRECT ACCESS' OUTCOMES . . . . . 0  
PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
'ACCESS DENIAL' OUTCOMES . . . . . 0  
PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0  
'ACCESS OUTAGE' OUTCOMES . . . . . 0  
PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

-----  
ACCESS TIME . . . . . 50.082 SEC  
USER FRACTION OF ACCESS TIME . . . . . 0.0024  
  
INCORRECT ACCESS PROBABILITY . . . . . 0  
ACCESS DENIAL PROBABILITY . . . . . 0  
ACCESS OUTAGE PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

-----  
SPECIFIED ACCESS TIME . . . . . 80.000 SEC  
SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000  
-----

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NTIA-ITS (Boulder) 5126  
-----

SOURCE  
DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

-----  
DISENGAGEMENT ATTEMPTS . . . . . 20 (+)  
'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20  
'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

-----  
DISENGAGEMENT TIME . . . . . 6.286 SEC  
USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0143  
  
DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

-----  
SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC  
SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
  
SPECIFIED ACCESS TIME . . . . . 80.000 SEC  
-----

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NTIA-ITS (Boulder) 5126  
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DESTINATION  
DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

-----  
DISENGAGEMENT ATTEMPTS . . . . . 20 (+)  
'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20  
'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

-----  
DISENGAGEMENT TIME . . . . . 2.444 SEC  
USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0298  
  
DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

-----  
SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC  
SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
  
SPECIFIED ACCESS TIME . . . . . 80.000 SEC  
-----

PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

-----  
 NTIA-ITS (Boulder) 5127  
 -----

SOURCE USER . . . . . NTIA - modem service  
 DESTINATION USER . . . . . NTIA - over ACTS  
 ORIGINATING USER . . . . . SOURCE  
 SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
 MEASUREMENT START TIME . . . . . 05/16/94 09:08:43.845 LT  
 MEASUREMENT END TIME . . . . . 05/16/94 09:38:43.498 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

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 NTIA-ITS (Boulder) 5127  
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ACCESS ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

ACCESS ATTEMPTS . . . . . 20 (+)  
 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 20  
 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

ACCESS TIME . . . . . 49.942 SEC  
 USER FRACTION OF ACCESS TIME . . . . . 0.0024  
 INCORRECT ACCESS PROBABILITY . . . . . 0  
 ACCESS DENIAL PROBABILITY . . . . . 0  
 ACCESS OUTAGE PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED ACCESS TIME . . . . . 80.000 SEC  
 SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000

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 NTIA-ITS (Boulder) 5127  
 -----

SOURCE  
 DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 20 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 6.646 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0135  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC

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 NTIA-ITS (Boulder) 5127  
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DESTINATION  
 DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 20 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 2.445 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0298  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC

PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

-----  
 NTIA-ITS (Boulder) 5128  
 -----

SOURCE USER . . . . . NTIA - modem service  
 DESTINATION USER . . . . . NTIA - over ACTS  
 ORIGINATING USER . . . . . SOURCE

SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED

MEASUREMENT START TIME . . . . . 05/06/94 11:52:12.897 LT  
 MEASUREMENT END TIME . . . . . 05/06/94 12:16:05.767 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

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 NTIA-ITS (Boulder) 5128  
 -----

ACCESS ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

ACCESS ATTEMPTS . . . . . 20 (+)  
 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 20  
 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

ACCESS TIME . . . . . 50.379 SEC  
 USER FRACTION OF ACCESS TIME . . . . . 0.0024

INCORRECT ACCESS PROBABILITY . . . . . 0  
 ACCESS DENIAL PROBABILITY . . . . . 0  
 ACCESS OUTAGE PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED ACCESS TIME . . . . . 80.000 SEC  
 SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000

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 NTIA-ITS (Boulder) 5128  
 -----

SOURCE  
 DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 20 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 6.876 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0134

DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000

SPECIFIED ACCESS TIME . . . . . 80.000 SEC

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 NTIA-ITS (Boulder) 5128  
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DESTINATION  
 DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 20 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 2.446 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0306

DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000

SPECIFIED ACCESS TIME . . . . . 80.000 SEC

PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

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 NTIA-ITS (Boulder) 5129  
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SOURCE USER . . . . . NTIA - modem service  
 DESTINATION USER . . . . . NTIA - over ACTS  
 ORIGINATING USER . . . . . SOURCE

SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED

MEASUREMENT START TIME . . . . . 05/06/94 13:08:39.922 LT  
 MEASUREMENT END TIME . . . . . 05/06/94 13:32:22.561 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

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 NTIA-ITS (Boulder) 5129  
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ACCESS ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

ACCESS ATTEMPTS . . . . . 20 (+)  
 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 20  
 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

ACCESS TIME . . . . . 50.087 SEC  
 USER FRACTION OF ACCESS TIME . . . . . 0.0024  
 INCORRECT ACCESS PROBABILITY . . . . . 0  
 ACCESS DENIAL PROBABILITY . . . . . 0  
 ACCESS OUTAGE PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED ACCESS TIME . . . . . 80.000 SEC  
 SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000

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 NTIA-ITS (Boulder) 5129  
 -----

SOURCE  
 DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 20 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 6.656 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0135  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC

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 NTIA-ITS (Boulder) 5129  
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DESTINATION  
 DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 20 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 2.444 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0299  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC

PERFORMANCE ASSESSMENT SUMMARY

NTIA-ITS (Boulder) 5130

PERFORMANCE DATA BATCH

NTIA-ITS (Boulder) 5130

SOURCE USER . . . . . NTIA - modem service  
 DESTINATION USER . . . . . NTIA - over ACTS  
 ORIGINATING USER . . . . . SOURCE  
 SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
 MEASUREMENT START TIME . . . . . 05/16/94 12:57:30.897 LT  
 MEASUREMENT END TIME . . . . . 05/16/94 13:27:22.933 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

SOURCE  
DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 20 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 6.488 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0139  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC

NTIA-ITS (Boulder) 5130

NTIA-ITS (Boulder) 5130

ACCESS ASSESSMENT SUMMARY

DESTINATION  
DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

ACCESS ATTEMPTS . . . . . 20 (+)  
 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 20  
 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

ACCESS TIME . . . . . 49.718 SEC  
 USER FRACTION OF ACCESS TIME . . . . . 0.0023  
 INCORRECT ACCESS PROBABILITY . . . . . 0  
 ACCESS DENIAL PROBABILITY . . . . . 0  
 ACCESS OUTAGE PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED ACCESS TIME . . . . . 80.000 SEC  
 SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 20 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 2.445 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0301  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC

PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

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 NTIA-ITS (Boulder) 5006  
 -----  
 SOURCE USER . . . . . NTIA - x.25 over ckt channel  
 DESTINATION USER . . . . . NTIA - over ACTS  
 ORIGINATING USER . . . . . SOURCE  
 SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
 MEASUREMENT START TIME . . . . . 05/04/94 09:34:06.958 LT  
 MEASUREMENT END TIME . . . . . 05/04/94 09:53:43.007 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

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 NTIA-ITS (Boulder) 5006  
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ACCESS ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

-----  
 ACCESS ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 100  
 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

-----  
 ACCESS TIME . . . . . 0.872 SEC  
 USER FRACTION OF ACCESS TIME . . . . . 0.4712  
 INCORRECT ACCESS PROBABILITY . . . . . 0  
 ACCESS DENIAL PROBABILITY . . . . . 0  
 ACCESS OUTAGE PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

-----  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC  
 SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000

-----  
 NTIA-ITS (Boulder) 5006  
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SOURCE  
 DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

-----  
 DISENGAGEMENT ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

-----  
 DISENGAGEMENT TIME . . . . . 0.860 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0359  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

-----  
 SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC

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 NTIA-ITS (Boulder) 5006  
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DESTINATION  
 DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

-----  
 DISENGAGEMENT ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

-----  
 DISENGAGEMENT TIME . . . . . 1.177 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.7986  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

-----  
 SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC



PERFORMANCE ASSESSMENT SUMMARY

NTIA-ITS (Boulder) 5007

PERFORMANCE DATA BATCH

NTIA-ITS (Boulder) 5007

SOURCE USER . . . . . NTIA - x.25 over ckt channel  
 DESTINATION USER . . . . . NTIA - over ACTS  
 ORIGINATING USER . . . . . SOURCE  
 SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
 MEASUREMENT START TIME . . . . . 05/04/94 10:10:00.936 LT  
 MEASUREMENT END TIME . . . . . 05/04/94 10:29:33.789 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

SOURCE  
DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 0.854 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0382  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC

NTIA-ITS (Boulder) 5007

NTIA-ITS (Boulder) 5007

ACCESS ASSESSMENT SUMMARY

DESTINATION  
DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

ACCESS ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 100  
 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

ACCESS TIME . . . . . 0.827 SEC  
 USER FRACTION OF ACCESS TIME . . . . . 0.4805  
 INCORRECT ACCESS PROBABILITY . . . . . 0  
 ACCESS DENIAL PROBABILITY . . . . . 0  
 ACCESS OUTAGE PROBABILITY . . . . . 0

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 1.172 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8006  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED ACCESS TIME . . . . . 80.000 SEC  
 SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC

PERFORMANCE ASSESSMENT SUMMARY

NTIA-ITS (Boulder) 5008

PERFORMANCE DATA BATCH

NTIA-ITS (Boulder) 5008

SOURCE USER . . . . . NTIA - x.25 over ckt channel

DESTINATION USER . . . . . NTIA - over ACTS

ORIGINATING USER . . . . . SOURCE

SESSION CATEGORY . . . . . CONNECTION ORIENTED

INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED

MEASUREMENT START TIME . . . . . 05/04/94 10:32:21.984 LT

MEASUREMENT END TIME . . . . . 05/04/94 10:51:53.240 LT

(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

SOURCE  
DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 100 (+)

'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100

'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 0.857 SEC

USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0365

DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC

SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000

SPECIFIED ACCESS TIME . . . . . 80.000 SEC

NTIA-ITS (Boulder) 5008

NTIA-ITS (Boulder) 5008

ACCESS ASSESSMENT SUMMARY

DESTINATION  
DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

PERFORMANCE STATISTICS

ACCESS ATTEMPTS . . . . . 100 (+)

'SUCCESSFUL ACCESS' OUTCOMES . . . . . 100

'INCORRECT ACCESS' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0

'ACCESS DENIAL' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0

'ACCESS OUTAGE' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

DISENGAGEMENT ATTEMPTS . . . . . 100 (+)

'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100

'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

MEASURED PERFORMANCE PARAMETER VALUES

ACCESS TIME . . . . . 0.824 SEC

USER FRACTION OF ACCESS TIME . . . . . 0.4545

INCORRECT ACCESS PROBABILITY . . . . . 0

ACCESS DENIAL PROBABILITY . . . . . 0

ACCESS OUTAGE PROBABILITY . . . . . 0

DISENGAGEMENT TIME . . . . . 1.174 SEC

USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8011

DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

REDUCTION SPECIFICATIONS

SPECIFIED ACCESS TIME . . . . . 80.000 SEC

SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000

SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC

SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000

SPECIFIED ACCESS TIME . . . . . 80.000 SEC

PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

NTIA-ITS (Boulder) 5009

SOURCE USER . . . . . NTIA - x.25 over ckt channel
DESTINATION USER . . . . . NTIA - over ACTS
ORIGINATING USER . . . . . SOURCE
SESSION CATEGORY . . . . . CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
MEASUREMENT START TIME . . . . . 05/04/94 10:54:46.970 LT
MEASUREMENT END TIME . . . . . 05/04/94 11:14:20.874 LT
(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

NTIA-ITS (Boulder) 5009

ACCESS ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

ACCESS ATTEMPTS . . . . . 100 (+)
'SUCCESSFUL ACCESS' OUTCOMES . . . . . 100
'INCORRECT ACCESS' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0
'ACCESS DENIAL' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0
'ACCESS OUTAGE' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

ACCESS TIME . . . . . 0.853 SEC
USER FRACTION OF ACCESS TIME . . . . . 0.4672
INCORRECT ACCESS PROBABILITY . . . . . 0
ACCESS DENIAL PROBABILITY . . . . . 0
ACCESS OUTAGE PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED ACCESS TIME . . . . . 80.000 SEC
SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000

NTIA-ITS (Boulder) 5009

SOURCE DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 100 (+)
'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100
'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 0.857 SEC
USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0362
DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC
SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000
SPECIFIED ACCESS TIME . . . . . 80.000 SEC

NTIA-ITS (Boulder) 5009

DESTINATION DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 100 (+)
'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100
'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 1.173 SEC
USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8015
DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC
SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000
SPECIFIED ACCESS TIME . . . . . 80.000 SEC

PERFORMANCE ASSESSMENT SUMMARY

NTIA-ITS (Boulder) 5010

PERFORMANCE DATA BATCH

NTIA-ITS (Boulder) 5010

SOURCE USER . . . . . NTIA - x.25 over ckt channel  
 DESTINATION USER . . . . . NTIA - over ACTS  
 ORIGINATING USER . . . . . SOURCE  
 SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
 MEASUREMENT START TIME . . . . . 05/04/94 11:16:14.908 LT  
 MEASUREMENT END TIME . . . . . 05/04/94 11:35:49.516 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

SOURCE DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 0.860 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0364  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC

NTIA-ITS (Boulder) 5010

NTIA-ITS (Boulder) 5010

ACCESS ASSESSMENT SUMMARY

DESTINATION DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

PERFORMANCE STATISTICS

ACCESS ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 100  
 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

DISENGAGEMENT ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

MEASURED PERFORMANCE PARAMETER VALUES

ACCESS TIME . . . . . 0.859 SEC  
 USER FRACTION OF ACCESS TIME . . . . . 0.4862  
 INCORRECT ACCESS PROBABILITY . . . . . 0  
 ACCESS DENIAL PROBABILITY . . . . . 0  
 ACCESS OUTAGE PROBABILITY . . . . . 0

DISENGAGEMENT TIME . . . . . 1.179 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8005  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

REDUCTION SPECIFICATIONS

SPECIFIED ACCESS TIME . . . . . 80.000 SEC  
 SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000

SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC

PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

-----  
 NTIA-ITS (Boulder) 5011  
 -----

SOURCE USER . . . . . NTIA - x.25 over ckt channel  
 DESTINATION USER . . . . . NTIA - over ACTS  
 ORIGINATING USER . . . . . SOURCE

SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED

MEASUREMENT START TIME . . . . . 11/01/94 16:30:50.927 LT  
 MEASUREMENT END TIME . . . . . 11/01/94 16:31:18.247 LT

(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

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 NTIA-ITS (Boulder) 5011  
 -----

USER INFORMATION TRANSFER ASSESSMENT SUMMARY

-----  
 CORRELATION SUMMARY

CORRELATOR OUTPUT BLOCKS . . . . . 50

BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000  
 'CORRECT' BCOS . . . . . 1600000  
 'INCORRECT' BCOS . . . . . 0  
 'UNDELIVERED' BCOS . . . . . 0  
 'EXTRA' BCOS . . . . . 0

SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50  
 SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50

SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000  
 SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000

DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50  
 DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50

DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000  
 DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000

-----  
 CORRELATOR SPECIFICATIONS

USER INFORMATION WINDOW SIZE . . . . . 16 BITS

MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR  
 IDENTIFICATION ALGORITHM . . . . . 256 BITS

MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT  
 IDENTIFICATION ALGORITHM . . . . . 8192 BITS

MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT  
 IDENTIFICATION ALGORITHM . . . . . 8192 BITS

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 NTIA-ITS (Boulder) 5011  
 -----

USER INFORMATION TRANSFER ASSESSMENT SUMMARY  
 (CONTINUED)

-----  
 PERFORMANCE STATISTICS

BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)  
 'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000  
 'INCORRECT BIT' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0  
 'LOST BIT' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0  
 'EXTRA BIT' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0

BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)  
 'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50  
 'INCORRECT BLOCK' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0  
 'LOST BLOCK' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0  
 'EXTRA BLOCK' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0

TRANSFER SAMPLES . . . . . 49 (+)  
 'TRANSFER DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0

INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 10.254 SEC  
 USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.669 SEC  
 OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 24.856 SEC  
 USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.727 SEC  
 BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000  
 'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000  
 BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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 NTIA-ITS (Boulder) 5011  
 -----

USER INFORMATION TRANSFER ASSESSMENT SUMMARY  
 (CONTINUED)

-----  
 MEASURED PERFORMANCE PARAMETER VALUES

BIT ERROR PROBABILITY . . . . . 0  
 BIT LOSS PROBABILITY . . . . . 0  
 EXTRA BIT PROBABILITY . . . . . 0

BLOCK TRANSFER TIME . . . . . 9.639 SEC  
 USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0757

BLOCK ERROR PROBABILITY . . . . . 0  
 BLOCK LOSS PROBABILITY . . . . . 0  
 EXTRA BLOCK PROBABILITY . . . . . 0

TRANSFER DENIAL PROBABILITY . . . . . 0

USER INFORMATION BIT TRANSFER RATE . . . . . 63083 BPS  
 USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0695

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 REDUCTION SPECIFICATIONS

SPECIFIED BLOCK TRANSFER TIME . . . . . 6.000 SEC  
 SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.5000

SPECIFIED USER INFORMATION BIT TRANSFER RATE  
 FOR TRANSFER SAMPLE . . . . . 1000 BPS  
 SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME  
 FOR TRANSFER SAMPLE . . . . . 0.5000

SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)  
 SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)  
 SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)

MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS  
 IN TRANSFER SAMPLE . . . . . 30000

PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

-----  
 NTIA-ITS (Boulder) 5012  
 -----  
 SOURCE USER . . . . . NTIA - x.25 over ckt channel  
 DESTINATION USER . . . . . NTIA - over ACTS  
 ORIGINATING USER . . . . . SOURCE  
 SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
 MEASUREMENT START TIME . . . . . 11/01/94 16:31:53.912 LT  
 MEASUREMENT END TIME . . . . . 11/01/94 16:32:21.304 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

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 NTIA-ITS (Boulder) 5012  
 -----

USER INFORMATION TRANSFER ASSESSMENT SUMMARY

-----  
 CORRELATION SUMMARY  
 -----

CORRELATOR OUTPUT BLOCKS . . . . . 50  
 BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000  
 'CORRECT' BCOS . . . . . 1600000  
 'INCORRECT' BCOS . . . . . 0  
 'UNDELIVERED' BCOS . . . . . 0  
 'EXTRA' BCOS . . . . . 0  
 SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50  
 SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50  
 SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000  
 SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000  
 DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50  
 DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50  
 DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000  
 DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000

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 CORRELATOR SPECIFICATIONS  
 -----

USER INFORMATION WINDOW SIZE . . . . . 16 BITS  
 MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR  
 IDENTIFICATION ALGORITHM . . . . . 256 BITS  
 MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT  
 IDENTIFICATION ALGORITHM . . . . . 8192 BITS  
 MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT  
 IDENTIFICATION ALGORITHM . . . . . 8192 BITS

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 NTIA-ITS (Boulder) 5012  
 -----

USER INFORMATION TRANSFER ASSESSMENT SUMMARY  
 (CONTINUED)

-----  
 PERFORMANCE STATISTICS  
 -----

BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)  
 'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000  
 'INCORRECT BIT' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0  
 'LOST BIT' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0  
 'EXTRA BIT' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0  
 BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)  
 'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50  
 'INCORRECT BLOCK' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0  
 'LOST BLOCK' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0  
 'EXTRA BLOCK' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0  
 TRANSFER SAMPLES . . . . . 49 (+)  
 'TRANSFER DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0  
 INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 10.141 SEC  
 USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.672 SEC  
 OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 24.897 SEC  
 USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.730 SEC  
 BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000  
 'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000  
 BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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 NTIA-ITS (Boulder) 5012  
 -----

USER INFORMATION TRANSFER ASSESSMENT SUMMARY  
 (CONTINUED)

-----  
 MEASURED PERFORMANCE PARAMETER VALUES  
 -----

BIT ERROR PROBABILITY . . . . . 0  
 BIT LOSS PROBABILITY . . . . . 0  
 EXTRA BIT PROBABILITY . . . . . 0  
 BLOCK TRANSFER TIME . . . . . 9.717 SEC  
 USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0774  
 BLOCK ERROR PROBABILITY . . . . . 0  
 BLOCK LOSS PROBABILITY . . . . . 0  
 EXTRA BLOCK PROBABILITY . . . . . 0  
 TRANSFER DENIAL PROBABILITY . . . . . 0  
 USER INFORMATION BIT TRANSFER RATE . . . . . 62979 BPS  
 USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0695

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 REDUCTION SPECIFICATIONS  
 -----

SPECIFIED BLOCK TRANSFER TIME . . . . . 6.000 SEC  
 SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.5000  
 SPECIFIED USER INFORMATION BIT TRANSFER RATE  
 FOR TRANSFER SAMPLE . . . . . 1000 BPS  
 SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME  
 FOR TRANSFER SAMPLE . . . . . 0.5000  
 SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)  
 SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)  
 SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)  
 MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS  
 IN TRANSFER SAMPLE . . . . . 30000

PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

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NTIA-ITS (Boulder) 5013

-----

SOURCE USER . . . . . NTIA - x.25 over ckt channel

DESTINATION USER . . . . . NTIA - over ACTS

ORIGINATING USER . . . . . SOURCE

SESSION CATEGORY . . . . . CONNECTION ORIENTED

INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED

MEASUREMENT START TIME . . . . . 11/01/94 16:33:41.968 LT

MEASUREMENT END TIME . . . . . 11/01/94 16:34:09.306 LT

(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

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NTIA-ITS (Boulder) 5013

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USER INFORMATION TRANSFER ASSESSMENT SUMMARY

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CORRELATION SUMMARY

-----

CORRELATOR OUTPUT BLOCKS . . . . . 50

BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000

'CORRECT' BCOS . . . . . 1600000

'INCORRECT' BCOS . . . . . 0

'UNDELIVERED' BCOS . . . . . 0

'EXTRA' BCOS . . . . . 0

SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50

SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50

SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000

SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000

DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50

DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50

DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000

DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000

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CORRELATOR SPECIFICATIONS

-----

USER INFORMATION WINDOW SIZE . . . . . 16 BITS

MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR IDENTIFICATION ALGORITHM . . . . . 256 BITS

MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT IDENTIFICATION ALGORITHM . . . . . 8192 BITS

MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT IDENTIFICATION ALGORITHM . . . . . 8192 BITS

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NTIA-ITS (Boulder) 5013

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USER INFORMATION TRANSFER ASSESSMENT SUMMARY (CONTINUED)

-----

PERFORMANCE STATISTICS

-----

BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)

'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000

'INCORRECT BIT' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0

'LOST BIT' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0

'EXTRA BIT' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0

BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)

'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50

'INCORRECT BLOCK' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0

'LOST BLOCK' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0

'EXTRA BLOCK' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0

TRANSFER SAMPLES . . . . . 49 (+)

'TRANSFER DENIAL' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0

INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 10.205 SEC

USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.671 SEC

OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 24.857 SEC

USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.677 SEC

BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000

'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000

BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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NTIA-ITS (Boulder) 5013

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USER INFORMATION TRANSFER ASSESSMENT SUMMARY (CONTINUED)

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MEASURED PERFORMANCE PARAMETER VALUES

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BIT ERROR PROBABILITY . . . . . 0

BIT LOSS PROBABILITY . . . . . 0

EXTRA BIT PROBABILITY . . . . . 0

BLOCK TRANSFER TIME . . . . . 9.647 SEC

USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0762

BLOCK ERROR PROBABILITY . . . . . 0

BLOCK LOSS PROBABILITY . . . . . 0

EXTRA BLOCK PROBABILITY . . . . . 0

TRANSFER DENIAL PROBABILITY . . . . . 0

USER INFORMATION BIT TRANSFER RATE . . . . . 63081 BPS

USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0675

-----

REDUCTION SPECIFICATIONS

-----

SPECIFIED BLOCK TRANSFER TIME . . . . . 6.000 SEC

SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.5000

SPECIFIED USER INFORMATION BIT TRANSFER RATE FOR TRANSFER SAMPLE . . . . . 1000 BPS

SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME FOR TRANSFER SAMPLE . . . . . 0.5000

SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)

SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)

SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)

MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS IN TRANSFER SAMPLE . . . . . 30000

PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

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NTIA-ITS (Boulder)                               5014
-----
SOURCE USER . . . . . NTIA - x.25 over ckt channel
DESTINATION USER . . . . . NTIA - over ACTS
ORIGINATING USER . . . . . SOURCE

SESSION CATEGORY . . . . . CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED

MEASUREMENT START TIME . . . . . 11/01/94 16:38:28.916 LT
MEASUREMENT END TIME . . . . . 11/01/94 16:38:56.253 LT

(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)
    
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NTIA-ITS (Boulder)                               5014
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY

CORRELATION SUMMARY

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CORRELATOR OUTPUT BLOCKS . . . . . 50
BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000
'CORRECT' BCOS . . . . . 1600000
'INCORRECT' BCOS . . . . . 0
'UNDELIVERED' BCOS . . . . . 0
'EXTRA' BCOS . . . . . 0

SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50
SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50

SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000
SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000

DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50
DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50

DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000
DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000
    
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CORRELATOR SPECIFICATIONS

```

USER INFORMATION WINDOW SIZE . . . . . 16 BITS
MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR
IDENTIFICATION ALGORITHM . . . . . 256 BITS
MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT
IDENTIFICATION ALGORITHM . . . . . 8192 BITS
MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT
IDENTIFICATION ALGORITHM . . . . . 8192 BITS
    
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NTIA-ITS (Boulder)                               5014
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY (CONTINUED)

PERFORMANCE STATISTICS

```

BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)
'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000
'INCORRECT BIT' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0
'LOST BIT' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0
'EXTRA BIT' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0

BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)
'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50
'INCORRECT BLOCK' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0
'LOST BLOCK' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0
'EXTRA BLOCK' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0

TRANSFER SAMPLES . . . . . 49 (+)
'TRANSFER DENIAL' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0

INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 10.215 SEC
USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.667 SEC
OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 24.858 SEC
USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.687 SEC
BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000
'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000
BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49
    
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(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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NTIA-ITS (Boulder)                               5014
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY (CONTINUED)

MEASURED PERFORMANCE PARAMETER VALUES

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BIT ERROR PROBABILITY . . . . . 0
BIT LOSS PROBABILITY . . . . . 0
EXTRA BIT PROBABILITY . . . . . 0

BLOCK TRANSFER TIME . . . . . 9.638 SEC
USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0761

BLOCK ERROR PROBABILITY . . . . . 0
BLOCK LOSS PROBABILITY . . . . . 0
EXTRA BLOCK PROBABILITY . . . . . 0

TRANSFER DENIAL PROBABILITY . . . . . 0

USER INFORMATION BIT TRANSFER RATE . . . . . 63078 BPS
USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0679
    
```

REDUCTION SPECIFICATIONS

```

SPECIFIED BLOCK TRANSFER TIME . . . . . 6.000 SEC
SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.5000

SPECIFIED USER INFORMATION BIT TRANSFER RATE
FOR TRANSFER SAMPLE . . . . . 1000 BPS
SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME
FOR TRANSFER SAMPLE . . . . . 0.5000

SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)

MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS
IN TRANSFER SAMPLE . . . . . 30000
    
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PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

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NTIA-ITS (Boulder) 5015

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SOURCE USER . . . . . NTIA - x.25 over ckt channel

DESTINATION USER . . . . . NTIA - over ACTS

ORIGINATING USER . . . . . SOURCE

SESSION CATEGORY . . . . . CONNECTION ORIENTED

INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED

MEASUREMENT START TIME . . . . . 11/01/94 16:39:17.003 LT

MEASUREMENT END TIME . . . . . 11/01/94 16:39:44.440 LT

(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

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NTIA-ITS (Boulder) 5015

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USER INFORMATION TRANSFER ASSESSMENT SUMMARY

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CORRELATION SUMMARY

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CORRELATOR OUTPUT BLOCKS . . . . . 50

BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000

'CORRECT' BCOS . . . . . 1600000

'INCORRECT' BCOS . . . . . 0

'UNDELIVERED' BCOS . . . . . 0

'EXTRA' BCOS . . . . . 0

SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50

SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50

SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000

SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000

DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50

DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50

DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000

DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000

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CORRELATOR SPECIFICATIONS

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USER INFORMATION WINDOW SIZE . . . . . 16 BITS

MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR IDENTIFICATION ALGORITHM . . . . . 256 BITS

MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT IDENTIFICATION ALGORITHM . . . . . 8192 BITS

MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT IDENTIFICATION ALGORITHM . . . . . 8192 BITS

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NTIA-ITS (Boulder) 5015

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USER INFORMATION TRANSFER ASSESSMENT SUMMARY (CONTINUED)

-----

PERFORMANCE STATISTICS

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BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)

'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000

'INCORRECT BIT' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0

'LOST BIT' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0

'EXTRA BIT' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0

BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)

'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50

'INCORRECT BLOCK' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0

'LOST BLOCK' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0

'EXTRA BLOCK' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0

TRANSFER SAMPLES . . . . . 49 (+)

'TRANSFER DENIAL' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0

INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 10.183 SEC

USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.674 SEC

OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 24.937 SEC

USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.673 SEC

BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000

'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000

BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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NTIA-ITS (Boulder) 5015

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USER INFORMATION TRANSFER ASSESSMENT SUMMARY (CONTINUED)

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MEASURED PERFORMANCE PARAMETER VALUES

-----

BIT ERROR PROBABILITY . . . . . 0

BIT LOSS PROBABILITY . . . . . 0

EXTRA BIT PROBABILITY . . . . . 0

BLOCK TRANSFER TIME . . . . . 9.702 SEC

USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0741

BLOCK ERROR PROBABILITY . . . . . 0

BLOCK LOSS PROBABILITY . . . . . 0

EXTRA BLOCK PROBABILITY . . . . . 0

TRANSFER DENIAL PROBABILITY . . . . . 0

USER INFORMATION BIT TRANSFER RATE . . . . . 62878 BPS

USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0671

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REDUCTION SPECIFICATIONS

-----

SPECIFIED BLOCK TRANSFER TIME . . . . . 6.000 SEC

SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.5000

SPECIFIED USER INFORMATION BIT TRANSFER RATE FOR TRANSFER SAMPLE . . . . . 1000 BPS

SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME FOR TRANSFER SAMPLE . . . . . 0.5000

SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)

SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)

SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)

MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS IN TRANSFER SAMPLE . . . . . 30000

PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

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NTIA-ITS (Boulder)                               5201
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SOURCE USER . . . . . NTIA - x.25 over pkt channel
DESTINATION USER . . . . . NTIA - over ACTS
ORIGINATING USER . . . . . SOURCE
SESSION CATEGORY . . . . . CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
MEASUREMENT START TIME . . . . . 11/02/94 08:35:07.926 LT
MEASUREMENT END TIME . . . . . 11/02/94 08:37:46.137 LT
(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)
  
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NTIA-ITS (Boulder)                               5201
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY

CORRELATION SUMMARY

```

CORRELATOR OUTPUT BLOCKS . . . . . 50
* BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000
* 'CORRECT' BCOS . . . . . 1600000
* 'INCORRECT' BCOS . . . . . 0
* 'UNDELIVERED' BCOS . . . . . 0
* 'EXTRA' BCOS . . . . . 0
SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50
SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50
SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000
SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000
DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50
DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50
DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000
DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000
  
```

CORRELATOR SPECIFICATIONS

```

USER INFORMATION WINDOW SIZE . . . . . 16 BITS
* MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR IDENTIFICATION ALGORITHM . . . . . 256 BITS
* MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT IDENTIFICATION ALGORITHM . . . . . 8192 BITS
* MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT IDENTIFICATION ALGORITHM . . . . . 8192 BITS
  
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NTIA-ITS (Boulder)                               5201
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY (CONTINUED)

PERFORMANCE STATISTICS

```

BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)
* 'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000
* 'INCORRECT BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0
* 'LOST BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0
* 'EXTRA BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0
BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)
* 'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50
* 'INCORRECT BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0
* 'LOST BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0
* 'EXTRA BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0
TRANSFER SAMPLES . . . . . 49 (+)
* 'TRANSFER DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0
INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 142.857 SEC
USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.692 SEC
OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 150.960 SEC
USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.668 SEC
* BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000
* 'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000
* BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49
  
```

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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NTIA-ITS (Boulder)                               5201
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY (CONTINUED)

MEASURED PERFORMANCE PARAMETER VALUES

```

BIT ERROR PROBABILITY . . . . . 0
BIT LOSS PROBABILITY . . . . . 0
EXTRA BIT PROBABILITY . . . . . 0
BLOCK TRANSFER TIME . . . . . 12.039 SEC
USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0148
BLOCK ERROR PROBABILITY . . . . . 0
BLOCK LOSS PROBABILITY . . . . . 0
EXTRA BLOCK PROBABILITY . . . . . 0
TRANSFER DENIAL PROBABILITY . . . . . 0
USER INFORMATION BIT TRANSFER RATE . . . . . 10387 BPS
USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0112
  
```

REDUCTION SPECIFICATIONS

```

SPECIFIED BLOCK TRANSFER TIME . . . . . 6.000 SEC
SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.5000
SPECIFIED USER INFORMATION BIT TRANSFER RATE FOR TRANSFER SAMPLE . . . . . 1000 BPS
SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME FOR TRANSFER SAMPLE . . . . . 0.5000
SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS IN TRANSFER SAMPLE . . . . . 30000
  
```

PERFORMANCE ASSESSMENT SUMMARY

NTIA-ITS (Boulder) 5202

PERFORMANCE DATA BATCH

NTIA-ITS (Boulder) 5202

SOURCE USER . . . . . NTIA - x.25 over pkt channel

DESTINATION USER . . . . . NTIA - over ACTS

ORIGINATING USER . . . . . SOURCE

SESSION CATEGORY . . . . . CONNECTION ORIENTED

INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED

MEASUREMENT START TIME . . . . . 11/02/94 08:38:08.936 LT

MEASUREMENT END TIME . . . . . 11/02/94 08:40:47.052 LT

(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

USER INFORMATION TRANSFER ASSESSMENT SUMMARY (CONTINUED)

PERFORMANCE STATISTICS

BIT TRANSFER ATTEMPTS . . . . .	1600000 (+)
'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . .	1600000
'INCORRECT BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . .	0
'LOST BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . .	0
'EXTRA BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . .	0
BLOCK TRANSFER ATTEMPTS . . . . .	50 (+)
'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . .	50
'INCORRECT BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . .	0
'LOST BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . .	0
'EXTRA BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . .	0
TRANSFER SAMPLES . . . . .	49 (+)
'TRANSFER DENIAL' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . .	0
INPUT TIME FOR THROUGHPUT SAMPLE . . . . .	142.880 SEC
USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . .	1.669 SEC
OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . .	150.977 SEC
USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . .	1.668 SEC
BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . .	1568000
'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . .	1568000
BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . .	49

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

NTIA-ITS (Boulder) 5202

NTIA-ITS (Boulder) 5202

USER INFORMATION TRANSFER ASSESSMENT SUMMARY

USER INFORMATION TRANSFER ASSESSMENT SUMMARY (CONTINUED)

CORRELATION SUMMARY

MEASURED PERFORMANCE PARAMETER VALUES

CORRELATOR OUTPUT BLOCKS . . . . .	50
BIT COMPARISON OUTCOMES (BCOS) . . . . .	1600000
'CORRECT' BCOS . . . . .	1600000
'INCORRECT' BCOS . . . . .	0
'UNDELIVERED' BCOS . . . . .	0
'EXTRA' BCOS . . . . .	0
SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . .	50
SOURCE USER INFORMATION BLOCKS CORRELATED . . . . .	50
SOURCE USER INFORMATION BITS TRANSMITTED . . . . .	1600000
SOURCE USER INFORMATION BITS CORRELATED . . . . .	1600000
DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . .	50
DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . .	50
DESTINATION USER INFORMATION BITS RECEIVED . . . . .	1600000
DESTINATION USER INFORMATION BITS CORRELATED . . . . .	1600000

BIT ERROR PROBABILITY . . . . .	0
BIT LOSS PROBABILITY . . . . .	0
EXTRA BIT PROBABILITY . . . . .	0
BLOCK TRANSFER TIME . . . . .	12.040 SEC
USER FRACTION OF BLOCK TRANSFER TIME . . . . .	0.0149
BLOCK ERROR PROBABILITY . . . . .	0
BLOCK LOSS PROBABILITY . . . . .	0
EXTRA BLOCK PROBABILITY . . . . .	0
TRANSFER DENIAL PROBABILITY . . . . .	0
USER INFORMATION BIT TRANSFER RATE . . . . .	10386 BPS
USER FRACTION OF INPUT/OUTPUT TIME . . . . .	0.0111

CORRELATOR SPECIFICATIONS

REDUCTION SPECIFICATIONS

USER INFORMATION WINDOW SIZE . . . . .	16 BITS
MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR IDENTIFICATION ALGORITHM . . . . .	256 BITS
MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT IDENTIFICATION ALGORITHM . . . . .	8192 BITS
MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT IDENTIFICATION ALGORITHM . . . . .	8192 BITS

SPECIFIED BLOCK TRANSFER TIME . . . . .	6.000 SEC
SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . .	0.5000
SPECIFIED USER INFORMATION BIT TRANSFER RATE FOR TRANSFER SAMPLE . . . . .	1000 BPS
SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME FOR TRANSFER SAMPLE . . . . .	0.5000
SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10 <sup>(-08)</sup>
SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10 <sup>(-08)</sup>
SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10 <sup>(-08)</sup>
MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS IN TRANSFER SAMPLE . . . . .	30000

PERFORMANCE ASSESSMENT SUMMARY

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 PERFORMANCE DATA BATCH  
 -----  
 NTIA-ITS (Boulder) 5203  
 -----  
 SOURCE USER . . . . . NTIA - x.25 over pkt channel  
 DESTINATION USER . . . . . NTIA - over ACTS  
 ORIGINATING USER . . . . . SOURCE  
 SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
 MEASUREMENT START TIME . . . . . 11/02/94 08:41:27.929 LT  
 MEASUREMENT END TIME . . . . . 11/02/94 08:44:06.080 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

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 NTIA-ITS (Boulder) 5203  
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY

-----  
 CORRELATION SUMMARY  
 -----

CORRELATOR OUTPUT BLOCKS . . . . . 50  
 \* BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000  
 \* 'CORRECT' BCOS . . . . . 1600000  
 \* 'INCORRECT' BCOS . . . . . 0  
 \* 'UNDELIVERED' BCOS . . . . . 0  
 \* 'EXTRA' BCOS . . . . . 0  
 \* SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50  
 \* SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50  
 \* SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000  
 \* SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000  
 \* DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50  
 \* DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50  
 \* DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000  
 \* DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000

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 CORRELATOR SPECIFICATIONS  
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USER INFORMATION WINDOW SIZE . . . . . 16 BITS  
 \* MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR IDENTIFICATION ALGORITHM . . . . . 256 BITS  
 \* MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT IDENTIFICATION ALGORITHM . . . . . 8192 BITS  
 \* MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT IDENTIFICATION ALGORITHM . . . . . 8192 BITS

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 NTIA-ITS (Boulder) 5203  
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY  
 (CONTINUED)

-----  
 PERFORMANCE STATISTICS  
 -----

\* BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)  
 \* 'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000  
 \* 'INCORRECT BIT' OUTCOMES . . . . . 0  
 \* PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0  
 \* 'LOST BIT' OUTCOMES . . . . . 0  
 \* PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0  
 \* 'EXTRA BIT' OUTCOMES . . . . . 0  
 \* PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0  
 \* BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)  
 \* 'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50  
 \* 'INCORRECT BLOCK' OUTCOMES . . . . . 0  
 \* PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0  
 \* 'LOST BLOCK' OUTCOMES . . . . . 0  
 \* PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0  
 \* 'EXTRA BLOCK' OUTCOMES . . . . . 0  
 \* PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0  
 \* TRANSFER SAMPLES . . . . . 49 (+)  
 \* 'TRANSFER DENIAL' OUTCOMES . . . . . 0  
 \* PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0

\* INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 142.817 SEC  
 \* USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.674 SEC  
 \* OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 150.917 SEC  
 \* USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.672 SEC  
 \* BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000  
 \* 'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000  
 \* BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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 NTIA-ITS (Boulder) 5203  
 -----

USER INFORMATION TRANSFER ASSESSMENT SUMMARY  
 (CONTINUED)

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 MEASURED PERFORMANCE PARAMETER VALUES  
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\* BIT ERROR PROBABILITY . . . . . 0  
 \* BIT LOSS PROBABILITY . . . . . 0  
 \* EXTRA BIT PROBABILITY . . . . . 0  
 \* BLOCK TRANSFER TIME . . . . . 12.038 SEC  
 \* USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0149  
 \* BLOCK ERROR PROBABILITY . . . . . 0  
 \* BLOCK LOSS PROBABILITY . . . . . 0  
 \* EXTRA BLOCK PROBABILITY . . . . . 0  
 \* TRANSFER DENIAL PROBABILITY . . . . . 0  
 \* USER INFORMATION BIT TRANSFER RATE . . . . . 10390 BPS  
 \* USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0111

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 REDUCTION SPECIFICATIONS  
 -----

\* SPECIFIED BLOCK TRANSFER TIME . . . . . 6.000 SEC  
 \* SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.5000  
 \* SPECIFIED USER INFORMATION BIT TRANSFER RATE FOR TRANSFER SAMPLE . . . . . 1000 BPS  
 \* SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME FOR TRANSFER SAMPLE . . . . . 0.5000  
 \* SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)  
 \* SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)  
 \* SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)  
 \* MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS IN TRANSFER SAMPLE . . . . . 30000

PERFORMANCE ASSESSMENT SUMMARY

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PERFORMANCE DATA BATCH

NTIA-ITS (Boulder)		5204
SOURCE USER	NTIA - x.25 over pkt channel	
DESTINATION USER	NTIA - over ACTS	
ORIGINATING USER	SOURCE	
SESSION CATEGORY	CONNECTION ORIENTED	
INITIAL DISENGAGEMENT CATEGORY	NEGOTIATED	
MEASUREMENT START TIME	11/02/94 11:57:28.004 LT	
MEASUREMENT END TIME	11/02/94 12:00:06.143 LT	
(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)		

USER INFORMATION TRANSFER ASSESSMENT SUMMARY

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CORRELATION SUMMARY

CORRELATOR OUTPUT BLOCKS	50
BIT COMPARISON OUTCOMES (BCOS)	1600000
'CORRECT' BCOS	1600000
'INCORRECT' BCOS	0
'UNDELIVERED' BCOS	0
'EXTRA' BCOS	0
SOURCE USER INFORMATION BLOCKS TRANSMITTED	50
SOURCE USER INFORMATION BLOCKS CORRELATED	50
SOURCE USER INFORMATION BITS TRANSMITTED	1600000
SOURCE USER INFORMATION BITS CORRELATED	1600000
DESTINATION USER INFORMATION BLOCKS RECEIVED	50
DESTINATION USER INFORMATION BLOCKS CORRELATED	50
DESTINATION USER INFORMATION BITS RECEIVED	1600000
DESTINATION USER INFORMATION BITS CORRELATED	1600000

CORRELATOR SPECIFICATIONS

USER INFORMATION WINDOW SIZE	16 BITS
MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR IDENTIFICATION ALGORITHM	256 BITS
MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT IDENTIFICATION ALGORITHM	8192 BITS
MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT IDENTIFICATION ALGORITHM	8192 BITS

NTIA-ITS (Boulder) 5204

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USER INFORMATION TRANSFER ASSESSMENT SUMMARY (CONTINUED)

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PERFORMANCE STATISTICS

BIT TRANSFER ATTEMPTS	1600000 (+)
'SUCCESSFUL BIT TRANSFER' OUTCOMES	1600000
'INCORRECT BIT' OUTCOMES	0
PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES	0
'LOST BIT' OUTCOMES	0
PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES	0
'EXTRA BIT' OUTCOMES	0
PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES	0
BLOCK TRANSFER ATTEMPTS	50 (+)
'SUCCESSFUL BLOCK TRANSFER' OUTCOMES	50
'INCORRECT BLOCK' OUTCOMES	0
PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES	0
'LOST BLOCK' OUTCOMES	0
PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES	0
'EXTRA BLOCK' OUTCOMES	0
PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES	0
TRANSFER SAMPLES	49 (+)
'TRANSFER DENIAL' OUTCOMES	0
PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES	0
INPUT TIME FOR THROUGHPUT SAMPLE	142.798 SEC
USER INPUT TIME FOR THROUGHPUT SAMPLE	1.672 SEC
OUTPUT TIME FOR THROUGHPUT SAMPLE	150.888 SEC
USER OUTPUT TIME FOR THROUGHPUT SAMPLE	1.669 SEC
BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE	1568000
'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE	1568000
BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE	49

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

NTIA-ITS (Boulder) 5204

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USER INFORMATION TRANSFER ASSESSMENT SUMMARY (CONTINUED)

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MEASURED PERFORMANCE PARAMETER VALUES

BIT ERROR PROBABILITY	0
BIT LOSS PROBABILITY	0
EXTRA BIT PROBABILITY	0
BLOCK TRANSFER TIME	12.035 SEC
USER FRACTION OF BLOCK TRANSFER TIME	0.0144
BLOCK ERROR PROBABILITY	0
BLOCK LOSS PROBABILITY	0
EXTRA BLOCK PROBABILITY	0
TRANSFER DENIAL PROBABILITY	0
USER INFORMATION BIT TRANSFER RATE	10392 BPS
USER FRACTION OF INPUT/OUTPUT TIME	0.0111

REDUCTION SPECIFICATIONS

SPECIFIED BLOCK TRANSFER TIME	6.000 SEC
SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME	0.5000
SPECIFIED USER INFORMATION BIT TRANSFER RATE FOR TRANSFER SAMPLE	1000 BPS
SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME FOR TRANSFER SAMPLE	0.5000
SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE	1.0 X 10 <sup>(-08)</sup>
SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE	1.0 X 10 <sup>(-08)</sup>
SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE	1.0 X 10 <sup>(-08)</sup>
MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS IN TRANSFER SAMPLE	30000

PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

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NTIA-ITS (Boulder)                               5205
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SOURCE USER . . . . . NTIA - x.25 over pkt channel
DESTINATION USER . . . . . NTIA - over ACTS
ORIGINATING USER . . . . . SOURCE
SESSION CATEGORY . . . . . CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
MEASUREMENT START TIME . . . . . 11/02/94 12:00:29.942 LT
MEASUREMENT END TIME . . . . . 11/02/94 12:03:08.034 LT
(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)
  
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NTIA-ITS (Boulder)                               5205
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY

CORRELATION SUMMARY

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CORRELATOR OUTPUT BLOCKS . . . . . 50
BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000
'CORRECT' BCOS . . . . . 1600000
'INCORRECT' BCOS . . . . . 0
'UNDELIVERED' BCOS . . . . . 0
'EXTRA' BCOS . . . . . 0
SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50
SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50
SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000
SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000
DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50
DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50
DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000
DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000
  
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CORRELATOR SPECIFICATIONS

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USER INFORMATION WINDOW SIZE . . . . . 16 BITS
MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR
IDENTIFICATION ALGORITHM . . . . . 256 BITS
MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT
IDENTIFICATION ALGORITHM . . . . . 8192 BITS
MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT
IDENTIFICATION ALGORITHM . . . . . 8192 BITS
  
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NTIA-ITS (Boulder)                               5205
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY (CONTINUED)

PERFORMANCE STATISTICS

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-----
BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)
'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000
'INCORRECT BIT' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0
'LOST BIT' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0
'EXTRA BIT' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0
BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)
'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50
'INCORRECT BLOCK' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0
'LOST BLOCK' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0
'EXTRA BLOCK' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0
TRANSFER SAMPLES . . . . . 49 (+)
'TRANSFER DENIAL' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0
  
```

```

INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 142.767 SEC
USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.684 SEC
OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 150.872 SEC
USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.666 SEC
BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000
'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000
BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49
  
```

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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NTIA-ITS (Boulder)                               5205
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY (CONTINUED)

MEASURED PERFORMANCE PARAMETER VALUES

```

-----
BIT ERROR PROBABILITY . . . . . 0
BIT LOSS PROBABILITY . . . . . 0
EXTRA BIT PROBABILITY . . . . . 0
BLOCK TRANSFER TIME . . . . . 12.022 SEC
USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0134
BLOCK ERROR PROBABILITY . . . . . 0
BLOCK LOSS PROBABILITY . . . . . 0
EXTRA BLOCK PROBABILITY . . . . . 0
TRANSFER DENIAL PROBABILITY . . . . . 0
USER INFORMATION BIT TRANSFER RATE . . . . . 10393 BPS
USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0112
  
```

REDUCTION SPECIFICATIONS

```

-----
SPECIFIED BLOCK TRANSFER TIME . . . . . 6.000 SEC
SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.5000
SPECIFIED USER INFORMATION BIT TRANSFER RATE
FOR TRANSFER SAMPLE . . . . . 1000 BPS
SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME
FOR TRANSFER SAMPLE . . . . . 0.5000
SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS
IN TRANSFER SAMPLE . . . . . 30000
  
```

PERFORMANCE ASSESSMENT SUMMARY

NTIA-ITS (Boulder) 5206

PERFORMANCE DATA BATCH

NTIA-ITS (Boulder) 5206

SOURCE USER . . . . . NTIA - x.25 over pkt channel

DESTINATION USER . . . . . NTIA - over ACTS

ORIGINATING USER . . . . . SOURCE

SESSION CATEGORY . . . . . CONNECTION ORIENTED

INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED

MEASUREMENT START TIME . . . . . 11/02/94 15:37:09.017 LT

MEASUREMENT END TIME . . . . . 11/02/94 15:59:05.515 LT

(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

NTIA-ITS (Boulder) 5206

SOURCE  
DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 100 (+)

'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100

'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 1.647 SEC

USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0204

DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC

SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000

SPECIFIED ACCESS TIME . . . . . 80.000 SEC

NTIA-ITS (Boulder) 5206

ACCESS ASSESSMENT SUMMARY

DESTINATION  
DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

ACCESS ATTEMPTS . . . . . 100 (+)

'SUCCESSFUL ACCESS' OUTCOMES . . . . . 100

'INCORRECT ACCESS' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0

'ACCESS DENIAL' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0

'ACCESS OUTAGE' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

ACCESS TIME . . . . . 1.482 SEC

USER FRACTION OF ACCESS TIME . . . . . 0.4733

INCORRECT ACCESS PROBABILITY . . . . . 0

ACCESS DENIAL PROBABILITY . . . . . 0

ACCESS OUTAGE PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED ACCESS TIME . . . . . 80.000 SEC

SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 100 (+)

'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100

'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 2.265 SEC

USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8176

DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC

SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000

SPECIFIED ACCESS TIME . . . . . 80.000 SEC

PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

NTIA-ITS (Boulder) 5207

SOURCE USER . . . . . NTIA - x.25 over pkt channel
DESTINATION USER . . . . . NTIA - over ACTS
ORIGINATING USER . . . . . SOURCE
SESSION CATEGORY . . . . . CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
MEASUREMENT START TIME . . . . . 11/03/94 14:34:09.988 LT
MEASUREMENT END TIME . . . . . 11/03/94 14:56:13.926 LT
(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

NTIA-ITS (Boulder) 5207

ACCESS ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

ACCESS ATTEMPTS . . . . . 100 (+)
SUCCESSFUL ACCESS OUTCOMES . . . . . 100
INCORRECT ACCESS OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE INCORRECT ACCESS OUTCOMES . . . . . 0
ACCESS DENIAL OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE ACCESS DENIAL OUTCOMES . . . . . 0
ACCESS OUTAGE OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE ACCESS OUTAGE OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

ACCESS TIME . . . . . 1.466 SEC
USER FRACTION OF ACCESS TIME . . . . . 0.4758
INCORRECT ACCESS PROBABILITY . . . . . 0
ACCESS DENIAL PROBABILITY . . . . . 0
ACCESS OUTAGE PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED ACCESS TIME . . . . . 80.000 SEC
SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000

NTIA-ITS (Boulder) 5207

SOURCE DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 100 (+)
SUCCESSFUL DISENGAGEMENT OUTCOMES . . . . . 100
DISENGAGEMENT DENIAL OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE DISENGAGEMENT DENIAL OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 1.741 SEC
USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0191
DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC
SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000
SPECIFIED ACCESS TIME . . . . . 80.000 SEC

NTIA-ITS (Boulder) 5207

DESTINATION DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 100 (+)
SUCCESSFUL DISENGAGEMENT OUTCOMES . . . . . 100
DISENGAGEMENT DENIAL OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE DISENGAGEMENT DENIAL OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 2.358 SEC
USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.7848
DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC
SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000
SPECIFIED ACCESS TIME . . . . . 80.000 SEC





PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

NTIA-ITS (Boulder) 5209

SOURCE USER . . . . . NTIA - x.25 over pkt channel  
 DESTINATION USER . . . . . NTIA - over ACTS  
 ORIGINATING USER . . . . . SOURCE  
 SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
 MEASUREMENT START TIME . . . . . 11/03/94 15:24:54.004 LT  
 MEASUREMENT END TIME . . . . . 11/03/94 15:47:00.080 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

NTIA-ITS (Boulder) 5209

ACCESS ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

ACCESS ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 100  
 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

ACCESS TIME . . . . . 1.511 SEC  
 USER FRACTION OF ACCESS TIME . . . . . 0.4746  
 INCORRECT ACCESS PROBABILITY . . . . . 0  
 ACCESS DENIAL PROBABILITY . . . . . 0  
 ACCESS OUTAGE PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED ACCESS TIME . . . . . 80.000 SEC  
 SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000

NTIA-ITS (Boulder) 5209

SOURCE DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 1.717 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0197  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC

NTIA-ITS (Boulder) 5209

DESTINATION DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 2.335 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.7931  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC

PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

-----  
 NTIA-ITS (Boulder) 5210  
 -----  
 SOURCE USER . . . . . NTIA - x.25 over pkt channel  
 DESTINATION USER . . . . . NTIA - over ACTS  
 ORIGINATING USER . . . . . SOURCE  
 SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
 MEASUREMENT START TIME . . . . . 11/03/94 15:49:34.013 LT  
 MEASUREMENT END TIME . . . . . 11/03/94 16:11:39.135 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

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 NTIA-ITS (Boulder) 5210  
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ACCESS ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

ACCESS ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 100  
 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

ACCESS TIME . . . . . 1.452 SEC  
 USER FRACTION OF ACCESS TIME . . . . . 0.4700  
 INCORRECT ACCESS PROBABILITY . . . . . 0  
 ACCESS DENIAL PROBABILITY . . . . . 0  
 ACCESS OUTAGE PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED ACCESS TIME . . . . . 80.000 SEC  
 SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000

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 NTIA-ITS (Boulder) 5210  
 -----

SOURCE  
 DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 1.766 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0194  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC

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 NTIA-ITS (Boulder) 5210  
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DESTINATION  
 DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 2.385 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.7770  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC

PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

-----  
 NTIA-ITS (Boulder) 5506  
 -----  
 SOURCE USER . . . . . NTIA - ISDN  
 DESTINATION USER . . . . . NTIA - over ACTS  
 ORIGINATING USER . . . . . SOURCE  
 -----  
 SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
 MEASUREMENT START TIME . . . . . 10/25/94 14:48:04.858 LT  
 MEASUREMENT END TIME . . . . . 10/25/94 15:16:21.589 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

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 NTIA-ITS (Boulder) 5506  
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ACCESS ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

-----  
 ACCESS ATTEMPTS . . . . . 40 (+)  
 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 40  
 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

-----  
 ACCESS TIME . . . . . 23.490 SEC  
 USER FRACTION OF ACCESS TIME . . . . . 0.0045  
 INCORRECT ACCESS PROBABILITY . . . . . 0  
 ACCESS DENIAL PROBABILITY . . . . . 0  
 ACCESS OUTAGE PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

-----  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC  
 SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000

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 NTIA-ITS (Boulder) 5506  
 -----

SOURCE  
 DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

-----  
 DISENGAGEMENT ATTEMPTS . . . . . 40 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

-----  
 DISENGAGEMENT TIME . . . . . 4.031 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0228  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

-----  
 SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC

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 NTIA-ITS (Boulder) 5506  
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DESTINATION  
 DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

-----  
 DISENGAGEMENT ATTEMPTS . . . . . 40 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

-----  
 DISENGAGEMENT TIME . . . . . 1.812 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0413  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

-----  
 SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC

PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

NTIA-ITS (Boulder) 5507

SOURCE USER . . . . . NTIA - ISDN  
 DESTINATION USER . . . . . NTIA - over ACTS  
 ORIGINATING USER . . . . . SOURCE  
 SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
 MEASUREMENT START TIME . . . . . 10/25/94 15:27:23.860 LT  
 MEASUREMENT END TIME . . . . . 10/25/94 15:55:34.009 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

NTIA-ITS (Boulder) 5507

ACCESS ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

ACCESS ATTEMPTS . . . . . 40 (+)  
 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 40  
 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

ACCESS TIME . . . . . 23.400 SEC  
 USER FRACTION OF ACCESS TIME . . . . . 0.0046  
 INCORRECT ACCESS PROBABILITY . . . . . 0  
 ACCESS DENIAL PROBABILITY . . . . . 0  
 ACCESS OUTAGE PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED ACCESS TIME . . . . . 80.000 SEC  
 SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000

NTIA-ITS (Boulder) 5507

SOURCE DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 40 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 3.955 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0231  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC

NTIA-ITS (Boulder) 5507

DESTINATION DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 40 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 1.811 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0411  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC

PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

-----  
 NTIA-ITS (Boulder) 5508  
 -----  
 SOURCE USER . . . . . NTIA - ISDN  
 DESTINATION USER . . . . . NTIA - over ACTS  
 ORIGINATING USER . . . . . SOURCE  
 SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
 MEASUREMENT START TIME . . . . . 10/25/94 16:01:26.859 LT  
 MEASUREMENT END TIME . . . . . 10/25/94 16:29:33.318 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

-----  
 NTIA-ITS (Boulder) 5508  
 -----

ACCESS ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

-----  
 ACCESS ATTEMPTS . . . . . 40 (+)  
 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 40  
 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

-----  
 ACCESS TIME . . . . . 23.367 SEC  
 USER FRACTION OF ACCESS TIME . . . . . 0.0048  
 INCORRECT ACCESS PROBABILITY . . . . . 0  
 ACCESS DENIAL PROBABILITY . . . . . 0  
 ACCESS OUTAGE PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

-----  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC  
 SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000

-----  
 NTIA-ITS (Boulder) 5508  
 -----

SOURCE  
 DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

-----  
 DISENGAGEMENT ATTEMPTS . . . . . 40 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

-----  
 DISENGAGEMENT TIME . . . . . 3.894 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0235  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

-----  
 SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC

-----  
 NTIA-ITS (Boulder) 5508  
 -----

DESTINATION  
 DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

-----  
 DISENGAGEMENT ATTEMPTS . . . . . 40 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

-----  
 DISENGAGEMENT TIME . . . . . 1.813 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0410  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

-----  
 SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000  
 SPECIFIED ACCESS TIME . . . . . 80.000 SEC



PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

```

-----
NTIA-ITS (Boulder)                                     5510
-----
SOURCE USER . . . . . NTIA - ISDN
DESTINATION USER . . . . . NTIA - over ACTS
ORIGINATING USER . . . . . SOURCE
SESSION CATEGORY . . . . . CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
MEASUREMENT START TIME . . . . . 10/27/94 14:51:04.942 LT
MEASUREMENT END TIME . . . . . 10/27/94 15:19:24.349 LT
(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)
  
```

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-----
NTIA-ITS (Boulder)                                     5510
-----
  
```

ACCESS ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

```

ACCESS ATTEMPTS . . . . . 40 (+)
'SUCCESSFUL ACCESS' OUTCOMES . . . . . 40
'INCORRECT ACCESS' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0
'ACCESS DENIAL' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0
'ACCESS OUTAGE' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0
  
```

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

```

ACCESS TIME . . . . . 23.712 SEC
USER FRACTION OF ACCESS TIME . . . . . 0.0046
INCORRECT ACCESS PROBABILITY . . . . . 0
ACCESS DENIAL PROBABILITY . . . . . 0
ACCESS OUTAGE PROBABILITY . . . . . 0
  
```

REDUCTION SPECIFICATIONS

```

SPECIFIED ACCESS TIME . . . . . 80.000 SEC
SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 1.5000
  
```

```

-----
NTIA-ITS (Boulder)                                     5510
-----
  
```

SOURCE  
DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

```

DISENGAGEMENT ATTEMPTS . . . . . 40 (+)
'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40
'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
  
```

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

```

DISENGAGEMENT TIME . . . . . 3.875 SEC
USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0235
DISENGAGEMENT DENIAL PROBABILITY . . . . . 0
  
```

REDUCTION SPECIFICATIONS

```

SPECIFIED DISENGAGEMENT TIME . . . . . 45.000 SEC
SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000
SPECIFIED ACCESS TIME . . . . . 80.000 SEC
  
```

```

-----
NTIA-ITS (Boulder)                                     5510
-----
  
```

DESTINATION  
DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

```

DISENGAGEMENT ATTEMPTS . . . . . 40 (+)
'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40
'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
  
```

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

```

DISENGAGEMENT TIME . . . . . 1.815 SEC
USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0409
DISENGAGEMENT DENIAL PROBABILITY . . . . . 0
  
```

REDUCTION SPECIFICATIONS

```

SPECIFIED DISENGAGEMENT TIME . . . . . 5.000 SEC
SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 1.0000
SPECIFIED ACCESS TIME . . . . . 80.000 SEC
  
```



## APPENDIX C

This appendix contains the full characterization test result summaries. Table C1 shows the test number and a description of the tests.<sup>15</sup> The table lists the test summaries in the order they appear in the appendix.

Table C1. Summaries of Individual Full Characterization Tests

Test #	Date	ES#9 Eb/No (dB)	ES#9 Measured BER	ES#3 Eb/No (dB)	ES#3 Measured BER	# of Trials	Summary
5701	1/13/95	25.1	0 errors	26.8	0 errors	20	Modem A/D test - 2000 bytes/block and 10 s between trials
5702	1/13/95	25.1	--	26.9	0 errors	20	"
5708	1/23/95	24.7	0 errors	23.1	0 errors	20	"
5714	1/31/95	24.5	--	23.6	--	20	"
5704	1/13/95	25.1	--	26.8	0 errors	50	Modem UIT test - 4000 bytes/block and 0 between trials
5705	1/13/95	25.1	--	26.8	0 errors	50	"
5706	1/13/95	25.1	--	26.8	0 errors	50	"
5709	1/23/95	24.5	--	23.0	0 errors	50	"
5710	1/23/95	24.5	--	23.0	0 errors	50	"
5711	1/31/95	24.2	--	22.8	--	50	"
5712	1/31/95	24.2	--	22.8	--	50	"
5601	1/4/95	24.5	0 errors	26.3	0 errors	50	X.25 over CKT switched channel UIT test - 4000 bytes/block and 0 s between trials
5602	1/4/95	24.5	0 errors	26.3	0 errors	50	"
5603	1/4/95	24.5	0 errors	26.3	0 errors	50	"
5606	1/17/95	22.1	--	21.7	--	50	"
5607	1/17/95	23.0	--	21.7	--	50	"
5608	1/17/95	23.3	--	21.7	--	50	"
5611	1/24/95	25.1	0 errors	24.5	0 errors	50	"
5612	1/24/95	25.1	0 errors	24.5	0 errors	50	"
5604	1/4/95	24.7	$3.8 \times 10^{-8}$	24.6	0 errors	100	X.25 over CKT switched channel A/D test - 2000 bytes/blcok and 10 s between trials
5605	1/4/95	24.5	$2.0 \times 10^{-8}$	26.3	0 errors	100	"

<sup>15</sup> In the table, A/D stands for Access/Disengagement, CKT stands for circuit, and PKT stands for packet. The symbol "--" in the "Measured BER" column means that during these tests, BER measurements were not recorded.

Table C1 (continued). Summaries of Individual Full Characterization Tests

Test #	Date	ES#9 Eb/No (dB)	ES#9 Measured BER	ES#3 Eb/No (dB)	ES#3 Measured BER	# of Trails	Summary
5609	1/17/95	24.8	--	22.0	--	100	X.25 over CKT switched channel A/D test - 2000 bytes/block and 10 s between trials
5610	1/17/95	24.8	--	22.0	--	100	"
5613	1/24/95	25.1	0 errors	24.5	0 errors	100	"
5614	1/24/95	25.1	0 errors	24.5	0 errors	100	"
5801	12/28/94	24.8	0 errors	26.2	--	50	X.25 over PKT switched channel UIT test - 4000 bytes/block and 0 s between trials
5802	12/28/94	24.8	0 errors	26.2	--	50	"
5803	12/28/94	24.8	0 errors	26.2	--	50	"
5807	1/18/95	24.0	0 errors	20.5	0 errors	50	"
5808	1/18/95	24.2	0 errors	20.7	0 errors	50	"
5813	1/23/95	24.8	0 errors	23.2	0 errors	50	"
5814	1/23/95	24.7	0 errors	23.2	0 errors	50	"
5804	12/28/94	24.8	0 errors	26.2	--	100	ES#3 in coded mode X.25 over PKT switched channel A/D test - 2000 bytes/block and 0 s between trials
5805	1/4/95	24.7	0 errors	--	--	100	same as above except ES#3 not coded
5806	1/4/95	24.5	$4.6 \times 10^{-9}$	26.3	0 errors	100	"
5809	1/18/95	24.4	0 errors	20.9	0 errors	100	"
5810	1/18/95	24.0	0 errors	20.8	0 errors	100	"
5811	1/23/95	24.7	0 errors	23.5	0 errors	100	"
5812	1/23/95	24.5	0 errors	23.2	0 errors	100	"
5901	1/4/95	24.2	$6.3 \times 10^{-8}$	26.1	0 errors	40	ISDN A/D test with the packet router ON - 2000 bytes/block and 10 s between trials
5902	1/4/95	24.5	$4.5 \times 10^{-8}$	26.1	0 errors	40	"
5903	1/10/95	25.1	0 errors	26.4	0 errors	40	ISDN A/D test with the packet router OFF
5904	1/10/95	24.0	$6.8 \times 10^{-8}$	26.3	--	40	"
5905	1/19/95	24.2	0 errors	21.8	--	40	"
5906	1/19/95	23.9	0 errors	21.8	--	40	"
5907	2/6/95	23.8	0 errors	24.5	0 errors	40	ISDN A/D test with the packet router ON
5908	2/6/95	23.6	0 errors	24.5	0 errors	40	"
5909	2/6/95	25.1	0 errors	24.5	0 errors	40	"

\*\*\*\*\*  
 \* PERFORMANCE ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

\*\*\*\*\*  
 \* PERFORMANCE DATA BATCH \*  
 \*\*\*\*\*  
 \* NTIA-ITS (Boulder) 5701 \*  
 \*\*\*\*\*  
 \* SOURCE USER . . . . . NTIA - modem service \*  
 \* DESTINATION USER . . . . . NASA LeRC - over ACTS \*  
 \* ORIGINATING USER . . . . . SOURCE \*  
 \*\*\*\*\*  
 \* SESSION CATEGORY . . . . . CONNECTION ORIENTED \*  
 \* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED \*  
 \* MEASUREMENT START TIME . . . . . 01/13/95 10:27:07.997 LT \*  
 \* MEASUREMENT END TIME . . . . . 01/13/95 10:50:51.177 LT \*  
 \* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE) \*  
 \*\*\*\*\*

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 NTIA-ITS (Boulder) 5701  
 -----

\*\*\*\*\*  
 \* ACCESS ASSESSMENT SUMMARY \*  
 \*\*\*\*\*  
 \* PERFORMANCE STATISTICS \*  
 \*\*\*\*\*  
 \* ACCESS ATTEMPTS . . . . . 20 (+) \*  
 \* 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 20 \*  
 \* 'INCORRECT ACCESS' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0 \*  
 \* 'ACCESS DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0 \*  
 \* 'ACCESS OUTAGE' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \*\*\*\*\*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*\*\*\*\*  
 \* ACCESS TIME . . . . . 50.322 SEC \*  
 \* USER FRACTION OF ACCESS TIME . . . . . 0.0025 \*  
 \* INCORRECT ACCESS PROBABILITY . . . . . 0 \*  
 \* ACCESS DENIAL PROBABILITY . . . . . 0 \*  
 \* ACCESS OUTAGE PROBABILITY . . . . . 0 \*  
 \*\*\*\*\*  
 \* REDUCTION SPECIFICATIONS \*  
 \*\*\*\*\*  
 \* SPECIFIED ACCESS TIME . . . . . 50.040 SEC \*  
 \* SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 0.0100 \*  
 \*\*\*\*\*

-----  
 NTIA-ITS (Boulder) 5701  
 -----  
 \*\*\*\*\*  
 \* SOURCE \*  
 \* DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

\*\*\*\*\*  
 \* PERFORMANCE STATISTICS \*  
 \*\*\*\*\*  
 \* DISENGAGEMENT ATTEMPTS . . . . . 20 (+) \*  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20 \*  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \*\*\*\*\*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*\*\*\*\*  
 \* DISENGAGEMENT TIME . . . . . 6.348 SEC \*  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0143 \*  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 \*  
 \*\*\*\*\*  
 \* REDUCTION SPECIFICATIONS \*  
 \*\*\*\*\*  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 6.590 SEC \*  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500 \*  
 \* SPECIFIED ACCESS TIME . . . . . 50.040 SEC \*  
 \*\*\*\*\*

-----  
 NTIA-ITS (Boulder) 5701  
 -----

\*\*\*\*\*  
 \* DESTINATION \*  
 \* DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \*\*\*\*\*  
 \* PERFORMANCE STATISTICS \*  
 \*\*\*\*\*  
 \* DISENGAGEMENT ATTEMPTS . . . . . 20 (+) \*  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20 \*  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \*\*\*\*\*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*\*\*\*\*  
 \* DISENGAGEMENT TIME . . . . . 2.456 SEC \*  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0299 \*  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 \*  
 \*\*\*\*\*  
 \* REDUCTION SPECIFICATIONS \*  
 \*\*\*\*\*  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 2.440 SEC \*  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500 \*  
 \* SPECIFIED ACCESS TIME . . . . . 50.040 SEC \*  
 \*\*\*\*\*

\*\*\*\*\*  
 \* PERFORMANCE ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

PERFORMANCE DATA BATCH  
 -----  
 NTIA-ITS (Boulder) 5702  
 -----  
 SOURCE USER . . . . . NTIA - modem service  
 DESTINATION USER . . . . . NASA LeRC - over ACTS  
 ORIGINATING USER . . . . . SOURCE  
 SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
 MEASUREMENT START TIME . . . . . 01/13/95 12:01:57.018 LT  
 MEASUREMENT END TIME . . . . . 01/13/95 12:25:41.193 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

-----  
 NTIA-ITS (Boulder) 5702  
 -----

\*\*\*\*\*  
 \* ACCESS ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 ACCESS ATTEMPTS . . . . . 20 (+)  
 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 20  
 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 'PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES' . . . . . 0  
 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 'PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES' . . . . . 0  
 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 'PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES' . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE  
 -----  
 MEASURED PERFORMANCE PARAMETER VALUES  
 -----  
 ACCESS TIME . . . . . 50.350 SEC  
 USER FRACTION OF ACCESS TIME . . . . . 0.0025  
 INCORRECT ACCESS PROBABILITY . . . . . 0  
 ACCESS DENIAL PROBABILITY . . . . . 0  
 ACCESS OUTAGE PROBABILITY . . . . . 0  
 -----  
 REDUCTION SPECIFICATIONS  
 -----  
 SPECIFIED ACCESS TIME . . . . . 50.040 SEC  
 SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 0.0100

-----  
 NTIA-ITS (Boulder) 5702  
 -----

\*\*\*\*\*  
 \* SOURCE DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 DISENGAGEMENT ATTEMPTS . . . . . 20 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 'PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES' . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE  
 -----  
 MEASURED PERFORMANCE PARAMETER VALUES  
 -----  
 DISENGAGEMENT TIME . . . . . 6.377 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0143  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0  
 -----  
 REDUCTION SPECIFICATIONS  
 -----  
 SPECIFIED DISENGAGEMENT TIME . . . . . 6.590 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500  
 SPECIFIED ACCESS TIME . . . . . 50.040 SEC

-----  
 NTIA-ITS (Boulder) 5702  
 -----

\*\*\*\*\*  
 \* DESTINATION DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 DISENGAGEMENT ATTEMPTS . . . . . 20 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 'PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES' . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE  
 -----  
 MEASURED PERFORMANCE PARAMETER VALUES  
 -----  
 DISENGAGEMENT TIME . . . . . 2.455 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0303  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0  
 -----  
 REDUCTION SPECIFICATIONS  
 -----  
 SPECIFIED DISENGAGEMENT TIME . . . . . 2.440 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500  
 SPECIFIED ACCESS TIME . . . . . 50.040 SEC

\*\*\*\*\*  
 \* PERFORMANCE ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

PERFORMANCE DATA BATCH  
 -----  
 \* NTIA-ITS (Boulder) 5708 \*  
 -----  
 \* SOURCE USER . . . . . NTIA - modem service \*  
 \* DESTINATION USER . . . . . NASA LeRC - over ACTS \*  
 \* ORIGINATING USER . . . . . SOURCE \*  
 \* SESSION CATEGORY . . . . . CONNECTION ORIENTED \*  
 \* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED \*  
 \* MEASUREMENT START TIME . . . . . 01/23/95 17:43:20.939 LT \*  
 \* MEASUREMENT END TIME . . . . . 01/23/95 18:07:07.913 LT \*  
 \* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE) \*  
 \*\*\*\*\*

-----  
 \* NTIA-ITS (Boulder) 5708 \*  
 -----

\*\*\*\*\*  
 \* ACCESS ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 \* ACCESS ATTEMPTS . . . . . 20 (+) \*  
 \* 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 20 \*  
 \* 'INCORRECT ACCESS' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0 \*  
 \* 'ACCESS DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0 \*  
 \* 'ACCESS OUTAGE' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*-----\*  
 \* ACCESS TIME . . . . . 50.027 SEC \*  
 \* USER FRACTION OF ACCESS TIME . . . . . 0.0030 \*  
 \*  
 \* INCORRECT ACCESS PROBABILITY . . . . . 0 \*  
 \* ACCESS DENIAL PROBABILITY . . . . . 0 \*  
 \* ACCESS OUTAGE PROBABILITY . . . . . 0 \*  
 \*  
 \* REDUCTION SPECIFICATIONS \*  
 \*-----\*  
 \* SPECIFIED ACCESS TIME . . . . . 50.040 SEC \*  
 \* SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 0.0100 \*  
 \*\*\*\*\*

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 \* NTIA-ITS (Boulder) 5708 \*  
 -----

\*\*\*\*\*  
 \* SOURCE DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 \* DISENGAGEMENT ATTEMPTS . . . . . 20 (+) \*  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20 \*  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*-----\*  
 \* DISENGAGEMENT TIME . . . . . 6.829 SEC \*  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0132 \*  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 \*  
 \*  
 \* REDUCTION SPECIFICATIONS \*  
 \*-----\*  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 6.590 SEC \*  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500 \*  
 \* SPECIFIED ACCESS TIME . . . . . 50.040 SEC \*  
 \*\*\*\*\*

-----  
 \* NTIA-ITS (Boulder) 5708 \*  
 -----

\*\*\*\*\*  
 \* DESTINATION DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 \* DISENGAGEMENT ATTEMPTS . . . . . 20 (+) \*  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20 \*  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*-----\*  
 \* DISENGAGEMENT TIME . . . . . 2.465 SEC \*  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0298 \*  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 \*  
 \*  
 \* REDUCTION SPECIFICATIONS \*  
 \*-----\*  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 2.440 SEC \*  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500 \*  
 \* SPECIFIED ACCESS TIME . . . . . 50.040 SEC \*  
 \*\*\*\*\*

\*\*\*\*\*  
 \* PERFORMANCE ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

PERFORMANCE DATA BATCH  
 -----  
 \* NTIA-ITS (Boulder) 5714 \*  
 \* SOURCE USER . . . . . NTIA - modem service \*  
 \* DESTINATION USER . . . . . NASA LeRC - over ACTS \*  
 \* ORIGINATING USER . . . . . SOURCE \*  
 \* SESSION CATEGORY . . . . . CONNECTION ORIENTED \*  
 \* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED \*  
 \* MEASUREMENT START TIME . . . . . 01/31/95 17:03:08.943 LT \*  
 \* MEASUREMENT END TIME . . . . . 01/31/95 17:26:57.557 LT \*  
 \* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE) \*  
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 \* NTIA-ITS (Boulder) 5714 \*  
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\*\*\*\*\*  
 \* ACCESS ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 \* ACCESS ATTEMPTS . . . . . 20 (+) \*  
 \* 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 20 \*  
 \* 'INCORRECT ACCESS' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0 \*  
 \* 'ACCESS DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0 \*  
 \* 'ACCESS OUTAGE' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \* ----- \*  
 \* ACCESS TIME . . . . . 50.315 SEC \*  
 \* USER FRACTION OF ACCESS TIME . . . . . 0.0025 \*  
 \* INCORRECT ACCESS PROBABILITY . . . . . 0 \*  
 \* ACCESS DENIAL PROBABILITY . . . . . 0 \*  
 \* ACCESS OUTAGE PROBABILITY . . . . . 0 \*  
 \* REDUCTION SPECIFICATIONS \*  
 \* ----- \*  
 \* SPECIFIED ACCESS TIME . . . . . 50.040 SEC \*  
 \* SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 0.0100 \*  
 \*\*\*\*\*

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 \* NTIA-ITS (Boulder) 5714 \*  
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\*\*\*\*\*  
 \* SOURCE \*  
 \* DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 \* DISENGAGEMENT ATTEMPTS . . . . . 20 (+) \*  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20 \*  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \* ----- \*  
 \* DISENGAGEMENT TIME . . . . . 6.618 SEC \*  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0137 \*  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 \*  
 \* REDUCTION SPECIFICATIONS \*  
 \* ----- \*  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 6.590 SEC \*  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500 \*  
 \* SPECIFIED ACCESS TIME . . . . . 50.040 SEC \*  
 \*\*\*\*\*

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 \* NTIA-ITS (Boulder) 5714 \*  
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\*\*\*\*\*  
 \* DESTINATION \*  
 \* DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 \* DISENGAGEMENT ATTEMPTS . . . . . 20 (+) \*  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 20 \*  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \* ----- \*  
 \* DISENGAGEMENT TIME . . . . . 2.455 SEC \*  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0301 \*  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 \*  
 \* REDUCTION SPECIFICATIONS \*  
 \* ----- \*  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 2.440 SEC \*  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500 \*  
 \* SPECIFIED ACCESS TIME . . . . . 50.040 SEC \*  
 \*\*\*\*\*

PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

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NTIA-ITS (Boulder)	5704
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SOURCE USER . . . . .	NTIA - modem service
DESTINATION USER . . . . .	NASA LeRC - over ACTS
ORIGINATING USER . . . . .	SOURCE
SESSION CATEGORY . . . . .	CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY . . . . .	NEGOTIATED
MEASUREMENT START TIME . . . . .	01/13/95 12:54:04.066 LT
MEASUREMENT END TIME . . . . .	01/13/95 12:58:29.528 LT
(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)	

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NTIA-ITS (Boulder) 5704  
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY

CORRELATION SUMMARY

CORRELATOR OUTPUT BLOCKS . . . . .	50
BIT COMPARISON OUTCOMES (BCOS) . . . . .	1600000
'CORRECT' BCOS . . . . .	1600000
'INCORRECT' BCOS . . . . .	0
'UNDELIVERED' BCOS . . . . .	0
'EXTRA' BCOS . . . . .	0
SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . .	50
SOURCE USER INFORMATION BLOCKS CORRELATED . . . . .	50
SOURCE USER INFORMATION BITS TRANSMITTED . . . . .	1600000
SOURCE USER INFORMATION BITS CORRELATED . . . . .	1600000
DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . .	50
DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . .	50
DESTINATION USER INFORMATION BITS RECEIVED . . . . .	1600000
DESTINATION USER INFORMATION BITS CORRELATED . . . . .	1600000

CORRELATOR SPECIFICATIONS

USER INFORMATION WINDOW SIZE . . . . .	16 BITS
MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR IDENTIFICATION ALGORITHM . . . . .	64000 BITS
MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT IDENTIFICATION ALGORITHM . . . . .	96000 BITS
MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT IDENTIFICATION ALGORITHM . . . . .	96000 BITS

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NTIA-ITS (Boulder) 5704  
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY (CONTINUED)

PERFORMANCE STATISTICS

BIT TRANSFER ATTEMPTS . . . . .	1600000 (+)
'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . .	1600000
'INCORRECT BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . .	0
'LOST BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . .	0
'EXTRA BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . .	0
BLOCK TRANSFER ATTEMPTS . . . . .	50 (+)
'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . .	50
'INCORRECT BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . .	0
'LOST BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . .	0
'EXTRA BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . .	0
TRANSFER SAMPLES . . . . .	4 (+)
'TRANSFER DENIAL' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . .	0
INPUT TIME FOR THROUGHPUT SAMPLE . . . . .	195.936 SEC
USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . .	1.769 SEC
OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . .	204.194 SEC
USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . .	2.109 SEC
BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . .	1568000
'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . .	1568000
BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . .	49
(+ ) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE	

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NTIA-ITS (Boulder) 5704  
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY (CONTINUED)

MEASURED PERFORMANCE PARAMETER VALUES

BIT ERROR PROBABILITY . . . . .	0
BIT LOSS PROBABILITY . . . . .	0
EXTRA BIT PROBABILITY . . . . .	0
BLOCK TRANSFER TIME . . . . .	12.570 SEC
USER FRACTION OF BLOCK TRANSFER TIME . . . . .	0.0099
BLOCK ERROR PROBABILITY . . . . .	0
BLOCK LOSS PROBABILITY . . . . .	0
EXTRA BLOCK PROBABILITY . . . . .	0
TRANSFER DENIAL PROBABILITY . . . . .	0
USER INFORMATION BIT TRANSFER RATE . . . . .	7679 BPS
USER FRACTION OF INPUT/OUTPUT TIME . . . . .	0.0103

REDUCTION SPECIFICATIONS

SPECIFIED BLOCK TRANSFER TIME . . . . .	12.540 SEC
SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . .	0.0300
SPECIFIED USER INFORMATION BIT TRANSFER RATE FOR TRANSFER SAMPLE . . . . .	7677 BPS
SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME FOR TRANSFER SAMPLE . . . . .	0.0300
SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-06)
SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-08)
SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-08)
MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS IN TRANSFER SAMPLE . . . . .	320000

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*
* PERFORMANCE ASSESSMENT SUMMARY
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*
* PERFORMANCE DATA BATCH
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* NTIA-ITS (Boulder) 5705
*
* SOURCE USER . . . . . NTIA - modem service
* DESTINATION USER . . . . . NASA LeRC - over ACTS
* ORIGINATING USER . . . . . SOURCE
*
* SESSION CATEGORY . . . . . CONNECTION ORIENTED
* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
*
* MEASUREMENT START TIME . . . . . 01/13/95 12:59:49.065 LT
* MEASUREMENT END TIME . . . . . 01/13/95 13:04:13.705 LT
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* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)
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* NTIA-ITS (Boulder) 5705
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*****
* USER INFORMATION TRANSFER ASSESSMENT SUMMARY
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*
* CORRELATION SUMMARY
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* CORRELATOR OUTPUT BLOCKS . . . . . 50
* BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000
* 'CORRECT' BCOS . . . . . 1600000
* 'INCORRECT' BCOS . . . . . 0
* 'UNDELIVERED' BCOS . . . . . 0
* 'EXTRA' BCOS . . . . . 0
* SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50
* SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50
* SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000
* SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000
* DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50
* DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50
* DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000
* DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000
*
* CORRELATOR SPECIFICATIONS
*
-----
* USER INFORMATION WINDOW SIZE . . . . . 16 BITS
* MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR
* IDENTIFICATION ALGORITHM . . . . . 64000 BITS
* MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT
* IDENTIFICATION ALGORITHM . . . . . 96000 BITS
* MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT
* IDENTIFICATION ALGORITHM . . . . . 96000 BITS
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* NTIA-ITS (Boulder) 5705
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*****
* USER INFORMATION TRANSFER ASSESSMENT SUMMARY
* (CONTINUED)
*
*****
* PERFORMANCE STATISTICS
*
-----
* BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)
* 'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000
* 'INCORRECT BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0
* 'LOST BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0
* 'EXTRA BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0
*
* BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)
* 'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50
* 'INCORRECT BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0
* 'LOST BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0
* 'EXTRA BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0
*
* TRANSFER SAMPLES . . . . . 4 (+)
* 'TRANSFER DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0
*
* INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 195.936 SEC
* USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.880 SEC
* OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 204.150 SEC
* USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 2.271 SEC
* BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000
* 'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000
* BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
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* NTIA-ITS (Boulder) 5705
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*****
* USER INFORMATION TRANSFER ASSESSMENT SUMMARY
* (CONTINUED)
*
*****
* MEASURED PERFORMANCE PARAMETER VALUES
*
-----
* BIT ERROR PROBABILITY . . . . . 0
* BIT LOSS PROBABILITY . . . . . 0
* EXTRA BIT PROBABILITY . . . . . 0
*
* BLOCK TRANSFER TIME . . . . . 12.639 SEC
* USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0106
*
* BLOCK ERROR PROBABILITY . . . . . 0
* BLOCK LOSS PROBABILITY . . . . . 0
* EXTRA BLOCK PROBABILITY . . . . . 0
*
* TRANSFER DENIAL PROBABILITY . . . . . 0
*
* USER INFORMATION BIT TRANSFER RATE . . . . . 7681 BPS
* USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0111
*
* REDUCTION SPECIFICATIONS
*
-----
* SPECIFIED BLOCK TRANSFER TIME . . . . . 12.540 SEC
* SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0300
*
* SPECIFIED USER INFORMATION BIT TRANSFER RATE
* FOR TRANSFER SAMPLE . . . . . 7677 BPS
* SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME
* FOR TRANSFER SAMPLE . . . . . 0.0300
*
* SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-06)
* SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
* SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
*
* MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS
* IN TRANSFER SAMPLE . . . . . 320000
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 \* PERFORMANCE ASSESSMENT SUMMARY \*  
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PERFORMANCE DATA BATCH

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NTIA-ITS (Boulder)	5706
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SOURCE USER . . . . .	NTIA - modem service
DESTINATION USER . . . . .	NASA LeRC - over ACTS
ORIGINATING USER . . . . .	SOURCE
SESSION CATEGORY . . . . .	CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY . . . . .	NEGOTIATED
MEASUREMENT START TIME . . . . .	01/13/95 13:05:25.059 LT
MEASUREMENT END TIME . . . . .	01/13/95 13:09:50.653 LT
(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)	

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NTIA-ITS (Boulder)	5706
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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
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CORRELATION SUMMARY

CORRELATOR OUTPUT BLOCKS . . . . .	50
BIT COMPARISON OUTCOMES (BCOS) . . . . .	1600000
'CORRECT' BCOS . . . . .	1600000
'INCORRECT' BCOS . . . . .	0
'UNDELIVERED' BCOS . . . . .	0
'EXTRA' BCOS . . . . .	0
SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . .	50
SOURCE USER INFORMATION BLOCKS CORRELATED . . . . .	50
SOURCE USER INFORMATION BITS TRANSMITTED . . . . .	1600000
SOURCE USER INFORMATION BITS CORRELATED . . . . .	1600000
DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . .	50
DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . .	50
DESTINATION USER INFORMATION BITS RECEIVED . . . . .	1600000
DESTINATION USER INFORMATION BITS CORRELATED . . . . .	1600000

CORRELATOR SPECIFICATIONS

USER INFORMATION WINDOW SIZE . . . . .	16 BITS
MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR IDENTIFICATION ALGORITHM . . . . .	64000 BITS
MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT IDENTIFICATION ALGORITHM . . . . .	96000 BITS
MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT IDENTIFICATION ALGORITHM . . . . .	96000 BITS

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NTIA-ITS (Boulder)	5706
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY (CONTINUED)

PERFORMANCE STATISTICS

BIT TRANSFER ATTEMPTS . . . . .	1600000 (+)
'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . .	1600000
'INCORRECT BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . .	0
'LOST BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . .	0
'EXTRA BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . .	0
BLOCK TRANSFER ATTEMPTS . . . . .	50 (+)
'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . .	50
'INCORRECT BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . .	0
'LOST BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . .	0
'EXTRA BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . .	0
TRANSFER SAMPLES . . . . .	4 (+)
'TRANSFER DENIAL' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . .	0
INPUT TIME FOR THROUGHPUT SAMPLE . . . . .	195.937 SEC
USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . .	1.769 SEC
OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . .	204.235 SEC
USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . .	2.303 SEC
BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . .	1568000
'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . .	1568000
BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . .	49

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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NTIA-ITS (Boulder)	5706
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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
 \* \*\*\*\*\*

MEASURED PERFORMANCE PARAMETER VALUES

BIT ERROR PROBABILITY . . . . .	0
BIT LOSS PROBABILITY . . . . .	0
EXTRA BIT PROBABILITY . . . . .	0
BLOCK TRANSFER TIME . . . . .	12.779 SEC
USER FRACTION OF BLOCK TRANSFER TIME . . . . .	0.0106
BLOCK ERROR PROBABILITY . . . . .	0
BLOCK LOSS PROBABILITY . . . . .	0
EXTRA BLOCK PROBABILITY . . . . .	0
TRANSFER DENIAL PROBABILITY . . . . .	0
USER INFORMATION BIT TRANSFER RATE . . . . .	7677 BPS
USER FRACTION OF INPUT/OUTPUT TIME . . . . .	0.0113

REDUCTION SPECIFICATIONS

SPECIFIED BLOCK TRANSFER TIME . . . . .	12.540 SEC
SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . .	0.0300
SPECIFIED USER INFORMATION BIT TRANSFER RATE FOR TRANSFER SAMPLE . . . . .	7677 BPS
SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME FOR TRANSFER SAMPLE . . . . .	0.0300
SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-06)
SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-08)
SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-08)
MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS IN TRANSFER SAMPLE . . . . .	320000

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*
* PERFORMANCE ASSESSMENT SUMMARY
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*
* PERFORMANCE DATA BATCH
*
*-----*
* NTIA-ITS (Boulder) 5709
*-----*
*
* SOURCE USER . . . . . NTIA - modem service
*
* DESTINATION USER . . . . . NASA LeRC - over ACTS
*
* ORIGINATING USER . . . . . SOURCE
*
* SESSION CATEGORY . . . . . CONNECTION ORIENTED
*
* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
*
* MEASUREMENT START TIME . . . . . 01/23/95 18:08:30.052 LT
*
* MEASUREMENT END TIME . . . . . 01/23/95 18:11:10.967 LT
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* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)
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* NTIA-ITS (Boulder) 5709
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*
* USER INFORMATION TRANSFER ASSESSMENT SUMMARY
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*-----*
* CORRELATION SUMMARY
*-----*
*
* CORRELATOR OUTPUT BLOCKS . . . . . 50
*
* BIT COMPARISON OUTCOMES (BCOS) . . . . . 800000
* 'CORRECT' BCOS . . . . . 800000
* 'INCORRECT' BCOS . . . . . 0
* 'UNDELIVERED' BCOS . . . . . 0
* 'EXTRA' BCOS . . . . . 0
*
* SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50
* SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50
*
* SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 800000
* SOURCE USER INFORMATION BITS CORRELATED . . . . . 800000
*
* DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50
* DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50
*
* DESTINATION USER INFORMATION BITS RECEIVED . . . . . 800000
* DESTINATION USER INFORMATION BITS CORRELATED . . . . . 800000
*
*-----*
* CORRELATOR SPECIFICATIONS
*-----*
*
* USER INFORMATION WINDOW SIZE . . . . . 16 BITS
*
* MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR
* IDENTIFICATION ALGORITHM . . . . . 64000 BITS
*
* MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT
* IDENTIFICATION ALGORITHM . . . . . 96000 BITS
*
* MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT
* IDENTIFICATION ALGORITHM . . . . . 96000 BITS
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* NTIA-ITS (Boulder) 5709
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*
* USER INFORMATION TRANSFER ASSESSMENT SUMMARY
* (CONTINUED)
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* PERFORMANCE STATISTICS
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*
* BIT TRANSFER ATTEMPTS . . . . . 800000 (+)
* 'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 800000
* 'INCORRECT BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0
* 'LOST BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0
* 'EXTRA BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0
*
* BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)
* 'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50
* 'INCORRECT BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0
* 'LOST BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0
* 'EXTRA BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0
*
* TRANSFER SAMPLES . . . . . 2 (+)
* 'TRANSFER DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0
*
* INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 95.965 SEC
* USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.772 SEC
* OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 102.130 SEC
* USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 2.415 SEC
* BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 784000
* 'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 784000
* BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49
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* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
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* NTIA-ITS (Boulder) 5709
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* USER INFORMATION TRANSFER ASSESSMENT SUMMARY
* (CONTINUED)
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*-----*
* MEASURED PERFORMANCE PARAMETER VALUES
*-----*
*
* BIT ERROR PROBABILITY . . . . . 0
* BIT LOSS PROBABILITY . . . . . 0
* EXTRA BIT PROBABILITY . . . . . 0
*
* BLOCK TRANSFER TIME . . . . . 7.440 SEC
* USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0223
*
* BLOCK ERROR PROBABILITY . . . . . 0
* BLOCK LOSS PROBABILITY . . . . . 0
* EXTRA BLOCK PROBABILITY . . . . . 0
*
* TRANSFER DENIAL PROBABILITY . . . . . 0
*
* USER INFORMATION BIT TRANSFER RATE . . . . . 7676 BPS
* USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0236
*
*-----*
* REDUCTION SPECIFICATIONS
*-----*
*
* SPECIFIED BLOCK TRANSFER TIME . . . . . 12.540 SEC
* SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0300
*
* SPECIFIED USER INFORMATION BIT TRANSFER RATE
* FOR TRANSFER SAMPLE . . . . . 7677 BPS
* SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME
* FOR TRANSFER SAMPLE . . . . . 0.0300
*
* SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-06)
* SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
* SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
*
* MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS
* IN TRANSFER SAMPLE . . . . . 320000
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 \* PERFORMANCE ASSESSMENT SUMMARY \*  
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 PERFORMANCE DATA BATCH  
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NTIA-ITS (Boulder)	5710
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SOURCE USER . . . . .	NTIA - modem service
DESTINATION USER . . . . .	NASA LeRC - over ACTS
ORIGINATING USER . . . . .	SOURCE
-----	
SESSION CATEGORY . . . . .	CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY . . . . .	NEGOTIATED
MEASUREMENT START TIME . . . . .	01/23/95 18:11:38.045 LT
MEASUREMENT END TIME . . . . .	01/23/95 18:14:19.000 LT
(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)	

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 NTIA-ITS (Boulder) 5710  
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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
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 CORRELATION SUMMARY  
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CORRELATOR OUTPUT BLOCKS . . . . .	50
BIT COMPARISON OUTCOMES (BCOS) . . . . .	800000
'CORRECT' BCOS . . . . .	800000
'INCORRECT' BCOS . . . . .	0
'UNDELIVERED' BCOS . . . . .	0
'EXTRA' BCOS . . . . .	0
-----	
SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . .	50
SOURCE USER INFORMATION BLOCKS CORRELATED . . . . .	50
SOURCE USER INFORMATION BITS TRANSMITTED . . . . .	800000
SOURCE USER INFORMATION BITS CORRELATED . . . . .	800000
DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . .	50
DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . .	50
DESTINATION USER INFORMATION BITS RECEIVED . . . . .	800000
DESTINATION USER INFORMATION BITS CORRELATED . . . . .	800000
-----	
CORRELATOR SPECIFICATIONS	
-----	
USER INFORMATION WINDOW SIZE . . . . .	16 BITS
MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR IDENTIFICATION ALGORITHM . . . . .	64000 BITS
MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT IDENTIFICATION ALGORITHM . . . . .	96000 BITS
MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT IDENTIFICATION ALGORITHM . . . . .	96000 BITS

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 NTIA-ITS (Boulder) 5710  
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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
 \* (CONTINUED) \*  
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 PERFORMANCE STATISTICS  
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BIT TRANSFER ATTEMPTS . . . . .	800000 (+)
'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . .	800000
'INCORRECT BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . .	0
'LOST BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . .	0
'EXTRA BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . .	0
-----	
BLOCK TRANSFER ATTEMPTS . . . . .	50 (+)
'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . .	50
'INCORRECT BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . .	0
'LOST BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . .	0
'EXTRA BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . .	0
-----	
TRANSFER SAMPLES . . . . .	2 (+)
'TRANSFER DENIAL' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . .	0
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INPUT TIME FOR THROUGHPUT SAMPLE . . . . .	95.963 SEC
USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . .	1.772 SEC
OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . .	102.165 SEC
USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . .	2.571 SEC
BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . .	784000
'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . .	784000
BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . .	49

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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 NTIA-ITS (Boulder) 5710  
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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
 \* (CONTINUED) \*  
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 MEASURED PERFORMANCE PARAMETER VALUES  
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BIT ERROR PROBABILITY . . . . .	0
BIT LOSS PROBABILITY . . . . .	0
EXTRA BIT PROBABILITY . . . . .	0
-----	
BLOCK TRANSFER TIME . . . . .	7.470 SEC
USER FRACTION OF BLOCK TRANSFER TIME . . . . .	0.0233
-----	
BLOCK ERROR PROBABILITY . . . . .	0
BLOCK LOSS PROBABILITY . . . . .	0
EXTRA BLOCK PROBABILITY . . . . .	0
-----	
TRANSFER DENIAL PROBABILITY . . . . .	0
USER INFORMATION BIT TRANSFER RATE . . . . .	7674 BPS
USER FRACTION OF INPUT/OUTPUT TIME . . . . .	0.0252
-----	
REDUCTION SPECIFICATIONS	
-----	
SPECIFIED BLOCK TRANSFER TIME . . . . .	12.540 SEC
SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . .	0.0300
-----	
SPECIFIED USER INFORMATION BIT TRANSFER RATE FOR TRANSFER SAMPLE . . . . .	7677 BPS
SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME FOR TRANSFER SAMPLE . . . . .	0.0300
-----	
SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-06)
SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-08)
SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-08)
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MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS IN TRANSFER SAMPLE . . . . .	320000

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PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

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 NTIA-ITS (Boulder) 5711  
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 SOURCE USER . . . . . NTIA - modem service  
 DESTINATION USER . . . . . NASA LeRC - over ACTS  
 ORIGINATING USER . . . . . SOURCE  
 SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
 MEASUREMENT START TIME . . . . . 01/31/95 15:19:28.297 LT  
 MEASUREMENT END TIME . . . . . 01/31/95 15:23:52.251 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

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 NTIA-ITS (Boulder) 5711  
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY

CORRELATION SUMMARY

CORRELATOR OUTPUT BLOCKS . . . . . 50  
 BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000  
 'CORRECT' BCOS . . . . . 1599992  
 'INCORRECT' BCOS . . . . . 0  
 'UNDELIVERED' BCOS . . . . . 8  
 'EXTRA' BCOS . . . . . 0  
 SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50  
 SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50  
 SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000  
 SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000  
 DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50  
 DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50  
 DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1599992  
 DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1599992

CORRELATOR SPECIFICATIONS

USER INFORMATION WINDOW SIZE . . . . . 16 BITS  
 MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR  
 IDENTIFICATION ALGORITHM . . . . . 64000 BITS  
 MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT  
 IDENTIFICATION ALGORITHM . . . . . 96000 BITS  
 MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT  
 IDENTIFICATION ALGORITHM . . . . . 96000 BITS

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 NTIA-ITS (Boulder) 5711  
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY  
 (CONTINUED)

PERFORMANCE STATISTICS

BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)  
 'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1599992  
 'INCORRECT BIT' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0  
 'LOST BIT' OUTCOMES . . . . . 8  
 PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 7  
 'EXTRA BIT' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0  
 BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)  
 'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 49  
 'INCORRECT BLOCK' OUTCOMES . . . . . 1  
 PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0  
 'LOST BLOCK' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0  
 'EXTRA BLOCK' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0  
 TRANSFER SAMPLES . . . . . 4 (+)  
 'TRANSFER DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0  
 INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 195.938 SEC  
 USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.769 SEC  
 OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 204.253 SEC  
 USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 2.145 SEC  
 BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000  
 'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1567992  
 BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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 NTIA-ITS (Boulder) 5711  
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY  
 (CONTINUED)

MEASURED PERFORMANCE PARAMETER VALUES

BIT ERROR PROBABILITY . . . . . 0  
 BIT LOSS PROBABILITY . . . . . 5.0 X 10(-06)  
 EXTRA BIT PROBABILITY . . . . . 0  
 BLOCK TRANSFER TIME . . . . . 12.576 SEC  
 USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0101  
 BLOCK ERROR PROBABILITY . . . . . 2.0 X 10(-02)  
 BLOCK LOSS PROBABILITY . . . . . 0  
 EXTRA BLOCK PROBABILITY . . . . . 0  
 TRANSFER DENIAL PROBABILITY . . . . . 0  
 USER INFORMATION BIT TRANSFER RATE . . . . . 7677 BPS  
 USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0105

REDUCTION SPECIFICATIONS

SPECIFIED BLOCK TRANSFER TIME . . . . . 12.540 SEC  
 SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0300  
 SPECIFIED USER INFORMATION BIT TRANSFER RATE  
 FOR TRANSFER SAMPLE . . . . . 7677 BPS  
 SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME  
 FOR TRANSFER SAMPLE . . . . . 0.0300  
 SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-06)  
 SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)  
 SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)  
 MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS  
 IN TRANSFER SAMPLE . . . . . 320000

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 \* PERFORMANCE ASSESSMENT SUMMARY \*  
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PERFORMANCE DATA BATCH

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NTIA-ITS (Boulder)	5712
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SOURCE USER . . . . .	NTIA - modem service
DESTINATION USER . . . . .	NASA LeRC - over ACTS
ORIGINATING USER . . . . .	SOURCE
SESSION CATEGORY . . . . .	CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY . . . . .	NEGOTIATED
MEASUREMENT START TIME . . . . .	01/31/95 15:24:45.048 LT
MEASUREMENT END TIME . . . . .	01/31/95 15:29:10.291 LT
(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)	

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 NTIA-ITS (Boulder) 5712  
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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
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CORRELATION SUMMARY

CORRELATOR OUTPUT BLOCKS . . . . .	50
'CORRECT' BCOS . . . . .	1600000
'INCORRECT' BCOS . . . . .	1600000
'UNDELIVERED' BCOS . . . . .	0
'EXTRA' BCOS . . . . .	0
SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . .	50
SOURCE USER INFORMATION BLOCKS CORRELATED . . . . .	50
SOURCE USER INFORMATION BITS TRANSMITTED . . . . .	1600000
SOURCE USER INFORMATION BITS CORRELATED . . . . .	1600000
DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . .	50
DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . .	50
DESTINATION USER INFORMATION BITS RECEIVED . . . . .	1600000
DESTINATION USER INFORMATION BITS CORRELATED . . . . .	1600000

CORRELATOR SPECIFICATIONS

USER INFORMATION WINDOW SIZE . . . . .	16 BITS
MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR IDENTIFICATION ALGORITHM . . . . .	64000 BITS
MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT IDENTIFICATION ALGORITHM . . . . .	96000 BITS
MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT IDENTIFICATION ALGORITHM . . . . .	96000 BITS

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 NTIA-ITS (Boulder) 5712  
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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
 \* (CONTINUED) \*  
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PERFORMANCE STATISTICS

BIT TRANSFER ATTEMPTS . . . . .	1600000 (+)
'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . .	1600000
'INCORRECT BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . .	0
'LOST BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . .	0
'EXTRA BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . .	0
BLOCK TRANSFER ATTEMPTS . . . . .	50 (+)
'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . .	50
'INCORRECT BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . .	0
'LOST BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . .	0
'EXTRA BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . .	0
TRANSFER SAMPLES . . . . .	4 (+)
'TRANSFER DENIAL' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . .	0
INPUT TIME FOR THROUGHPUT SAMPLE . . . . .	195.936 SEC
USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . .	1.772 SEC
OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . .	204.234 SEC
USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . .	2.065 SEC
BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . .	1568000
'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . .	1568000
BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . .	49

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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 NTIA-ITS (Boulder) 5712  
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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
 \* (CONTINUED) \*  
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MEASURED PERFORMANCE PARAMETER VALUES

BIT ERROR PROBABILITY . . . . .	0
BIT LOSS PROBABILITY . . . . .	0
EXTRA BIT PROBABILITY . . . . .	0
BLOCK TRANSFER TIME . . . . .	12.579 SEC
USER FRACTION OF BLOCK TRANSFER TIME . . . . .	0.0097
BLOCK ERROR PROBABILITY . . . . .	0
BLOCK LOSS PROBABILITY . . . . .	0
EXTRA BLOCK PROBABILITY . . . . .	0
TRANSFER DENIAL PROBABILITY . . . . .	0
USER INFORMATION BIT TRANSFER RATE . . . . .	7677 BPS
USER FRACTION OF INPUT/OUTPUT TIME . . . . .	0.0101

REDUCTION SPECIFICATIONS

SPECIFIED BLOCK TRANSFER TIME . . . . .	12.540 SEC
SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . .	0.0300
SPECIFIED USER INFORMATION BIT TRANSFER RATE FOR TRANSFER SAMPLE . . . . .	7677 BPS
SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME FOR TRANSFER SAMPLE . . . . .	0.0300
SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10 <sup>(-06)</sup>
SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10 <sup>(-08)</sup>
SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10 <sup>(-08)</sup>
MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS IN TRANSFER SAMPLE . . . . .	320000

PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

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NTIA-ITS (Boulder)                               5601
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SOURCE USER . . . . . NTIA - x.25 over ckt channel
DESTINATION USER . . . . . NASA LeRC - over ACTS
ORIGINATING USER . . . . . SOURCE

SESSION CATEGORY . . . . . CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED

MEASUREMENT START TIME . . . . . 01/05/95 16:04:43.978 LT
MEASUREMENT END TIME . . . . . 01/05/95 16:05:11.431 LT

(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)
    
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NTIA-ITS (Boulder) 5601

USER INFORMATION TRANSFER ASSESSMENT SUMMARY

CORRELATION SUMMARY

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CORRELATOR OUTPUT BLOCKS . . . . . 50
BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000
'CORRECT' BCOS . . . . . 1600000
'INCORRECT' BCOS . . . . . 0
'UNDELIVERED' BCOS . . . . . 0
'EXTRA' BCOS . . . . . 0

SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50
SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50

SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000
SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000

DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50
DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50

DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000
DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000
    
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CORRELATOR SPECIFICATIONS

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USER INFORMATION WINDOW SIZE . . . . . 16 BITS
MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR
IDENTIFICATION ALGORITHM . . . . . 64000 BITS
MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT
IDENTIFICATION ALGORITHM . . . . . 96000 BITS
MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT
IDENTIFICATION ALGORITHM . . . . . 96000 BITS
    
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NTIA-ITS (Boulder) 5601

USER INFORMATION TRANSFER ASSESSMENT SUMMARY (CONTINUED)

PERFORMANCE STATISTICS

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BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)
'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000
'INCORRECT BIT' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0
'LOST BIT' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0
'EXTRA BIT' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0

BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)
'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50
'INCORRECT BLOCK' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0
'LOST BLOCK' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0
'EXTRA BLOCK' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0

TRANSFER SAMPLES . . . . . 4 (+)
'TRANSFER DENIAL' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0

INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 10.237 SEC
USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.667 SEC
OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 24.927 SEC
USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.676 SEC
BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000
'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000
BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49
    
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(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

NTIA-ITS (Boulder) 5601

USER INFORMATION TRANSFER ASSESSMENT SUMMARY (CONTINUED)

MEASURED PERFORMANCE PARAMETER VALUES

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BIT ERROR PROBABILITY . . . . . 0
BIT LOSS PROBABILITY . . . . . 0
EXTRA BIT PROBABILITY . . . . . 0

BLOCK TRANSFER TIME . . . . . 9.660 SEC
USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0739

BLOCK ERROR PROBABILITY . . . . . 0
BLOCK LOSS PROBABILITY . . . . . 0
EXTRA BLOCK PROBABILITY . . . . . 0

TRANSFER DENIAL PROBABILITY . . . . . 0

USER INFORMATION BIT TRANSFER RATE . . . . . 62904 BPS
USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0672
    
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REDUCTION SPECIFICATIONS

```

SPECIFIED BLOCK TRANSFER TIME . . . . . 9.670 SEC
SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0800

SPECIFIED USER INFORMATION BIT TRANSFER RATE
FOR TRANSFER SAMPLE . . . . . 63020 BPS
SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME
FOR TRANSFER SAMPLE . . . . . 0.0700

SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-06)
SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)

MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS
IN TRANSFER SAMPLE . . . . . 320000
    
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*****
*
* PERFORMANCE ASSESSMENT SUMMARY
*
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*
* PERFORMANCE DATA BATCH
*
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* NTIA-ITS (Boulder) 5602
*
* SOURCE USER . . . . . NTIA - x.25 over ckt channel
* DESTINATION USER . . . . . NASA LeRC - over ACTS
* ORIGINATING USER . . . . . SOURCE
*
* SESSION CATEGORY . . . . . CONNECTION ORIENTED
* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
* MEASUREMENT START TIME . . . . . 01/05/95 16:08:13.971 LT
* MEASUREMENT END TIME . . . . . 01/05/95 16:08:41.350 LT
* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)
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NTIA-ITS (Boulder) 5602
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*****
* USER INFORMATION TRANSFER ASSESSMENT SUMMARY
*
*****
*
* CORRELATION SUMMARY
*
CORRELATOR OUTPUT BLOCKS . . . . . 50
* BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000
* 'CORRECT' BCOS . . . . . 1600000
* 'INCORRECT' BCOS . . . . . 0
* 'UNDELIVERED' BCOS . . . . . 0
* 'EXTRA' BCOS . . . . . 0
* SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50
* SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50
* SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000
* SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000
* DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50
* DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50
* DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000
* DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000
*
* CORRELATOR SPECIFICATIONS
*
USER INFORMATION WINDOW SIZE . . . . . 16 BITS
* MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR
  IDENTIFICATION ALGORITHM . . . . . 64000 BITS
* MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT
  IDENTIFICATION ALGORITHM . . . . . 96000 BITS
* MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT
  IDENTIFICATION ALGORITHM . . . . . 96000 BITS
*
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NTIA-ITS (Boulder) 5602
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*
* USER INFORMATION TRANSFER ASSESSMENT SUMMARY
* (CONTINUED)
*
*****
*
* PERFORMANCE STATISTICS
*
BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)
* 'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000
* 'INCORRECT BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0
* 'LOST BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0
* 'EXTRA BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0
*
BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)
* 'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50
* 'INCORRECT BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0
* 'LOST BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0
* 'EXTRA BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0
*
TRANSFER SAMPLES . . . . . 4 (+)
* 'TRANSFER DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0
*
INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 10.253 SEC
* USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.712 SEC
* OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 24.856 SEC
* USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.675 SEC
* BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000
* 'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000
* BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49
*
*(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
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NTIA-ITS (Boulder) 5602
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*****
* USER INFORMATION TRANSFER ASSESSMENT SUMMARY
* (CONTINUED)
*
*****
*
* MEASURED PERFORMANCE PARAMETER VALUES
*
BIT ERROR PROBABILITY . . . . . 0
* BIT LOSS PROBABILITY . . . . . 0
* EXTRA BIT PROBABILITY . . . . . 0
*
BLOCK TRANSFER TIME . . . . . 9.637 SEC
* USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0862
*
BLOCK ERROR PROBABILITY . . . . . 0
* BLOCK LOSS PROBABILITY . . . . . 0
* EXTRA BLOCK PROBABILITY . . . . . 0
*
TRANSFER DENIAL PROBABILITY . . . . . 0
*
USER INFORMATION BIT TRANSFER RATE . . . . . 63083 BPS
* USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0689
*
*
* REDUCTION SPECIFICATIONS
*
SPECIFIED BLOCK TRANSFER TIME . . . . . 9.670 SEC
* SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0800
*
SPECIFIED USER INFORMATION BIT TRANSFER RATE
  FOR TRANSFER SAMPLE . . . . . 63020 BPS
* SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME
  FOR TRANSFER SAMPLE . . . . . 0.0700
*
SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-06)
* SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
* SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
*
MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS
  IN TRANSFER SAMPLE . . . . . 320000
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 \*  
 \* PERFORMANCE ASSESSMENT SUMMARY \*  
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PERFORMANCE DATA BATCH

NTIA-ITS (Boulder)	5603
SOURCE USER . . . . .	NTIA - x.25 over ckt channel
DESTINATION USER . . . . .	NASA LeRC - over ACTS
ORIGINATING USER . . . . .	SOURCE
SESSION CATEGORY . . . . .	CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY . . . . .	NEGOTIATED
MEASUREMENT START TIME . . . . .	01/05/95 16:09:30.972 LT
MEASUREMENT END TIME . . . . .	01/05/95 16:09:58.356 LT
(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)	

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 NTIA-ITS (Boulder) 5603  
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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
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CORRELATION SUMMARY

CORRELATOR OUTPUT BLOCKS . . . . .	50
BIT COMPARISON OUTCOMES (BCOS) . . . . .	1600000
'CORRECT' BCOS . . . . .	1600000
'INCORRECT' BCOS . . . . .	0
'UNDELIVERED' BCOS . . . . .	0
'EXTRA' BCOS . . . . .	0
SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . .	50
SOURCE USER INFORMATION BLOCKS CORRELATED . . . . .	50
SOURCE USER INFORMATION BITS TRANSMITTED . . . . .	1600000
SOURCE USER INFORMATION BITS CORRELATED . . . . .	1600000
DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . .	50
DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . .	50
DESTINATION USER INFORMATION BITS RECEIVED . . . . .	1600000
DESTINATION USER INFORMATION BITS CORRELATED . . . . .	1600000

CORRELATOR SPECIFICATIONS

USER INFORMATION WINDOW SIZE . . . . .	16 BITS
MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR . . . . .	
IDENTIFICATION ALGORITHM . . . . .	64000 BITS
MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT . . . . .	
IDENTIFICATION ALGORITHM . . . . .	96000 BITS
MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT . . . . .	
IDENTIFICATION ALGORITHM . . . . .	96000 BITS

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 NTIA-ITS (Boulder) 5603  
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 \*  
 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
 \* (CONTINUED) \*  
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PERFORMANCE STATISTICS

BIT TRANSFER ATTEMPTS . . . . .	1600000 (+)
'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . .	1600000
'INCORRECT BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . .	0
'LOST BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . .	0
'EXTRA BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . .	0
BLOCK TRANSFER ATTEMPTS . . . . .	50 (+)
'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . .	50
'INCORRECT BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . .	0
'LOST BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . .	0
'EXTRA BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . .	0
TRANSFER SAMPLES . . . . .	4 (+)
'TRANSFER DENIAL' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . .	0
INPUT TIME FOR THROUGHPUT SAMPLE . . . . .	10.137 SEC
USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . .	1.676 SEC
OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . .	24.921 SEC
USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . .	1.672 SEC
BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . .	156000
'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . .	1568000
BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . .	49

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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 NTIA-ITS (Boulder) 5603  
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 \*  
 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
 \* (CONTINUED) \*  
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MEASURED PERFORMANCE PARAMETER VALUES

BIT ERROR PROBABILITY . . . . .	0
BIT LOSS PROBABILITY . . . . .	0
EXTRA BIT PROBABILITY . . . . .	0
BLOCK TRANSFER TIME . . . . .	9.697 SEC
USER FRACTION OF BLOCK TRANSFER TIME . . . . .	0.0738
BLOCK ERROR PROBABILITY . . . . .	0
BLOCK LOSS PROBABILITY . . . . .	0
EXTRA BLOCK PROBABILITY . . . . .	0
TRANSFER DENIAL PROBABILITY . . . . .	0
USER INFORMATION BIT TRANSFER RATE . . . . .	62919 BPS
USER FRACTION OF INPUT/OUTPUT TIME . . . . .	0.0673

REDUCTION SPECIFICATIONS

SPECIFIED BLOCK TRANSFER TIME . . . . .	9.670 SEC
SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . .	0.0800
SPECIFIED USER INFORMATION BIT TRANSFER RATE . . . . .	
FOR TRANSFER SAMPLE . . . . .	63020 BPS
SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME . . . . .	
FOR TRANSFER SAMPLE . . . . .	0.0700
SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-06)
SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-08)
SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-08)
MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS . . . . .	
IN TRANSFER SAMPLE . . . . .	320000



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*
* PERFORMANCE ASSESSMENT SUMMARY
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*
* PERFORMANCE DATA BATCH
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*-----
* NTIA-ITS (Boulder) 5606
*-----
*
* SOURCE USER . . . . . NTIA - x.25 over ckt channel
* DESTINATION USER . . . . . NASA LeRC - over ACTS
* ORIGINATING USER . . . . . SOURCE
*
* SESSION CATEGORY . . . . . CONNECTION ORIENTED
* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
*
* MEASUREMENT START TIME . . . . . 01/17/95 14:19:34.105 LT
* MEASUREMENT END TIME . . . . . 01/17/95 14:20:01.559 LT
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* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)
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NTIA-ITS (Boulder) 5606
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*
* USER INFORMATION TRANSFER ASSESSMENT SUMMARY
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*-----
* CORRELATION SUMMARY
*-----
*
* CORRELATOR OUTPUT BLOCKS . . . . . 50
* BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000
* 'CORRECT' BCOS . . . . . 1600000
* 'INCORRECT' BCOS . . . . . 0
* 'UNDELIVERED' BCOS . . . . . 0
* 'EXTRA' BCOS . . . . . 0
*
* SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50
* SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50
*
* SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000
* SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000
*
* DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50
* DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50
*
* DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000
* DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000
*
*-----
* CORRELATOR SPECIFICATIONS
*-----
*
* USER INFORMATION WINDOW SIZE . . . . . 16 BITS
*
* MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR
* IDENTIFICATION ALGORITHM . . . . . 64000 BITS
*
* MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT
* IDENTIFICATION ALGORITHM . . . . . 96000 BITS
*
* MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT
* IDENTIFICATION ALGORITHM . . . . . 96000 BITS
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NTIA-ITS (Boulder) 5606
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*
* USER INFORMATION TRANSFER ASSESSMENT SUMMARY
* (CONTINUED)
*
*-----
* PERFORMANCE STATISTICS
*-----
*
* BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)
* 'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000
* 'INCORRECT BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0
* 'LOST BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0
* 'EXTRA BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0
*
* BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)
* 'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50
* 'INCORRECT BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0
* 'LOST BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0
* 'EXTRA BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0
*
* TRANSFER SAMPLES . . . . . 4 (+)
* 'TRANSFER DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0
*
* INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 10.210 SEC
* USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.689 SEC
* OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 24.909 SEC
* USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.666 SEC
* BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000
* 'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000
* BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
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NTIA-ITS (Boulder) 5606
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*
* USER INFORMATION TRANSFER ASSESSMENT SUMMARY
* (CONTINUED)
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*-----
* MEASURED PERFORMANCE PARAMETER VALUES
*-----
*
* BIT ERROR PROBABILITY . . . . . 0
* BIT LOSS PROBABILITY . . . . . 0
* EXTRA BIT PROBABILITY . . . . . 0
*
* BLOCK TRANSFER TIME . . . . . 9.642 SEC
* USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0743
*
* BLOCK ERROR PROBABILITY . . . . . 0
* BLOCK LOSS PROBABILITY . . . . . 0
* EXTRA BLOCK PROBABILITY . . . . . 0
*
* TRANSFER DENIAL PROBABILITY . . . . . 0
*
* USER INFORMATION BIT TRANSFER RATE . . . . . 62949 BPS
* USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0678
*
*-----
* REDUCTION SPECIFICATIONS
*-----
*
* SPECIFIED BLOCK TRANSFER TIME . . . . . 9.670 SEC
* SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0800
*
* SPECIFIED USER INFORMATION BIT TRANSFER RATE
* FOR TRANSFER SAMPLE . . . . . 63020 BPS
* SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME
* FOR TRANSFER SAMPLE . . . . . 0.0700
*
* SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-06)
* SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
* SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
*
* MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS
* IN TRANSFER SAMPLE . . . . . 320000
*
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*****
*
* PERFORMANCE ASSESSMENT SUMMARY
*
*****
*
* PERFORMANCE DATA BATCH
*
*-----*
* NTIA-ITS (Boulder) 5607
*-----*
*
* SOURCE USER . . . . . NTIA - x.25 over ckt channel
*
* DESTINATION USER . . . . . NASA LeRC - over ACTS
*
* ORIGINATING USER . . . . . SOURCE
*
* SESSION CATEGORY . . . . . CONNECTION ORIENTED
*
* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
*
* MEASUREMENT START TIME . . . . . 01/17/95 14:21:20.087 LT
*
* MEASUREMENT END TIME . . . . . 01/17/95 14:21:47.409 LT
*
* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)
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* NTIA-ITS (Boulder) 5607
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*****
*
* USER INFORMATION TRANSFER ASSESSMENT SUMMARY
*
*****
*
*-----*
* CORRELATION SUMMARY
*-----*
*
* CORRELATOR OUTPUT BLOCKS . . . . . 50
*
* BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000
* 'CORRECT' BCOS . . . . . 1600000
* 'INCORRECT' BCOS . . . . . 0
* 'UNDELIVERED' BCOS . . . . . 0
* 'EXTRA' BCOS . . . . . 0
*
* SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50
* SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50
*
* SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000
* SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000
*
* DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50
* DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50
*
* DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000
* DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000
*
*-----*
* CORRELATOR SPECIFICATIONS
*-----*
*
* USER INFORMATION WINDOW SIZE . . . . . 16 BITS
*
* MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR
* IDENTIFICATION ALGORITHM . . . . . 64000 BITS
*
* MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT
* IDENTIFICATION ALGORITHM . . . . . 96000 BITS
*
* MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT
* IDENTIFICATION ALGORITHM . . . . . 96000 BITS
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* NTIA-ITS (Boulder) 5607
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*
* USER INFORMATION TRANSFER ASSESSMENT SUMMARY
* (CONTINUED)
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*
*-----*
* PERFORMANCE STATISTICS
*-----*
*
* BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)
* 'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000
* 'INCORRECT BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0
* 'LOST BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0
* 'EXTRA BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0
*
* BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)
* 'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50
* 'INCORRECT BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0
* 'LOST BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0
* 'EXTRA BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0
*
* TRANSFER SAMPLES . . . . . 4 (+)
* 'TRANSFER DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0
*
* INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 10.210 SEC
* USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.678 SEC
* OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 24.866 SEC
* USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.673 SEC
* BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000
* 'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000
* BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
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* NTIA-ITS (Boulder) 5607
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*
* USER INFORMATION TRANSFER ASSESSMENT SUMMARY
* (CONTINUED)
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*
*-----*
* MEASURED PERFORMANCE PARAMETER VALUES
*-----*
*
* BIT ERROR PROBABILITY . . . . . 0
* BIT LOSS PROBABILITY . . . . . 0
* EXTRA BIT PROBABILITY . . . . . 0
*
* BLOCK TRANSFER TIME . . . . . 9.638 SEC
* USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0742
*
* BLOCK ERROR PROBABILITY . . . . . 0
* BLOCK LOSS PROBABILITY . . . . . 0
* EXTRA BLOCK PROBABILITY . . . . . 0
*
* TRANSFER DENIAL PROBABILITY . . . . . 0
*
* USER INFORMATION BIT TRANSFER RATE . . . . . 63058 BPS
* USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0675
*
*-----*
* REDUCTION SPECIFICATIONS
*-----*
*
* SPECIFIED BLOCK TRANSFER TIME . . . . . 9.670 SEC
* SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0800
*
* SPECIFIED USER INFORMATION BIT TRANSFER RATE
* FOR TRANSFER SAMPLE . . . . . 63020 BPS
* SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME
* FOR TRANSFER SAMPLE . . . . . 0.0700
*
* SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-06)
* SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
* SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
*
* MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS
* IN TRANSFER SAMPLE . . . . . 320000
*
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\*\*\*\*\*  
 \* PERFORMANCE ASSESSMENT SUMMARY \*  
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\*\*\*\*\*  
 \* PERFORMANCE DATA BATCH \*  
 \*\*\*\*\*  
 \* NTIA-ITS (Boulder) 5608 \*  
 \*\*\*\*\*  
 \* SOURCE USER . . . . . NTIA - x.25 over ckt channel \*  
 \* DESTINATION USER . . . . . NASA LeRC - over ACTS \*  
 \* ORIGINATING USER . . . . . SOURCE \*  
 \*  
 \* SESSION CATEGORY . . . . . CONNECTION ORIENTED \*  
 \* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED \*  
 \*  
 \* MEASUREMENT START TIME . . . . . 01/17/95 14:22:15.956 LT \*  
 \* MEASUREMENT END TIME . . . . . 01/17/95 14:22:43.369 LT \*  
 \* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE) \*  
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 NTIA-ITS (Boulder) 5608  
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\*\*\*\*\*  
 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
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\*\*\*\*\*  
 \* CORRELATION SUMMARY \*  
 \*\*\*\*\*  
 \* CORRELATOR OUTPUT BLOCKS . . . . . 50 \*  
 \* BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000 \*  
 \* 'CORRECT' BCOS . . . . . 1600000 \*  
 \* 'INCORRECT' BCOS . . . . . 0 \*  
 \* 'UNDELIVERED' BCOS . . . . . 0 \*  
 \* 'EXTRA' BCOS . . . . . 0 \*  
 \*  
 \* SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50 \*  
 \* SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50 \*  
 \* SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000 \*  
 \* SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000 \*  
 \*  
 \* DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50 \*  
 \* DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50 \*  
 \*  
 \* DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000 \*  
 \* DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000 \*  
 \*  
 \*-----  
 \* CORRELATOR SPECIFICATIONS \*  
 \*-----  
 \* USER INFORMATION WINDOW SIZE . . . . . 16 BITS \*  
 \* MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR \*  
 \* IDENTIFICATION ALGORITHM . . . . . 64000 BITS \*  
 \* MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT \*  
 \* IDENTIFICATION ALGORITHM . . . . . 96000 BITS \*  
 \* MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT \*  
 \* IDENTIFICATION ALGORITHM . . . . . 96000 BITS \*  
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 NTIA-ITS (Boulder) 5608  
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 \*\*\*\*\*  
 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
 \* (CONTINUED) \*  
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\*\*\*\*\*  
 \* PERFORMANCE STATISTICS \*  
 \*\*\*\*\*  
 \* BIT TRANSFER ATTEMPTS . . . . . 1600000 (+) \*  
 \* 'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000 \*  
 \* 'INCORRECT BIT' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0 \*  
 \* 'LOST BIT' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0 \*  
 \* 'EXTRA BIT' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0 \*  
 \*  
 \* BLOCK TRANSFER ATTEMPTS . . . . . 50 (+) \*  
 \* 'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50 \*  
 \* 'INCORRECT BLOCK' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0 \*  
 \* 'LOST BLOCK' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0 \*  
 \* 'EXTRA BLOCK' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0 \*  
 \*  
 \* TRANSFER SAMPLES . . . . . 4 (+) \*  
 \* 'TRANSFER DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0 \*  
 \*  
 \* INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 10.146 SEC \*  
 \* USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.667 SEC \*  
 \* OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 24.923 SEC \*  
 \* USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.686 SEC \*  
 \* BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000 \*  
 \* 'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000 \*  
 \* BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49 \*  
 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
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 NTIA-ITS (Boulder) 5608  
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\*\*\*\*\*  
 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
 \* (CONTINUED) \*  
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\*\*\*\*\*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*\*\*\*\*  
 \* BIT ERROR PROBABILITY . . . . . 0 \*  
 \* BIT LOSS PROBABILITY . . . . . 0 \*  
 \* EXTRA BIT PROBABILITY . . . . . 0 \*  
 \*  
 \* BLOCK TRANSFER TIME . . . . . 9.708 SEC \*  
 \* USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0740 \*  
 \*  
 \* BLOCK ERROR PROBABILITY . . . . . 0 \*  
 \* BLOCK LOSS PROBABILITY . . . . . 0 \*  
 \* EXTRA BLOCK PROBABILITY . . . . . 0 \*  
 \*  
 \* TRANSFER DENIAL PROBABILITY . . . . . 0 \*  
 \*  
 \* USER INFORMATION BIT TRANSFER RATE . . . . . 62914 BPS \*  
 \* USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0676 \*  
 \*  
 \*-----  
 \* REDUCTION SPECIFICATIONS \*  
 \*-----  
 \* SPECIFIED BLOCK TRANSFER TIME . . . . . 9.670 SEC \*  
 \* SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0800 \*  
 \*  
 \* SPECIFIED USER INFORMATION BIT TRANSFER RATE \*  
 \* FOR TRANSFER SAMPLE . . . . . 63020 BPS \*  
 \* SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME \*  
 \* FOR TRANSFER SAMPLE . . . . . 0.0700 \*  
 \*  
 \* SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 x 10<sup>(-06)</sup> \*  
 \* SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 x 10<sup>(-08)</sup> \*  
 \* SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 x 10<sup>(-08)</sup> \*  
 \*  
 \* MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS \*  
 \* IN TRANSFER SAMPLE . . . . . 320000 \*  
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\*\*\*\*\*  
 \* PERFORMANCE ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

PERFORMANCE DATA BATCH

NTIA-ITS (Boulder)	5611
SOURCE USER . . . . .	NTIA - x.25 over ckt channel
DESTINATION USER . . . . .	NASA LeRC - over ACTS
ORIGINATING USER . . . . .	SOURCE
SESSION CATEGORY . . . . .	CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY . . . . .	NEGOTIATED
MEASUREMENT START TIME . . . . .	01/24/95 15:20:01.004 LT
MEASUREMENT END TIME . . . . .	01/24/95 15:20:28.492 LT
(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)	

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 NTIA-ITS (Boulder) 5611  
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\*\*\*\*\*  
 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

CORRELATION SUMMARY

CORRELATOR OUTPUT BLOCKS . . . . .	50
BIT COMPARISON OUTCOMES (BCOS) . . . . .	1600000
'CORRECT' BCOS . . . . .	1600000
'INCORRECT' BCOS . . . . .	0
'UNDELIVERED' BCOS . . . . .	0
'EXTRA' BCOS . . . . .	0
SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . .	50
SOURCE USER INFORMATION BLOCKS CORRELATED . . . . .	50
SOURCE USER INFORMATION BITS TRANSMITTED . . . . .	1600000
SOURCE USER INFORMATION BITS CORRELATED . . . . .	1600000
DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . .	50
DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . .	50
DESTINATION USER INFORMATION BITS RECEIVED . . . . .	1600000
DESTINATION USER INFORMATION BITS CORRELATED . . . . .	1600000

CORRELATOR SPECIFICATIONS

USER INFORMATION WINDOW SIZE . . . . .	16 BITS
MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR IDENTIFICATION ALGORITHM . . . . .	64000 BITS
MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT IDENTIFICATION ALGORITHM . . . . .	96000 BITS
MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT IDENTIFICATION ALGORITHM . . . . .	96000 BITS

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 NTIA-ITS (Boulder) 5611  
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 \*\*\*\*\*  
 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
 (CONTINUED)  
 \*\*\*\*\*

PERFORMANCE STATISTICS

BIT TRANSFER ATTEMPTS . . . . .	1600000 (+)
'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . .	1600000
'INCORRECT BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . .	0
'LOST BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . .	0
'EXTRA BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . .	0
BLOCK TRANSFER ATTEMPTS . . . . .	50 (+)
'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . .	50
'INCORRECT BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . .	0
'LOST BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . .	0
'EXTRA BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . .	0
TRANSFER SAMPLES . . . . .	4 (+)
'TRANSFER DENIAL' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . .	0
INPUT TIME FOR THROUGHPUT SAMPLE . . . . .	10.224 SEC
USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . .	1.723 SEC
OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . .	24.867 SEC
USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . .	1.670 SEC
BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . .	1568000
'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . .	1568000
BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . .	49

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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 NTIA-ITS (Boulder) 5611  
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\*\*\*\*\*  
 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
 (CONTINUED)  
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MEASURED PERFORMANCE PARAMETER VALUES

BIT ERROR PROBABILITY . . . . .	0
BIT LOSS PROBABILITY . . . . .	0
EXTRA BIT PROBABILITY . . . . .	0
BLOCK TRANSFER TIME . . . . .	9.633 SEC
USER FRACTION OF BLOCK TRANSFER TIME . . . . .	0.0747
BLOCK ERROR PROBABILITY . . . . .	0
BLOCK LOSS PROBABILITY . . . . .	0
EXTRA BLOCK PROBABILITY . . . . .	0
TRANSFER DENIAL PROBABILITY . . . . .	0
USER INFORMATION BIT TRANSFER RATE . . . . .	63055 BPS
USER FRACTION OF INPUT/OUTPUT TIME . . . . .	0.0693

REDUCTION SPECIFICATIONS

SPECIFIED BLOCK TRANSFER TIME . . . . .	9.670 SEC
SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . .	0.0800
SPECIFIED USER INFORMATION BIT TRANSFER RATE FOR TRANSFER SAMPLE . . . . .	63020 BPS
SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME FOR TRANSFER SAMPLE . . . . .	0.0700
SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10 <sup>(-06)</sup>
SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10 <sup>(-08)</sup>
SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10 <sup>(-08)</sup>
MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS IN TRANSFER SAMPLE . . . . .	320000

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 \* PERFORMANCE ASSESSMENT SUMMARY \*  
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 PERFORMANCE DATA BATCH  
 -----  
 NTIA-ITS (Boulder) 5612  
 -----  
 SOURCE USER . . . . . NTIA - x.25 over ckt channel  
 DESTINATION USER . . . . . NASA LeRC - over ACTS  
 ORIGINATING USER . . . . . SOURCE  
 SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
 MEASUREMENT START TIME . . . . . 01/24/95 15:21:44.003 LT  
 MEASUREMENT END TIME . . . . . 01/24/95 15:22:11.332 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

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 NTIA-ITS (Boulder) 5612  
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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
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 CORRELATION SUMMARY  
 -----  
 CORRELATOR OUTPUT BLOCKS . . . . . 50  
 BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000  
 'CORRECT' BCOS . . . . . 1600000  
 'INCORRECT' BCOS . . . . . 0  
 'UNDELIVERED' BCOS . . . . . 0  
 'EXTRA' BCOS . . . . . 0  
 SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50  
 SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50  
 SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000  
 SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000  
 DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50  
 DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50  
 DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000  
 DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000  
 -----  
 CORRELATOR SPECIFICATIONS  
 -----  
 USER INFORMATION WINDOW SIZE . . . . . 16 BITS  
 MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR  
 IDENTIFICATION ALGORITHM . . . . . 64000 BITS  
 MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT  
 IDENTIFICATION ALGORITHM . . . . . 96000 BITS  
 MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT  
 IDENTIFICATION ALGORITHM . . . . . 96000 BITS

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 NTIA-ITS (Boulder) 5612  
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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
 \* (CONTINUED) \*  
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 PERFORMANCE STATISTICS  
 -----  
 BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)  
 'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000  
 'INCORRECT BIT' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0  
 'LOST BIT' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0  
 'EXTRA BIT' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0  
 BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)  
 'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50  
 'INCORRECT BLOCK' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0  
 'LOST BLOCK' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0  
 'EXTRA BLOCK' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0  
 TRANSFER SAMPLES . . . . . 4 (+)  
 'TRANSFER DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0  
 INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 10.208 SEC  
 USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.683 SEC  
 OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 24.896 SEC  
 USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.669 SEC  
 BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000  
 'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000  
 BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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 NTIA-ITS (Boulder) 5612  
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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
 \* (CONTINUED) \*  
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 MEASURED PERFORMANCE PARAMETER VALUES  
 -----  
 BIT ERROR PROBABILITY . . . . . 0  
 BIT LOSS PROBABILITY . . . . . 0  
 EXTRA BIT PROBABILITY . . . . . 0  
 BLOCK TRANSFER TIME . . . . . 9.665 SEC  
 USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0730  
 BLOCK ERROR PROBABILITY . . . . . 0  
 BLOCK LOSS PROBABILITY . . . . . 0  
 EXTRA BLOCK PROBABILITY . . . . . 0  
 TRANSFER DENIAL PROBABILITY . . . . . 0  
 USER INFORMATION BIT TRANSFER RATE . . . . . 62982 BPS  
 USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0676  
 -----  
 REDUCTION SPECIFICATIONS  
 -----  
 SPECIFIED BLOCK TRANSFER TIME . . . . . 9.670 SEC  
 SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0800  
 SPECIFIED USER INFORMATION BIT TRANSFER RATE  
 FOR TRANSFER SAMPLE . . . . . 63020 BPS  
 SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME  
 FOR TRANSFER SAMPLE . . . . . 0.0700  
 SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10<sup>(-06)</sup>  
 SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10<sup>(-08)</sup>  
 SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10<sup>(-08)</sup>  
 MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS  
 IN TRANSFER SAMPLE . . . . . 320000

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*
* PERFORMANCE ASSESSMENT SUMMARY
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*
* PERFORMANCE DATA BATCH
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* NTIA-ITS (Boulder) 5604
*
* SOURCE USER . . . . . NTIA - x.25 over ckt channel
* DESTINATION USER . . . . . NASA LeRC - over ACTS
* ORIGINATING USER . . . . . SOURCE
*
* SESSION CATEGORY . . . . . CONNECTION ORIENTED
* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
*
* MEASUREMENT START TIME . . . . . 01/05/95 15:00:10.006 LT
* MEASUREMENT END TIME . . . . . 01/05/95 15:19:43.597 LT
* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)
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* NTIA-ITS (Boulder) 5604
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*****
* ACCESS ASSESSMENT SUMMARY
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*****
*
* PERFORMANCE STATISTICS
*
-----
* ACCESS ATTEMPTS . . . . . 100 (+)
* 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 100
* 'INCORRECT ACCESS' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0
* 'ACCESS DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0
* 'ACCESS OUTAGE' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*-----
* MEASURED PERFORMANCE PARAMETER VALUES
*-----
* ACCESS TIME . . . . . 0.844 SEC
* USER FRACTION OF ACCESS TIME . . . . . 0.4662
*
* INCORRECT ACCESS PROBABILITY . . . . . 0
* ACCESS DENIAL PROBABILITY . . . . . 0
* ACCESS OUTAGE PROBABILITY . . . . . 0
*
*-----
* REDUCTION SPECIFICATIONS
*-----
* SPECIFIED ACCESS TIME . . . . . 0.850 SEC
* SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 0.5000
*
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* NTIA-ITS (Boulder) 5604
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*****
* SOURCE
* DISENGAGEMENT ASSESSMENT SUMMARY
*
*****
*
* PERFORMANCE STATISTICS
*
-----
* DISENGAGEMENT ATTEMPTS . . . . . 100 (+)
* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100
* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*-----
* MEASURED PERFORMANCE PARAMETER VALUES
*-----
* DISENGAGEMENT TIME . . . . . 0.862 SEC
* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0347
*
* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0
*
*-----
* REDUCTION SPECIFICATIONS
*-----
* SPECIFIED DISENGAGEMENT TIME . . . . . 0.860 SEC
* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500
*
* SPECIFIED ACCESS TIME . . . . . 0.850 SEC
*
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* NTIA-ITS (Boulder) 5604
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*****
* DESTINATION
* DISENGAGEMENT ASSESSMENT SUMMARY
*
*****
*
* PERFORMANCE STATISTICS
*
-----
* DISENGAGEMENT ATTEMPTS . . . . . 100 (+)
* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100
* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*-----
* MEASURED PERFORMANCE PARAMETER VALUES
*-----
* DISENGAGEMENT TIME . . . . . 1.174 SEC
* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8004
*
* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0
*
*-----
* REDUCTION SPECIFICATIONS
*-----
* SPECIFIED DISENGAGEMENT TIME . . . . . 1.180 SEC
* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8000
*
* SPECIFIED ACCESS TIME . . . . . 0.850 SEC
*
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\*\*\*\*\*  
 \* PERFORMANCE ASSESSMENT SUMMARY \*  
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\*\*\*\*\*  
 \* PERFORMANCE DATA BATCH \*  
 \*\*\*\*\*  
 \* NTIA-ITS (Boulder) 5605 \*  
 \*\*\*\*\*  
 \* SOURCE USER . . . . . NTIA - x.25 over ckt channel \*  
 \* DESTINATION USER . . . . . NASA LeRC - over ACTS \*  
 \* ORIGINATING USER . . . . . SOURCE \*  
 \* SESSION CATEGORY . . . . . CONNECTION ORIENTED \*  
 \* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED \*  
 \* MEASUREMENT START TIME . . . . . 01/05/95 15:34:37.002 LT \*  
 \* MEASUREMENT END TIME . . . . . 01/05/95 15:54:13.871 LT \*  
 \* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE) \*  
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 NTIA-ITS (Boulder) 5605  
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\*\*\*\*\*  
 \* ACCESS ASSESSMENT SUMMARY \*  
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\*\*\*\*\*  
 \* PERFORMANCE STATISTICS \*  
 \*\*\*\*\*  
 \* ACCESS ATTEMPTS . . . . . 100 (+) \*  
 \* 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 100 \*  
 \* 'INCORRECT ACCESS' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0 \*  
 \* 'ACCESS DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0 \*  
 \* 'ACCESS OUTAGE' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \* ACCESS TIME . . . . . 0.877 SEC \*  
 \* USER FRACTION OF ACCESS TIME . . . . . 0.4858 \*  
 \* INCORRECT ACCESS PROBABILITY . . . . . 0 \*  
 \* ACCESS DENIAL PROBABILITY . . . . . 0 \*  
 \* ACCESS OUTAGE PROBABILITY . . . . . 0 \*  
 \* REDUCTION SPECIFICATIONS \*  
 \* SPECIFIED ACCESS TIME . . . . . 0.850 SEC \*  
 \* SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 0.5000 \*  
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 NTIA-ITS (Boulder) 5605  
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\*\*\*\*\*  
 \* SOURCE \*  
 \* DISENGAGEMENT ASSESSMENT SUMMARY \*  
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\*\*\*\*\*  
 \* PERFORMANCE STATISTICS \*  
 \*\*\*\*\*  
 \* DISENGAGEMENT ATTEMPTS . . . . . 100 (+) \*  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100 \*  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \* DISENGAGEMENT TIME . . . . . 0.861 SEC \*  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0349 \*  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 \*  
 \* REDUCTION SPECIFICATIONS \*  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 0.860 SEC \*  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500 \*  
 \* SPECIFIED ACCESS TIME . . . . . 0.850 SEC \*  
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 NTIA-ITS (Boulder) 5605  
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\*\*\*\*\*  
 \* DESTINATION \*  
 \* DISENGAGEMENT ASSESSMENT SUMMARY \*  
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\*\*\*\*\*  
 \* PERFORMANCE STATISTICS \*  
 \*\*\*\*\*  
 \* DISENGAGEMENT ATTEMPTS . . . . . 100 (+) \*  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100 \*  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \* DISENGAGEMENT TIME . . . . . 1.174 SEC \*  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8021 \*  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 \*  
 \* REDUCTION SPECIFICATIONS \*  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 1.180 SEC \*  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8000 \*  
 \* SPECIFIED ACCESS TIME . . . . . 0.850 SEC \*  
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*
* PERFORMANCE ASSESSMENT SUMMARY
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*
* PERFORMANCE DATA BATCH
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* NTIA-ITS (Boulder) 5609
*
* SOURCE USER . . . . . NTIA - x.25 over ckt channel
* DESTINATION USER . . . . . NASA LeRC - over ACTS
* ORIGINATING USER . . . . . SOURCE
*
* SESSION CATEGORY . . . . . CONNECTION ORIENTED
* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
*
* MEASUREMENT START TIME . . . . . 01/17/95 14:36:53.987 LT
* MEASUREMENT END TIME . . . . . 01/17/95 14:56:31.402 LT
* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)
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* NTIA-ITS (Boulder) 5609
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*
* ACCESS ASSESSMENT SUMMARY
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*
* PERFORMANCE STATISTICS
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-----
* ACCESS ATTEMPTS . . . . . 100 (+)
* 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 100
* 'INCORRECT ACCESS' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0
* 'ACCESS DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0
* 'ACCESS OUTAGE' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*
* MEASURED PERFORMANCE PARAMETER VALUES
*
-----
* ACCESS TIME . . . . . 0.884 SEC
* USER FRACTION OF ACCESS TIME . . . . . 0.4709
*
* INCORRECT ACCESS PROBABILITY . . . . . 0
* ACCESS DENIAL PROBABILITY . . . . . 0
* ACCESS OUTAGE PROBABILITY . . . . . 0
*
*
* REDUCTION SPECIFICATIONS
*
-----
* SPECIFIED ACCESS TIME . . . . . 0.850 SEC
* SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 0.5000
*
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* NTIA-ITS (Boulder) 5609
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*
* SOURCE
* DISENGAGEMENT ASSESSMENT SUMMARY
*
*****
*
* PERFORMANCE STATISTICS
*
-----
* DISENGAGEMENT ATTEMPTS . . . . . 100 (+)
* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100
* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*
* MEASURED PERFORMANCE PARAMETER VALUES
*
-----
* DISENGAGEMENT TIME . . . . . 0.863 SEC
* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0359
* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0
*
*
* REDUCTION SPECIFICATIONS
*
-----
* SPECIFIED DISENGAGEMENT TIME . . . . . 0.860 SEC
* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500
* SPECIFIED ACCESS TIME . . . . . 0.850 SEC
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* NTIA-ITS (Boulder) 5609
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*
* DESTINATION
* DISENGAGEMENT ASSESSMENT SUMMARY
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*
* PERFORMANCE STATISTICS
*
-----
* DISENGAGEMENT ATTEMPTS . . . . . 100 (+)
* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100
* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*
* MEASURED PERFORMANCE PARAMETER VALUES
*
-----
* DISENGAGEMENT TIME . . . . . 1.177 SEC
* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8019
* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0
*
*
* REDUCTION SPECIFICATIONS
*
-----
* SPECIFIED DISENGAGEMENT TIME . . . . . 1.180 SEC
* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8000
* SPECIFIED ACCESS TIME . . . . . 0.850 SEC
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*
* PERFORMANCE ASSESSMENT SUMMARY
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*
* PERFORMANCE DATA BATCH
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*-----*
* NTIA-ITS (Boulder) 5610
*-----*
*
* SOURCE USER . . . . . NTIA - x.25 over ckt channel
* DESTINATION USER . . . . . NASA LeRC - over ACTS
* ORIGINATING USER . . . . . SOURCE
*
* SESSION CATEGORY . . . . . CONNECTION ORIENTED
* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
* MEASUREMENT START TIME . . . . . 01/17/95 15:00:42.001 LT
* MEASUREMENT END TIME . . . . . 01/17/95 15:20:14.251 LT
* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)
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* NTIA-ITS (Boulder) 5610
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*****
*
* ACCESS ASSESSMENT SUMMARY
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*****
*
* PERFORMANCE STATISTICS
*
*-----*
* ACCESS ATTEMPTS . . . . . 100 (+)
* 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 100
* 'INCORRECT ACCESS' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0
* 'ACCESS DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0
* 'ACCESS OUTAGE' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*-----*
* MEASURED PERFORMANCE PARAMETER VALUES
*-----*
* ACCESS TIME . . . . . 0.830 SEC
* USER FRACTION OF ACCESS TIME . . . . . 0.4778
*
* INCORRECT ACCESS PROBABILITY . . . . . 0
* ACCESS DENIAL PROBABILITY . . . . . 0
* ACCESS OUTAGE PROBABILITY . . . . . 0
*
*-----*
* REDUCTION SPECIFICATIONS
*-----*
* SPECIFIED ACCESS TIME . . . . . 0.850 SEC
* SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 0.5000
*
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* NTIA-ITS (Boulder) 5610
*-----*
*
* SOURCE
* DISENGAGEMENT ASSESSMENT SUMMARY
*
*****
*
* PERFORMANCE STATISTICS
*
*-----*
* DISENGAGEMENT ATTEMPTS . . . . . 100 (+)
* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100
* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*-----*
* MEASURED PERFORMANCE PARAMETER VALUES
*-----*
* DISENGAGEMENT TIME . . . . . 0.865 SEC
* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0357
* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0
*
*-----*
* REDUCTION SPECIFICATIONS
*-----*
* SPECIFIED DISENGAGEMENT TIME . . . . . 0.860 SEC
* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500
* SPECIFIED ACCESS TIME . . . . . 0.850 SEC
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* NTIA-ITS (Boulder) 5610
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*****
*
* DESTINATION
* DISENGAGEMENT ASSESSMENT SUMMARY
*
*****
*
* PERFORMANCE STATISTICS
*
*-----*
* DISENGAGEMENT ATTEMPTS . . . . . 100 (+)
* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100
* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*-----*
* MEASURED PERFORMANCE PARAMETER VALUES
*-----*
* DISENGAGEMENT TIME . . . . . 1.181 SEC
* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8007
* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0
*
*-----*
* REDUCTION SPECIFICATIONS
*-----*
* SPECIFIED DISENGAGEMENT TIME . . . . . 1.180 SEC
* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8000
* SPECIFIED ACCESS TIME . . . . . 0.850 SEC
*
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PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

NTIA-ITS (Boulder) 5613

SOURCE USER . . . . . NTIA - x.25 over ckt channel  
 DESTINATION USER . . . . . NASA LeRC - over ACTS  
 ORIGINATING USER . . . . . SOURCE  
 SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
 MEASUREMENT START TIME . . . . . 01/24/95 15:22:42.998 LT  
 MEASUREMENT END TIME . . . . . 01/24/95 15:42:15.251 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

NTIA-ITS (Boulder) 5613

ACCESS ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

ACCESS ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 100  
 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

ACCESS TIME . . . . . 0.827 SEC  
 USER FRACTION OF ACCESS TIME . . . . . 0.4723  
 INCORRECT ACCESS PROBABILITY . . . . . 0  
 ACCESS DENIAL PROBABILITY . . . . . 0  
 ACCESS OUTAGE PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED ACCESS TIME . . . . . 0.850 SEC  
 SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 0.5000

NTIA-ITS (Boulder) 5613

SOURCE DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 0.869 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0378  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 0.860 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500  
 SPECIFIED ACCESS TIME . . . . . 0.850 SEC

NTIA-ITS (Boulder) 5613

DESTINATION DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 1.186 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8010  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 1.180 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8000  
 SPECIFIED ACCESS TIME . . . . . 0.850 SEC

PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

NTIA-ITS (Boulder) 5614

SOURCE USER . . . . . NTIA - x.25 over ckt channel  
 DESTINATION USER . . . . . NASA LeRC - over ACTS  
 ORIGINATING USER . . . . . SOURCE

SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED

MEASUREMENT START TIME . . . . . 01/24/95 17:23:38.967 LT  
 MEASUREMENT END TIME . . . . . 01/24/95 17:43:11.023 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

NTIA-ITS (Boulder) 5614

ACCESS ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

ACCESS ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 100  
 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

ACCESS TIME . . . . . 0.827 SEC  
 USER FRACTION OF ACCESS TIME . . . . . 0.4696

INCORRECT ACCESS PROBABILITY . . . . . 0  
 ACCESS DENIAL PROBABILITY . . . . . 0  
 ACCESS OUTAGE PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED ACCESS TIME . . . . . 0.850 SEC  
 SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 0.5000

NTIA-ITS (Boulder) 5614

SOURCE  
 DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 0.861 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0370

DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 0.860 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500

SPECIFIED ACCESS TIME . . . . . 0.850 SEC

NTIA-ITS (Boulder) 5614

DESTINATION  
 DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 1.178 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8040

DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 1.180 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8000

SPECIFIED ACCESS TIME . . . . . 0.850 SEC

PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

-----  
 NTIA-ITS (Boulder) 5801  
 -----  
 SOURCE USER . . . . . NTIA - x.25 over pkt channel  
 DESTINATION USER . . . . . NASA LeRC - over ACTS  
 ORIGINATING USER . . . . . SOURCE  
 SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
 MEASUREMENT START TIME . . . . . 12/28/94 18:15:11.098 LT  
 MEASUREMENT END TIME . . . . . 12/28/94 18:17:49.063 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

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 NTIA-ITS (Boulder) 5801  
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY

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 CORRELATION SUMMARY  
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CORRELATOR OUTPUT BLOCKS . . . . . 50  
 BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000  
 'CORRECT' BCOS . . . . . 1600000  
 'INCORRECT' BCOS . . . . . 0  
 'UNDELIVERED' BCOS . . . . . 0  
 'EXTRA' BCOS . . . . . 0  
 SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50  
 SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50  
 SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000  
 SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000  
 DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50  
 DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50  
 DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000  
 DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000

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 CORRELATOR SPECIFICATIONS  
 -----

USER INFORMATION WINDOW SIZE . . . . . 16 BITS  
 MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR  
 IDENTIFICATION ALGORITHM . . . . . 64000 BITS  
 MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT  
 IDENTIFICATION ALGORITHM . . . . . 96000 BITS  
 MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT  
 IDENTIFICATION ALGORITHM . . . . . 96000 BITS

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 NTIA-ITS (Boulder) 5801  
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY  
 (CONTINUED)

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 PERFORMANCE STATISTICS  
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BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)  
 'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000  
 'INCORRECT BIT' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0  
 'LOST BIT' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0  
 'EXTRA BIT' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0  
 BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)  
 'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50  
 'INCORRECT BLOCK' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0  
 'LOST BLOCK' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0  
 'EXTRA BLOCK' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0  
 TRANSFER SAMPLES . . . . . 4 (+)  
 'TRANSFER DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0  
 INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 142.651 SEC  
 USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.671 SEC  
 OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 150.727 SEC  
 USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.669 SEC  
 BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000  
 'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000  
 BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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 NTIA-ITS (Boulder) 5801  
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY  
 (CONTINUED)

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 MEASURED PERFORMANCE PARAMETER VALUES  
 -----

BIT ERROR PROBABILITY . . . . . 0  
 BIT LOSS PROBABILITY . . . . . 0  
 EXTRA BIT PROBABILITY . . . . . 0  
 BLOCK TRANSFER TIME . . . . . 12.012 SEC  
 USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0142  
 BLOCK ERROR PROBABILITY . . . . . 0  
 BLOCK LOSS PROBABILITY . . . . . 0  
 EXTRA BLOCK PROBABILITY . . . . . 0  
 TRANSFER DENIAL PROBABILITY . . . . . 0  
 USER INFORMATION BIT TRANSFER RATE . . . . . 10403 BPS  
 USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0111

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 REDUCTION SPECIFICATIONS  
 -----

SPECIFIED BLOCK TRANSFER TIME . . . . . 12.030 SEC  
 SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0500  
 SPECIFIED USER INFORMATION BIT TRANSFER RATE  
 FOR TRANSFER SAMPLE . . . . . 10390 BPS  
 SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME  
 FOR TRANSFER SAMPLE . . . . . 0.0500  
 SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-06)  
 SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)  
 SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)  
 MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS  
 IN TRANSFER SAMPLE . . . . . 320000

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 \* PERFORMANCE ASSESSMENT SUMMARY \*  
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 PERFORMANCE DATA BATCH  
 -----  
 NTIA-ITS (Boulder) 5802  
 -----  
 SOURCE USER . . . . . NTIA - x.25 over pkt channel  
 DESTINATION USER . . . . . NASA LeRC - over ACTS  
 ORIGINATING USER . . . . . SOURCE  
 SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
 MEASUREMENT START TIME . . . . . 12/28/94 18:21:49.031 LT  
 MEASUREMENT END TIME . . . . . 12/28/94 18:24:26.982 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

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 NTIA-ITS (Boulder) 5802  
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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
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 CORRELATION SUMMARY  
 -----  
 CORRELATOR OUTPUT BLOCKS . . . . . 50  
 BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000  
 'CORRECT' BCOS . . . . . 1600000  
 'INCORRECT' BCOS . . . . . 0  
 'UNDELIVERED' BCOS . . . . . 0  
 'EXTRA' BCOS . . . . . 0  
 SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50  
 SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50  
 SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000  
 SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000  
 DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50  
 DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50  
 DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000  
 DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000

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 CORRELATOR SPECIFICATIONS  
 -----  
 USER INFORMATION WINDOW SIZE . . . . . 16 BITS  
 MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR IDENTIFICATION ALGORITHM . . . . . 64000 BITS  
 MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT IDENTIFICATION ALGORITHM . . . . . 96000 BITS  
 MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT IDENTIFICATION ALGORITHM . . . . . 96000 BITS

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 NTIA-ITS (Boulder) 5802  
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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
 \* (CONTINUED) \*  
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 PERFORMANCE STATISTICS  
 -----  
 BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)  
 'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000  
 'INCORRECT BIT' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0  
 'LOST BIT' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0  
 'EXTRA BIT' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0  
 BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)  
 'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50  
 'INCORRECT BLOCK' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0  
 'LOST BLOCK' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0  
 'EXTRA BLOCK' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0  
 TRANSFER SAMPLES . . . . . 4 (+)  
 'TRANSFER DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0  
 INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 142.598 SEC  
 USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.696 SEC  
 OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 150.789 SEC  
 USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.671 SEC  
 BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000  
 'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000  
 BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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 NTIA-ITS (Boulder) 5802  
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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
 \* (CONTINUED) \*  
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 MEASURED PERFORMANCE PARAMETER VALUES  
 -----  
 BIT ERROR PROBABILITY . . . . . 0  
 BIT LOSS PROBABILITY . . . . . 0  
 EXTRA BIT PROBABILITY . . . . . 0  
 BLOCK TRANSFER TIME . . . . . 12.012 SEC  
 USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0129  
 BLOCK ERROR PROBABILITY . . . . . 0  
 BLOCK LOSS PROBABILITY . . . . . 0  
 EXTRA BLOCK PROBABILITY . . . . . 0  
 TRANSFER DENIAL PROBABILITY . . . . . 0  
 USER INFORMATION BIT TRANSFER RATE . . . . . 10399 BPS  
 USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0112

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 REDUCTION SPECIFICATIONS  
 -----  
 SPECIFIED BLOCK TRANSFER TIME . . . . . 12.030 SEC  
 SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0500  
 SPECIFIED USER INFORMATION BIT TRANSFER RATE FOR TRANSFER SAMPLE . . . . . 10390 BPS  
 SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME FOR TRANSFER SAMPLE . . . . . 0.0500  
 SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-06)  
 SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)  
 SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)  
 MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS IN TRANSFER SAMPLE . . . . . 320000

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*
* PERFORMANCE ASSESSMENT SUMMARY
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*
* PERFORMANCE DATA BATCH
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*-----*
* NTIA-ITS (Boulder) 5803
*-----*
*
* SOURCE USER . . . . . NTIA - x.25 over pkt channel
*
* DESTINATION USER . . . . . NASA LeRC - over ACTS
*
* ORIGINATING USER . . . . . SOURCE
*
*
* SESSION CATEGORY . . . . . CONNECTION ORIENTED
*
* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
*
*
* MEASUREMENT START TIME . . . . . 12/28/94 18:25:46.031 LT
*
* MEASUREMENT END TIME . . . . . 12/28/94 18:28:23.833 LT
*
* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)
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NTIA-ITS (Boulder) 5803  
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*
* USER INFORMATION TRANSFER ASSESSMENT SUMMARY
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*-----*
* CORRELATION SUMMARY
*-----*
*
* CORRELATOR OUTPUT BLOCKS . . . . . 50
*
* BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000
* 'CORRECT' BCOS . . . . . 1600000
* 'INCORRECT' BCOS . . . . . 0
* 'UNDELIVERED' BCOS . . . . . 0
* 'EXTRA' BCOS . . . . . 0
*
* SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50
* SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50
*
* SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000
* SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000
*
* DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50
* DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50
*
* DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000
* DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000
*
*
*-----*
* CORRELATOR SPECIFICATIONS
*-----*
*
* USER INFORMATION WINDOW SIZE . . . . . 16 BITS
*
* MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR IDENTIFICATION ALGORITHM . . . . . 64000 BITS
*
* MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT IDENTIFICATION ALGORITHM . . . . . 96000 BITS
*
* MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT IDENTIFICATION ALGORITHM . . . . . 96000 BITS
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*
* NTIA-ITS (Boulder) 5803
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*
* USER INFORMATION TRANSFER ASSESSMENT SUMMARY
* (CONTINUED)
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*-----*
* PERFORMANCE STATISTICS
*-----*
*
* BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)
* 'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000
* 'INCORRECT BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0
* 'LOST BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0
* 'EXTRA BIT' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0
*
* BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)
* 'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50
* 'INCORRECT BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0
* 'LOST BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0
* 'EXTRA BLOCK' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0
*
* TRANSFER SAMPLES . . . . . 4 (+)
* 'TRANSFER DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0
*
* INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 142.611 SEC
* USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.680 SEC
* OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 150.688 SEC
* USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.678 SEC
* BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000
* 'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000
* BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
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NTIA-ITS (Boulder) 5803  
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*
* USER INFORMATION TRANSFER ASSESSMENT SUMMARY
* (CONTINUED)
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*
*-----*
* MEASURED PERFORMANCE PARAMETER VALUES
*-----*
*
* BIT ERROR PROBABILITY . . . . . 0
* BIT LOSS PROBABILITY . . . . . 0
* EXTRA BIT PROBABILITY . . . . . 0
*
* BLOCK TRANSFER TIME . . . . . 12.011 SEC
* USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0136
*
* BLOCK ERROR PROBABILITY . . . . . 0
* BLOCK LOSS PROBABILITY . . . . . 0
* EXTRA BLOCK PROBABILITY . . . . . 0
*
* TRANSFER DENIAL PROBABILITY . . . . . 0
*
* USER INFORMATION BIT TRANSFER RATE . . . . . 10406 BPS
* USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0111
*
*
*-----*
* REDUCTION SPECIFICATIONS
*-----*
*
* SPECIFIED BLOCK TRANSFER TIME . . . . . 12.030 SEC
* SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0500
*
* SPECIFIED USER INFORMATION BIT TRANSFER RATE FOR TRANSFER SAMPLE . . . . . 10390 BPS
* SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME FOR TRANSFER SAMPLE . . . . . 0.0500
*
* SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-06)
* SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
* SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
*
* MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS IN TRANSFER SAMPLE . . . . . 320000
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 \* PERFORMANCE ASSESSMENT SUMMARY \*  
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PERFORMANCE DATA BATCH

NTIA-ITS (Boulder)	5807
SOURCE USER . . . . .	NTIA - x.25 over pkt channel
DESTINATION USER . . . . .	NASA LeRC - over ACTS
ORIGINATING USER . . . . .	SOURCE
SESSION CATEGORY . . . . .	CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY . . . . .	NEGOTIATED
MEASUREMENT START TIME . . . . .	01/18/95 14:28:39.024 LT
MEASUREMENT END TIME . . . . .	01/18/95 14:31:16.971 LT
(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)	

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 NTIA-ITS (Boulder) 5807  
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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
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CORRELATION SUMMARY

CORRELATOR OUTPUT BLOCKS . . . . .	50
BIT COMPARISON OUTCOMES (BCOS) . . . . .	1600000
'CORRECT' BCOS . . . . .	1600000
'INCORRECT' BCOS . . . . .	0
'UNDELIVERED' BCOS . . . . .	0
'EXTRA' BCOS . . . . .	0
SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . .	50
SOURCE USER INFORMATION BLOCKS CORRELATED . . . . .	50
SOURCE USER INFORMATION BITS TRANSMITTED . . . . .	1600000
SOURCE USER INFORMATION BITS CORRELATED . . . . .	1600000
DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . .	50
DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . .	50
DESTINATION USER INFORMATION BITS RECEIVED . . . . .	1600000
DESTINATION USER INFORMATION BITS CORRELATED . . . . .	1600000

CORRELATOR SPECIFICATIONS

USER INFORMATION WINDOW SIZE . . . . .	16 BITS
MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR IDENTIFICATION ALGORITHM . . . . .	64000 BITS
MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT IDENTIFICATION ALGORITHM . . . . .	96000 BITS
MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT IDENTIFICATION ALGORITHM . . . . .	96000 BITS

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 NTIA-ITS (Boulder) 5807  
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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
 \* (CONTINUED) \*  
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PERFORMANCE STATISTICS

BIT TRANSFER ATTEMPTS . . . . .	1600000 (+)
'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . .	1600000
'INCORRECT BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . .	0
'LOST BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . .	0
'EXTRA BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . .	0
BLOCK TRANSFER ATTEMPTS . . . . .	50 (+)
'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . .	50
'INCORRECT BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . .	0
'LOST BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . .	0
'EXTRA BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . .	0
TRANSFER SAMPLES . . . . .	4 (+)
'TRANSFER DENIAL' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . .	0
INPUT TIME FOR THROUGHPUT SAMPLE . . . . .	142.625 SEC
USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . .	1.683 SEC
OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . .	150.719 SEC
USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . .	1.670 SEC
BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . .	1568000
'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . .	1568000
BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . .	49

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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 NTIA-ITS (Boulder) 5807  
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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
 \* (CONTINUED) \*  
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MEASURED PERFORMANCE PARAMETER VALUES

BIT ERROR PROBABILITY . . . . .	0
BIT LOSS PROBABILITY . . . . .	0
EXTRA BIT PROBABILITY . . . . .	0
BLOCK TRANSFER TIME . . . . .	12.005 SEC
USER FRACTION OF BLOCK TRANSFER TIME . . . . .	0.0137
BLOCK ERROR PROBABILITY . . . . .	0
BLOCK LOSS PROBABILITY . . . . .	0
EXTRA BLOCK PROBABILITY . . . . .	0
TRANSFER DENIAL PROBABILITY . . . . .	0
USER INFORMATION BIT TRANSFER RATE . . . . .	10403 BPS
USER FRACTION OF INPUT/OUTPUT TIME . . . . .	0.0112

REDUCTION SPECIFICATIONS

SPECIFIED BLOCK TRANSFER TIME . . . . .	12.030 SEC
SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . .	0.0500
SPECIFIED USER INFORMATION BIT TRANSFER RATE FOR TRANSFER SAMPLE . . . . .	10390 BPS
SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME FOR TRANSFER SAMPLE . . . . .	0.0500
SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-06)
SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-08)
SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-08)
MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS IN TRANSFER SAMPLE . . . . .	320000

PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

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NTIA-ITS (BoulGer)                               5808
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SOURCE USER . . . . . NTIA - x.25 over pkt channel
DESTINATION USER . . . . . NASA LeRC - over ACTS
ORIGINATING USER . . . . . SOURCE

SESSION CATEGORY . . . . . CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED

MEASUREMENT START TIME . . . . . 01/18/95 16:12:04.058 LT
MEASUREMENT END TIME . . . . . 01/18/95 16:14:41.964 LT
(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)
  
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NTIA-ITS (Boulder) 5808  
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY

CORRELATION SUMMARY

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CORRELATOR OUTPUT BLOCKS . . . . . 50
BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000
'CORRECT' BCOS . . . . . 1600000
'INCORRECT' BCOS . . . . . 0
'UNDELIVERED' BCOS . . . . . 0
'EXTRA' BCOS . . . . . 0

SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50
SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50
SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000
SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000

DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50
DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50
DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000
DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000
  
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CORRELATOR SPECIFICATIONS

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USER INFORMATION WINDOW SIZE . . . . . 16 BITS
MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR
IDENTIFICATION ALGORITHM . . . . . 64000 BITS
MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT
IDENTIFICATION ALGORITHM . . . . . 96000 BITS
MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT
IDENTIFICATION ALGORITHM . . . . . 96000 BITS
  
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NTIA-ITS (Boulder) 5808  
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY  
(CONTINUED)

PERFORMANCE STATISTICS

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-----
BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)
'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . . 1600000
'INCORRECT BIT' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . . 0
'LOST BIT' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . . 0
'EXTRA BIT' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . . 0

BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)
'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . . 50
'INCORRECT BLOCK' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . . 0
'LOST BLOCK' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . . 0
'EXTRA BLOCK' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . . 0

TRANSFER SAMPLES . . . . . 4 (+)
'TRANSFER DENIAL' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . . 0

INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 142.646 SEC
USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.682 SEC
OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 150.682 SEC
USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.672 SEC
BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000
'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000
BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49
  
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(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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NTIA-ITS (Boulder) 5808  
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USER INFORMATION TRANSFER ASSESSMENT SUMMARY  
(CONTINUED)

MEASURED PERFORMANCE PARAMETER VALUES

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BIT ERROR PROBABILITY . . . . . 0
BIT LOSS PROBABILITY . . . . . 0
EXTRA BIT PROBABILITY . . . . . 0

BLOCK TRANSFER TIME . . . . . 12.003 SEC
USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0151

BLOCK ERROR PROBABILITY . . . . . 0
BLOCK LOSS PROBABILITY . . . . . 0
EXTRA BLOCK PROBABILITY . . . . . 0

TRANSFER DENIAL PROBABILITY . . . . . 0

USER INFORMATION BIT TRANSFER RATE . . . . . 10406 BPS
USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0112
  
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REDUCTION SPECIFICATIONS

```

SPECIFIED BLOCK TRANSFER TIME . . . . . 12.030 SEC
SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0500

SPECIFIED USER INFORMATION BIT TRANSFER RATE
FOR TRANSFER SAMPLE . . . . . 10390 BPS
SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME
FOR TRANSFER SAMPLE . . . . . 0.0500

SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-06)
SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)

MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS
IN TRANSFER SAMPLE . . . . . 320000
  
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 \* PERFORMANCE ASSESSMENT SUMMARY \*  
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 PERFORMANCE DATA BATCH  
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NTIA-ITS (Boulder)	5813
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SOURCE USER . . . . .	NTIA - x.25 over pkt channel
DESTINATION USER . . . . .	NASA LeRC - over ACTS
ORIGINATING USER . . . . .	SOURCE
SESSION CATEGORY . . . . .	CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY . . . . .	NEGOTIATED
MEASUREMENT START TIME . . . . .	01/23/95 15:26:35.002 LT
MEASUREMENT END TIME . . . . .	01/23/95 15:29:12.938 LT
(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)	

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 NTIA-ITS (Boulder) 5813  
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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
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 CORRELATION SUMMARY  
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CORRELATOR OUTPUT BLOCKS . . . . .	50
BIT COMPARISON OUTCOMES (BCOS) . . . . .	1600000
'CORRECT' BCOS . . . . .	1600000
'INCORRECT' BCOS . . . . .	0
'UNDELIVERED' BCOS . . . . .	0
'EXTRA' BCOS . . . . .	0
SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . .	50
SOURCE USER INFORMATION BLOCKS CORRELATED . . . . .	50
SOURCE USER INFORMATION BITS TRANSMITTED . . . . .	1600000
SOURCE USER INFORMATION BITS CORRELATED . . . . .	1600000
DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . .	50
DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . .	50
DESTINATION USER INFORMATION BITS RECEIVED . . . . .	1600000
DESTINATION USER INFORMATION BITS CORRELATED . . . . .	1600000

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 CORRELATOR SPECIFICATIONS  
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USER INFORMATION WINDOW SIZE . . . . .	16 BITS
MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR IDENTIFICATION ALGORITHM . . . . .	64000 BITS
MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT IDENTIFICATION ALGORITHM . . . . .	96000 BITS
MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT IDENTIFICATION ALGORITHM . . . . .	96000 BITS

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 NTIA-ITS (Boulder) 5813  
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\*\*\*\*\*  
 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
 (CONTINUED)  
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 PERFORMANCE STATISTICS  
 -----

BIT TRANSFER ATTEMPTS . . . . .	1600000 (+)
'SUCCESSFUL BIT TRANSFER' OUTCOMES . . . . .	1600000
'INCORRECT BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'INCORRECT BIT' OUTCOMES . . . . .	0
'LOST BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'LOST BIT' OUTCOMES . . . . .	0
'EXTRA BIT' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'EXTRA BIT' OUTCOMES . . . . .	0
BLOCK TRANSFER ATTEMPTS . . . . .	50 (+)
'SUCCESSFUL BLOCK TRANSFER' OUTCOMES . . . . .	50
'INCORRECT BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'INCORRECT BLOCK' OUTCOMES . . . . .	0
'LOST BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'LOST BLOCK' OUTCOMES . . . . .	0
'EXTRA BLOCK' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'EXTRA BLOCK' OUTCOMES . . . . .	0
TRANSFER SAMPLES . . . . .	4 (+)
'TRANSFER DENIAL' OUTCOMES . . . . .	0
PAIRS OF SUCCESSIVE 'TRANSFER DENIAL' OUTCOMES . . . . .	0
INPUT TIME FOR THROUGHPUT SAMPLE . . . . .	142.655 SEC
USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . .	1.680 SEC
OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . .	150.731 SEC
USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . .	1.670 SEC
BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . .	1568000
'SUCCESSFUL BIT TRANSFER' OUTCOMES IN THROUGHPUT SAMPLE . . . . .	1568000
BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . .	49

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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 NTIA-ITS (Boulder) 5813  
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 \* USER INFORMATION TRANSFER ASSESSMENT SUMMARY \*  
 (CONTINUED)  
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 MEASURED PERFORMANCE PARAMETER VALUES  
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BIT ERROR PROBABILITY . . . . .	0
BIT LOSS PROBABILITY . . . . .	0
EXTRA BIT PROBABILITY . . . . .	0
BLOCK TRANSFER TIME . . . . .	12.018 SEC
USER FRACTION OF BLOCK TRANSFER TIME . . . . .	0.0141
BLOCK ERROR PROBABILITY . . . . .	0
BLOCK LOSS PROBABILITY . . . . .	0
EXTRA BLOCK PROBABILITY . . . . .	0
TRANSFER DENIAL PROBABILITY . . . . .	0
USER INFORMATION BIT TRANSFER RATE . . . . .	10403 BPS
USER FRACTION OF INPUT/OUTPUT TIME . . . . .	0.0111

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 REDUCTION SPECIFICATIONS  
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SPECIFIED BLOCK TRANSFER TIME . . . . .	12.030 SEC
SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . .	0.0500
SPECIFIED USER INFORMATION BIT TRANSFER RATE FOR TRANSFER SAMPLE . . . . .	10390 BPS
SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME FOR TRANSFER SAMPLE . . . . .	0.0500
SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-06)
SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-08)
SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . .	1.0 X 10(-08)
MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS IN TRANSFER SAMPLE . . . . .	320000

PERFORMANCE ASSESSMENT SUMMARY
NTIA-ITS (Boulder) 5814
SOURCE USER . . . . . NTIA - x.25 over pkt channel
DESTINATION USER . . . . . NASA LeRC - over ACTS
ORIGINATING USER . . . . . SOURCE
SESSION CATEGORY . . . . . CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
MEASUREMENT START TIME . . . . . 01/23/95 15:29:40.003 LT
MEASUREMENT END TIME . . . . . 01/23/95 15:32:17.930 LT
(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

NTIA-ITS (Boulder) 5814
USER INFORMATION TRANSFER ASSESSMENT SUMMARY
(CONTINUED)
PERFORMANCE STATISTICS
BIT TRANSFER ATTEMPTS . . . . . 1600000 (+)
SUCCESSFUL BIT TRANSFER OUTCOMES . . . . . 1600000
INCORRECT BIT OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE INCORRECT BIT OUTCOMES . . . . . 0
LOST BIT OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE LOST BIT OUTCOMES . . . . . 0
EXTRA BIT OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE EXTRA BIT OUTCOMES . . . . . 0
BLOCK TRANSFER ATTEMPTS . . . . . 50 (+)
SUCCESSFUL BLOCK TRANSFER OUTCOMES . . . . . 50
INCORRECT BLOCK OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE INCORRECT BLOCK OUTCOMES . . . . . 0
LOST BLOCK OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE LOST BLOCK OUTCOMES . . . . . 0
EXTRA BLOCK OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE EXTRA BLOCK OUTCOMES . . . . . 0
TRANSFER SAMPLES . . . . . 4 (+)
TRANSFER DENIAL OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE TRANSFER DENIAL OUTCOMES . . . . . 0
INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 142.642 SEC
USER INPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.747 SEC
OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 150.735 SEC
USER OUTPUT TIME FOR THROUGHPUT SAMPLE . . . . . 1.675 SEC
BIT TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 1568000
SUCCESSFUL BIT TRANSFER OUTCOMES IN THROUGHPUT SAMPLE . . . . . 1568000
BLOCK TRANSFER ATTEMPTS IN THROUGHPUT SAMPLE . . . . . 49
(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

NTIA-ITS (Boulder) 5814
USER INFORMATION TRANSFER ASSESSMENT SUMMARY
CORRELATION SUMMARY
CORRELATOR OUTPUT BLOCKS . . . . . 50
BIT COMPARISON OUTCOMES (BCOS) . . . . . 1600000
CORRECT BCOS . . . . . 1600000
INCORRECT BCOS . . . . . 0
UNDELIVERED BCOS . . . . . 0
EXTRA BCOS . . . . . 0
SOURCE USER INFORMATION BLOCKS TRANSMITTED . . . . . 50
SOURCE USER INFORMATION BLOCKS CORRELATED . . . . . 50
SOURCE USER INFORMATION BITS TRANSMITTED . . . . . 1600000
SOURCE USER INFORMATION BITS CORRELATED . . . . . 1600000
DESTINATION USER INFORMATION BLOCKS RECEIVED . . . . . 50
DESTINATION USER INFORMATION BLOCKS CORRELATED . . . . . 50
DESTINATION USER INFORMATION BITS RECEIVED . . . . . 1600000
DESTINATION USER INFORMATION BITS CORRELATED . . . . . 1600000
CORRELATOR SPECIFICATIONS
USER INFORMATION WINDOW SIZE . . . . . 16 BITS
MAXIMUM DATA SHIFT EXECUTED IN BIT ERROR IDENTIFICATION ALGORITHM . . . . . 64000 BITS
MAXIMUM DATA SHIFT EXECUTED IN UNDELIVERED BIT IDENTIFICATION ALGORITHM . . . . . 96000 BITS
MAXIMUM DATA SHIFT EXECUTED IN EXTRA BIT IDENTIFICATION ALGORITHM . . . . . 96000 BITS

NTIA-ITS (Boulder) 5814
USER INFORMATION TRANSFER ASSESSMENT SUMMARY
(CONTINUED)
MEASURED PERFORMANCE PARAMETER VALUES
BIT ERROR PROBABILITY . . . . . 0
BIT LOSS PROBABILITY . . . . . 0
EXTRA BIT PROBABILITY . . . . . 0
BLOCK TRANSFER TIME . . . . . 12.020 SEC
USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0145
BLOCK ERROR PROBABILITY . . . . . 0
BLOCK LOSS PROBABILITY . . . . . 0
EXTRA BLOCK PROBABILITY . . . . . 0
TRANSFER DENIAL PROBABILITY . . . . . 0
USER INFORMATION BIT TRANSFER RATE . . . . . 10402 BPS
USER FRACTION OF INPUT/OUTPUT TIME . . . . . 0.0116
REDUCTION SPECIFICATIONS
SPECIFIED BLOCK TRANSFER TIME . . . . . 12.030 SEC
SPECIFIED USER FRACTION OF BLOCK TRANSFER TIME . . . . . 0.0500
SPECIFIED USER INFORMATION BIT TRANSFER RATE FOR TRANSFER SAMPLE . . . . . 10390 BPS
SPECIFIED USER FRACTION OF INPUT/OUTPUT TIME FOR TRANSFER SAMPLE . . . . . 0.0500
SPECIFIED BIT ERROR PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-06)
SPECIFIED BIT LOSS PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
SPECIFIED EXTRA BIT PROBABILITY FOR TRANSFER SAMPLE . . . . . 1.0 X 10(-08)
MINIMUM NUMBER OF BIT TRANSFER ATTEMPTS IN TRANSFER SAMPLE . . . . . 320000

PERFORMANCE ASSESSMENT SUMMARY

NTIA-ITS (Boulder) 5804

PERFORMANCE DATA BATCH
NTIA-ITS (Boulder) 5804
SOURCE USER . . . . . NTIA - x.25 over pkt channel
DESTINATION USER . . . . . NASA LeRC - over ACTS
ORIGINATING USER . . . . . SOURCE
SESSION CATEGORY . . . . . CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
MEASUREMENT START TIME . . . . . 12/28/94 18:32:07.974 LT
MEASUREMENT END TIME . . . . . 12/28/94 18:54:04.259 LT
(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

SOURCE DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS
DISENGAGEMENT ATTEMPTS . . . . . 100 (+)
'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100
'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES
DISENGAGEMENT TIME . . . . . 1.669 SEC
USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0203
DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS
SPECIFIED DISENGAGEMENT TIME . . . . . 1.720 SEC
SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500
SPECIFIED ACCESS TIME . . . . . 1.470 SEC

NTIA-ITS (Boulder) 5804

NTIA-ITS (Boulder) 5804

ACCESS ASSESSMENT SUMMARY

DESTINATION DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS
ACCESS ATTEMPTS . . . . . 100 (+)
'SUCCESSFUL ACCESS' OUTCOMES . . . . . 100
'INCORRECT ACCESS' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0
'ACCESS DENIAL' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0
'ACCESS OUTAGE' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0
(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

PERFORMANCE STATISTICS
DISENGAGEMENT ATTEMPTS . . . . . 100 (+)
'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100
'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES
ACCESS TIME . . . . . 1.462 SEC
USER FRACTION OF ACCESS TIME . . . . . 0.4755
INCORRECT ACCESS PROBABILITY . . . . . 0
ACCESS DENIAL PROBABILITY . . . . . 0
ACCESS OUTAGE PROBABILITY . . . . . 0

MEASURED PERFORMANCE PARAMETER VALUES
DISENGAGEMENT TIME . . . . . 2.286 SEC
USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8152
DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS
SPECIFIED ACCESS TIME . . . . . 1.470 SEC
SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 0.5000

REDUCTION SPECIFICATIONS
SPECIFIED DISENGAGEMENT TIME . . . . . 2.340 SEC
SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8000
SPECIFIED ACCESS TIME . . . . . 1.470 SEC

PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

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 NTIA-ITS (Boulder) 5805  
 -----  
 SOURCE USER . . . . . NTIA - x.25 over pkt channel  
 DESTINATION USER . . . . . NASA LeRC - over ACTS  
 ORIGINATING USER . . . . . SOURCE  
 SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
 MEASUREMENT START TIME . . . . . 01/05/95 12:10:04.009 LT  
 MEASUREMENT END TIME . . . . . 01/05/95 12:32:05.122 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

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 NTIA-ITS (Boulder) 5805  
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ACCESS ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

-----  
 ACCESS ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 100  
 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

-----  
 ACCESS TIME . . . . . 1.507 SEC  
 USER FRACTION OF ACCESS TIME . . . . . 0.4632  
 INCORRECT ACCESS PROBABILITY . . . . . 0  
 ACCESS DENIAL PROBABILITY . . . . . 0  
 ACCESS OUTAGE PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

-----  
 SPECIFIED ACCESS TIME . . . . . 1.470 SEC  
 SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 0.5000

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 NTIA-ITS (Boulder) 5805  
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SOURCE  
 DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

-----  
 DISENGAGEMENT ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

-----  
 DISENGAGEMENT TIME . . . . . 1.670 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0206  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

-----  
 SPECIFIED DISENGAGEMENT TIME . . . . . 1.720 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500  
 SPECIFIED ACCESS TIME . . . . . 1.470 SEC

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 NTIA-ITS (Boulder) 5805  
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DESTINATION  
 DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

-----  
 DISENGAGEMENT ATTEMPTS . . . . . 100 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

-----  
 DISENGAGEMENT TIME . . . . . 2.293 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8150  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

-----  
 SPECIFIED DISENGAGEMENT TIME . . . . . 2.340 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8000  
 SPECIFIED ACCESS TIME . . . . . 1.470 SEC

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\* PERFORMANCE ASSESSMENT SUMMARY \*  
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\* PERFORMANCE DATA BATCH \*  
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NTIA-ITS (Boulder)	5806
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SOURCE USER	NTIA - x.25 over pkt channel
DESTINATION USER	NASA LeRC - over ACTS
ORIGINATING USER	SOURCE
SESSION CATEGORY	CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY	NEGOTIATED
MEASUREMENT START TIME	01/05/95 12:41:42.023 LT
MEASUREMENT END TIME	01/05/95 13:03:41.681 LT

(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

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NTIA-ITS (Boulder) 5806  
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\* ACCESS ASSESSMENT SUMMARY \*  
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\* PERFORMANCE STATISTICS \*  
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ACCESS ATTEMPTS	100 (+)
'SUCCESSFUL ACCESS' OUTCOMES	100
'INCORRECT ACCESS' OUTCOMES	0
PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES	0
'ACCESS DENIAL' OUTCOMES	0
PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES	0
'ACCESS OUTAGE' OUTCOMES	0
PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES	0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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\* MEASURED PERFORMANCE PARAMETER VALUES \*  
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ACCESS TIME	1.484 SEC
USER FRACTION OF ACCESS TIME	0.4807
INCORRECT ACCESS PROBABILITY	0
ACCESS DENIAL PROBABILITY	0
ACCESS OUTAGE PROBABILITY	0

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\* REDUCTION SPECIFICATIONS \*  
\*\*\*\*\*

SPECIFIED ACCESS TIME	1.470 SEC
SPECIFIED USER FRACTION OF ACCESS TIME	0.5000

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NTIA-ITS (Boulder) 5806  
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\* SOURCE DISENGAGEMENT ASSESSMENT SUMMARY \*  
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\* PERFORMANCE STATISTICS \*  
\*\*\*\*\*

DISENGAGEMENT ATTEMPTS	100 (+)
'SUCCESSFUL DISENGAGEMENT' OUTCOMES	100
'DISENGAGEMENT DENIAL' OUTCOMES	0
PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES	0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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\* MEASURED PERFORMANCE PARAMETER VALUES \*  
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DISENGAGEMENT TIME	1.674 SEC
USER FRACTION OF DISENGAGEMENT TIME	0.0221
DISENGAGEMENT DENIAL PROBABILITY	0

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\* REDUCTION SPECIFICATIONS \*  
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SPECIFIED DISENGAGEMENT TIME	1.720 SEC
SPECIFIED USER FRACTION OF DISENGAGEMENT TIME	0.0500
SPECIFIED ACCESS TIME	1.470 SEC

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NTIA-ITS (Boulder) 5806  
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\* DESTINATION DISENGAGEMENT ASSESSMENT SUMMARY \*  
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\* PERFORMANCE STATISTICS \*  
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DISENGAGEMENT ATTEMPTS	100 (+)
'SUCCESSFUL DISENGAGEMENT' OUTCOMES	100
'DISENGAGEMENT DENIAL' OUTCOMES	0
PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES	0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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\* MEASURED PERFORMANCE PARAMETER VALUES \*  
\*\*\*\*\*

DISENGAGEMENT TIME	2.295 SEC
USER FRACTION OF DISENGAGEMENT TIME	0.8129
DISENGAGEMENT DENIAL PROBABILITY	0

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\* REDUCTION SPECIFICATIONS \*  
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SPECIFIED DISENGAGEMENT TIME	2.340 SEC
SPECIFIED USER FRACTION OF DISENGAGEMENT TIME	0.8000
SPECIFIED ACCESS TIME	1.470 SEC

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 \* PERFORMANCE ASSESSMENT SUMMARY  
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PERFORMANCE DATA BATCH  
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 \* NTIA-ITS (Boulder) 5809  
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 \* SOURCE USER . . . . . NTIA - x.25 over pkt channel  
 \* DESTINATION USER . . . . . NASA LeRC - over ACTS  
 \* ORIGINATING USER . . . . . SOURCE  
 \*  
 \* SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 \* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
 \*  
 \* MEASUREMENT START TIME . . . . . 01/18/95 16:37:22.982 LT  
 \* MEASUREMENT END TIME . . . . . 01/18/95 16:59:21.673 LT  
 \* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)  
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 \* NTIA-ITS (Boulder) 5809  
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 \* ACCESS ASSESSMENT SUMMARY  
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 \* PERFORMANCE STATISTICS  
 \*  
 \* ACCESS ATTEMPTS . . . . . 100 (+)  
 \* 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 100  
 \* 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 \* PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 \* 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 \* PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 \* 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 \* PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE  
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 \* MEASURED PERFORMANCE PARAMETER VALUES  
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 \* ACCESS TIME . . . . . 1.494 SEC  
 \* USER FRACTION OF ACCESS TIME . . . . . 0.4750  
 \*  
 \* INCORRECT ACCESS PROBABILITY . . . . . 0  
 \* ACCESS DENIAL PROBABILITY . . . . . 0  
 \* ACCESS OUTAGE PROBABILITY . . . . . 0  
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 \* REDUCTION SPECIFICATIONS  
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 \* SPECIFIED ACCESS TIME . . . . . 1.470 SEC  
 \* SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 0.5000  
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 \* NTIA-ITS (Boulder) 5809  
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 \* SOURCE  
 \* DISENGAGEMENT ASSESSMENT SUMMARY  
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 \* PERFORMANCE STATISTICS  
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 \* DISENGAGEMENT ATTEMPTS . . . . . 100 (+)  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE  
 \*  
 \*-----  
 \* MEASURED PERFORMANCE PARAMETER VALUES  
 \*-----  
 \* DISENGAGEMENT TIME . . . . . 1.661 SEC  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0219  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0  
 \*  
 \*-----  
 \* REDUCTION SPECIFICATIONS  
 \*-----  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 1.720 SEC  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500  
 \* SPECIFIED ACCESS TIME . . . . . 1.470 SEC  
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 \* NTIA-ITS (Boulder) 5809  
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 \* DESTINATION  
 \* DISENGAGEMENT ASSESSMENT SUMMARY  
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 \* PERFORMANCE STATISTICS  
 \*-----  
 \* DISENGAGEMENT ATTEMPTS . . . . . 100 (+)  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE  
 \*  
 \*-----  
 \* MEASURED PERFORMANCE PARAMETER VALUES  
 \*-----  
 \* DISENGAGEMENT TIME . . . . . 2.276 SEC  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8162  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0  
 \*  
 \*-----  
 \* REDUCTION SPECIFICATIONS  
 \*-----  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 2.340 SEC  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8000  
 \* SPECIFIED ACCESS TIME . . . . . 1.470 SEC  
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 \* PERFORMANCE ASSESSMENT SUMMARY \*  
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 \* PERFORMANCE DATA BATCH \*  
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NTIA-ITS (Boulder)	5810
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SOURCE USER	NTIA - x.25 over pkt channel
DESTINATION USER	NASA LeRC - over ACTS
ORIGINATING USER	SOURCE
SESSION CATEGORY	CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY	NEGOTIATED
MEASUREMENT START TIME	01/18/95 17:08:01.284 LT
MEASUREMENT END TIME	01/18/95 17:29:59.555 LT
(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)	

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NTIA-ITS (Boulder)	5810
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 \* ACCESS ASSESSMENT SUMMARY \*  
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 \* PERFORMANCE STATISTICS \*  
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ACCESS ATTEMPTS	100 (+)
'SUCCESSFUL ACCESS' OUTCOMES	100
'INCORRECT ACCESS' OUTCOMES	0
PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES	0
'ACCESS DENIAL' OUTCOMES	0
PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES	0
'ACCESS OUTAGE' OUTCOMES	0
PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES	0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

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 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*\*\*\*\*

ACCESS TIME	1.489 SEC
USER FRACTION OF ACCESS TIME	0.4795
INCORRECT ACCESS PROBABILITY	0
ACCESS DENIAL PROBABILITY	0
ACCESS OUTAGE PROBABILITY	0

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 \* REDUCTION SPECIFICATIONS \*  
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SPECIFIED ACCESS TIME	1.470 SEC
SPECIFIED USER FRACTION OF ACCESS TIME	0.5000

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 NTIA-ITS (Boulder) 5810  
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 \* SOURCE DISENGAGEMENT ASSESSMENT SUMMARY \*  
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 \* PERFORMANCE STATISTICS \*  
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DISENGAGEMENT ATTEMPTS	100 (+)
'SUCCESSFUL DISENGAGEMENT' OUTCOMES	100
'DISENGAGEMENT DENIAL' OUTCOMES	0
PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES	0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

\*\*\*\*\*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*\*\*\*\*

DISENGAGEMENT TIME	1.661 SEC
USER FRACTION OF DISENGAGEMENT TIME	0.0217
DISENGAGEMENT DENIAL PROBABILITY	0

\*\*\*\*\*  
 \* REDUCTION SPECIFICATIONS \*  
 \*\*\*\*\*

SPECIFIED DISENGAGEMENT TIME	1.720 SEC
SPECIFIED USER FRACTION OF DISENGAGEMENT TIME	0.0500
SPECIFIED ACCESS TIME	1.470 SEC

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NTIA-ITS (Boulder)	5810
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\*\*\*\*\*  
 \* DESTINATION DISENGAGEMENT ASSESSMENT SUMMARY \*  
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\*\*\*\*\*  
 \* PERFORMANCE STATISTICS \*  
 \*\*\*\*\*

DISENGAGEMENT ATTEMPTS	100 (+)
'SUCCESSFUL DISENGAGEMENT' OUTCOMES	100
'DISENGAGEMENT DENIAL' OUTCOMES	0
PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES	0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

\*\*\*\*\*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*\*\*\*\*

DISENGAGEMENT TIME	2.276 SEC
USER FRACTION OF DISENGAGEMENT TIME	0.8154
DISENGAGEMENT DENIAL PROBABILITY	0

\*\*\*\*\*  
 \* REDUCTION SPECIFICATIONS \*  
 \*\*\*\*\*

SPECIFIED DISENGAGEMENT TIME	2.340 SEC
SPECIFIED USER FRACTION OF DISENGAGEMENT TIME	0.8000
SPECIFIED ACCESS TIME	1.470 SEC

\*\*\*\*\*

PERFORMANCE ASSESSMENT SUMMARY

NTIA-ITS (Boulder) 5811

PERFORMANCE DATA BATCH

NTIA-ITS (Boulder) 5811

SOURCE USER . . . . . NTIA - x.25 over pkt channel

DESTINATION USER . . . . . NASA LeRC - over ACTS

ORIGINATING USER . . . . . SOURCE

SESSION CATEGORY . . . . . CONNECTION ORIENTED

INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED

MEASUREMENT START TIME . . . . . 01/23/95 14:32:42.175 LT

MEASUREMENT END TIME . . . . . 01/23/95 14:54:43.714 LT

(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

SOURCE DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

DISENGAGEMENT ATTEMPTS . . . . . 100 (+)

'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100

'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

DISENGAGEMENT TIME . . . . . 1.673 SEC

USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0233

DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

SPECIFIED DISENGAGEMENT TIME . . . . . 1.720 SEC

SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500

SPECIFIED ACCESS TIME . . . . . 1.470 SEC

NTIA-ITS (Boulder) 5811

NTIA-ITS (Boulder) 5811

ACCESS ASSESSMENT SUMMARY

DESTINATION DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

PERFORMANCE STATISTICS

ACCESS ATTEMPTS . . . . . 100 (+)

'SUCCESSFUL ACCESS' OUTCOMES . . . . . 100

'INCORRECT ACCESS' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0

'ACCESS DENIAL' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0

'ACCESS OUTAGE' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

DISENGAGEMENT ATTEMPTS . . . . . 100 (+)

'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100

'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0

(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

MEASURED PERFORMANCE PARAMETER VALUES

ACCESS TIME . . . . . 1.508 SEC

USER FRACTION OF ACCESS TIME . . . . . 0.4744

INCORRECT ACCESS PROBABILITY . . . . . 0

ACCESS DENIAL PROBABILITY . . . . . 0

ACCESS OUTAGE PROBABILITY . . . . . 0

DISENGAGEMENT TIME . . . . . 2.298 SEC

USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8155

DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

REDUCTION SPECIFICATIONS

SPECIFIED ACCESS TIME . . . . . 1.470 SEC

SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 0.5000

SPECIFIED DISENGAGEMENT TIME . . . . . 2.340 SEC

SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8000

SPECIFIED ACCESS TIME . . . . . 1.470 SEC



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*                                     *
*                                     *
* PERFORMACE ASSESSMENT SUMMARY      *
*                                     *
*                                     *
*                                     *
* PERFORMANCE DATA BATCH            *
*-----*-----*
* NTIA-ITS (Boulder)                 5812
*-----*-----*
* SOURCE USER . . . . . NTIA - x.25 over pkt channel
* DESTINATION USER . . . . . NASA LeRC - over ACTS
* ORIGINATING USER . . . . . SOURCE
*
* SESSION CATEGORY . . . . . CONNECTION ORIENTED
* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
* MEASUREMENT START TIME . . . . . 01/23/95 14:57:44.012 LT
* MEASUREMENT END TIME . . . . . 01/23/95 15:19:45.067 LT
* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)
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NTIA-ITS (Boulder)                 5812
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*****
*                                     *
* ACCESS ASSESSMENT SUMMARY          *
*                                     *
*-----*-----*
* PERFORMANCE STATISTICS             *
*-----*-----*
* ACCESS ATTEMPTS . . . . . 100 (+)
* 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 100
* 'INCORRECT ACCESS' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0
* 'ACCESS DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0
* 'ACCESS OUTAGE' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*-----*-----*
* MEASURED PERFORMANCE PARAMETER VALUES
*-----*-----*
* ACCESS TIME . . . . . 1.499 SEC
* USER FRACTION OF ACCESS TIME . . . . . 0.4667
*
* INCORRECT ACCESS PROBABILITY . . . . . 0
* ACCESS DENIAL PROBABILITY . . . . . 0
* ACCESS OUTAGE PROBABILITY . . . . . 0
*
*-----*-----*
* REDUCTION SPECIFICATIONS           *
*-----*-----*
* SPECIFIED ACCESS TIME . . . . . 1.470 SEC
* SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 0.5000
*-----*-----*
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NTIA-ITS (Boulder)                 5812
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*****
*                                     *
* SOURCE                              *
* DISENGAGEMENT ASSESSMENT SUMMARY   *
*                                     *
*-----*-----*
* PERFORMANCE STATISTICS             *
*-----*-----*
* DISENGAGEMENT ATTEMPTS . . . . . 100 (+)
* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100
* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*-----*-----*
* MEASURED PERFORMANCE PARAMETER VALUES
*-----*-----*
* DISENGAGEMENT TIME . . . . . 1.675 SEC
* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0217
* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0
*
*-----*-----*
* REDUCTION SPECIFICATIONS           *
*-----*-----*
* SPECIFIED DISENGAGEMENT TIME . . . . . 1.720 SEC
* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500
* SPECIFIED ACCESS TIME . . . . . 1.470 SEC
*-----*-----*
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NTIA-ITS (Boulder)                 5812
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*****
*                                     *
* DESTINATION                          *
* DISENGAGEMENT ASSESSMENT SUMMARY   *
*                                     *
*-----*-----*
* PERFORMANCE STATISTICS             *
*-----*-----*
* DISENGAGEMENT ATTEMPTS . . . . . 100 (+)
* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 100
* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
*
* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*-----*-----*
* MEASURED PERFORMANCE PARAMETER VALUES
*-----*-----*
* DISENGAGEMENT TIME . . . . . 2.299 SEC
* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8139
* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0
*
*-----*-----*
* REDUCTION SPECIFICATIONS           *
*-----*-----*
* SPECIFIED DISENGAGEMENT TIME . . . . . 2.340 SEC
* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.8000
* SPECIFIED ACCESS TIME . . . . . 1.470 SEC
*-----*-----*
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\*\*\*\*\*  
 \* PERFORMANCE ASSESSMENT SUMMARY \*  
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PERFORMANCE DATA BATCH  
 -----  
 \* NTIA-ITS (Boulder) 5901 \*  
 -----  
 \* SOURCE USER . . . . . NTIA - ISDN \*  
 \* DESTINATION USER . . . . . NASA LeRC - over ACTS \*  
 \* ORIGINATING USER . . . . . SOURCE \*  
 \* SESSION CATEGORY . . . . . CONNECTION ORIENTED \*  
 \* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED \*  
 \* MEASUREMENT START TIME . . . . . 01/05/95 17:01:37.855 LT \*  
 \* MEASUREMENT END TIME . . . . . 01/05/95 17:30:43.642 LT \*  
 \* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE) \*  
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 \* NTIA-ITS (Boulder) 5901 \*  
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\*\*\*\*\*  
 \* ACCESS ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

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 \* PERFORMANCE STATISTICS \*  
 -----  
 \* ACCESS ATTEMPTS . . . . . 40 (+) \*  
 \* 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 40 \*  
 \* 'INCORRECT ACCESS' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0 \*  
 \* 'ACCESS DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0 \*  
 \* 'ACCESS OUTAGE' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \* -----  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \* -----  
 \* ACCESS TIME . . . . . 24.511 SEC \*  
 \* USER FRACTION OF ACCESS TIME . . . . . 0.0045 \*  
 \* INCORRECT ACCESS PROBABILITY . . . . . 0 \*  
 \* ACCESS DENIAL PROBABILITY . . . . . 0 \*  
 \* ACCESS OUTAGE PROBABILITY . . . . . 0 \*  
 \* -----  
 \* REDUCTION SPECIFICATIONS \*  
 \* -----  
 \* SPECIFIED ACCESS TIME . . . . . 23.480 SEC \*  
 \* SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 0.0100 \*  
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 \* NTIA-ITS (Boulder) 5901 \*  
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\*\*\*\*\*  
 \* SOURCE \*  
 \* DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

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 \* PERFORMANCE STATISTICS \*  
 -----  
 \* DISENGAGEMENT ATTEMPTS . . . . . 40 (+) \*  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40 \*  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \* -----  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \* -----  
 \* DISENGAGEMENT TIME . . . . . 4.231 SEC \*  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0216 \*  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 \*  
 \* -----  
 \* REDUCTION SPECIFICATIONS \*  
 \* -----  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 3.950 SEC \*  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0100 \*  
 \* SPECIFIED ACCESS TIME . . . . . 23.480 SEC \*  
 \*\*\*\*\*

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 \* NTIA-ITS (Boulder) 5901 \*  
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\*\*\*\*\*  
 \* DESTINATION \*  
 \* DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

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 \* PERFORMANCE STATISTICS \*  
 -----  
 \* DISENGAGEMENT ATTEMPTS . . . . . 40 (+) \*  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40 \*  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \* -----  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \* -----  
 \* DISENGAGEMENT TIME . . . . . 1.845 SEC \*  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0403 \*  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 \*  
 \* -----  
 \* REDUCTION SPECIFICATIONS \*  
 \* -----  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 1.810 SEC \*  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500 \*  
 \* SPECIFIED ACCESS TIME . . . . . 23.480 SEC \*  
 \*\*\*\*\*

\*\*\*\*\*  
 \* PERFORMANCE ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

PERFORMANCE DATA BATCH  
 -----  
 \* NTIA-ITS (Boulder) 5902 \*  
 -----  
 \* SOURCE USER . . . . . NTIA - ISDN \*  
 \* DESTINATION USER . . . . . NASA LeRC - over ACTS \*  
 \* ORIGINATING USER . . . . . SOURCE \*  
 \* SESSION CATEGORY . . . . . CONNECTION ORIENTED \*  
 \* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED \*  
 \* MEASUREMENT START TIME . . . . . 01/05/95 17:36:46.892 LT \*  
 \* MEASUREMENT END TIME . . . . . 01/05/95 18:05:51.023 LT \*  
 \* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE) \*  
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 \* NTIA-ITS (Boulder) 5902 \*  
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\*\*\*\*\*  
 \* ACCESS ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 \* ACCESS ATTEMPTS . . . . . 40 (+) \*  
 \* 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 40 \*  
 \* 'INCORRECT ACCESS' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0 \*  
 \* 'ACCESS DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0 \*  
 \* 'ACCESS OUTAGE' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*-----\*  
 \* ACCESS TIME . . . . . 24.530 SEC \*  
 \* USER FRACTION OF ACCESS TIME . . . . . 0.0043 \*  
 \* INCORRECT ACCESS PROBABILITY . . . . . 0 \*  
 \* ACCESS DENIAL PROBABILITY . . . . . 0 \*  
 \* ACCESS OUTAGE PROBABILITY . . . . . 0 \*  
 \*  
 \* REDUCTION SPECIFICATIONS \*  
 \*-----\*  
 \* SPECIFIED ACCESS TIME . . . . . 23.480 SEC \*  
 \* SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 0.0100 \*  
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 \* NTIA-ITS (Boulder) 5902 \*  
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 \*\*\*\*\*  
 \* SOURCE \*  
 \* DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 \* DISENGAGEMENT ATTEMPTS . . . . . 40 (+) \*  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40 \*  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*-----\*  
 \* DISENGAGEMENT TIME . . . . . 4.170 SEC \*  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0223 \*  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 \*  
 \*  
 \* REDUCTION SPECIFICATIONS \*  
 \*-----\*  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 3.950 SEC \*  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0100 \*  
 \* SPECIFIED ACCESS TIME . . . . . 23.480 SEC \*  
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 \* NTIA-ITS (Boulder) 5902 \*  
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\*\*\*\*\*  
 \* DESTINATION \*  
 \* DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 \* DISENGAGEMENT ATTEMPTS . . . . . 40 (+) \*  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40 \*  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*-----\*  
 \* DISENGAGEMENT TIME . . . . . 1.848 SEC \*  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0411 \*  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 \*  
 \*  
 \* REDUCTION SPECIFICATIONS \*  
 \*-----\*  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 1.810 SEC \*  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500 \*  
 \* SPECIFIED ACCESS TIME . . . . . 23.480 SEC \*  
 \*\*\*\*\*

PERFORMANCE ASSESSMENT SUMMARY

PERFORMANCE DATA BATCH

NTIA-ITS (Boulder) 5903

SOURCE USER . . . . . NTIA - ISDN
DESTINATION USER . . . . . NASA LeRC - over ACTS
ORIGINATING USER . . . . . SOURCE
SESSION CATEGORY . . . . . CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
MEASUREMENT START TIME . . . . . 01/10/95 10:43:41.860 LT
MEASUREMENT END TIME . . . . . 01/10/95 11:14:11.059 LT
(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

NTIA-ITS (Boulder) 5903

ACCESS ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

\* ACCESS ATTEMPTS . . . . . 40 (+)
\* 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 40
\* 'INCORRECT ACCESS' OUTCOMES . . . . . 0
\* PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0
\* 'ACCESS DENIAL' OUTCOMES . . . . . 0
\* PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0
\* 'ACCESS OUTAGE' OUTCOMES . . . . . 0
\* PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0
(+ ) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

\* ACCESS TIME . . . . . 26.866 SEC
\* USER FRACTION OF ACCESS TIME . . . . . 0.0039
\* INCORRECT ACCESS PROBABILITY . . . . . 0
\* ACCESS DENIAL PROBABILITY . . . . . 0
\* ACCESS OUTAGE PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

\* SPECIFIED ACCESS TIME . . . . . 23.480 SEC
\* SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 0.0100

NTIA-ITS (Boulder) 5903

SOURCE DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

\* DISENGAGEMENT ATTEMPTS . . . . . 40 (+)
\* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40
\* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
\* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
(+ ) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

\* DISENGAGEMENT TIME . . . . . 3.965 SEC
\* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0231
\* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

\* SPECIFIED DISENGAGEMENT TIME . . . . . 3.950 SEC
\* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0100
\* SPECIFIED ACCESS TIME . . . . . 23.480 SEC

NTIA-ITS (Boulder) 5903

DESTINATION DISENGAGEMENT ASSESSMENT SUMMARY

PERFORMANCE STATISTICS

\* DISENGAGEMENT ATTEMPTS . . . . . 40 (+)
\* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40
\* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
\* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
(+ ) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE

MEASURED PERFORMANCE PARAMETER VALUES

\* DISENGAGEMENT TIME . . . . . 1.871 SEC
\* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0398
\* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0

REDUCTION SPECIFICATIONS

\* SPECIFIED DISENGAGEMENT TIME . . . . . 1.810 SEC
\* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500
\* SPECIFIED ACCESS TIME . . . . . 23.480 SEC

\*\*\*\*\*  
 \* PERFORMANCE ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

\*\*\*\*\*  
 \* PERFORMANCE DATA BATCH \*  
 \*\*\*\*\*  
 \* NTIA-ITS (Boulder) 5904 \*  
 \*\*\*\*\*  
 \* SOURCE USER . . . . . NTIA - ISDN \*  
 \* DESTINATION USER . . . . . NASA LeRC - over ACTS \*  
 \* ORIGINATING USER . . . . . SOURCE \*  
 \*\*\*\*\*  
 \* SESSION CATEGORY . . . . . CONNECTION ORIENTED \*  
 \* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED \*  
 \* MEASUREMENT START TIME . . . . . 01/10/95 16:06:10.859 LT \*  
 \* MEASUREMENT END TIME . . . . . 01/10/95 16:37:17.196 LT \*  
 \* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE) \*  
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 NTIA-ITS (Boulder) 5904  
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\*\*\*\*\*  
 \* ACCESS ASSESSMENT SUMMARY \*  
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\*\*\*\*\*  
 \* PERFORMANCE STATISTICS \*  
 \*\*\*\*\*  
 \* ACCESS ATTEMPTS . . . . . 40 (+) \*  
 \* 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 40 \*  
 \* 'INCORRECT ACCESS' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0 \*  
 \* 'ACCESS DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0 \*  
 \* 'ACCESS OUTAGE' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \*\*\*\*\*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*\*\*\*\*  
 \* ACCESS TIME . . . . . 27.346 SEC \*  
 \* USER FRACTION OF ACCESS TIME . . . . . 0.0039 \*  
 \* INCORRECT ACCESS PROBABILITY . . . . . 0 \*  
 \* ACCESS DENIAL PROBABILITY . . . . . 0 \*  
 \* ACCESS OUTAGE PROBABILITY . . . . . 0 \*  
 \*\*\*\*\*  
 \* REDUCTION SPECIFICATIONS \*  
 \*\*\*\*\*  
 \* SPECIFIED ACCESS TIME . . . . . 23.480 SEC \*  
 \* SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 0.0100 \*  
 \*\*\*\*\*

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 NTIA-ITS (Boulder) 5904  
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\*\*\*\*\*  
 \* SOURCE \*  
 \* DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

\*\*\*\*\*  
 \* PERFORMANCE STATISTICS \*  
 \*\*\*\*\*  
 \* DISENGAGEMENT ATTEMPTS . . . . . 40 (+) \*  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40 \*  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \*\*\*\*\*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*\*\*\*\*  
 \* DISENGAGEMENT TIME . . . . . 4.409 SEC \*  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0210 \*  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 \*  
 \*\*\*\*\*  
 \* REDUCTION SPECIFICATIONS \*  
 \*\*\*\*\*  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 3.950 SEC \*  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0100 \*  
 \* SPECIFIED ACCESS TIME . . . . . 23.480 SEC \*  
 \*\*\*\*\*

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 NTIA-ITS (Boulder) 5904  
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\*\*\*\*\*  
 \* DESTINATION \*  
 \* DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

\*\*\*\*\*  
 \* PERFORMANCE STATISTICS \*  
 \*\*\*\*\*  
 \* DISENGAGEMENT ATTEMPTS . . . . . 40 (+) \*  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40 \*  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \*\*\*\*\*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*\*\*\*\*  
 \* DISENGAGEMENT TIME . . . . . 1.860 SEC \*  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0406 \*  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 \*  
 \*\*\*\*\*  
 \* REDUCTION SPECIFICATIONS \*  
 \*\*\*\*\*  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 1.810 SEC \*  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500 \*  
 \* SPECIFIED ACCESS TIME . . . . . 23.480 SEC \*  
 \*\*\*\*\*

\*\*\*\*\*  
 \* PERFORMANCE ASSESSMENT SUMMARY \*  
 \* \*\*\*\*\*

PERFORMANCE DATA BATCH  
 -----  
 NTIA-ITS (Boulder) 5905  
 -----  
 SOURCE USER . . . . . NTIA - ISDN service  
 DESTINATION USER . . . . . NASA LeRC - over ACTS  
 ORIGINATING USER . . . . . SOURCE  
 SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
 MEASUREMENT START TIME . . . . . 01/19/95 15:19:34.848 LT  
 MEASUREMENT END TIME . . . . . 01/19/95 15:50:01.429 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

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 NTIA-ITS (Boulder) 5905  
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\*\*\*\*\*  
 \* ACCESS ASSESSMENT SUMMARY \*  
 \* \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 ACCESS ATTEMPTS . . . . . 40 (+)  
 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 40  
 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE  
 -----  
 MEASURED PERFORMANCE PARAMETER VALUES  
 -----  
 ACCESS TIME . . . . . 26.962 SEC  
 USER FRACTION OF ACCESS TIME . . . . . 0.0040  
 INCORRECT ACCESS PROBABILITY . . . . . 0  
 ACCESS DENIAL PROBABILITY . . . . . 0  
 ACCESS OUTAGE PROBABILITY . . . . . 0  
 -----  
 REDUCTION SPECIFICATIONS  
 -----  
 SPECIFIED ACCESS TIME . . . . . 23.480 SEC  
 SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 0.0100

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 NTIA-ITS (Boulder) 5905  
 -----

\*\*\*\*\*  
 \* SOURCE DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \* \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 DISENGAGEMENT ATTEMPTS . . . . . 40 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE  
 -----  
 MEASURED PERFORMANCE PARAMETER VALUES  
 -----  
 DISENGAGEMENT TIME . . . . . 3.802 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0242  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0  
 -----  
 REDUCTION SPECIFICATIONS  
 -----  
 SPECIFIED DISENGAGEMENT TIME . . . . . 3.950 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0100  
 SPECIFIED ACCESS TIME . . . . . 23.480 SEC

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 NTIA-ITS (Boulder) 5905  
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\*\*\*\*\*  
 \* DESTINATION DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \* \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 DISENGAGEMENT ATTEMPTS . . . . . 40 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE  
 -----  
 MEASURED PERFORMANCE PARAMETER VALUES  
 -----  
 DISENGAGEMENT TIME . . . . . 1.823 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0412  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0  
 -----  
 REDUCTION SPECIFICATIONS  
 -----  
 SPECIFIED DISENGAGEMENT TIME . . . . . 1.810 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500  
 SPECIFIED ACCESS TIME . . . . . 23.480 SEC

\*\*\*\*\*  
 \* PERFORMANCE ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

\*\*\*\*\*  
 \* PERFORMANCE DATA BATCH \*  
 \*\*\*\*\*  
 \*-----\*  
 \* NTIA-ITS (Boulder) 5906 \*  
 \*-----\*  
 \* SOURCE USER . . . . . NTIA - ISDN service \*  
 \* DESTINATION USER . . . . . NASA LeRC - over ACTS \*  
 \* ORIGINATING USER . . . . . SOURCE \*  
 \*-----\*  
 \* SESSION CATEGORY . . . . . CONNECTION ORIENTED \*  
 \* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED \*  
 \*-----\*  
 \* MEASUREMENT START TIME . . . . . 01/19/95 16:01:18.956 LT \*  
 \* MEASUREMENT END TIME . . . . . 01/19/95 16:31:48.021 LT \*  
 \* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE) \*  
 \*-----\*

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 NTIA-ITS (Boulder) 5906  
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\*\*\*\*\*  
 \* ACCESS ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

\*\*\*\*\*  
 \* PERFORMANCE STATISTICS \*  
 \*-----\*  
 \* ACCESS ATTEMPTS . . . . . 40 (+) \*  
 \* 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 40 \*  
 \* 'INCORRECT ACCESS' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0 \*  
 \* 'ACCESS DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0 \*  
 \* 'ACCESS OUTAGE' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \*-----\*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*-----\*  
 \* ACCESS TIME . . . . . 26.932 SEC \*  
 \* USER FRACTION OF ACCESS TIME . . . . . 0.0041 \*  
 \* INCORRECT ACCESS PROBABILITY . . . . . 0 \*  
 \* ACCESS DENIAL PROBABILITY . . . . . 0 \*  
 \* ACCESS OUTAGE PROBABILITY . . . . . 0 \*  
 \*-----\*  
 \* REDUCTION SPECIFICATIONS \*  
 \*-----\*  
 \* SPECIFIED ACCESS TIME . . . . . 23.480 SEC \*  
 \* SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 0.0100 \*  
 \*-----\*

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 NTIA-ITS (Boulder) 5906  
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\*\*\*\*\*  
 \* SOURCE \*  
 \* DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

\*\*\*\*\*  
 \* PERFORMANCE STATISTICS \*  
 \*-----\*  
 \* DISENGAGEMENT ATTEMPTS . . . . . 40 (+) \*  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40 \*  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \*-----\*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*-----\*  
 \* DISENGAGEMENT TIME . . . . . 3.895 SEC \*  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0236 \*  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 \*  
 \*-----\*  
 \* REDUCTION SPECIFICATIONS \*  
 \*-----\*  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 3.950 SEC \*  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0100 \*  
 \* SPECIFIED ACCESS TIME . . . . . 23.480 SEC \*  
 \*-----\*

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 NTIA-ITS (Boulder) 5906  
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\*\*\*\*\*  
 \* DESTINATION \*  
 \* DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

\*\*\*\*\*  
 \* PERFORMANCE STATISTICS \*  
 \*-----\*  
 \* DISENGAGEMENT ATTEMPTS . . . . . 40 (+) \*  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40 \*  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \*-----\*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*-----\*  
 \* DISENGAGEMENT TIME . . . . . 1.824 SEC \*  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0410 \*  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 \*  
 \*-----\*  
 \* REDUCTION SPECIFICATIONS \*  
 \*-----\*  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 1.810 SEC \*  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500 \*  
 \* SPECIFIED ACCESS TIME . . . . . 23.480 SEC \*  
 \*-----\*

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*****
*
*                                PERFORMANCE ASSESSMENT SUMMARY
*
*****
*
*                                PERFORMANCE DATA BATCH
*
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NTIA-ITS (Boulder)                                5907
-----
SOURCE USER . . . . . NTIA - ISDN service
DESTINATION USER . . . . . NASA LeRC - over ACTS
ORIGINATING USER . . . . . SOURCE
SESSION CATEGORY . . . . . CONNECTION ORIENTED
INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED
MEASUREMENT START TIME . . . . . 02/06/95 14:19:46.813 LT
MEASUREMENT END TIME . . . . . 02/06/95 14:48:59.288 LT
(LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)
*****
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NTIA-ITS (Boulder)                                5907
-----
*
*                                SOURCE
*                                DISENGAGEMENT ASSESSMENT SUMMARY
*
*****
*
*                                PERFORMANCE STATISTICS
*
-----
DISENGAGEMENT ATTEMPTS . . . . . 40 (+)
'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40
'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*                                MEASURED PERFORMANCE PARAMETER VALUES
*
-----
DISENGAGEMENT TIME . . . . . 4.131 SEC
USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0221
DISENGAGEMENT DENIAL PROBABILITY . . . . . 0
*
*                                REDUCTION SPECIFICATIONS
*
-----
SPECIFIED DISENGAGEMENT TIME . . . . . 3.950 SEC
SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0100
SPECIFIED ACCESS TIME . . . . . 23.480 SEC
*****
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-----
NTIA-ITS (Boulder)                                5907
-----
*
*                                ACCESS ASSESSMENT SUMMARY
*
*****
*
*                                PERFORMANCE STATISTICS
*
-----
ACCESS ATTEMPTS . . . . . 40 (+)
'SUCCESSFUL ACCESS' OUTCOMES . . . . . 40
'INCORRECT ACCESS' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0
'ACCESS DENIAL' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0
'ACCESS OUTAGE' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0
(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*                                MEASURED PERFORMANCE PARAMETER VALUES
*
-----
ACCESS TIME . . . . . 24.776 SEC
USER FRACTION OF ACCESS TIME . . . . . 0.0043
INCORRECT ACCESS PROBABILITY . . . . . 0
ACCESS DENIAL PROBABILITY . . . . . 0
ACCESS OUTAGE PROBABILITY . . . . . 0
*
*                                REDUCTION SPECIFICATIONS
*
-----
SPECIFIED ACCESS TIME . . . . . 23.480 SEC
SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 0.0100
*****
```

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-----
NTIA-ITS (Boulder)                                5907
-----
*
*                                DESTINATION
*                                DISENGAGEMENT ASSESSMENT SUMMARY
*
*****
*
*                                PERFORMANCE STATISTICS
*
-----
DISENGAGEMENT ATTEMPTS . . . . . 40 (+)
'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40
'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0
(+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE
*
*                                MEASURED PERFORMANCE PARAMETER VALUES
*
-----
DISENGAGEMENT TIME . . . . . 1.877 SEC
USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0396
DISENGAGEMENT DENIAL PROBABILITY . . . . . 0
*
*                                REDUCTION SPECIFICATIONS
*
-----
SPECIFIED DISENGAGEMENT TIME . . . . . 1.810 SEC
SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500
SPECIFIED ACCESS TIME . . . . . 23.480 SEC
*****
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\*\*\*\*\*  
 \* PERFORMANCE ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

\*\*\*\*\*  
 \* PERFORMANCE DATA BATCH \*  
 \*\*\*\*\*  
 \*-----\*  
 \* NTIA-ITS (Boulder) 5908 \*  
 \*-----\*  
 \* SOURCE USER . . . . . NTIA - ISDN service \*  
 \* DESTINATION USER . . . . . NASA LeRC - over ACTS \*  
 \* ORIGINATING USER . . . . . SOURCE \*  
 \*-----\*  
 \* SESSION CATEGORY . . . . . CONNECTION ORIENTED \*  
 \* INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED \*  
 \*-----\*  
 \* MEASUREMENT START TIME . . . . . 02/06/95 15:00:50.846 LT \*  
 \* MEASUREMENT END TIME . . . . . 02/06/95 15:29:56.737 LT \*  
 \* (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE) \*  
 \*-----\*

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 NTIA-ITS (Boulder) 5908  
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\*\*\*\*\*  
 \* ACCESS ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

\*\*\*\*\*  
 \* PERFORMANCE STATISTICS \*  
 \*\*\*\*\*  
 \* ACCESS ATTEMPTS . . . . . 40 (+) \*  
 \* 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 40 \*  
 \* 'INCORRECT ACCESS' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0 \*  
 \* 'ACCESS DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0 \*  
 \* 'ACCESS OUTAGE' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \*-----\*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*-----\*  
 \* ACCESS TIME . . . . . 24.613 SEC \*  
 \* USER FRACTION OF ACCESS TIME . . . . . 0.0043 \*  
 \* INCORRECT ACCESS PROBABILITY . . . . . 0 \*  
 \* ACCESS DENIAL PROBABILITY . . . . . 0 \*  
 \* ACCESS OUTAGE PROBABILITY . . . . . 0 \*  
 \*-----\*  
 \* REDUCTION SPECIFICATIONS \*  
 \*-----\*  
 \* SPECIFIED ACCESS TIME . . . . . 23.480 SEC \*  
 \* SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 0.0100 \*  
 \*-----\*

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 NTIA-ITS (Boulder) 5908  
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\*\*\*\*\*  
 \* SOURCE \*  
 \* DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

\*\*\*\*\*  
 \* PERFORMANCE STATISTICS \*  
 \*\*\*\*\*  
 \* DISENGAGEMENT ATTEMPTS . . . . . 40 (+) \*  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40 \*  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \*-----\*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*-----\*  
 \* DISENGAGEMENT TIME . . . . . 4.134 SEC \*  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0221 \*  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 \*  
 \*-----\*  
 \* REDUCTION SPECIFICATIONS \*  
 \*-----\*  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 3.950 SEC \*  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0100 \*  
 \* SPECIFIED ACCESS TIME . . . . . 23.480 SEC \*  
 \*-----\*

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 NTIA-ITS (Boulder) 5908  
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\*\*\*\*\*  
 \* DESTINATION \*  
 \* DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

\*\*\*\*\*  
 \* PERFORMANCE STATISTICS \*  
 \*\*\*\*\*  
 \* DISENGAGEMENT ATTEMPTS . . . . . 40 (+) \*  
 \* 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40 \*  
 \* 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0 \*  
 \* (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE \*  
 \*-----\*  
 \* MEASURED PERFORMANCE PARAMETER VALUES \*  
 \*-----\*  
 \* DISENGAGEMENT TIME . . . . . 1.877 SEC \*  
 \* USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0396 \*  
 \* DISENGAGEMENT DENIAL PROBABILITY . . . . . 0 \*  
 \*-----\*  
 \* REDUCTION SPECIFICATIONS \*  
 \*-----\*  
 \* SPECIFIED DISENGAGEMENT TIME . . . . . 1.810 SEC \*  
 \* SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500 \*  
 \* SPECIFIED ACCESS TIME . . . . . 23.480 SEC \*  
 \*-----\*

\*\*\*\*\*  
 \* PERFORMANCE ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

PERFORMANCE DATA BATCH  
 -----  
 NTIA-ITS (Boulder) 5909  
 -----  
 SOURCE USER . . . . . NTIA - ISDN service  
 DESTINATION USER . . . . . NASA LeRC - over ACTS  
 ORIGINATING USER . . . . . SOURCE  
 SESSION CATEGORY . . . . . CONNECTION ORIENTED  
 INITIAL DISENGAGEMENT CATEGORY . . . . . NEGOTIATED  
 MEASUREMENT START TIME . . . . . 02/06/95 15:30:49.813 LT  
 MEASUREMENT END TIME . . . . . 02/06/95 15:59:58.076 LT  
 (LT - LOCAL TIME-OF-DAY AT ORIGINATING USER SITE)

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 NTIA-ITS (Boulder) 5909  
 -----

\*\*\*\*\*  
 \* ACCESS ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 ACCESS ATTEMPTS . . . . . 40 (+)  
 'SUCCESSFUL ACCESS' OUTCOMES . . . . . 40  
 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'INCORRECT ACCESS' OUTCOMES . . . . . 0  
 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS DENIAL' OUTCOMES . . . . . 0  
 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'ACCESS OUTAGE' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE  
 -----  
 MEASURED PERFORMANCE PARAMETER VALUES  
 -----  
 ACCESS TIME . . . . . 24.677 SEC  
 USER FRACTION OF ACCESS TIME . . . . . 0.0042  
 INCORRECT ACCESS PROBABILITY . . . . . 0  
 ACCESS DENIAL PROBABILITY . . . . . 0  
 ACCESS OUTAGE PROBABILITY . . . . . 0  
 -----  
 REDUCTION SPECIFICATIONS  
 -----  
 SPECIFIED ACCESS TIME . . . . . 23.480 SEC  
 SPECIFIED USER FRACTION OF ACCESS TIME . . . . . 0.0100

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 NTIA-ITS (Boulder) 5909  
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\*\*\*\*\*  
 \* SOURCE DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 DISENGAGEMENT ATTEMPTS . . . . . 40 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE  
 -----  
 MEASURED PERFORMANCE PARAMETER VALUES  
 -----  
 DISENGAGEMENT TIME . . . . . 4.128 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0221  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0  
 -----  
 REDUCTION SPECIFICATIONS  
 -----  
 SPECIFIED DISENGAGEMENT TIME . . . . . 3.950 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0100  
 SPECIFIED ACCESS TIME . . . . . 23.480 SEC

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 NTIA-ITS (Boulder) 5909  
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\*\*\*\*\*  
 \* DESTINATION DISENGAGEMENT ASSESSMENT SUMMARY \*  
 \*\*\*\*\*

PERFORMANCE STATISTICS  
 -----  
 DISENGAGEMENT ATTEMPTS . . . . . 40 (+)  
 'SUCCESSFUL DISENGAGEMENT' OUTCOMES . . . . . 40  
 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 PAIRS OF SUCCESSIVE 'DISENGAGEMENT DENIAL' OUTCOMES . . . . . 0  
 (+) THIS NUMBER EXCLUDES ATTEMPTS THAT FAIL DUE TO USER NONPERFORMANCE  
 -----  
 MEASURED PERFORMANCE PARAMETER VALUES  
 -----  
 DISENGAGEMENT TIME . . . . . 1.877 SEC  
 USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0396  
 DISENGAGEMENT DENIAL PROBABILITY . . . . . 0  
 -----  
 REDUCTION SPECIFICATIONS  
 -----  
 SPECIFIED DISENGAGEMENT TIME . . . . . 1.810 SEC  
 SPECIFIED USER FRACTION OF DISENGAGEMENT TIME . . . . . 0.0500  
 SPECIFIED ACCESS TIME . . . . . 23.480 SEC





**BIBLIOGRAPHIC DATA SHEET**

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11. Sponsoring Organization Name and Address		13.	
14. SUPPLEMENTARY NOTES			
15. ABSTRACT (A 200-word or less factual summary of most significant information. If document includes a significant bibliography or literature survey, mention it here.) The results of a series of data communication tests, which define the digital end-to-end performance of the Advanced Communication Technology Satellite (ACTS), are presented. The experiment consisted of a test set characterization to determine the effect of the test set on the results, a preliminary characterization to define the failure/non-performance outcome thresholds, and a full characterization. The experiments' design, execution, and analysis comply with the American National Standards X3.102 and X3.141. The tests showed that ACTS has a very clean data channel (only one lost byte was recorded during all the tests), the X.25 packet mode did not perform as well as expected, and the parameter estimates did not vary substantially over time or destination location.			
16. Key Words (Alphabetical order, separated by semicolons) ACTS; ANSI X3.102; ANSI X3.141; Advanced Communication Technology Satellite; satellite communications			
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